

Statistics/Data analysis

User: HASIL JAWA



17.0
MP-Parallel Edition

Statistics and Data Science

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Notes:

1. Unicode is supported; see [help unicode advice](#).
2. More than 2 billion observations are allowed; see [help obs advice](#).
3. Maximum number of variables is set to 5,000; see [help set maxvar](#).

```
1 . import excel "D:\SEMESTER 2-3\TEORI HARGA\Coppy of DATA_HARGA_THP_DI_PULAU_JAWA(1).xlsx", sheet("
  > PRODUSEN JAWA BARAT") firstrow
   (14 vars, 1,342 obs)
```

```
2 . drop Tanggal
```

```
3 . tsset Periode
```

Time variable: **Periode**, 1 to 1276
Delta: 1 unit

```
4 . dfuller KUALITAS1
```

Dickey-Fuller test for unit root Number of obs = **1,275**
Variable: **KUALITAS1** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-1.912	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.3262**.

```
5 . dfuller d.KUALITAS1
```

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **D.KUALITAS1** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-39.340	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.0000**.

```
6 . reg d.KUALITAS1 periode
variable periode not found
r(111);
```

```
7 . reg d.KUALITAS1 Periode
```

Source	SS	df	MS	Number of obs	=	1,275
Model	229271.023	1	229271.023	F(1, 1273)	=	0.42
Residual	698053079	1,273	548352.772	Prob > F	=	0.5180
				R-squared	=	0.0003
				Adj R-squared	=	-0.0005
Total	698282350	1,274	548102.316	Root MSE	=	740.51

D.KUALITAS1	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	-.0364334	.056345	-0.65	0.518	-.1469727	.0741059
_cons	39.28096	41.55	0.95	0.345	-42.23303	120.795

```
8 . estat sbsingle
```

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750
.....					800
.....					850
.....					

Test for a structural break: Unknown break date
Full sample: 2 thru 1276
Trimmed sample: 194 thru 1085
Estimated break date: 626

H0: No structural break

Number of obs = 1,275		
Test	Statistic	p-value
Supremum Wald	2.1404	0.9820

Exogenous variables: Periode
Coefficients included in test: Periode _cons

9 . dfuller KUALITAS2

Dickey-Fuller test for unit root Number of obs = **1,275**
 Variable: **KUALITAS2** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-1.680	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.4415**.

10 . dfuller d.KUALITAS2

Dickey-Fuller test for unit root Number of obs = **1,274**
 Variable: **D.KUALITAS2** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-40.273	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.0000**.

11 . reg d.KUALITAS2 Periode

Source	SS	df	MS	Number of obs	=	1,275
Model	126050.648	1	126050.648	F(1, 1273)	=	0.24
Residual	673374562	1,273	528966.663	Prob > F	=	0.6255
				R-squared	=	0.0002
				Adj R-squared	=	-0.0006
Total	673500613	1,274	528650.402	Root MSE	=	727.3

D.KUALITAS2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	-.0270146	.0553401	-0.49	0.626	-.1355823	.0815532
_cons	35.69368	40.80892	0.87	0.382	-44.36645	115.7538

12 . estat sbsingle

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750
.....					800
.....					850

.....

Test for a structural break: Unknown break date
 Full sample: 2 thru 1276
 Trimmed sample: 194 thru 1085
 Estimated break date: 540

H0: No structural break

Number of obs = 1,275		
Test	Statistic	p-value
Supremum Wald	2.1321	0.9826

Exogenous variables: **Periode**
 Coefficients included in test: **Periode _cons**

13 . tsline d.KUALITAS1

14 . tsline d.KUALITAS2

15 . import excel "D:\SEMESTER 2-3\TEORI HARGA\Copy of DATA_HARGA_THP_DI_PULAU_JAWA(1).xlsx", sheet(" > PRODUSEN JAWA TENGAH") firstrow clear
 (4 vars, 1,342 obs)

16 . drop Tanggal

17 . tsset Periode

Time variable: **Periode**, 1 to 1276
 Delta: 1 unit

18 . dfuller KUALITAS1

Dickey-Fuller test for unit root Number of obs = 1,275
 Variable: **KUALITAS1** Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-1.555	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.5064.

19 . dfuller d.KUALITAS1

Dickey-Fuller test for unit root Number of obs = 1,274
 Variable: **D.KUALITAS1** Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-36.031	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0000.

20 . reg d.KUALITAS1 Periode

Source	SS	df	MS	Number of obs	=	1,275
Model	15123.1118	1	15123.1118	F(1, 1273)	=	0.11
Residual	177786551	1,273	139659.506	Prob > F	=	0.7422
				R-squared	=	0.0001
				Adj R-squared	=	-0.0007
Total	177801675	1,274	139561.754	Root MSE	=	373.71

D.KUALITAS1	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	-.0093572	.0284355	-0.33	0.742	-.0651428	.0464284
_cons	18.29298	20.96893	0.87	0.383	-22.84448	59.43043

21 . estat sbsingle

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750
.....					800
.....					850
.....					

Test for a structural break: Unknown break date

Full sample: 2 thru 1276

Trimmed sample: 194 thru 1085

Estimated break date: 366

H0: No structural break

Number of obs = 1,275		
Test	Statistic	p-value
Supremum Wald	2.7420	0.9230

Exogenous variables: Periode

Coefficients included in test: Periode _cons

22 . tsline d.KUALITAS1

23 . dfuller KUALITAS2

Dickey-Fuller test for unit root Number of obs = **1,275**
 Variable: **KUALITAS2** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-1.434	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.5661**.

24 . dfuller d.KUALITAS2

Dickey-Fuller test for unit root Number of obs = **1,274**
 Variable: **D.KUALITAS2** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-39.382	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0000**.

25 . reg d.KUALITAS2 Periode

Source	SS	df	MS	Number of obs	=	1,275
Model	19516.2473	1	19516.2473	F(1, 1273)	=	0.10
Residual	247893354	1,273	194731.622	Prob > F	=	0.7516
				R-squared	=	0.0001
				Adj R-squared	=	-0.0007
Total	247912871	1,274	194594.09	Root MSE	=	441.28

D.KUALITAS2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	-.0106298	.0335771	-0.32	0.752	-.0765024	.0552429
_cons	21.7336	24.76049	0.88	0.380	-26.84225	70.30945

26 . estat sbsingle

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750

```

..... 800
..... 850
.....

```

Test for a structural break: Unknown break date
 Full sample: 2 thru 1276
 Trimmed sample: 194 thru 1085
 Estimated break date: 366

H0: No structural break

Number of obs = 1,275

Test	Statistic	p-value
Supremum Wald	4.2220	0.6888

Exogenous variables: Periode

Coefficients included in test: Periode _cons

27 . tsline d.KUALITAS2

28 . import excel "D:\SEMESTER 2-3\TEORI HARGA\Copy of DATA_HARGA_THP_DI_PULAU_JAWA(1).xlsx", sheet(" > PRODUSEN JAWA TIMUR") firstrow clear
 (4 vars, 1,342 obs)

29 . drop Tanggal

30 . tsset Periode

Time variable: Periode, 1 to 1276
 Delta: 1 unit

31 . dfuller KUALITAS1

Dickey-Fuller test for unit root Number of obs = 1,275
 Variable: KUALITAS1 Number of lags = 0

H0: Random walk without drift, d = 0

Test statistic	Dickey-Fuller critical value			
	1%	5%	10%	
Z(t)	-2.345	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.1580.

32 . dfuller d.KUALITAS1

Dickey-Fuller test for unit root Number of obs = 1,274
 Variable: D.KUALITAS1 Number of lags = 0

H0: Random walk without drift, d = 0

Test statistic	Dickey-Fuller critical value			
	1%	5%	10%	
Z(t)	-38.776	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0000.

33 . reg d.KUALITAS1 Periode

Source	SS	df	MS	Number of obs	=	1,275
Model	8312.0776	1	8312.0776	F(1, 1273)	=	0.04
Residual	260663362	1,273	204763.05	Prob > F	=	0.8404
				R-squared	=	0.0000
				Adj R-squared	=	-0.0008
Total	260671675	1,274	204608.85	Root MSE	=	452.51

D.KUALITAS1	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	.0069371	.0344311	0.20	0.840	-.0606109	.0744851
_cons	1.880895	25.39024	0.07	0.941	-47.93041	51.6922

34 . estat sbsingle

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750
.....					800
.....					850
.....					

Test for a structural break: Unknown break date

Full sample: 2 thru 1276

Trimmed sample: 194 thru 1085

Estimated break date: 866

H0: No structural break

Number of obs = 1,275		
Test	Statistic	p-value
Supremum Wald	1.2205	1.0000

Exogenous variables: Periode

Coefficients included in test: Periode _cons

35 . tsline d.KUALITAS1

36 . dfuller KUALITAS2

Dickey-Fuller test for unit root Number of obs = **1,275**
Variable: **KUALITAS2** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-4.812	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0001**.

37 . reg KUALITAS2 Periode

Source	SS	df	MS	Number of obs	=	1,276
Model	3.8174e+09	1	3.8174e+09	F(1, 1274)	=	52.17
Residual	9.3216e+10	1,274	73168243.2	Prob > F	=	0.0000
Total	9.7034e+10	1,275	76104887.2	R-squared	=	0.0393
				Adj R-squared	=	0.0386
				Root MSE	=	8553.8

KUALITAS2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	4.695674	.6500939	7.22	0.000	3.420302	5.971047
_cons	99879.79	479.2049	208.43	0.000	98939.67	100819.9

38 . estat sbsingle

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750
.....					800
.....					850
.....					

Test for a structural break: Unknown break date

Full sample: **1** thru **1276**

Trimmed sample: **193** thru **1085**

Estimated break date: **409**

H0: No structural break

Number of obs = 1,276

Test	Statistic	p-value
Supremum Wald	239.8299	0.0000

Exogenous variables: **Periode**Coefficients included in test: **Periode _cons**

39 . tsline KUALITAS2

40 . import excel "D:\SEMESTER 2-3\TEORI HARGA\Copy of DATA_HARGA_THP_DI_PULAU_JAWA(1).xlsx", sheet(" > PRODUSEN BANTEN") firstrow clear
(4 vars, 1,342 obs)

41 . drop Tanggal

42 . tsset Periode

Time variable: **Periode**, 1 to 1276
Delta: 1 unit

43 . dfuller KUALITAS1

Dickey-Fuller test for unit root Number of obs = 1,275
Variable: **KUALITAS1** Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-2.183	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.2126.

44 . dfuller d.KUALITAS1

Dickey-Fuller test for unit root Number of obs = 1,274
Variable: **D.KUALITAS1** Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-35.154	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0000.

45 . reg d.KUALITAS1 Periode

Source	SS	df	MS	Number of obs	=	1,275
Model	597057.503	1	597057.503	F(1, 1273)	=	0.70
Residual	1.0898e+09	1,273	856097.729	Prob > F	=	0.4038
				R-squared	=	0.0005
				Adj R-squared	=	-0.0002
Total	1.0904e+09	1,274	855894.401	Root MSE	=	925.26

D.KUALITAS1	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	-.0587941	.0704023	-0.84	0.404	-.1969115	.0793233
_cons	49.33412	51.91617	0.95	0.342	-52.51654	151.1848

46 . estat sbsingle

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750
.....					800
.....					850
.....					

Test for a structural break: Unknown break date

Full sample: 2 thru 1276

Trimmed sample: 194 thru 1085

Estimated break date: 366

H0: No structural break

Number of obs = 1,275

Test	Statistic	p-value
Supremum Wald	5.1516	0.5351

Exogenous variables: **Periode**

Coefficients included in test: **Periode _cons**

47 . tsline d.KUALITAS1

48 . dfuller KUALITAS2

Dickey-Fuller test for unit root

Number of obs = 1,275

Variable: **KUALITAS2**

Number of lags = 0

H0: Random walk without drift, d = 0

Test statistic	Dickey-Fuller critical value		
	1%	5%	10%
Z(t)	-3.050	-3.430	-2.860
			-2.570

MacKinnon approximate p-value for Z(t) = 0.0305.

49 . reg KUALITAS2 Periode

Source	SS	df	MS	Number of obs	=	1,276
Model	1.7375e+09	1	1.7375e+09	F(1, 1274)	=	6.12
Residual	3.6154e+11	1,274	283786457	Prob > F	=	0.0135
				R-squared	=	0.0048
				Adj R-squared	=	0.0040
Total	3.6328e+11	1,275	284926627	Root MSE	=	16846

KUALITAS2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
Periode	3.167944	1.280297	2.47	0.013	.656223	5.679666
_cons	110902.7	943.7475	117.51	0.000	109051.2	112754.1

50 . estat sbsingle

	1	2	3	4	5
.....					50
.....					100
.....					150
.....					200
.....					250
.....					300
.....					350
.....					400
.....					450
.....					500
.....					550
.....					600
.....					650
.....					700
.....					750
.....					800
.....					850
.....					

Test for a structural break: Unknown break date

Full sample: 1 thru 1276

Trimmed sample: 193 thru 1085

Estimated break date: 279

H0: No structural break

Number of obs = 1,276		
Test	Statistic	p-value
Supremum Wald	1479.1632	0.0000

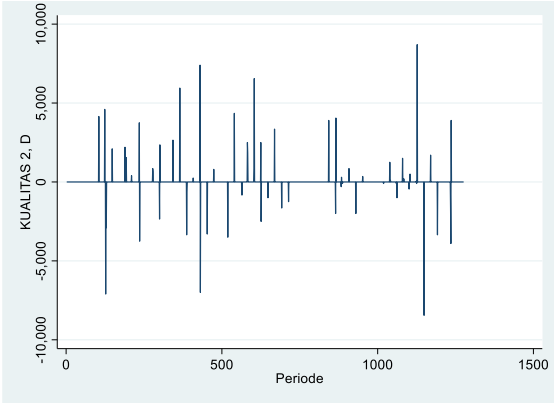
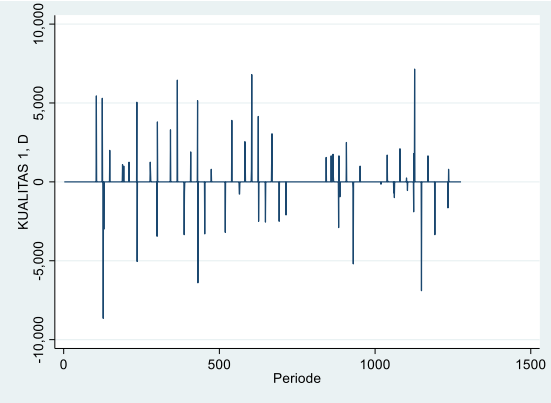
Exogenous variables: Periode

Coefficients included in test: Periode _cons

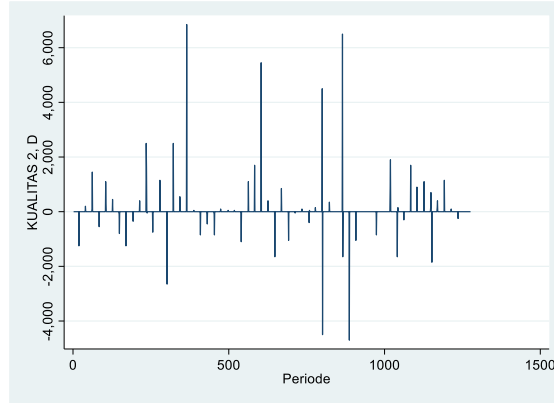
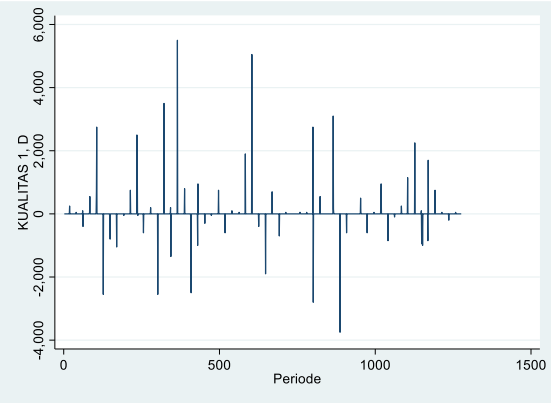
51 . tsline KUALITAS2

52 .

