

BAB V

KESIMPULAN DAN SARAN

1.1 Kesimpulan

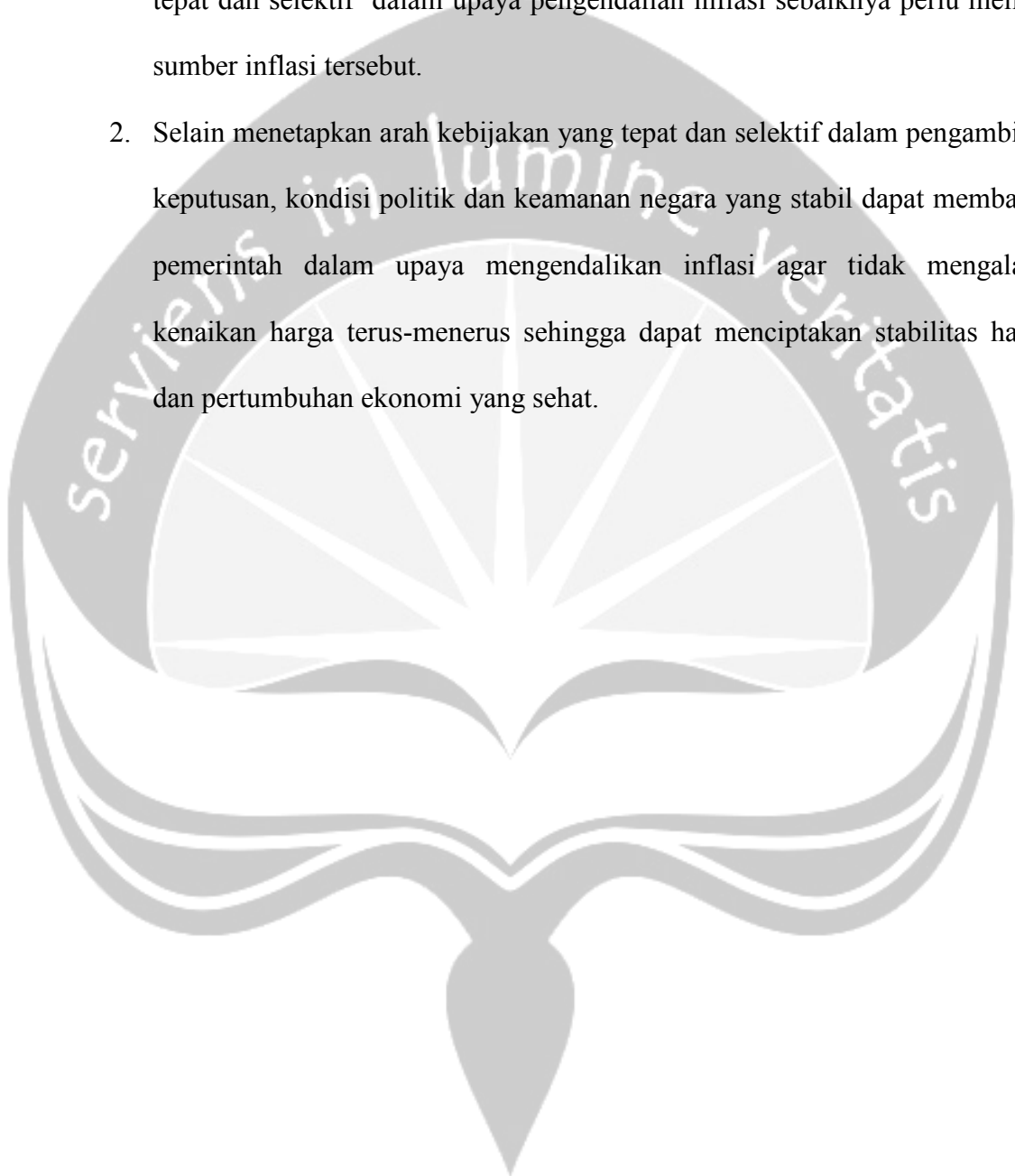
Berdasarkan beberapa temuan dalam penelitian ini, peneliti mengambil kesimpulan sebagai berikut :

1. Dari hasil estimasi ECM menunjukkan bahwa spesifikasi modelnya benar (valid) dan dapat memberikan indikasi adanya hubungan jangka pendek dan jangka panjang.
2. Dalam jangka pendek jumlah uang beredar (M1) tidak berpengaruh terhadap inflasi di Indonesia, namun dalam jangka panjang jumlah uang beredar (M1) berpengaruh positif terhadap inflasi di Indonesia.
3. Dalam jangka pendek produk domestik bruto (PDB) tidak berpengaruh terhadap inflasi di Indonesia, namun dalam jangka panjang berpengaruh terhadap inflasi di Indonesia.
4. Dalam jangka pendek dan jangka panjang suku bunga (R) dianggap tidak berpengaruh secara signifikan terhadap inflasi di Indonesia karena tidak sesuai dengan hipotesis.

1.2 Saran

Berdasarkan hasil kesimpulan di atas, dapat dikemukakan saran untuk mencegah inflasi supaya jangan sampai mengalami *overheating*. Langkah-langkah yang perlu dilakukan oleh pemerintah selaku pembuat kebijakan antara lain :

1. Pemerintah hendaknya berhati-hati dalam pengambilan keputusan untuk menetapkan arah kebijakan yang akan ditempuh. Penetapan kebijakan yang tepat dan selektif dalam upaya pengendalian inflasi sebaiknya perlu melihat sumber inflasi tersebut.
2. Selain menetapkan arah kebijakan yang tepat dan selektif dalam pengambilan keputusan, kondisi politik dan keamanan negara yang stabil dapat membantu pemerintah dalam upaya mengendalikan inflasi agar tidak mengalami kenaikan harga terus-