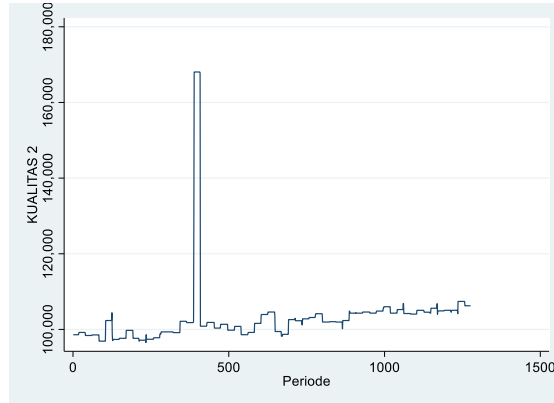
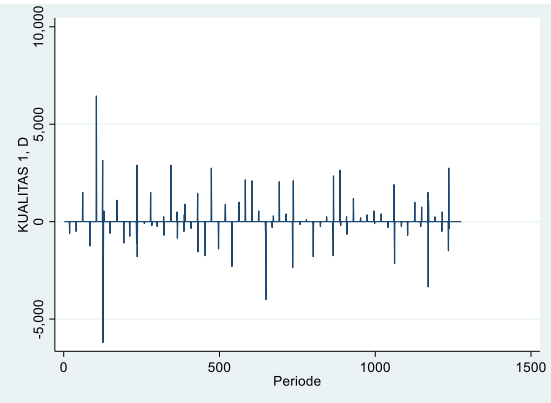
1. JAWA BARAT



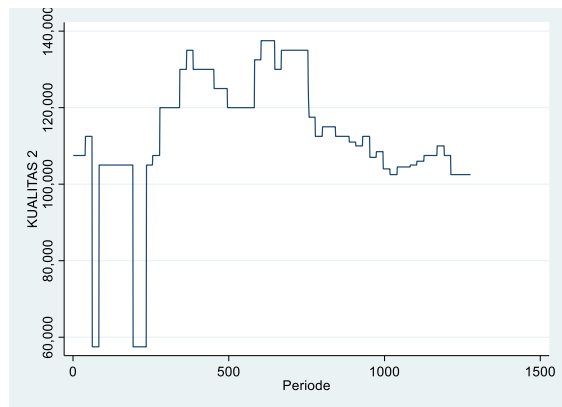
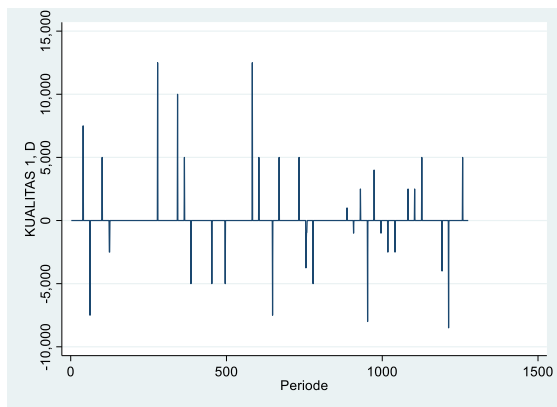
2. JAWA TENGAH

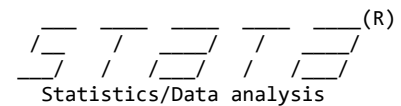


3. JAWA TIMUR

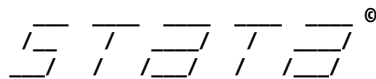


4. BANTEN





User: Fajar
Project: Banten



17.0
MP-Parallel Edition

Statistics and Data Science

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Serial number: 18461036
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TEAM BTCR

Notes:

1. Unicode is supported; see [help unicode advice](#).
2. More than 2 billion observations are allowed; see [help obs advice](#).
3. Maximum number of variables is set to 5,000; see [help set maxvar](#).

```
1 . edit

2 . *(1 variable, 1276 observations pasted into data editor)

3 . *(3 variables, 1276 observations pasted into data editor)

4 . tsset periode

   Time variable: periode, 1 to 1276
   Delta: 1 unit

5 . gen ln_pp_banten = ln(pp_banten)

6 . gen ln_pb_banten = ln(pb_banten)

7 . gen ln_pt_banten = ln(pt_banten)
   (1 missing value generated)

8 . foreach var in ln_pp_banten ln_pb_banten ln_pt_banten {
   2.
9 .     dfuller `var'
   3.
10 . }
```

Dickey-Fuller test for unit root Number of obs = **1,275**
Variable: **ln_pp_banten** Number of lags = **0**

H0: Random walk without drift, d = 0

Test statistic	Dickey-Fuller critical value			
	1%	5%	10%	
Z(t)	-2.183	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.2125**.

Dickey-Fuller test for unit root Number of obs = **1,275**
Variable: **ln_pb_banten** Number of lags = **0**

H0: Random walk without drift, d = 0

Test statistic	Dickey-Fuller critical value			
	1%	5%	10%	
Z(t)	-1.422	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.5716**.

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **ln_pt_banten** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-3.038	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0315**.

```
11 . foreach var in d.ln_pp_banten d.ln_pb_banten ln_pt_banten {
12 .     dfuller `var'
13 . }
```

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **D.ln_pp_banten** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-35.166	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0000**.

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **D.ln_pb_banten** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-35.684	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0000**.

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **ln_pt_banten** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-3.038	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0315**.

```
14 . var ln_pp_banten ln_pb_banten ln_pt_banten
```

Vector autoregression

Sample: **3** thru **1275** Number of obs = **1,273**
Log likelihood = **13447.39** AIC = **-21.09409**
FPE = **1.39e-13** HQIC = **-21.06218**
Det(Sigma_ml) = **1.34e-13** SBIC = **-21.00914**

Equation	Parms	RMSE	R-sq	chi2	P>chi2
ln_pp_banten	7	.007534	0.9903	130497.1	0.0000
ln_pb_banten	7	.005344	0.9966	368455.7	0.0000
ln_pt_banten	7	.009185	0.9775	55421.15	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
ln_pp_banten						
ln_pp_banten						
L1.	1.000819	.0280611	35.67	0.000	.9458197	1.055817
L2.	-.0202314	.0280068	-0.72	0.470	-.0751237	.0346609
ln_pb_banten						
L1.	-.0394444	.0389508	-1.01	0.311	-.1157865	.0368977
L2.	.0305698	.0382528	0.80	0.424	-.0444043	.1055438
ln_pt_banten						
L1.	.0233152	.0225675	1.03	0.302	-.0209163	.0675467
L2.	.0074814	.0229926	0.33	0.745	-.0375833	.0525462
_cons	-.0317465	.0451757	-0.70	0.482	-.1202892	.0567962
ln_pb_banten						
ln_pp_banten						
L1.	-.0153044	.0199045	-0.77	0.442	-.0543165	.0237077
L2.	.0084483	.019866	0.43	0.671	-.0304883	.0473849
ln_pb_banten						
L1.	.9595106	.0276288	34.73	0.000	.9053591	1.013662
L2.	.019699	.0271337	0.73	0.468	-.0334821	.07288
ln_pt_banten						
L1.	.1400367	.0160077	8.75	0.000	.1086622	.1714113
L2.	-.1010116	.0163093	-6.19	0.000	-.1329772	-.069046
_cons	-.1357844	.0320443	-4.24	0.000	-.1985901	-.0729787
ln_pt_banten						
ln_pp_banten						
L1.	.0473657	.0342098	1.38	0.166	-.0196844	.1144157
L2.	-.0123285	.0341436	-0.36	0.718	-.0792487	.0545918
ln_pb_banten						
L1.	-.0620489	.0474856	-1.31	0.191	-.155119	.0310212
L2.	.088213	.0466347	1.89	0.059	-.0031892	.1796152
ln_pt_banten						
L1.	1.110679	.0275125	40.37	0.000	1.056755	1.164602
L2.	-.1966969	.0280307	-7.02	0.000	-.2516362	-.1417577
_cons	.2976157	.0550745	5.40	0.000	.1896717	.4055598

15 . varsoc

Lag-order selection criteria

Sample: 3 thru 1275

Number of obs = 1,273

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	6202.39				1.2e-08	-9.73981	-9.73526	-9.72768
1	13401.8	14399	9	0.000	1.5e-13	-21.0367	-21.0184	-20.9881
2	13447.4	91.109*	9	0.000	1.4e-13*	-21.0941*	-21.0622*	-21.0091*

* optimal lag

Endogenous: ln_pp_banten ln_pb_banten ln_pt_banten

Exogenous: _cons

16 . vecrank ln_pp_banten ln_pb_banten ln_pt_banten, trend(constant)

Johansen tests for cointegration

Trend: Constant

Sample: 3 thru 1275

Number of obs = 1,273

Number of lags = 2

Maximum rank	Params	LL	Eigenvalue	Trace statistic	Critical value 5%
0	12	13392.075	.	110.6218	29.68
1	17	13439.836	0.07229	15.1001*	15.41
2	20	13445.699	0.00917	3.3736	3.76
3	21	13447.386	0.00265		

* selected rank

17 . vec ln_pp_banten ln_pb_banten ln_pt_banten, trend(constant)

Vector error-correction model

Sample: 3 thru 1275

Number of obs = 1,273

AIC = -21.08851

Log likelihood = 13439.84

HQIC = -21.06268

Det(Sigma_ml) = 1.36e-13

SBIC = -21.01975

Equation	Parms	RMSE	R-sq	chi2	P>chi2
D_ln_pp_banten	5	.007544	0.0085	10.84021	0.0546
D_ln_pb_banten	5	.005355	0.0714	97.4781	0.0000
D_ln_pt_banten	5	.009186	0.0659	89.44679	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
D_ln_pp_banten						
_ce1						
L1.	-.0108752	.0034579	-3.15	0.002	-.0176525	-.0040979
ln_pp_banten						
LD.	.0159281	.0279986	0.57	0.569	-.0389481	.0708043
ln_pb_banten						
LD.	-.0322047	.0383978	-0.84	0.402	-.107463	.0430537
ln_pt_banten						
LD.	-.0077409	.0230745	-0.34	0.737	-.0529662	.0374843
_cons	.0000976	.0002115	0.46	0.644	-.0003169	.0005122
D_ln_pb_banten						
_ce1						
L1.	-.0141186	.0024544	-5.75	0.000	-.018929	-.0093081
ln_pp_banten						
LD.	-.0034677	.0198732	-0.17	0.861	-.0424184	.035483
ln_pb_banten						
LD.	-.0198244	.0272545	-0.73	0.467	-.0732422	.0335934
ln_pt_banten						
LD.	.10224	.0163781	6.24	0.000	.0701395	.1343405
_cons	.0001142	.0001501	0.76	0.447	-.00018	.0004085
D_ln_pt_banten						
_ce1						
L1.	.0303659	.0042107	7.21	0.000	.0221131	.0386188
ln_pp_banten						
LD.	.0164627	.0340941	0.48	0.629	-.0503606	.083286
ln_pb_banten						
LD.	-.0893626	.0467574	-1.91	0.056	-.1810054	.0022803

ln_pt_banten						
ln_pp_banten						
L2.	.0674997	.0097198	6.94	0.000	.0484493	.0865502
ln_pb_banten						
L2.	.0473558	.0087928	5.39	0.000	.0301222	.0645895
ln_pt_banten						
L2.	.8368917	.0171729	48.73	0.000	.8032335	.87055
_cons	.5784814	.0817894	7.07	0.000	.4181771	.7387858

20 . vargranger

Granger causality Wald tests

Equation	Excluded	chi2	df	Prob > chi2
ln_pp_banten	ln_pb_banten	5.5426	1	0.019
ln_pp_banten	ln_pt_banten	18.263	1	0.000
ln_pp_banten	ALL	19.171	2	0.000
ln_pb_banten	ln_pp_banten	5.3129	1	0.021
ln_pb_banten	ln_pt_banten	65.978	1	0.000
ln_pb_banten	ALL	81.601	2	0.000
ln_pt_banten	ln_pp_banten	48.227	1	0.000
ln_pt_banten	ln_pb_banten	29.006	1	0.000
ln_pt_banten	ALL	72.073	2	0.000

21 . predict ecm_resid, resid
(2 missing values generated)

22 . dfuller ecm_resid

Dickey-Fuller test for unit root Number of obs = **1,273**
Variable: **ecm_resid** Number of lags = **0**

H0: Random walk without drift, d = 0

Test statistic	Dickey-Fuller critical value		
	1%	5%	10%
Z(t)	-20.209	-3.430	-2.860

MacKinnon approximate p-value for Z(t) = **0.0000**.

23 . gen lag_ecm_resid = l.ecm.resid
l: operator invalid
r(198);

24 . gen lag_ecm_res = l.ecm.resid
l: operator invalid
r(198);

25 . gen lag_ecm_res = L.ecm.resid
L: operator invalid
r(198);

```
26 . gen lag_ecm_res = l.ecm.resid
    1: operator invalid
    r(198);
```

```
27 . gen lag_ecm_res = l.ecm.resid
    (3 missing values generated)
```

```
28 . regress d.ln_pp_banten d.ln_pb_banten ln_pt_banten lag_ecm_res
```

Source	SS	df	MS	Number of obs	=	1,272
Model	4.3015e-06	3	1.4338e-06	F(3, 1268)	=	0.02
Residual	.072765054	1,268	.000057386	Prob > F	=	0.9947
				R-squared	=	0.0001
				Adj R-squared	=	-0.0023
Total	.072769355	1,271	.000057254	Root MSE	=	.00758

D. ln_pp_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_banten D1.	.0001915	.0383756	0.00	0.996	-.0750952	.0754782
ln_pt_banten	-.0008977	.0034869	-0.26	0.797	-.0077385	.005943
lag_ecm_res	-.0016711	.0199532	-0.08	0.933	-.0408161	.0374738
_cons	.0107068	.0411887	0.26	0.795	-.0700987	.0915122

```
29 .
```

```
30 . regress d.ln_pb_banten d.ln_pp_banten ln_pt_banten lag_ecm_res
```

Source	SS	df	MS	Number of obs	=	1,272
Model	.000164656	3	.000054885	F(3, 1268)	=	1.79
Residual	.038966638	1,268	.000030731	Prob > F	=	0.1480
				R-squared	=	0.0042
				Adj R-squared	=	0.0019
Total	.039131294	1,271	.000030788	Root MSE	=	.00554

D. ln_pb_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pp_banten D1.	.0001026	.0205506	0.00	0.996	-.0402144	.0404196
ln_pt_banten	.0058778	.0025464	2.31	0.021	.0008821	.0108734
lag_ecm_res	-.0036383	.0146012	-0.25	0.803	-.0322835	.0250068
_cons	-.069301	.0300793	-2.30	0.021	-.1283116	-.0102904

```
31 .
```

```
32 . regress ln_pt_banten d.ln_pb_banten d.ln_pp_banten lag_ecm_res
```

Source	SS	df	MS	Number of obs	=	1,272
Model	.025317447	3	.008439149	F(3, 1268)	=	2.27
Residual	4.71954438	1,268	.003722038	Prob > F	=	0.0790
				R-squared	=	0.0053
				Adj R-squared	=	0.0030
Total	4.74486182	1,271	.003733172	Root MSE	=	.06101

ln_pt_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_banten D1.	.7119003	.3084135	2.31	0.021	.1068434	1.316957
ln_pp_banten D1.	-.0582259	.226161	-0.26	0.797	-.5019168	.3854649
lag_ecm_res	.1922058	.1606045	1.20	0.232	-.122874	.5072855
_cons	11.81223	.0017112	6902.84	0.000	11.80887	11.81558

33 .
34 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	1233.119	1	0.0000

H0: no serial correlation

35 .
36 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity

Assumption: Normal error terms

Variable: Fitted values of ln_pt_banten

H0: Constant variance

chi2(1) = 0.08
Prob > chi2 = 0.7796

37 . regress d.ln_pp_banten d.ln_pb_banten d.ln_pt_banten lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,272
Model	.000118351	3	.00003945	F(3, 1268)	=	0.69
Residual	.072651004	1,268	.000057296	Prob > F	=	0.5591
				R-squared	=	0.0016
				Adj R-squared	=	-0.0007
Total	.072769355	1,271	.000057254	Root MSE	=	.00757

D. ln_pp_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]
ln_pb_banten D1.	-.0007364	.0382657	-0.02	0.985	-.0758076 .0743347
ln_pt_banten D1.	.0321872	.0224426	1.43	0.152	-.0118416 .076216
lag_ecm_res _cons	-.004229 .0001005	.0199956 .0002123	-0.21 0.47	0.833 0.636	-.0434571 .0349991 -.000316 .000517

38 .
39 . regress d.ln_pb_banten d.ln_pp_banten d.ln_pt_banten lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,272
Model	2.0107e-06	3	6.7022e-07	F(3, 1268)	=	0.02
Residual	.039129283	1,268	.000030859	Prob > F	=	0.9957
				R-squared	=	0.0001
				Adj R-squared	=	-0.0023
Total	.039131294	1,271	.000030788	Root MSE	=	.00556

D. ln_pb_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]
ln_pp_banten D1.	-.0003966	.0206096	-0.02	0.985	-.0408294 .0400361
ln_pt_banten D1.	.0030994	.0164835	0.19	0.851	-.0292386 .0354374
lag_ecm_res _cons	-.002749 .0001288	.0146746 .0001558	-0.19 0.83	0.851 0.409	-.0315382 .0260401 -.0001768 .0004344

40 .

41 . regress d.ln_pt_banten d.ln_pb_banten d.ln_pp_banten lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,272
Model	.00097935	3	.00032645	F(3, 1268)	=	3.64
Residual	.113571799	1,268	.000089568	Prob > F	=	0.0123
				R-squared	=	0.0085
				Adj R-squared	=	0.0062
Total	.114551149	1,271	.000090127	Root MSE	=	.00946

D. ln_pt_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_banten D1.	.0089959	.047843	0.19	0.851	-.0848643	.1028561
ln_pp_banten D1.	.0503167	.0350835	1.43	0.152	-.0185114	.1191448
lag_ecm_res _cons	.0741975	.024914	2.98	0.003	.0253204	.1230747
	.0000635	.0002655	0.24	0.811	-.0004573	.0005843

42 .

43 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	25.567	1	0.0000

H0: no serial correlation

44 .

45 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity

Assumption: Normal error terms

Variable: Fitted values of D.ln_pt_banten

H0: Constant variance

chi2(1) = 4.23
 Prob > chi2 = 0.0398

46 . summarize ln_pt_banten ln_pb_banten ln_pp_banten

Variable	Obs	Mean	Std. dev.	Min	Max
ln_pt_banten	1,275	11.81206	.0612465	11.70561	12.01884
ln_pb_banten	1,276	11.77124	.090881	11.65269	11.92172
ln_pp_banten	1,276	11.71671	.0765559	11.58525	11.8494

47 . summarize pt_banten pb_banten pp_banten

Variable	Obs	Mean	Std. dev.	Min	Max
pt_banten	1,275	135119.1	8126.688	121250	165850
pb_banten	1,276	130007.8	11731.97	115000	150500
pp_banten	1,276	122958.5	9232.326	107500	140000

48 . * PERSAMAAN ASIMETRI HARGA

49 .

50 . gen d_ln_p_banten = ln_p_banten - ln_p_banten[_n-1]
 ln_p_banten not found
r(111);

51 .

52 . gen d_ln_p_banten_pos = cond(d_ln_p_banten > 0, d_ln_p_banten, 0)
 d_ln_p_banten not found
r(111);

53 .

54 . gen d_ln_p_banten_neg = cond(d_ln_p_banten < 0, d_ln_p_banten, 0)
 d_ln_p_banten not found
r(111);

55 .

56 . gen d_ln_pb_banten = ln_pb_banten - ln_pb_banten[_n-1]
 (1 missing value generated)

57 .

58 . gen d_ln_pb_banten_pos = cond(d_ln_pb_banten > 0, d_ln_pb_banten, 0)
 (1 missing value generated)

59 .

60 . gen d_ln_pb_banten_neg = cond(d_ln_pb_banten < 0, d_ln_pb_banten, 0)

61 .

62 . gen d_ln_t_banten = ln_t_banten - ln_t_banten[_n-1]
 ln_t_banten not found
r(111);

63 .

64 . gen d_ln_t_banten_pos = cond(d_ln_t_banten > 0, d_ln_t_banten, 0)
 d_ln_t_banten not found
r(111);

65 .

66 . gen d_ln_t_banten_neg = cond(d_ln_t_banten < 0, d_ln_t_banten, 0)
 d_ln_t_banten not found
r(111);

67 .

68 . * REGRESI MODEL HOUCK

69 .

70 . * 1 MODEL TERHADAP PRODUSEN

71 .

72 . reg ln_p_banten d_ln_pb_banten_pos d_ln_pb_banten_neg d_ln_t_banten_pos d_ln_t_banten_neg
 variable ln_p_banten not found
r(111);

73 .

74 . * Uji Asimetri dengan Wald

75 .

76 . test d_ln_pb_banten_pos = d_ln_pb_banten_neg
 d_ln_pb_banten_pos not found
r(111);

```

77 .
78 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_banten yaitu 0,3985 > 0,05, maka ped
> agang besar tidak memiliki asimetri harga terhadap pasar produsen

79 .
80 . test d_ln_t_banten_pos = d_ln_t_banten_neg
d_ln_t_banten_pos not found
r(111);

81 .
82 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_banten yaitu 0,2022 > 0,05, maka peda
> gang besar tidak memiliki asimetri harga terhadap pasar produsen dan tidak ada efek perubahan
> postif dan negatif terhadap Produsen

83 .
84 . * _____

85 .
86 . * MODEL TERHADAP PEDAGANG BESAR

87 .
88 . reg ln_pb_banten d_ln_p_banten_pos d_ln_p_banten_neg d_ln_t_banten_pos d_ln_t_banten_neg
variable d_ln_p_banten_pos not found
r(111);

89 .
90 . test d_ln_p_banten_pos = d_ln_p_banten_neg
d_ln_p_banten_pos not found
r(111);

91 .
92 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_banten yaitu 0,4354 > 0,05, maka Prod
> usen tidak memiliki asimetri harga terhadap Pedagang Besar

93 .
94 . test d_ln_t_banten_pos = d_ln_t_banten_neg
d_ln_t_banten_pos not found
r(111);

95 .
96 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_banten yaitu 0,1423 > 0,05, maka Pasa
> r Tradisional tidak memiliki asimetri harga terhadap pasar pedagang besar dan tidak ada efek p
> erubahan postif dan negatif

97 .
98 . * _____

99 .
100 . * MODEL TERHADAP PASAR TRADISIONAL

101 .
102 . reg ln_t_banten d_ln_p_banten_pos d_ln_p_banten_neg d_ln_pb_banten_pos d_ln_pb_banten_neg
variable ln_t_banten not found
r(111);

103 .
104 . test d_ln_p_banten_pos = d_ln_p_banten_neg
d_ln_p_banten_pos not found
r(111);

105 .
106 . test d_ln_pb_banten_pos = d_ln_pb_banten_neg
d_ln_pb_banten_pos not found
r(111);

```

```

107 .
108 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_banten yaitu 0,6096 > 0,05, maka Prod
> usen tidak memiliki asimetri harga terhadap pasar tradisional dan tidak ada efek perubahan pos
> tif dan negatif

109 .
110 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_banten yaitu 0,0024 < 0,05, maka Pas
> ar Tradisional memiliki asimetri harga terhadap pasar tradisional dalam ada efek perubahan pos
> tif dan negatif

111 .
112 . * _____

113 .
114 . * SELESAI

115 . * PERSAMAAN ASIMETRI HARGA

116 .
117 . gen d_ln_pp_banten = ln_pp_banten - ln_pp_banten[_n-1]
(1 missing value generated)

118 .
119 . gen d_ln_pp_banten_pos = cond(d_ln_pp_banten > 0, d_ln_pp_banten, 0)
(1 missing value generated)

120 .
121 . gen d_ln_pp_banten_neg = cond(d_ln_pp_banten < 0, d_ln_pp_banten, 0)

122 .
123 . gen d_ln_pb_banten = ln_pb_banten - ln_pb_banten[_n-1]
variable d_ln_pb_banten already defined
r(110);

124 .
125 . gen d_ln_pb_banten_pos = cond(d_ln_pb_banten > 0, d_ln_pb_banten, 0)
variable d_ln_pb_banten_pos already defined
r(110);

126 .
127 . gen d_ln_pb_banten_neg = cond(d_ln_pb_banten < 0, d_ln_pb_banten, 0)
variable d_ln_pb_banten_neg already defined
r(110);

128 .
129 . gen d_ln_pt_banten = ln_pt_banten - ln_pt_banten[_n-1]
(2 missing values generated)

130 .
131 . gen d_ln_pt_banten_pos = cond(d_ln_pt_banten > 0, d_ln_pt_banten, 0)
(2 missing values generated)

132 .
133 . gen d_ln_pt_banten_neg = cond(d_ln_pt_banten < 0, d_ln_pt_banten, 0)

134 . * REGRESI MODEL HOUCK

135 .
136 . * 1 MODEL TERHADAP PRODUSEN

137 .
138 . reg ln_pp_banten d_ln_pb_banten_pos d_ln_pb_banten_neg d_ln_pt_banten_pos d_ln_pt_banten_neg

```

Source	SS	df	MS	Number of obs	=	1,274
Model	.034149688	4	.008537422	F(4, 1269)	=	1.46
Residual	7.4210742	1,269	.00584797	Prob > F	=	0.2121
				R-squared	=	0.0046
				Adj R-squared	=	0.0014
Total	7.45522389	1,273	.005856421	Root MSE	=	.07647

ln_pp_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_pb_banten_pos	.9864738	.5091874	1.94	0.053	-.0124678	1.985415
d_ln_pb_banten_neg	-.7264399	.6144036	-1.18	0.237	-1.931798	.4789186
d_ln_pt_banten_pos	.0475342	.2949106	0.16	0.872	-.5310318	.6261001
d_ln_pt_banten_neg	-.1518779	.3679501	-0.41	0.680	-.8737353	.5699794
_cons	11.71612	.0021902	5349.38	0.000	11.71182	11.72042

139 .

140 . * Uji Asimetri dengan Wald

141 .

142 . test d_ln_pb_banten_pos = d_ln_pb_banten_neg

(1) d_ln_pb_banten_pos - d_ln_pb_banten_neg = 0

F(1, 1269) = 4.55
 Prob > F = 0.0331

143 .

144 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_banten yaitu 0,3985 > 0,05, maka ped
 > agang besar tidak memiliki asimetri harga terhadap pasar produsen

145 .

146 . test d_ln_pt_banten_pos = d_ln_pt_banten_neg

(1) d_ln_pt_banten_pos - d_ln_pt_banten_neg = 0

F(1, 1269) = 0.17
 Prob > F = 0.6776

147 .

148 . * Berdasarkan uji wald diketahui bahwa nilai statistik pt_banten yaitu 0,2022 > 0,05, maka ped
 > agang besar tidak memiliki asimetri harga terhadap pasar produsen dan tidak ada efek perubahan
 > positif dan negatif terhadap Produsen

149 .

150 . * _____

151 .

152 . * MODEL TERHADAP PEDAGANG BESAR

153 .

154 . reg ln_pb_banten d_ln_pp_banten_pos d_ln_pp_banten_neg d_ln_pt_banten_pos d_ln_pt_banten_neg

Source	SS	df	MS	Number of obs	=	1,274
Model	.064656678	4	.01616417	F(4, 1269)	=	1.96
Residual	10.449893	1,269	.008234746	Prob > F	=	0.0979
				R-squared	=	0.0061
				Adj R-squared	=	0.0030
Total	10.5145497	1,273	.008259662	Root MSE	=	.09075

ln_pb_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_pp_banten_pos	-.3157371	.4254473	-0.74	0.458	-1.150395	.5189204
d_ln_pp_banten_neg	-.3932698	.5583549	-0.70	0.481	-1.48867	.7021305
d_ln_pt_banten_pos	-.8367227	.3487519	-2.40	0.017	-1.520916	-.1525289
d_ln_pt_banten_neg	.3945394	.4303394	0.92	0.359	-.4497155	1.238794
_cons	11.77243	.0026164	4499.55	0.000	11.7673	11.77756

```

155 .
156 . test d_ln_pp_banten_pos = d_ln_pp_banten_neg

      ( 1)  d_ln_pp_banten_pos - d_ln_pp_banten_neg = 0

            F( 1, 1269) =    0.01
            Prob > F =    0.9125

157 .
158 . * Berdasarkan uji wald diketahui bahwa nilai statistik pp_banten yaitu 0,4354 > 0,05, maka Pro
> ar Tradisional tidak memiliki asimetri harga terhadap Pedagang Besar

159 .
160 . test d_ln_pt_banten_pos = d_ln_pt_banten_neg

      ( 1)  d_ln_pt_banten_pos - d_ln_pt_banten_neg = 0

            F( 1, 1269) =    4.85
            Prob > F =    0.0278

161 .
162 . * Berdasarkan uji wald diketahui bahwa nilai statistik pt_banten yaitu 0,1423 > 0,05, maka Pas
> ar Tradisional tidak memiliki asimetri harga terhadap pasar pedagang besar dan tidak ada efek
> perubahan positif dan negatif

163 .
164 . * _____

165 .
166 . * MODEL TERHADAP PASAR TRADISIONAL

167 .
168 . reg ln_pt_banten d_ln_pp_banten_pos d_ln_pp_banten_neg d_ln_pb_banten_pos d_ln_pb_banten_neg

```

Source	SS	df	MS	Number of obs	=	1,274
Model	.061410617	4	.015352654	F(4, 1269)	=	4.14
Residual	4.70618598	1,269	.003708578	Prob > F	=	0.0025
				R-squared	=	0.0129
				Adj R-squared	=	0.0098
Total	4.7675966	1,273	.003745166	Root MSE	=	.0609

ln_pt_banten	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_pp_banten_pos	-.0248387	.2850519	-0.09	0.931	-.5840635	.534386
d_ln_pp_banten_neg	-.1137888	.3746512	-0.30	0.761	-.8487927	.6212152
d_ln_pb_banten_pos	1.554217	.3982485	3.90	0.000	.7729194	2.335515
d_ln_pb_banten_neg	-.5555347	.4886216	-1.14	0.256	-1.51413	.4030603
_cons	11.81142	.0017332	6814.68	0.000	11.80802	11.81482

```

169 .
170 . test d_ln_pp_banten_pos = d_ln_pp_banten_neg

      ( 1)  d_ln_pp_banten_pos - d_ln_pp_banten_neg = 0

            F( 1, 1269) =    0.04
            Prob > F =    0.8509

171 .
172 . test d_ln_pb_banten_pos = d_ln_pb_banten_neg

      ( 1)  d_ln_pb_banten_pos - d_ln_pb_banten_neg = 0

            F( 1, 1269) =   11.14
            Prob > F =    0.0009

```

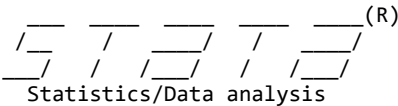
```
173 .
174 . * Berdasarkan uji wald diketahui bahwa nilai statistik pp_banten yaitu 0,6096 > 0,05, maka Pro
    > dusen tidak memiliki asimetri harga terhadap pasar tradisional dan tidak ada efek perubahan po
    > stif dan negatif

175 .
176 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_banten yaitu 0,0024 < 0,05, maka Pas
    > ar Tradisional memiliki asimetri harga terhadap pasar tradisional dalam ada efek perubahan pos
    > tif dan negatif

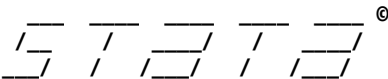
177 .
178 . * _____

179 .
180 . * SELESAI

181 .
```



User: Uji ECM Stata Provinsi Jawa Barat
Project: Uji ECM Stata Provinsi Jawa Barat



17.0
MP-Parallel Edition

Statistics and Data Science

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- Notes:
- 1. Unicode is supported; see [help unicode advice](#).
 - 2. More than 2 billion observations are allowed; see [help obs advice](#).
 - 3. Maximum number of variables is set to 5,000; see [help set maxvar](#).
 - 4. New update available; type [-update all-](#)

```
1 . * Olah Data ECM menggunakan Software StataMP-17 pendekatan Retizi dan Panagopoulos (2008)
2 .
3 . * Kelompok Komoditas Daging Sapi di Indonesia
4 .
5 . * Provinsi Jawa Barat
6 .
7 . * Oleh Fajar Andriansyah; Asifa; Luluk Isnaini
8 .
9 . * Start 23 Desember 2024
10 . edit
11 . use "C:\Users\hp\Downloads\Jawa Barat.dta"
12 . describe
```

Contains data from C:\Users\hp\Downloads\Jawa Barat.dta
Observations: 1,276
Variables: 9 20 Dec 2024 20:02

Variable name	Storage type	Display format	Value label	Variable label
periode	int	%8.0g		Periode
p_jabar	long	%8.0g		P_Jabar
pb_jabar	long	%8.0g		PB_Jabar
t_jabar	long	%8.0g		T_Jabar
ln_p_jabar	float	%9.0g		
ln_pb_jabar	float	%9.0g		
ln_t_jabar	float	%9.0g		
ecm_resid	float	%9.0g		Residuals
lag_ecm_res	float	%9.0g		

Sorted by: periode

13 . * Data yang digunakan yaitu dengan persamaan data Logaritma Natural (LN)

14 .

15 . * Model percobaan 1

16 .

17 . * _____

18 .

19 . * Uji Stasioneritas Data

20 .

21 .

22 . foreach var in d.ln_p_jabar d.ln_pb_jabar d.ln_t_jabar {

2.

23 . dfuller `var'

3.

24 . }

Dickey-Fuller test for unit root

Number of obs = **1,274**

Variable: **D.ln_p_jabar**

Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-39.516	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.0000**.

Dickey-Fuller test for unit root

Number of obs = **1,274**

Variable: **D.ln_pb_jabar**

Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-35.716	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.0000**.

Dickey-Fuller test for unit root

Number of obs = **1,274**

Variable: **D.ln_t_jabar**

Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-31.275	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.0000**.

25 .
 26 . * Berdasarkan uji stasioneritas data berdasarkan ADF, diketahui bahwa data tidak stasioner pada tingkat level dan
 > st Difference

27 . var ln_p_jabar ln_pb_jabar ln_t_jabar

Vector autoregression

Sample: 3 thru 1276
 Log likelihood = 14856.87
 FPE = 1.54e-14
 Det(Sigma_ml) = 1.49e-14
 Number of obs = 1,274
 AIC = -23.29021
 HQIC = -23.25833
 SBIC = -23.20533

Equation	Parms	RMSE	R-sq	chi2	P>chi2
ln_p_jabar	7	.006202	0.9935	194902.4	0.0000
ln_pb_jabar	7	.004249	0.9944	227279.2	0.0000
ln_t_jabar	7	.004731	0.9927	173910	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
ln_p_jabar						
ln_p_jabar						
L1.	.8653216	.0279705	30.94	0.000	.8105005	.9201427
L2.	.0943771	.0275444	3.43	0.001	.0403912	.1483631
ln_pb_jabar						
L1.	-.033509	.0396118	-0.85	0.398	-.1111466	.0441286
L2.	.0435883	.0376845	1.16	0.247	-.0302719	.1174485
ln_t_jabar						
L1.	.0410464	.0367004	1.12	0.263	-.0308851	.1129779
L2.	.0023883	.0388507	0.06	0.951	-.0737578	.0785343
_cons	-.1623555	.0442258	-3.67	0.000	-.2490364	-.0756745
ln_pb_jabar						
ln_p_jabar						
L1.	-.024185	.0191612	-1.26	0.207	-.0617404	.0133703
L2.	.0120406	.0188693	0.64	0.523	-.0249426	.0490239
ln_pb_jabar						
L1.	.8343206	.0271361	30.75	0.000	.7811348	.8875065
L2.	.0896263	.0258158	3.47	0.001	.0390282	.1402244
ln_t_jabar						
L1.	.3950329	.0251417	15.71	0.000	.345756	.4443097
L2.	-.3011261	.0266148	-11.31	0.000	-.3532902	-.2489621
_cons	-.075876	.030297	-2.50	0.012	-.135257	-.016495
ln_t_jabar						
ln_p_jabar						
L1.	-.0312711	.0213356	-1.47	0.143	-.0730881	.0105459
L2.	.0404571	.0210106	1.93	0.054	-.0007228	.0816371
ln_pb_jabar						
L1.	-.1557905	.0302155	-5.16	0.000	-.2150117	-.0965693
L2.	.1415052	.0287453	4.92	0.000	.0851654	.1978451
ln_t_jabar						
L1.	1.15179	.0279947	41.14	0.000	1.096922	1.206659
L2.	-.1538942	.0296349	-5.19	0.000	-.2119776	-.0958107

_cons	.0858101	.033735	2.54	0.011	.0196907	.1519294
-------	----------	---------	------	-------	----------	----------

28 .
29 . varsoc

Lag-order selection criteria

Sample: 3 thru 1276 Number of obs = 1,274

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	8260.27				4.7e-10	-12.9627	-12.9582	-12.9506
1	14773.2	13026	9	0.000	1.7e-14	-23.173	-23.1547	-23.1245
2	14856.9	167.38*	9	0.000	1.5e-14*	-23.2902*	-23.2583*	-23.2053*

* optimal lag
Endogenous: ln_p_jabar ln_pb_jabar ln_t_jabar
Exogenous: _cons

30 . vecrank ln_p_jabar ln_pb_jabar ln_t_jabar, trend(constant)

Johansen tests for cointegration

Trend: Constant Number of obs = 1,274
Sample: 3 thru 1276 Number of lags = 2

Maximum rank	Params	LL	Eigenvalue	Trace statistic	Critical value 5%
0	12	14786.361	.	141.0107	29.68
1	17	14838.293	0.07829	37.1481	15.41
2	20	14855.405	0.02651	2.9237*	3.76
3	21	14856.867	0.00229		

* selected rank

31 . * Berdasarkan uji pendekatan VAR dan VARSOC diketahui bahwa lag optimum pada model yang digunakan berdasarkan nilai
> an nilai terkecil berada pada nilai lags 2

32 .

33 . * Berdasarkan uji kointegrasi dari model persamaan yang digunakan pada lags(2) dan tidak memiliki trend, diketahui
> ni memiliki kointegrasi atau hubungan dalam jangka panjang dalam H2 (Rank 2)

34 .

35 . * Berdasarkan data yang stasioner pada tingkat 1st Difference dan memiliki hubungan kointegrasi maka model sudah s
> ndekatan ECM

36 .

37 . *

38 . * Model VECM

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
D_ln_p_jabar						
_ce1 L1.	-.0395195	.0064293	-6.15	0.000	-.0521207	-.0269182
_ce2 L1.	.010388	.0131601	0.79	0.430	-.0154053	.0361813
ln_p_jabar LD.	-.0947701	.0276095	-3.43	0.001	-.1488837	-.0406565
ln_pb_jabar LD.	-.0439514	.0377777	-1.16	0.245	-.1179943	.0300915
ln_t_jabar LD.	-.0020755	.0389479	-0.05	0.958	-.0784119	.074261
_cons	.0000395	.0001749	0.23	0.821	-.0003034	.0003824
D_ln_pb_jabar						
_ce1 L1.	-.0121609	.0044035	-2.76	0.006	-.0207917	-.0035302
_ce2 L1.	-.0760596	.0090135	-8.44	0.000	-.0937258	-.0583934
ln_p_jabar LD.	-.0120323	.0189102	-0.64	0.525	-.0490956	.0250309
ln_pb_jabar LD.	-.0896186	.0258745	-3.46	0.001	-.1403318	-.0389055
ln_t_jabar LD.	.3011195	.026676	11.29	0.000	.2488355	.3534035
_cons	-.0000178	.0001198	-0.15	0.882	-.0002526	.0002171
D_ln_t_jabar						
_ce1 L1.	.0104967	.004908	2.14	0.032	.0008772	.0201162
_ce2 L1.	-.0137677	.0100461	-1.37	0.171	-.0334577	.0059222
ln_p_jabar LD.	-.0411159	.0210764	-1.95	0.051	-.082425	.0001931

ln_pb_jabar						
LD.	-.1421139	.0288386	-4.93	0.000	-.1986364	-.0855913
ln_t_jabar						
LD.	.1544185	.0297319	5.19	0.000	.0961451	.212692
_cons	.000128	.0001335	0.96	0.338	-.0001337	.0003898

Cointegrating equations

Equation	Parms	chi2	P>chi2
_ce1	1	401.3763	0.0000
_ce2	1	1143.242	0.0000

Identification: beta is exactly identified

Johansen normalization restrictions imposed

beta	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
_ce1						
	ln_p_jabar	1	.	.	.	.
	ln_pb_jabar	0 (omitted)	.	.	.	.
	ln_t_jabar	-1.387558	.0692589	-20.03	0.000	-1.523303 -1.251813
	_cons	4.757184	.	.	.	.
_ce2						
	ln_p_jabar	-2.78e-17	.	.	.	.
	ln_pb_jabar	1	.	.	.	.
	ln_t_jabar	-1.01255	.0299466	-33.81	0.000	-1.071244 -.9538554
	_cons	.2302917	.	.	.	.

40 . * _____

41 . * Uji Kausalitas

42 . var ln_p_jabar ln_pb_jabar ln_t_jabar, lags(2)

Vector autoregression

Sample: 3 thru 1276	Number of obs	=	1,274
Log likelihood = 13537.23	AIC	=	-21.2327
FPE = 1.21e-13	HQIC	=	-21.21449
Det(Sigma_ml) = 1.18e-13	SBIC	=	-21.1842

Equation	Parms	RMSE	R-sq	chi2	P>chi2
ln_p_jabar	4	.008225	0.9886	110008.3	0.0000
ln_pb_jabar	4	.006164	0.9882	107050.9	0.0000
ln_t_jabar	4	.007218	0.9830	73808.49	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
ln_p_jabar						
ln_p_jabar L2.	.9260396	.0084367	109.76	0.000	.9095041	.9425752
ln_pb_jabar L2.	.0236061	.0165176	1.43	0.153	-.0087679	.05598
ln_t_jabar L2.	.0741136	.0178376	4.15	0.000	.0391524	.1090747
_cons	-.2917542	.0579393	-5.04	0.000	-.405313	-.1781953
ln_pb_jabar						
ln_p_jabar L2.	-.0185037	.0063229	-2.93	0.003	-.0308962	-.0061111
ln_pb_jabar L2.	.8222506	.0123791	66.42	0.000	.797988	.8465133
ln_t_jabar L2.	.203777	.0133684	15.24	0.000	.1775754	.2299787
_cons	-.1067064	.0434226	-2.46	0.014	-.1918132	-.0215996
ln_t_jabar						
ln_p_jabar L2.	.0254346	.0074036	3.44	0.001	.0109238	.0399453
ln_pb_jabar L2.	-.0312391	.0144951	-2.16	0.031	-.0596488	-.0028293
ln_t_jabar L2.	.9878774	.0156535	63.11	0.000	.9571972	1.018558
_cons	.2142991	.0508447	4.21	0.000	.1146453	.3139528

43 . vargranger

Granger causality Wald tests

Equation	Excluded	chi2	df	Prob > chi2
ln_p_jabar	ln_pb_jabar	2.0425	1	0.153
ln_p_jabar	ln_t_jabar	17.263	1	0.000
ln_p_jabar	ALL	70.171	2	0.000
ln_pb_jabar	ln_p_jabar	8.5643	1	0.003
ln_pb_jabar	ln_t_jabar	232.35	1	0.000
ln_pb_jabar	ALL	242.9	2	0.000
ln_t_jabar	ln_p_jabar	11.802	1	0.001
ln_t_jabar	ln_pb_jabar	4.6447	1	0.031
ln_t_jabar	ALL	13.661	2	0.001

44 . * Berdasarkan uji hubungan kausalitas dengan data VAR Difference, diketahui bahwa " PB Jabar - P Jabar / T Jabar +
> Jabar/ T Jabar + PB Jabar / P Jabar + T Jabar / PB Jabar + T Jabar"

45 . * _____

46 .

47 . * Uji Model ECM

48 . regress d.ln_p_jabar d.ln_pb_jabar d.ln_t_jabar lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000441958	3	.000147319	F(3, 1269)	=	3.72
Residual	.050314881	1,269	.000039649	Prob > F	=	0.0112
				R-squared	=	0.0087
				Adj R-squared	=	0.0064
Total	.050756839	1,272	.000039903	Root MSE	=	.0063

D.ln_p_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jabar D1.	-.0563537	.0376766	-1.50	0.135	-.130269	.0175615
ln_t_jabar D1.	.0621665	.0371193	1.67	0.094	-.0106554	.1349884
lag_ecm_res _cons	-.0575551	.0214927	-2.68	0.008	-.0997202	-.0153901
	.0001411	.0001765	0.80	0.424	-.0002052	.0004875

49 .

50 . regress d.ln_pb_jabar d.ln_p_jabar d.ln_t_jabar lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.001004884	3	.000334961	F(3, 1269)	=	15.25
Residual	.027882185	1,269	.000021972	Prob > F	=	0.0000
				R-squared	=	0.0348
				Adj R-squared	=	0.0325
Total	.028887069	1,272	.000022271	Root MSE	=	.00469

D. ln_pb_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jabar D1.	-.0312286	.0208786	-1.50	0.135	-.072189	.0097318
ln_t_jabar D1.	.1792891	.027201	6.59	0.000	.1259253	.2326529
lag_ecm_res _cons	-.0171197	.0160374	-1.07	0.286	-.0485825	.014343
	.0000831	.0001314	0.63	0.527	-.0001748	.0003409

```
51 .
52 . regress d.ln_t_jabar d.ln_pb_jabar d.ln_p_jabar lag_ecm_res
```

Source	SS	df	MS	Number of obs	=	1,273
Model	.001035364	3	.000345121	F(3, 1269)	=	15.25
Residual	.028712914	1,269	.000022626	Prob > F	=	0.0000
				R-squared	=	0.0348
				Adj R-squared	=	0.0325
Total	.029748278	1,272	.000023387	Root MSE	=	.00476

D.ln_t_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jabar D1.	.1846309	.0280114	6.59	0.000	.1296772	.2395847
ln_p_jabar D1.	.0354762	.0211826	1.67	0.094	-.0060807	.0770331
lag_ecm_res _cons	.0119804	.0162784	0.74	0.462	-.0199551	.043916
	.0000782	.0001334	0.59	0.558	-.0001834	.0003399

```
53 . bgodfrey
```

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	11.068	1	0.0009

H0: no serial correlation

```
54 .
55 . estat hettest
```

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity
Assumption: Normal error terms
Variable: Fitted values of D.ln_t_jabar

H0: Constant variance

chi2(1) = 215.42
Prob > chi2 = 0.0000

```
56 . * Hasil Uji ECM
```

```
57 .
```

```
58 . *
```

```
59 . * Model Persamaan regresi Lain
```

```
60 .
```

61 . regress ln_p_jabar ln_pb_jabar ln_t_jabar lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	6.61423915	3	2.20474638	F(3, 1269)	=	3209.46
Residual	.871742681	1,269	.000686952	Prob > F	=	0.0000
				R-squared	=	0.8835
				Adj R-squared	=	0.8833
Total	7.48598183	1,272	.005885206	Root MSE	=	.02621

ln_p_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jabar	.5084586	.0512549	9.92	0.000	.407905	.6090122
ln_t_jabar	.7848804	.0525855	14.93	0.000	.6817163	.8880445
lag_ecm_res	.9338722	.0896044	10.42	0.000	.7580832	1.109661
_cons	-3.602388	.1574174	-22.88	0.000	-3.911215	-3.293561

62 .

63 . regress ln_pb_jabar ln_p_jabar ln_t_jabar lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	3.85265125	3	1.28421708	F(3, 1269)	=	6715.54
Residual	.24267166	1,269	.000191231	Prob > F	=	0.0000
				R-squared	=	0.9407
				Adj R-squared	=	0.9406
Total	4.09532291	1,272	.003219593	Root MSE	=	.01383

ln_pb_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jabar	.1415423	.0142681	9.92	0.000	.1135507	.169534
ln_t_jabar	.8101297	.0196907	41.14	0.000	.7714998	.8487597
lag_ecm_res	-.2348968	.0488149	-4.81	0.000	-.3306636	-.1391301
_cons	.5140981	.097656	5.26	0.000	.3225132	.705683

64 .

65 . regress ln_t_jabar ln_pb_jabar ln_p_jabar lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	3.67929983	3	1.22643328	F(3, 1269)	=	7364.68
Residual	.211325331	1,269	.000166529	Prob > F	=	0.0000
				R-squared	=	0.9457
				Adj R-squared	=	0.9456
Total	3.89062516	1,272	.003058668	Root MSE	=	.0129

ln_t_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jabar	.7054838	.0171472	41.14	0.000	.6718438	.7391239
ln_p_jabar	.1902684	.0127476	14.93	0.000	.1652597	.2152772
lag_ecm_res	-.0861008	.0459033	-1.88	0.061	-.1761555	.0039539
_cons	1.325269	.0842743	15.73	0.000	1.159937	1.490601

66 .
 67 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	1058.303	1	0.0000

H0: no serial correlation

68 .
 69 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity

Assumption: Normal error terms

Variable: Fitted values of **ln_t_jabar**

H0: Constant variance

chi2(1) = **112.29**
 Prob > chi2 = **0.0000**

70 . *

71 . summarize ln_p_jabar ln_pb_jabar ln_t_jabar

Variable	Obs	Mean	Std. dev.	Min	Max
ln_p_jabar	1,276	11.67664	.0769013	11.53371	11.80298
ln_pb_jabar	1,276	11.76368	.0568375	11.66822	11.89512
ln_t_jabar	1,276	11.84604	.055412	11.73447	11.98293

72 .
 73 . summarize d.ln_p_jabar d.ln_pb_jabar d.ln_t_jabar

Variable	Obs	Mean	Std. dev.	Min	Max
ln_p_jabar D1.	1,275	.0001417	.0063119	-.0790901	.0561199
ln_pb_jabar D1.	1,275	.0001013	.0047646	-.0446529	.1055222
ln_t_jabar D1.	1,275	.0000991	.0048327	-.0338888	.0787601

74 .
 75 . summarize p_jabar pb_jabar t_jabar

Variable	Obs	Mean	Std. dev.	Min	Max
p_jabar	1,276	118131.7	8908.182	102100	133650
pb_jabar	1,276	128705.2	7238.249	116800	146550
t_jabar	1,276	139743.1	7613.425	124800	160000

```
76 .
77 . summarize d.p_jabar d.pb_jabar d.t_jabar
```

Variable	Obs	Mean	Std. dev.	Min	Max
p_jabar D1.	1,275	16	740.3393	-8650	7150
pb_jabar D1.	1,275	12.66667	635.3363	-6400	13750
t_jabar D1.	1,275	13.4902	692.8131	-4950	11550

```
78 . *
```

```
79 . * PERSAMAAN ASIMETRI HARGA
```

```
80 . gen d_ln_p_jabar = ln_p_jabar - ln_p_jabar[_n-1]
      (1 missing value generated)
```

```
81 .
```

```
82 . gen d_ln_p_jabar_pos = cond(d_ln_p_jabar > 0, d_ln_p_jabar, 0)
      (1 missing value generated)
```

```
83 .
```

```
84 . gen d_ln_p_jabar_neg = cond(d_ln_p_jabar < 0, d_ln_p_jabar, 0)
```

```
85 . gen d_ln_pb_jabar = ln_pb_jabar - ln_pb_jabar[_n-1]
      (1 missing value generated)
```

```
86 .
```

```
87 . gen d_ln_pb_jabar_pos = cond(d_ln_pb_jabar > 0, d_ln_pb_jabar, 0)
      (1 missing value generated)
```

```
88 .
```

```
89 . gen d_ln_pb_jabar_neg = cond(d_ln_pb_jabar < 0, d_ln_pb_jabar, 0)
```

```
90 . gen d_ln_t_jabar = ln_t_jabar - ln_t_jabar[_n-1]
      (1 missing value generated)
```

```
91 .
```

```
92 . gen d_ln_t_jabar_pos = cond(d_ln_t_jabar > 0, d_ln_t_jabar, 0)
      (1 missing value generated)
```

```
93 .
```

```
94 . gen d_ln_t_jabar_neg = cond(d_ln_t_jabar < 0, d_ln_t_jabar, 0)
```

```
95 . * REGRESI MODEL HOUCK
```

```
96 . * 1 MODEL TERHADAP PRODUSEN
```

```
97 . reg ln_p_jabar d_ln_pb_pos d_ln_pb_neg d_ln_t_pos d_ln_t_neg
      variable d_ln_pb_pos not found
      r(111);
```

```
98 . reg ln_p_jabar d_ln_pb_jabar_pos d_ln_pb_jabar_neg d_ln_t_jabar_pos d_ln_t_jabar_neg
```

Source	SS	df	MS	Number of obs	=	1,275
Model	.023940885	4	.005985221	F(4, 1270)	=	1.01
Residual	7.49814933	1,270	.005904055	Prob > F	=	0.3991
				R-squared	=	0.0032
				Adj R-squared	=	0.0000
Total	7.52209022	1,274	.005904309	Root MSE	=	.07684

ln_p_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_pb_jabar_pos	-.0399209	.5533868	-0.07	0.943	-1.125574	1.045732
d_ln_pb_jabar_neg	-.912064	.8673834	-1.05	0.293	-2.613726	.7895979
d_ln_t_jabar_pos	-.8802519	.5665789	-1.55	0.121	-1.991786	.2312817
d_ln_t_jabar_neg	.4041523	.8095021	0.50	0.618	-1.183956	1.992261
_cons	11.67727	.002253	5183.08	0.000	11.67285	11.68169

```
99 . * Uji Asimetri dengan Wald
```

```
100 . test d_ln_pb_jabar_pos = d_ln_pb_jabar_neg
```

```
( 1) d_ln_pb_jabar_pos - d_ln_pb_jabar_neg = 0
```

```
F( 1, 1270) = 0.71
Prob > F = 0.3985
```

```
101 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_Jabar yaitu 0,3985 > 0,05, maka pedagang besar tidak mem
> hadap pasar produsen
```

```
102 . test d_ln_t_jabar_pos = d_lnt_jabar_neg
```

```
d_lnt_jabar_neg not found
r(111);
```

```
103 . test d_ln_t_jabar_pos = d_ln_t_jabar_neg
```

```
( 1) d_ln_t_jabar_pos - d_ln_t_jabar_neg = 0
```

```
F( 1, 1270) = 1.63
Prob > F = 0.2022
```

```
104 .
```

```
105 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_Jabar yaitu 0,2022 > 0,05, maka pedagang besar tidak memi
> adap pasar produsen dan tidak ada efek perubahan positif dan negatif terhadap Produsen
```

```
106 . * _____
```

```
107 . * MODEL TERHADAP PEDAGANG BESAR
```

```
108 . reg ln_pB_jabar d_ln_p_jabar_pos d_ln_p_jabar_neg d_ln_t_jabar_pos d_ln_t_jabar_neg
```

```
variable ln_pB_jabar not found
r(111);
```

```
109 . reg ln_pb_jabar d_ln_p_jabar_pos d_ln_p_jabar_neg d_ln_t_jabar_pos d_ln_t_jabar_neg
variable ln_pb_jabar not found
r(111);
```

```
110 . reg ln_pb_jabar d_ln_p_jabar_pos d_ln_p_jabar_neg d_ln_t_jabar_pos d_ln_t_jabar_neg
```

Source	SS	df	MS	Number of obs	=	1,275
Model	.020763993	4	.005190998	F(4, 1270)	=	1.61
Residual	4.08957531	1,270	.003220138	Prob > F	=	0.1688
				R-squared	=	0.0051
				Adj R-squared	=	0.0019
Total	4.1103393	1,274	.003226326	Root MSE	=	.05675

ln_pb_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_p_jabar_pos	-.1708955	.3485862	-0.49	0.624	-.8547636	.5129726
d_ln_p_jabar_neg	.230096	.3727148	0.62	0.537	-.5011083	.9613004
d_ln_t_jabar_pos	-.2850066	.4052482	-0.70	0.482	-1.080036	.510023
d_ln_t_jabar_neg	-1.364819	.5982208	-2.28	0.023	-2.538428	-.1912088
_cons	11.7634	.0016687	7049.34	0.000	11.76012	11.76667

```
111 . test d_ln_p_jabar_pos = d_ln_p_jabar_neg
```

```
( 1) d_ln_p_jabar_pos - d_ln_p_jabar_neg = 0
```

```
F( 1, 1270) = 0.61
Prob > F = 0.4354
```

```
112 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_Jabar yaitu 0,4354 > 0,05, maka Produsen tidak memiliki a
> edagang Besar
```

```
113 . test d_ln_t_jabar_pos = d_ln_t_jabar_neg
```

```
( 1) d_ln_t_jabar_pos - d_ln_t_jabar_neg = 0
```

```
F( 1, 1270) = 2.16
Prob > F = 0.1423
```

```
114 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_Jabar yaitu 0,1423 > 0,05, maka Pasar Tradisional tidak m
> erhadap pasar pedagang besar dan tidak ada efek perubahan positif dan negatif
```

```
115 . *
```

```
116 .
```

```
117 . * MODEL TERHADAP PASAR TRADISIONAL
```

```
118 . reg ln_t_jabar d_ln_p_jabar_pos d_ln_p_jabar_neg d_ln_pb_jabar_pos d_ln_pb_jabar_neg
```

Source	SS	df	MS	Number of obs	=	1,275
Model	.040000918	4	.010000229	F(4, 1270)	=	3.28
Residual	3.86694023	1,270	.003044835	Prob > F	=	0.0109
				R-squared	=	0.0102
				Adj R-squared	=	0.0071
Total	3.90694115	1,274	.003066673	Root MSE	=	.05518

ln_t_jabar	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_p_jabar_pos	.0024557	.3374567	0.01	0.994	-.6595781	.6644896
d_ln_p_jabar_neg	.2573533	.3624589	0.71	0.478	-.4537307	.9684374
d_ln_pb_jabar_pos	1.225998	.3834794	3.20	0.001	.4736751	1.978321
d_ln_pb_jabar_neg	-1.008977	.6229169	-1.62	0.106	-2.231036	.2130828
_cons	11.8454	.0015914	7443.37	0.000	11.84228	11.84852

119 . test d_ln_p_jabar_pos = d_ln_p_jabar_neg

(1) d_ln_p_jabar_pos - d_ln_p_jabar_neg = 0

F(1, 1270) = 0.26
Prob > F = 0.6096

120 . test d_ln_pb_jabar_pos = d_ln_pn_jabar_neg

d_ln_pn_jabar_neg not found

r(111);

121 . test d_ln_pb_jabar_pos = d_ln_pb_jabar_neg

(1) d_ln_pb_jabar_pos - d_ln_pb_jabar_neg = 0

F(1, 1270) = 9.23
Prob > F = 0.0024

122 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_Jabar yaitu 0,6096 > 0,05, maka Produsen tidak memiliki a
> asar tradisional dan tidak ada efek perubahan positif dan negatif

123 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_Jabar yaitu 0,0024 < 0,05, maka Pasar Tradisional memili
> ap pasar tradisional dalam ada efek perubahan positif dan negatif

124 . *

125 . * SELESAI

126 . save "C:\Users\hp\Downloads\HASIL JAWA BARAT.dta"
file C:\Users\hp\Downloads\HASIL JAWA BARAT.dta saved

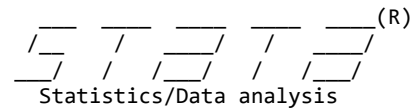
127 . * Alhamdulillah Jawa Barat sudah selesai

128 .

129 . save "C:\Users\hp\Downloads\HASIL JAWA BARAT.dta", replace
file C:\Users\hp\Downloads\HASIL JAWA BARAT.dta saved

130 . putexcel set "C:\Users\hp\Downloads\Result Jawa Barat.xlsx"

131 .



User: Uji ECM Stata Provinsi Jawa Tengah
Project: Uji ECM Stata Provinsi Jawa Tengah



17.0
MP-Parallel Edition

Statistics and Data Science

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Notes:

1. Unicode is supported; see [help unicode advice](#).
2. More than 2 billion observations are allowed; see [help obs advice](#).
3. Maximum number of variables is set to 5,000; see [help set maxvar](#).
4. New update available; type [-update all-](#)

```
1 . * Olah Data ECM menggunakan Software StataMP-17 pendekatan Retizi dan Panagopoulos (2008)
2 .
3 . * Kelompok Komoditas Daging Sapi di Indonesia
4 .
5 . * Provinsi Jawa Tengah
6 .
7 . * Oleh Fajar Andriansyah; Asifa; Luluk Isnaini
8 .
9 . * Start 23 Desember 2024
10 . edit
11 . *(2 variables, 1276 observations pasted into data editor)
12 . *(3 variables, 1276 observations pasted into data editor)
13 . drop tanggal
14 . tsset periode
    Time variable: periode, 1 to 1276
    Delta: 1 unit
15 . gen ln_p_jateng = ln(p_jateng)
16 .
```

```

17 . gen ln_pb_jateng = ln(pb_jateng)
18 .
19 . gen ln_t_jateng = ln(t_jateng)
20 . * Data yang digunakan yaitu dengan persamaan data Logaritma Natural (LN)
21 .
22 . * Model percobaan 1
23 .
24 . * _____
25 . * Uji Stasioneritas Data
26 .
27 . foreach var in ln_p_jateng ln_pb_jateng ln_t_jateng {
28 .     2. dfuller `var'
29 .     3.
30 . }

```

Dickey-Fuller test for unit root Number of obs = **1,275**
 Variable: **ln_p_jateng** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-1.575	-3.430	-2.860	-2.570

MacKinnon approximate p -value for Z(t) = **0.4961**.

Dickey-Fuller test for unit root Number of obs = **1,275**
 Variable: **ln_pb_jateng** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-1.892	-3.430	-2.860	-2.570

MacKinnon approximate p -value for Z(t) = **0.3361**.

Dickey-Fuller test for unit root Number of obs = **1,275**
 Variable: **ln_t_jateng** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-2.096	-3.430	-2.860	-2.570

MacKinnon approximate p -value for Z(t) = **0.2460**.

```

30 . foreach var in d.ln_p_jateng d.ln_pb_jateng d.ln_t_jateng {
31 .     2. dfuller `var'
32 .     3.
32 . }

```

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **D.ln_p_jateng** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-35.726	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0000**.

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **D.ln_pb_jateng** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-40.999	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0000**.

Dickey-Fuller test for unit root Number of obs = **1,274**
Variable: **D.ln_t_jateng** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-35.532	-3.430	-2.860	-2.570

MacKinnon approximate *p*-value for Z(t) = **0.0000**.

```

33 . * Berdasarkan uji stasioneritas data berdasarkan ADF, diketahui bahwa data tidak stasioner pada tingkat level dan
34 . > st Difference
35 .

```

Vector autoregression

Sample: 3 thru 1276	Number of obs	=	1,274
Log likelihood = 15006.92	AIC	=	-23.52577
FPE = 1.22e-14	HQIC	=	-23.49389
Det(Sigma_ml) = 1.18e-14	SBIC	=	-23.44089

Equation	Parms	RMSE	R-sq	chi2	P>chi2
ln_p_jateng	7	.003189	0.9951	261345.5	0.0000
ln_pb_jateng	7	.006109	0.9906	134530.8	0.0000
ln_t_jateng	7	.005653	0.9891	115238.8	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
ln_p_jateng						
ln_p_jateng						
L1.	.9742117	.0280096	34.78	0.000	.9193139	1.02911
L2.	-.0080462	.027736	-0.29	0.772	-.0624078	.0463155
ln_pb_jateng						
L1.	.0020849	.0142942	0.15	0.884	-.0259313	.030101
L2.	.0082023	.0141318	0.58	0.562	-.0194955	.0359002
ln_t_jateng						
L1.	.0071925	.0158625	0.45	0.650	-.0238975	.0382825
L2.	.0086224	.0161903	0.53	0.594	-.02311	.0403548
_cons	.0884975	.0265973	3.33	0.001	.0363677	.1406273
ln_pb_jateng						
ln_p_jateng						
L1.	.0724595	.0536536	1.35	0.177	-.0326997	.1776188
L2.	-.0642729	.0531295	-1.21	0.226	-.1684049	.0398591
ln_pb_jateng						
L1.	.8049398	.0273812	29.40	0.000	.7512737	.8586059
L2.	.1363608	.0270701	5.04	0.000	.0833045	.1894172
ln_t_jateng						
L1.	.28992	.0303853	9.54	0.000	.2303659	.3494742
L2.	-.2302942	.0310132	-7.43	0.000	-.291079	-.1695094
_cons	-.1085436	.0509483	-2.13	0.033	-.2084005	-.0086867
ln_t_jateng						
ln_p_jateng						
L1.	.056093	.0496558	1.13	0.259	-.0412306	.1534166
L2.	-.0211485	.0491708	-0.43	0.667	-.1175214	.0752245
ln_pb_jateng						
L1.	.0673587	.0253409	2.66	0.008	.0176913	.117026
L2.	-.0482533	.025053	-1.93	0.054	-.0973563	.0008498
ln_t_jateng						
L1.	.9774068	.0281213	34.76	0.000	.9222902	1.032524
L2.	-.0328943	.0287024	-1.15	0.252	-.0891499	.0233613
_cons	.0206732	.0471521	0.44	0.661	-.0717432	.1130895

36 .

37 . varsoc

Lag-order selection criteria

Sample: 3 thru 1276

Number of obs = 1,274

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	8736.67				2.2e-10	-13.7106	-13.7061	-13.6985
1	14966.7	12460	9	0.000	1.3e-14	-23.4768	-23.4586	-23.4283
2	15006.9	80.421*	9	0.000	1.2e-14*	-23.5258*	-23.4939*	-23.4409*

* optimal lag

Endogenous: ln_p_jateng ln_pb_jateng ln_t_jateng

Exogenous: _cons

38 . vecrank ln_p_jateng ln_pb_jateng ln_t_jateng, trend(constant)

Johansen tests for cointegration

Trend: Constant

Number of obs = 1,274

Sample: 3 thru 1276

Number of lags = 2

Maximum rank	Params	LL	Eigenvalue	Trace statistic	Critical value 5%
0	12	14958.928	.	95.9817	29.68
1	17	14988.221	0.04495	37.3941	15.41
2	20	15005.996	0.02752	1.8455*	3.76
3	21	15006.919	0.00145		

* selected rank

39 . * Berdasarkan uji pendekatan VAR dan VARSOC diketahui bahwa lag optimum pada model yang digunakan berdasarkan nilai an nilai terkecil berada pada nilai lags 2

40 .

41 . * Berdasarkan uji kointegrasi dari model persamaan yang digunakan pada lags(2) dan tidak memiliki trend, diketahui ni memiliki kointegrasi atau hubungan dalam jangka panjang dalam H2 (Rank 2)

42 .

43 . * Berdasarkan data yang stasioner pada tingkat 1st Difference dan memiliki hubungan kointegrasi maka model sudah s ndekatan ECM

44 .

45 . *

46 .

47 . * Model VECM

48 . vec ln_p_jateng ln_pb_jateng ln_t_jateng, trend(constant) rank(2)

Vector error-correction model

Sample: 3 thru 1276

Number of obs = 1,274

AIC = -23.5259

Log likelihood = 15006

HQIC = -23.49553

Det(Sigma_ml) = 1.18e-14

SBIC = -23.44505

Equation	Parms	RMSE	R-sq	chi2	P>chi2
D_ln_p_jateng	6	.003188	0.0250	32.57562	0.0000
D_ln_pb_jateng	6	.006107	0.1017	143.4985	0.0000
D_ln_t_jateng	6	.005654	0.0233	30.20501	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
D_ln_p_jateng						
_ce1 L1.	-.03318	.0059495	-5.58	0.000	-.0448409	-.0215192
_ce2 L1.	.0106394	.0053534	1.99	0.047	.0001469	.0211318
ln_p_jateng LD.	.0077514	.0278031	0.28	0.780	-.0467416	.0622444
ln_pb_jateng LD.	-.0083537	.0141659	-0.59	0.555	-.0361185	.019411
ln_t_jateng LD.	-.0085227	.0162308	-0.53	0.600	-.0403345	.023289
_cons	.0001283	.0000896	1.43	0.152	-.0000474	.000304
D_ln_pb_jateng						
_ce1 L1.	.0094837	.0113967	0.83	0.405	-.0128535	.0318209
_ce2 L1.	-.0580013	.0102548	-5.66	0.000	-.0781003	-.0379022
ln_p_jateng LD.	.0636887	.0532586	1.20	0.232	-.0406962	.1680737
ln_pb_jateng LD.	-.136661	.0271358	-5.04	0.000	-.1898461	-.0834758
ln_t_jateng LD.	.2304917	.0310911	7.41	0.000	.1695542	.2914292
_cons	.0000584	.0001717	0.34	0.734	-.0002782	.000395
D_ln_t_jateng						
_ce1 L1.	.0366968	.0105498	3.48	0.001	.0160195	.057374
_ce2 L1.	.0200484	.0094927	2.11	0.035	.001443	.0386539
ln_p_jateng LD.	.0203593	.0493008	0.41	0.680	-.0762685	.1169871
ln_pb_jateng LD.	.0478478	.0251193	1.90	0.057	-.001385	.0970807
ln_t_jateng LD.	.0331611	.0287807	1.15	0.249	-.0232479	.0895702
_cons	.0001009	.000159	0.63	0.526	-.0002107	.0004125

Cointegrating equations

Equation	Parms	chi2	P>chi2
_ce1	1	401.4445	0.0000
_ce2	1	611.768	0.0000

Identification: beta is exactly identified

Johansen normalization restrictions imposed

beta	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
_ce1	ln_p_jateng	1	.	.	.	.
	ln_pb_jateng	0 (omitted)	.	.	.	.
	ln_t_jateng	-.8582339	.0428344	-20.04	0.000	-.9421879 - .77428
	_cons	-1.580866	.	.	.	.
_ce2	ln_p_jateng	0 (omitted)	.	.	.	.
	ln_pb_jateng	1	.	.	.	.
	ln_t_jateng	-1.174127	.0474703	-24.73	0.000	-1.267167 -1.081087
	_cons	2.083697	.	.	.	.

49 . * _____

50 .
51 . * Uji Kausalitas

52 .
53 . var ln_p_jateng ln_pb_jateng ln_t_jateng, lags(2)

Vector autoregression

Sample: 3 thru 1276	Number of obs	=	1,274
Log likelihood = 13812.57	AIC	=	-21.66495
FPE = 7.83e-14	HQIC	=	-21.64673
Det(Sigma_ml) = 7.68e-14	SBIC	=	-21.61644

Equation	Parms	RMSE	R-sq	chi2	P>chi2
ln_p_jateng	4	.004448	0.9905	133428.1	0.0000
ln_pb_jateng	4	.008204	0.9830	73847.24	0.0000
ln_t_jateng	4	.007949	0.9783	57522.59	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
ln_p_jateng	ln_p_jateng L2.	.9343499	.0082692	112.99	0.000	.9181427 .9505572
	ln_pb_jateng L2.	.0202794	.0072876	2.78	0.005	.0059961 .0345627
	ln_t_jateng L2.	.030256	.0086881	3.48	0.000	.0132276 .0472844
	_cons	.1730374	.0368603	4.69	0.000	.1007925 .2452822
ln_pb_jateng	ln_p_jateng L2.	.0213434	.0152529	1.40	0.162	-.0085518 .0512386

ln_pb_jateng L2.	.8837627	.0134423	65.74	0.000	.8574163	.9101091
ln_t_jateng L2.	.1126836	.0160257	7.03	0.000	.0812738	.1440933
_cons	-.2114694	.0679908	-3.11	0.002	-.344729	-.0782099
ln_t_jateng ln_p_jateng L2.	.0642046	.0147795	4.34	0.000	.0352374	.0931718
ln_pb_jateng L2.	.0337027	.013025	2.59	0.010	.0081741	.0592313
ln_t_jateng L2.	.8991122	.0155282	57.90	0.000	.8686774	.929547
_cons	.0419544	.0658803	0.64	0.524	-.0871687	.1710774

54 .
55 . vargranger

Granger causality Wald tests

Equation	Excluded	chi2	df	Prob > chi2
ln_p_jateng	ln_pb_jateng	7.7437	1	0.005
ln_p_jateng	ln_t_jateng	12.128	1	0.000
ln_p_jateng	ALL	57.977	2	0.000
ln_pb_jateng	ln_p_jateng	1.958	1	0.162
ln_pb_jateng	ln_t_jateng	49.441	1	0.000
ln_pb_jateng	ALL	71.822	2	0.000
ln_t_jateng	ln_p_jateng	18.872	1	0.000
ln_t_jateng	ln_pb_jateng	6.6953	1	0.010
ln_t_jateng	ALL	38.91	2	0.000

56 . * Berdasarkan uji hubungan kausalitas dengan data Difference, diketahui bahwa " PB Jabar + P Jabar / T Jabar + P J
> r/ T Jabar + PB Jabar / P Jabar + T Jabar / PB Jabar + T Jabar"

57 .

58 . * _____

59 .

60 . * Uji Model ECM

61 . predict ecm_resid, resid
(2 missing values generated)

62 . list if missing(ecm_resid)

	periode	p_jateng	pb_jateng	t_jateng	ln_p_jeng	ln_pb_jeng	ln_t_jeng	ecm_rend
1.	1	107300	110750	116600	11.58338	11.61503	11.6665	.
2.	2	107300	111350	116600	11.58338	11.62043	11.6665	.

63 . dfuller ecm_resid

Dickey-Fuller test for unit root Number of obs = 1,273
Variable: ecm_resid Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-20.403	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0000.

64 . gen lag_ecm_res = l.ecm_resid
(3 missing values generated)

65 . list if missing(ecm_resid)

	periode	p_jateng	pb_jateng	t_jateng	ln_p_jeng	ln_pb_jeng	ln_t_jeng	ecm_rend	lag_ecms
1.	1	107300	110750	116600	11.58338	11.61503	11.6665	.	.
2.	2	107300	111350	116600	11.58338	11.62043	11.6665	.	.

66 . regress d.ln_p_jateng d.ln_pb_jateng d.ln_t_jateng lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000022737	3	7.5791e-06	F(3, 1269)	=	0.73
Residual	.013183374	1,269	.000010389	Prob > F	=	0.5344
Total	.013206111	1,272	.000010382	R-squared	=	0.0017
				Adj R-squared	=	-0.0006
				Root MSE	=	.00322

D.	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jateng						
ln_pb_jateng						
D1.	-.0047002	.01411	-0.33	0.739	-.0323817	.0229813
ln_t_jateng						
D1.	-.0098041	.0158973	-0.62	0.538	-.0409921	.0213839
lag_ecm_res						
_cons	-.0253406	.0203713	-1.24	0.214	-.0653058	.0146245
	.0001089	.0000904	1.20	0.228	-.0000684	.0002862

67 .

68 . regress d.ln_pb_jateng d.ln_p_jateng d.ln_t_jateng lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000450269	3	.00015009	F(3, 1269)	=	3.65
Residual	.052176146	1,269	.000041116	Prob > F	=	0.0122
				R-squared	=	0.0086
				Adj R-squared	=	0.0062
Total	.052626415	1,272	.000041373	Root MSE	=	.00641

D. ln_pb_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jateng D1.	-.018602	.0558435	-0.33	0.739	-.1281578	.0909538
ln_t_jateng D1.	.0932667	.0315224	2.96	0.003	.0314249	.1551085
lag_ecm_res _cons	.0518321	.0405254	1.28	0.201	-.0276719	.1313362
	.0001278	.0001798	0.71	0.478	-.0002251	.0004806

69 .

70 . regress d.ln_t_jateng d.ln_pb_jateng d.ln_p_jateng lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000386659	3	.000128886	F(3, 1269)	=	3.98
Residual	.041094678	1,269	.000032384	Prob > F	=	0.0078
				R-squared	=	0.0093
				Adj R-squared	=	0.0070
Total	.041481337	1,272	.000032611	Root MSE	=	.00569

D. ln_t_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jateng D1.	.0734582	.0248275	2.96	0.003	.0247507	.1221657
ln_p_jateng D1.	-.030561	.0495546	-0.62	0.538	-.1277789	.0666569
lag_ecm_res _cons	.0546487	.0359558	1.52	0.129	-.0158905	.125188
	.0000938	.0001596	0.59	0.557	-.0002194	.0004069

71 . * Hasil Uji ECM

72 .

73 . *

74 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	0.770	1	0.3803

H0: no serial correlation

75 .

76 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity

Assumption: Normal error terms

Variable: Fitted values of D.ln_t_jateng

H0: Constant variance

chi2(1) = **6.72**

Prob > chi2 = **0.0095**

77 .

78 . * Hasil Uji ECM

79 .

80 . *

81 . * Model Persamaan regresi Lain

82 .

83 . regress ln_p_jateng ln_pb_jateng ln_t_jateng lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	2.38255509	3	.794185032	F(3, 1269)	=	3774.20
Residual	.267029026	1,269	.000210425	Prob > F	=	0.0000
				R-squared	=	0.8992
				Adj R-squared	=	0.8990
Total	2.64958412	1,272	.002083006	Root MSE	=	.01451

ln_p_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]
ln_pb_jateng	.3232176	.0221207	14.61	0.000	.2798204 .3666148
ln_t_jateng	.4305402	.0258081	16.68	0.000	.3799089 .4811715
lag_ecm_res	.9087623	.0915262	9.93	0.000	.7292029 1.088322
_cons	2.821203	.0938849	30.05	0.000	2.637016 3.005389

84 .

85 . regress ln_pb_jateng ln_p_jateng ln_t_jateng lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	4.66380097	3	1.55460032	F(3, 1269)	=	5359.38
Residual	.368100083	1,269	.000290071	Prob > F	=	0.0000
				R-squared	=	0.9268
				Adj R-squared	=	0.9267
Total	5.03190105	1,272	.003955897	Root MSE	=	.01703

ln_pb_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jateng	.4455561	.0304935	14.61	0.000	.385733	.5053793
ln_t_jateng	.7632184	.0257002	29.70	0.000	.7127989	.8136379
lag_ecm_res	-.419056	.1109347	-3.78	0.000	-.6366916	-.2014204
_cons	-2.454234	.1266892	-19.37	0.000	-2.702777	-2.205691

86 .
87 . regress ln_t_jateng ln_pb_jateng ln_p_jateng lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	3.43770414	3	1.14590138	F(3, 1269)	=	5612.26
Residual	.25910217	1,269	.000204178	Prob > F	=	0.0000
				R-squared	=	0.9299
				Adj R-squared	=	0.9297
Total	3.69680631	1,272	.002906294	Root MSE	=	.01429

ln_t_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jateng	.5372222	.0180901	29.70	0.000	.5017324	.572712
ln_p_jateng	.4177595	.025042	16.68	0.000	.3686312	.4668877
lag_ecm_res	-.3623701	.0930396	-3.89	0.000	-.5448985	-.1798418
_cons	.5851305	.1198697	4.88	0.000	.3499659	.8202951

88 .
89 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	1012.499	1	0.0000

H0: no serial correlation

90 .
91 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity
Assumption: Normal error terms
Variable: Fitted values of ln_t_jateng

H0: Constant variance

chi2(1) = 134.66
Prob > chi2 = 0.0000

92 . * _____

93 .

94 . summarize ln_p_jateng ln_pb_jateng ln_t_jateng

Variable	Obs	Mean	Std. dev.	Min	Max
ln_p_jateng	1,276	11.66389	.0457536	11.57778	11.724
ln_pb_jateng	1,276	11.70921	.0629758	11.61322	11.86111
ln_t_jateng	1,276	11.74828	.0539929	11.63647	11.87165

95 .

96 . summarize d.ln_p_jateng d.ln_pb_jateng d.ln_t_jateng

Variable	Obs	Mean	Std. dev.	Min	Max
ln_p_jateng D1.	1,275	.0001071	.0032196	-.0308342	.0481911
ln_pb_jateng D1.	1,275	.0001392	.0064288	-.0728111	.0987644
ln_t_jateng D1.	1,275	.0001003	.0057061	-.0350399	.0604801

97 .

98 . summarize p_jateng pb_jateng t_jateng

Variable	Obs	Mean	Std. dev.	Min	Max
p_jateng	1,276	116416.6	5252.943	106700	123500
pb_jateng	1,276	121927.8	7644.445	110550	141650
t_jateng	1,276	126719.2	6778.994	113150	143150

99 .

100 . summarize d.p_jateng d.pb_jateng d.t_jateng

Variable	Obs	Mean	Std. dev.	Min	Max
p_jateng D1.	1,275	12.31373	373.5796	-3750	5500
pb_jateng D1.	1,275	16.86275	808.6621	-8950	12000
t_jateng D1.	1,275	12.47059	736.5169	-4800	7650

101 .

102 . *

103 .

104 . * PERSAMAAN ASIMETRI HARGA

105 . gen d_ln_p_jateng = ln_p_jateng - ln_p_jateng[_n-1]
(1 missing value generated)

```

106 .
107 . gen d_ln_p_jateng_pos = cond(d_ln_p_jateng > 0, d_ln_p_jateng, 0)
    (1 missing value generated)

108 .
109 . gen d_ln_p_jateng_neg = cond(d_ln_p_jateng < 0, d_ln_p_jateng, 0)

110 .
111 . gen d_ln_pb_jateng = ln_pb_jateng - ln_pb_jateng[_n-1]
    (1 missing value generated)

112 .
113 . gen d_ln_pb_jateng_pos = cond(d_ln_pb_jateng > 0, d_ln_pb_jateng, 0)
    (1 missing value generated)

114 .
115 . gen d_ln_pb_jateng_neg = cond(d_ln_pb_jateng < 0, d_ln_pb_jateng, 0)

116 .
117 . gen d_ln_t_jateng = ln_t_jateng - ln_t_jateng[_n-1]
    (1 missing value generated)

118 .
119 . gen d_ln_t_jateng_pos = cond(d_ln_t_jateng > 0, d_ln_t_jateng, 0)
    (1 missing value generated)

120 .
121 . gen d_ln_t_jateng_neg = cond(d_ln_t_jateng < 0, d_ln_t_jateng, 0)

122 . * REGRESI MODEL HOUCK

123 .
124 . * 1 MODEL TERHADAP PRODUSEN

125 .
126 . reg ln_p_jateng d_ln_pb_jateng_pos d_ln_pb_jateng_neg d_ln_t_jateng_pos d_ln_t_jateng_neg

```

Source	SS	df	MS	Number of obs	=	1,275
Model	.005759339	4	.001439835	F(4, 1270)	=	0.69
Residual	2.6568295	1,270	.002091992	Prob > F	=	0.6001
				R-squared	=	0.0022
				Adj R-squared	=	-0.0010
Total	2.66258884	1,274	.002089944	Root MSE	=	.04574

ln_p_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_pb_jateng_pos	.1437958	.2628114	0.55	0.584	-.3717964	.659388
d_ln_pb_jateng_neg	-.3964772	.323925	-1.22	0.221	-1.031964	.2390098
d_ln_t_jateng_pos	-.051742	.2973182	-0.17	0.862	-.6350309	.5315469
d_ln_t_jateng_neg	-.3048269	.3780089	-0.81	0.420	-1.046418	.4367637
_cons	11.66345	.0013549	8608.66	0.000	11.66079	11.6661

127 . * Uji Asimetri dengan Wald

128 . test d_ln_pb_jateng_pos = d_ln_pb_jateng_neg

(1) d_ln_pb_jateng_pos - d_ln_pb_jateng_neg = 0

F(1, 1270) = 1.62
Prob > F = 0.2040

129 .

130 . test d_ln_t_jateng_pos = d_ln_t_jateng_neg

(1) d_ln_t_jateng_pos - d_ln_t_jateng_neg = 0

F(1, 1270) = 0.26
Prob > F = 0.6102

131 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_Jabar yaitu 0,2040 > 0,05, maka pedagang besar tidak mem
> hadap pasar produsen

132 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_Jabar yaitu 0,6102 > 0,05, maka pasar tradisional tidak m
> erhadap pasar produsen

133 . *

134 . * 2 MODEL TERHADAP PEDAGANG BESAR

135 . reg ln_pb_jateng d_ln_p_jateng_pos d_ln_p_jateng_neg d_ln_t_jateng_pos d_ln_t_jateng_neg

Source	SS	df	MS	Number of obs	=	1,275
Model	.048852834	4	.012213209	F(4, 1270)	=	3.10
Residual	4.99886127	1,270	.003936111	Prob > F	=	0.0149
				R-squared	=	0.0097
				Adj R-squared	=	0.0066
Total	5.04771411	1,274	.003962099	Root MSE	=	.06274

ln_pb_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_p_jateng_pos	-.3078413	.6612761	-0.47	0.642	-1.605155	.9894725
d_ln_p_jateng_neg	.5690052	.9924344	0.57	0.567	-1.377986	2.515996
d_ln_t_jateng_pos	.6551694	.4003538	1.64	0.102	-.1302581	1.440597
d_ln_t_jateng_neg	-1.609228	.5143212	-3.13	0.002	-2.61824	-.6002149
_cons	11.70761	.0018613	6289.95	0.000	11.70396	11.71126

136 . * Uji Asimetri dengan Wald

137 . test d_ln_p_jateng_pos = d_ln_p_jateng_neg

(1) d_ln_p_jateng_pos - d_ln_p_jateng_neg = 0

F(1, 1270) = 0.53
Prob > F = 0.4647

138 .

139 . test d_ln_t_jateng_pos = d_ln_t_jateng_neg

(1) d_ln_t_jateng_pos - d_ln_t_jateng_neg = 0

F(1, 1270) = 11.51
 Prob > F = 0.0007

140 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_Jabar yaitu 0,4647 > 0,05, maka produsen tidak memiliki a
 > edagang besar

141 .

142 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_Jabar yaitu 0,0007 < 0,05, maka pasar tradisional memilik
 > p pedagang besar

143 . *

144 .

145 . * 3 MODEL TERHADAP PASAR TRADISIONAL

146 . reg ln_t_jateng d_ln_p_jateng_pos d_ln_p_jateng_neg d_ln_pb_jateng_pos d_ln_pb_jateng_neg

Source	SS	df	MS	Number of obs	=	1,275
Model	.043625946	4	.010906486	F(4, 1270)	=	3.78
Residual	3.66659721	1,270	.002887084	Prob > F	=	0.0046
				R-squared	=	0.0118
				Adj R-squared	=	0.0086
Total	3.71022315	1,274	.002912263	Root MSE	=	.05373

ln_t_jateng	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_p_jateng_pos	-.151611	.565162	-0.27	0.789	-1.260365	.9571427
d_ln_p_jateng_neg	.4745148	.8498041	0.56	0.577	-1.19266	2.141689
d_ln_pb_jateng_pos	.9054325	.304809	2.97	0.003	.3074479	1.503417
d_ln_pb_jateng_neg	-.935151	.3746075	-2.50	0.013	-1.670069	-.2002333
_cons	11.74736	.0015507	7575.31	0.000	11.74431	11.7504

147 . test d_ln_p_jateng_pos = d_ln_p_jateng_neg

(1) d_ln_p_jateng_pos - d_ln_p_jateng_neg = 0

F(1, 1270) = 0.37
 Prob > F = 0.5421

148 .

149 . test d_ln_pb_jateng_pos = d_ln_pb_jateng_neg

(1) d_ln_pb_jateng_pos - d_ln_pb_jateng_neg = 0

F(1, 1270) = 14.26
 Prob > F = 0.0002

```
150 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_Jabar yaitu 0,5421 > 0,05, maka produsen tidak memiliki a
    > pasar tradisional

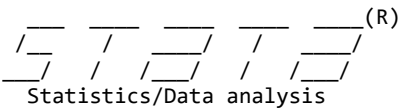
151 .
152 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_Jabar yaitu 0,0002 < 0,05, maka pedagang besar memiliki
    > ppasar tradisional

153 . * SELESAI

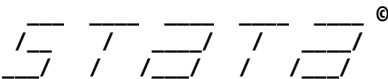
154 . * ALHAMDULILLAH JAWA TENGAH SUDAH SELESAI

155 . save "C:\Users\hp\Downloads\HASIL JAWA TENGAH.dta"
    file C:\Users\hp\Downloads\HASIL JAWA TENGAH.dta saved

156 .
```



User: Uji ECM Stata Provinsi Jawa Timur
Project: Uji ECM Stata Provinsi Jawa Timur



17.0
MP-Parallel Edition

Statistics and Data Science

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Notes:

- 1. Unicode is supported; see [help unicode advice](#).
- 2. More than 2 billion observations are allowed; see [help obs advice](#).
- 3. Maximum number of variables is set to 5,000; see [help set maxvar](#).
- 4. New update available; type [-update all-](#)

1 . * Olah Data ECM menggunakan Software StataMP-17 pendekatan Retizi dan Panagopoulos (2008)

2 .

3 . * Kelompok Komoditas Daging Sapi di Indonesia

4 .

5 . * Provinsi Jawa Timur

6 .

7 . * Oleh Fajar Andriansyah; Asifa; Luluk Isnaini

8 .

9 . * Start 23 Desember 2024

10 . edit

11 . *(2 variables, 1276 observations pasted into data editor)

12 . *(3 variables, 1276 observations pasted into data editor)

13 . drop tanggal

14 . tsset periode

Time variable: **periode**, 1 to 1276
Delta: 1 unit

15 . describe

Contains data
Observations: 1,276
Variables: 4

Variable name	Storage type	Display format	Value label	Variable label
periode	int	%8.0g		Periode
p_jatim	long	%8.0g		P_Jatim
pb_jatim	long	%8.0g		PB_Jatim
t_jatim	long	%8.0g		T_Jatim

Sorted by: periode

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-3.502	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0079.

Dickey-Fuller test for unit root Number of obs = 1,275
Variable: ln_t_jatim Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-1.952	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.3081.

```
34 . foreach var in d.ln_p_jatim ln_pb_jatim d.ln_t_jatim {
35 .     2. dfuller `var'
36 .     3.
37 . }
```

Dickey-Fuller test for unit root Number of obs = 1,274
Variable: D.ln_p_jatim Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-38.623	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0000.

Dickey-Fuller test for unit root Number of obs = 1,275
Variable: ln_pb_jatim Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-3.502	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0079.

Dickey-Fuller test for unit root Number of obs = 1,274
Variable: D.ln_t_jatim Number of lags = 0

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-35.115	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = 0.0000.

37 . * Berdasarkan uji stasioneritas data berdasarkan ADF, diketahui bahwa ln_pb_jatim stasioner pada tingkat level dan
> ata tidak stasioner pada tingkat level dan stasioner pada tingkat 1st Difference

38 . var ln_p_jateng ln_pb_jateng ln_t_jateng
variable ln_p_jateng not found
r(111);

39 .

40 . varsoc
either specify a varlist or the estimates() from either var or svar
r(198);

41 . var ln_p_jatim ln_pb_jatim ln_t_jatim

Vector autoregression

Sample: 3 thru 1276
Log likelihood = 15685.6
FPE = 4.20e-15
Det(Sigma_ml) = 4.06e-15
Number of obs = 1,274
AIC = -24.5912
HQIC = -24.55932
SBIC = -24.50631

Equation	Parms	RMSE	R-sq	chi2	P>chi2
ln_p_jatim	7	.004019	0.9816	67913.61	0.0000
ln_pb_jatim	7	.004472	0.9712	43003.91	0.0000
ln_t_jatim	7	.003601	0.9841	78753.73	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
ln_p_jatim						
ln_p_jatim						
L1.	.879066	.0279576	31.44	0.000	.8242701	.933862
L2.	.0606747	.0275255	2.20	0.028	.0067256	.1146237
ln_pb_jatim						
L1.	-.0129729	.0246794	-0.53	0.599	-.0613437	.0353978
L2.	.0192782	.0241608	0.80	0.425	-.028076	.0666324
ln_t_jatim						
L1.	.018916	.0314776	0.60	0.548	-.042779	.0806111
L2.	.0363595	.0325285	1.12	0.264	-.0273952	.1001142
_cons	-.0206642	.0502637	-0.41	0.681	-.1191792	.0778509
ln_pb_jatim						
ln_p_jatim						
L1.	.0501643	.0311116	1.61	0.107	-.0108133	.111142
L2.	-.0598977	.0306307	-1.96	0.051	-.1199328	.0001374
ln_pb_jatim						
L1.	1.027887	.0274636	37.43	0.000	.9740593	1.081714
L2.	-.1164742	.0268864	-4.33	0.000	-.1691705	-.0637778
ln_t_jatim						
L1.	.2029103	.0350287	5.79	0.000	.1342552	.2715653

L2.	-.1188968	.0361981	-3.28	0.001	-.1898438	-.0479498
_cons	.1597076	.0559341	2.86	0.004	.0500789	.2693364
ln_t_jatim						
ln_p_jatim						
L1.	.0232715	.0250499	0.93	0.353	-.0258254	.0723684
L2.	-.0061154	.0246627	-0.25	0.804	-.0544534	.0422227
ln_pb_jatim						
L1.	.0265855	.0221126	1.20	0.229	-.0167544	.0699255
L2.	-.0317621	.0216479	-1.47	0.142	-.0741912	.010667
ln_t_jatim						
L1.	1.004186	.0282038	35.60	0.000	.948908	1.059465
L2.	-.0230797	.0291454	-0.79	0.428	-.0802036	.0340441
_cons	.0822043	.045036	1.83	0.068	-.0060647	.1704733

42 .
43 . varsoc

Lag-order selection criteria

Sample: 3 thru 1276 Number of obs = 1,274

Lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	10184.7				2.3e-11	-15.9839	-15.9793	-15.9717
1	15663	10957	9	0.000	4.3e-15	-24.5698	-24.5516	-24.5213*
2	15685.6	45.238*	9	0.000	4.2e-15*	-24.5912*	-24.5593*	-24.5063

* optimal lag
Endogenous: ln_p_jatim ln_pb_jatim ln_t_jatim
Exogenous: _cons

44 . vecrank ln_p_jatim ln_pb_jatim ln_t_jatim, trend(constant)

Johansen tests for cointegration
Trend: Constant Number of obs = 1,274
Sample: 3 thru 1276 Number of lags = 2

Maximum				Trace	Critical
rank	Params	LL	Eigenvalue	statistic	value
0	12	15617.384	.	136.4254	29.68
1	17	15658.01	0.06179	55.1727	15.41
2	20	15684.401	0.04058	2.3919*	3.76
3	21	15685.597	0.00188		

* selected rank

```

45 . * Berdasarkan uji pendekatan VAR dan VARSOC diketahui bahwa lag optimum pada model yang digunakan berdasarkan nilai
> terkecil berada pada nilai lags 2

46 .
47 . * Berdasarkan uji kointegrasi dari model persamaan yang digunakan pada lags(2) dan tidak memiliki trend, diketahui
> ni memiliki kointegrasi atau hubungan dalam jangka panjang dalam H2 (Rank 2)

48 .
49 . * Berdasarkan data yang stasioner pada tingkat 1st Difference dan memiliki hubungan kointegrasi maka model sudah s
> ndekatan ECM

```

```

50 .
51 . * _____

```

```

52 .
53 . * Model VECM

```

```

54 . vec ln_p_jatim ln_pb_jatim ln_t_jatim, trend(constant) rank(2)

```

Vector error-correction model

Sample: 3 thru 1276	Number of obs	=	1,274
	AIC	=	-24.5909
Log likelihood = 15684.4	HQIC	=	-24.56053
Det(Sigma_ml) = 4.07e-15	SBIC	=	-24.51005

Equation	Parms	RMSE	R-sq	chi2	P>chi2
D_ln_p_jatim	6	.004018	0.0458	60.87762	0.0000
D_ln_pb_jatim	6	.004471	0.0902	125.7277	0.0000
D_ln_t_jatim	6	.003602	0.0074	9.3989	0.1524

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
D_ln_p_jatim						
_ce1						
L1.	-.0590385	.0081754	-7.22	0.000	-.075062	-.0430149
_ce2						
L1.	.0063462	.009517	0.67	0.505	-.0123067	.0249991
ln_p_jatim						
LD.	-.0615719	.0275526	-2.23	0.025	-.1155741	-.0075697
ln_pb_jatim						
LD.	-.0193793	.0242206	-0.80	0.424	-.0668508	.0280922
ln_t_jatim						
LD.	-.0367503	.0326032	-1.13	0.260	-.1006513	.0271507
_cons	.0000225	.0001127	0.20	0.842	-.0001985	.0002435
D_ln_pb_jatim						
_ce1						
L1.	-.0094959	.0090965	-1.04	0.297	-.0273247	.0083329
_ce2						
L1.	-.0885794	.0105892	-8.37	0.000	-.1093337	-.067825
ln_p_jatim						
LD.	.0597232	.0306568	1.95	0.051	-.0003631	.1198095
ln_pb_jatim						

LD.	.1164545	.0269494	4.32	0.000	.0636347	.1692743
ln_t_jatim						
LD.	.1188207	.0362764	3.28	0.001	.0477204	.1899211
_cons	-2.17e-06	.0001255	-0.02	0.986	-.0002481	.0002437
D_ln_t_jatim						
_ce1						
L1.	.0198238	.0073301	2.70	0.007	.005457	.0341906
_ce2						
L1.	-.0050872	.008533	-0.60	0.551	-.0218115	.0116371
ln_p_jatim						
LD.	.0041548	.0247039	0.17	0.866	-.0442639	.0525735
ln_pb_jatim						
LD.	.0315413	.0217163	1.45	0.146	-.0110219	.0741046
ln_t_jatim						
LD.	.0222257	.0292322	0.76	0.447	-.0350683	.0795198
_cons	.0000659	.0001011	0.65	0.515	-.0001323	.000264

Cointegrating equations

Equation	Parms	chi2	P>chi2
_ce1	1	289.0716	0.0000
_ce2	1	282.3542	0.0000

Identification: beta is exactly identified

Johansen normalization restrictions imposed

beta	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
_ce1						
ln_p_jatim	1	.	.	.	.	.
ln_pb_jatim	0 (omitted)	.	.	.	.	.
ln_t_jatim	-1.045332	.0614825	-17.00	0.000	-1.165835	-.9248284
_cons	.6252053	.	.	.	.	.
_ce2						
ln_p_jatim	-1.11e-16	.	.	.	.	.
ln_pb_jatim	1	.	.	.	.	.
ln_t_jatim	-.8388432	.049921	-16.80	0.000	-.9366866	-.7409998
_cons	-1.809198	.	.	.	.	.

```

55 . *
56 .
57 . * Uji Kausalitas
58 .
59 . var ln_p_jatim ln_pb_jatim ln_t_jatim, lags(2)

```

Vector autoregression

```

Sample: 3 thru 1276          Number of obs   =      1,274
Log likelihood = 14393.72      AIC              = -22.57727
FPE              = 3.14e-14     HQIC             = -22.55905
Det(Sigma_ml)    = 3.08e-14     SBIC             = -22.52876

```

Equation	Parms	RMSE	R-sq	chi2	P>chi2
ln_p_jatim	4	.005354	0.9672	37619.14	0.0000
ln_pb_jatim	4	.006604	0.9371	18983.23	0.0000
ln_t_jatim	4	.005115	0.9678	38294.4	0.0000

	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
ln_p_jatim						
ln_p_jatim L2.	.887798	.0109492	81.08	0.000	.866338	.909258
ln_pb_jatim L2.	.0143794	.0122663	1.17	0.241	-.009662	.0384208
ln_t_jatim L2.	.1000298	.0141803	7.05	0.000	.072237	.1278227
_cons	-.0353119	.0667753	-0.53	0.597	-.1661891	.0955653
ln_pb_jatim						
ln_p_jatim L2.	-.0287177	.0135061	-2.13	0.033	-.0551892	-.0022463
ln_pb_jatim L2.	.8123993	.0151307	53.69	0.000	.7827436	.842055
ln_t_jatim L2.	.1856798	.0174917	10.62	0.000	.1513966	.2199629
_cons	.3414765	.082369	4.15	0.000	.1800362	.5029168
ln_t_jatim						
ln_p_jatim L2.	.0302739	.0104606	2.89	0.004	.0097715	.0507762
ln_pb_jatim L2.	-.0124637	.0117189	-1.06	0.288	-.0354323	.0105048
ln_t_jatim L2.	.9682751	.0135475	71.47	0.000	.9417225	.9948277
_cons	.1648897	.0637955	2.58	0.010	.0398529	.2899266

```
60 .
61 . vargranger
```

Granger causality Wald tests

Equation	Excluded	chi2	df	Prob > chi2
ln_p_jatim	ln_pb_jatim	1.3742	1	0.241
ln_p_jatim	ln_t_jatim	49.761	1	0.000
ln_p_jatim	ALL	97.037	2	0.000
ln_pb_jatim	ln_p_jatim	4.5211	1	0.033
ln_pb_jatim	ln_t_jatim	112.68	1	0.000
ln_pb_jatim	ALL	142.44	2	0.000
ln_t_jatim	ln_p_jatim	8.3758	1	0.004
ln_t_jatim	ln_pb_jatim	1.1312	1	0.288
ln_t_jatim	ALL	8.8105	2	0.012

```
62 . * Berdasarkan uji hubungan kausalitas dengan data Difference, diketahui bahwa " PB Jabar - P Jabar / T Jabar + P J
> r/ T Jabar + PB Jabar / P Jabar + T Jabar / PB Jabar - T Jabar"
```

```
63 .
64 . * _____
```

```
65 .
66 . * Uji Model ECM
```

```
67 . predict ecm_resid, resid
(2 missing values generated)
```

```
68 . list if missing(ecm_resid)
```

	periode	p_jatim	pb_jatim	t_jatim	ln_p_j~m	ln_pb_~m	ln_t_j~m	ecm_re~d
1.	1	106950	105650	118600	11.58012	11.56789	11.68351	.
2.	2	106950	108900	118600	11.58012	11.59819	11.68351	.

```
69 . dfuller ecm_resid
```

Dickey-Fuller test for unit root Number of obs = **1,273**
Variable: **ecm_resid** Number of lags = **0**

H0: Random walk without drift, d = 0

	Test statistic	Dickey-Fuller critical value		
		1%	5%	10%
Z(t)	-22.286	-3.430	-2.860	-2.570

MacKinnon approximate p-value for Z(t) = **0.0000**.

70 . gen lag_ecm_res = l.ecm_resid
(3 missing values generated)

71 . regress d.ln_p_jatim d.ln_pb_jatim d.ln_t_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000519998	3	.000173333	F(3, 1269)	=	10.51
Residual	.020927954	1,269	.000016492	Prob > F	=	0.0000
				R-squared	=	0.0242
				Adj R-squared	=	0.0219
Total	.021447952	1,272	.000016862	Root MSE	=	.00406

D.ln_p_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jatim D1.	-.0074329	.0245009	-0.30	0.762	-.0554996	.0406339
ln_t_jatim D1.	.021133	.0317622	0.67	0.506	-.0411792	.0834452
lag_ecm_res _cons	-.1187755	.0212867	-5.58	0.000	-.1605364	-.0770146
	.0000562	.0001138	0.49	0.621	-.0001671	.0002796

72 .

73 . regress d.ln_pb_jatim d.ln_p_jatim d.ln_t_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000380646	3	.000126882	F(3, 1269)	=	5.86
Residual	.027470698	1,269	.000021648	Prob > F	=	0.0006
				R-squared	=	0.0137
				Adj R-squared	=	0.0113
Total	.027851344	1,272	.000021896	Root MSE	=	.00465

D. ln_pb_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jatim D1.	-.0097566	.0321607	-0.30	0.762	-.0728505	.0533373
ln_t_jatim D1.	.1510181	.0361486	4.18	0.000	.0801004	.2219357
lag_ecm_res _cons	-.0090275	.0246842	-0.37	0.715	-.0574539	.0393988
	.0000393	.0001304	0.30	0.763	-.0002166	.0002952

74 .

75 . regress d.ln_t_jatim d.ln_pb_jatim d.ln_p_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000231771	3	.000077257	F(3, 1269)	=	6.00
Residual	.016341505	1,269	.000012877	Prob > F	=	0.0005
				R-squared	=	0.0140
				Adj R-squared	=	0.0117
Total	.016573276	1,272	.000013029	Root MSE	=	.00359

D.ln_t_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jatim D1.	.0898362	.0215037	4.18	0.000	.0476494	.132023
ln_p_jatim D1.	.0165016	.0248014	0.67	0.506	-.0321546	.0651579
lag_ecm_res _cons	.0095336 .0000513	.0190375 .0001006	0.50 0.51	0.617 0.610	-.0278149 -.000146	.0468821 .0002487

76 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	0.044	1	0.8345

H0: no serial correlation

77 .

78 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity

Assumption: Normal error terms

Variable: Fitted values of D.ln_t_jatim

H0: Constant variance

chi2(1) = **74.85**Prob > chi2 = **0.0000**

79 . regress d.ln_p_jatim ln_pb_jatim d.ln_t_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000531099	3	.000177033	F(3, 1269)	=	10.74
Residual	.020916853	1,269	.000016483	Prob > F	=	0.0000
				R-squared	=	0.0248
				Adj R-squared	=	0.0225
Total	.021447952	1,272	.000016862	Root MSE	=	.00406

D.ln_p_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jatim	.0037888	.0043302	0.87	0.382	-.0047064	.012284
ln_t_jatim D1.	.0208902	.0315541	0.66	0.508	-.0410138	.0827942
lag_ecm_res _cons	-.1187157 -.0439945	.0212801 .0503451	-5.58 -0.87	0.000 0.382	-.1604638 -.1427633	-.0769675 .0547744

80 .

81 . regress d.ln_pb_jatim ln_p_jatim d.ln_t_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000382672	3	.000127557	F(3, 1269)	=	5.89
Residual	.027468672	1,269	.000021646	Prob > F	=	0.0005
				R-squared	=	0.0137
				Adj R-squared	=	0.0114
Total	.027851344	1,272	.000021896	Root MSE	=	.00465

D. ln_pb_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jatim	-.0019274	.0044735	-0.43	0.667	-.0107036	.0068487
ln_t_jatim D1.	.1504745	.0361506	4.16	0.000	.079553	.2213961
lag_ecm_res _cons	-.0061661 .0224129	.0247046 .0519289	-0.25 0.43	0.803 0.666	-.0546323 -.0794631	.0423002 .1242889

82 .

83 . regress d.ln_t_jatim ln_pb_jatim d.ln_p_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.000024251	3	8.0836e-06	F(3, 1269)	=	0.62
Residual	.016549026	1,269	.000013041	Prob > F	=	0.6022
				R-squared	=	0.0015
				Adj R-squared	=	-0.0009
Total	.016573276	1,272	.000013029	Root MSE	=	.00361

D.ln_t_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jatim	-.0044266	.0038508	-1.15	0.251	-.0119813	.0031281
ln_p_jatim D1.	.0165279	.024965	0.66	0.508	-.0324493	.0655052
lag_ecm_res _cons	.0089154 .0515208	.0191574 .0447713	0.47 1.15	0.642 0.250	-.0286682 -.0363131	.0464991 .1393547

84 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	0.264	1	0.6074

H0: no serial correlation

85 .
86 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity
Assumption: Normal error terms
Variable: Fitted values of **D.ln_t_jatim**

H0: Constant variance

chi2(1) = **96.15**
Prob > chi2 = **0.0000**

87 . * _____

88 . * _____

89 .
90 . * Model Persamaan regresi Lain

91 .
92 . regress ln_p_jateng ln_pb_jateng ln_t_jateng lag_ecm_res
variable ln_p_jateng not found
r(111);

93 .
94 . regress ln_pb_jateng ln_p_jateng ln_t_jateng lag_ecm_res
variable ln_pb_jateng not found
r(111);

95 .
96 . regress ln_t_jateng ln_pb_jateng ln_p_jateng lag_ecm_res
variable ln_t_jateng not found
r(111);

97 .
98 . bgodfrey

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	0.264	1	0.6074

H0: no serial correlation

99 .
100 . estat hettest

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity
Assumption: Normal error terms
Variable: Fitted values of **D.ln_t_jatim**

H0: Constant variance

chi2(1) = **96.15**
Prob > chi2 = **0.0000**

101 .

102 . *

103 . regress ln_p_jatim ln_pb_jatim ln_t_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.897925438	3	.299308479	F(3, 1269)	=	1786.42
Residual	.21261653	1,269	.000167547	Prob > F	=	0.0000
				R-squared	=	0.8085
				Adj R-squared	=	0.8081
Total	1.11054197	1,272	.000873068	Root MSE	=	.01294

ln_p_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jatim	.1652012	.0295479	5.59	0.000	.1072331	.2231692
ln_t_jatim	.7804919	.0272916	28.60	0.000	.7269503	.8340335
lag_ecm_res	.8388671	.067861	12.36	0.000	.7057351	.9719991
_cons	.5529467	.1611908	3.43	0.001	.2367169	.8691765

104 .

105 . regress ln_pb_jatim ln_p_jatim ln_t_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.692650574	3	.230883525	F(3, 1269)	=	1564.37
Residual	.18728999	1,269	.000147589	Prob > F	=	0.0000
				R-squared	=	0.7872
				Adj R-squared	=	0.7867
Total	.879940564	1,272	.000691777	Root MSE	=	.01215

ln_pb_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_p_jatim	.1455227	.0260282	5.59	0.000	.0944597	.1965857
ln_t_jatim	.6835218	.0266608	25.64	0.000	.6312177	.7358258
lag_ecm_res	-.1687646	.0672502	-2.51	0.012	-.3006984	-.0368308
_cons	1.937497	.141921	13.65	0.000	1.659071	2.215922

106 .

107 . regress ln_t_jatim ln_pb_jatim ln_p_jatim lag_ecm_res

Source	SS	df	MS	Number of obs	=	1,273
Model	.894778473	3	.298259491	F(3, 1269)	=	2767.00
Residual	.136787436	1,269	.000107792	Prob > F	=	0.0000
				R-squared	=	0.8674
				Adj R-squared	=	0.8671
Total	1.03156591	1,272	.000810979	Root MSE	=	.01038

ln_t_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
ln_pb_jatim	.4992108	.0194717	25.64	0.000	.4610105	.5374112
ln_p_jatim	.5021316	.0175581	28.60	0.000	.4676855	.5365778
lag_ecm_res	-.3859216	.0565871	-6.82	0.000	-.4969362	-.2749069
_cons	.0707133	.1298729	0.54	0.586	-.1840758	.3255025

```
108 .
109 . bgodfrey
```

Breusch-Godfrey LM test for autocorrelation

lags(p)	chi2	df	Prob > chi2
1	1007.881	1	0.0000

H0: no serial correlation

```
110 .
111 . estat hettest
```

Breusch-Pagan/Cook-Weisberg test for heteroskedasticity

Assumption: Normal error terms

Variable: Fitted values of **ln_t_jatim**

H0: Constant variance

chi2(1) = **50.57**
 Prob > chi2 = **0.0000**

```
112 .
```

```
113 . *
```

```
114 . summarize ln_p_jateng ln_pb_jateng ln_t_jateng
variable ln_p_jateng not found
r(111);
```

```
115 .
```

```
116 . summarize d.ln_p_jatim ln_pb_jatim d.ln_t_jatim
```

Variable	Obs	Mean	Std. dev.	Min	Max
ln_p_jatim					
D1.	1,275	.0000569	.0041031	-.0550766	.0590162
ln_pb_jatim	1,276	11.62631	.0263453	11.56789	11.73367
ln_t_jatim					
D1.	1,275	.0000564	.0036068	-.0259953	.0343218

```
117 .
```

```
118 . summarize p_jatim pb_jatim t_jatim
```

Variable	Obs	Mean	Std. dev.	Min	Max
p_jatim	1,276	110036	3250.676	103900	116250
pb_jatim	1,276	112045.7	2974.276	105650	124700
t_jatim	1,276	121047.5	3455.55	114350	131300

```
119 .
```

120 . summarize d.p_jatim pb_jatim d.t_jatim

Variable	Obs	Mean	Std. dev.	Min	Max
p_jatim D1.	1,275	6.313725	452.3371	-6200	6450
pb_jatim	1,276	112045.7	2974.276	105650	124700
t_jatim D1.	1,275	6.941176	440.2351	-3350	4150

121 .

122 . *

123 . summarize ln_p_jatim ln_pb_jatim ln_t_jatim

Variable	Obs	Mean	Std. dev.	Min	Max
ln_p_jatim	1,276	11.60813	.0295443	11.55118	11.6635
ln_pb_jatim	1,276	11.62631	.0263453	11.56789	11.73367
ln_t_jatim	1,276	11.70353	.0284608	11.64702	11.78524

124 .

125 . summarize d.ln_p_jatim ln_pb_jatim d.ln_t_jatim

Variable	Obs	Mean	Std. dev.	Min	Max
ln_p_jatim D1.	1,275	.0000569	.0041031	-.0550766	.0590162
ln_pb_jatim	1,276	11.62631	.0263453	11.56789	11.73367
ln_t_jatim D1.	1,275	.0000564	.0036068	-.0259953	.0343218

126 .

127 . summarize p_jatim pb_jatim t_jatim

Variable	Obs	Mean	Std. dev.	Min	Max
p_jatim	1,276	110036	3250.676	103900	116250
pb_jatim	1,276	112045.7	2974.276	105650	124700
t_jatim	1,276	121047.5	3455.55	114350	131300

128 .

129 . summarize d.p_jatim pb_jatim d.t_jatim

Variable	Obs	Mean	Std. dev.	Min	Max
p_jatim D1.	1,275	6.313725	452.3371	-6200	6450
pb_jatim	1,276	112045.7	2974.276	105650	124700
t_jatim D1.	1,275	6.941176	440.2351	-3350	4150

```

130 .
131 . * _____

132 . * PERSAMAAN ASIMETRI HARGA

133 .
134 . gen d_ln_p_jatim = ln_p_jatim - ln_p_jatim[_n-1]
    (1 missing value generated)

135 .
136 . gen d_ln_p_jatim_pos = cond(d_ln_p_jatim > 0, d_ln_p_jatim, 0)
    (1 missing value generated)

137 .
138 . gen d_ln_p_jatim_neg = cond(d_ln_p_jatim < 0, d_ln_p_jatim, 0)

139 .
140 . gen d_ln_pb_jatim = ln_pb_jatim - ln_pb_jatim[_n-1]
    (1 missing value generated)

141 .
142 . gen d_ln_pb_jatim_pos = cond(d_ln_pb_jatim > 0, d_ln_pb_jatim, 0)
    (1 missing value generated)

143 .
144 . gen d_ln_pb_jatim_neg = cond(d_ln_pb_jatim < 0, d_ln_pb_jatim, 0)

145 .
146 . gen d_ln_t_jatim = ln_t_jatim - ln_t_jatim[_n-1]
    (1 missing value generated)

147 .
148 . gen d_ln_t_jatim_pos = cond(d_ln_t_jatim > 0, d_ln_t_jatim, 0)
    (1 missing value generated)

149 .
150 . gen d_ln_t_jatim_neg = cond(d_ln_t_jatim < 0, d_ln_t_jatim, 0)

151 . * REGRESI MODEL HOUCK

152 .
153 . * 1 MODEL TERHADAP PRODUSEN

154 .
155 . reg ln_p_jatim d_ln_pb_jatim_pos d_ln_pb_jatim_neg d_ln_t_jatim_pos d_ln_t_jatim_neg

```

Source	SS	df	MS	Number of obs	=	1,275
Model	.003236555	4	.000809139	F(4, 1270)	=	0.93
Residual	1.10887949	1,270	.000873133	Prob > F	=	0.4475
				R-squared	=	0.0029
				Adj R-squared	=	-0.0002
Total	1.11211605	1,274	.000872933	Root MSE	=	.02955

ln_p_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_pb_jatim_pos	.102437	.2333833	0.44	0.661	-.3554222	.5602962
d_ln_pb_jatim_neg	-.3727291	.2716352	-1.37	0.170	-.9056321	.160174
d_ln_t_jatim_pos	-.4103999	.3148649	-1.30	0.193	-1.028113	.2073127
d_ln_t_jatim_neg	.1589575	.3732276	0.43	0.670	-.5732529	.8911679
_cons	11.60836	.0008997	1.3e+04	0.000	11.60659	11.61012

156 .
157 . * Uji Asimetri dengan Wald

158 .
159 . test d_ln_pb_jatim_pos = d_ln_pb_jatim_neg

(1) d_ln_pb_jatim_pos - d_ln_pb_jatim_neg = 0

F(1, 1270) = 1.74
Prob > F = 0.1878

160 .
161 . test d_ln_t_jatim_pos = d_ln_t_jatim_neg

(1) d_ln_t_jatim_pos - d_ln_t_jatim_neg = 0

F(1, 1270) = 1.27
Prob > F = 0.2606

162 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_Jabar yaitu 0,1878 > 0,05, maka pedagang besar tidak mem
> hadap pasar produsen

163 .
164 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_Jabar yaitu 0,2606 > 0,05, maka pasar tradisional tidak m
> erhadap pasar produsen

165 .
166 . * _____

167 .
168 . * 2 MODEL TERHADAP PEDAGANG BESAR

169 . reg ln_pb_jatim d_ln_p_jatim_pos d_ln_p_jatim_neg d_ln_t_jatim_pos d_ln_t_jatim_neg

Source	SS	df	MS	Number of obs	=	1,275
Model	.011859846	4	.002964962	F(4, 1270)	=	4.33
Residual	.869670735	1,270	.00068478	Prob > F	=	0.0018
				R-squared	=	0.0135
				Adj R-squared	=	0.0103
Total	.881530582	1,274	.000691939	Root MSE	=	.02617

ln_pb_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_p_jatim_pos	-.0216312	.2476127	-0.09	0.930	-.5074062	.4641438
d_ln_p_jatim_neg	.351434	.2631028	1.34	0.182	-.1647299	.8675978
d_ln_t_jatim_pos	.4636821	.2747738	1.69	0.092	-.0753784	1.002743
d_ln_t_jatim_neg	-1.226476	.3305497	-3.71	0.000	-1.874959	-.577992
_cons	11.62538	.0008014	1.5e+04	0.000	11.62381	11.62695

170 .
171 . * Uji Asimetri dengan Wald

172 .

173 . test d_ln_p_jatim_pos = d_ln_p_jatim_neg

(1) d_ln_p_jatim_pos - d_ln_p_jatim_neg = 0

F(1, 1270) = 1.05
 Prob > F = 0.3063

174 .

175 . test d_ln_t_jatim_pos = d_ln_t_jatim_neg

(1) d_ln_t_jatim_pos - d_ln_t_jatim_neg = 0

F(1, 1270) = 14.40
 Prob > F = 0.0002

176 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_Jabar yaitu 0,3063 > 0,05, maka produsen tidak memiliki a
 > edagang besar

177 .

178 . * Berdasarkan uji wald diketahui bahwa nilai statistik T_Jabar yaitu 0,0002 < 0,05, maka pasar tradisional memilik
 > p pedagang besar

179 .

180 . *

181 .

182 . * 3 MODEL TERHADAP PASAR TRADISIONAL

183 . reg ln_t_jatim d_ln_p_jatim_pos d_ln_p_jatim_neg d_ln_pb_jatim_pos d_ln_pb_jatim_neg

Source	SS	df	MS	Number of obs	=	1,275
Model	.020398965	4	.005099741	F(4, 1270)	=	6.40
Residual	1.01197118	1,270	.000796828	Prob > F	=	0.0000
Total	1.03237015	1,274	.000810338	R-squared	=	0.0198
				Adj R-squared	=	0.0167
				Root MSE	=	.02823

ln_t_jatim	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
d_ln_p_jatim_pos	.0340003	.2671116	0.13	0.899	-.4900282	.5580288
d_ln_p_jatim_neg	.3919623	.2837517	1.38	0.167	-.1647113	.9486359
d_ln_pb_jatim_pos	.8999258	.2196904	4.10	0.000	.4689297	1.330922
d_ln_pb_jatim_neg	-.6823089	.2594657	-2.63	0.009	-1.191337	-.1732804
_cons	11.70303	.0008159	1.4e+04	0.000	11.70143	11.70463

184 .

185 . * Uji Asimetri dengan Wald

186 .

187 . test d_ln_p_jatim_pos = d_ln_p_jatim_neg

(1) d_ln_p_jatim_pos - d_ln_p_jatim_neg = 0

F(1, 1270) = 0.83
 Prob > F = 0.3626

```

188 .
189 . test d_ln_pb_jatim_pos = d_ln_pb_jatim_neg

      ( 1)  d_ln_pb_jatim_pos - d_ln_pb_jatim_neg = 0

           F( 1, 1270) =    21.35
           Prob > F =    0.0000

190 . * Berdasarkan uji wald diketahui bahwa nilai statistik P_Jabar yaitu 0,3626 > 0,05, maka produsen tidak memiliki a
    > pasar tradisional

191 .
192 . * Berdasarkan uji wald diketahui bahwa nilai statistik PB_Jabar yaitu 0,0000 < 0,05, maka pedagang besar memiliki
    > ppasar tradisional

193 . * _____

194 . * Coba Uji Persamaan lain

195 . gen d_ln_pb_jatim = ln_pb_jatim - ln_pb_jatim[_n-1]
    variable d_ln_pb_jatim already defined
    r(110);

196 . gen d_ln_pb_jatim = ln_pb_jatim
    variable d_ln_pb_jatim already defined
    r(110);

197 . * SELESAI

198 . * ALHAMDULILLAH JAWA TIMUR SUDAH SELESAI

199 . save "C:\Users\hp\Downloads\HASIL JAWA TIMUR.dta"
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200 .

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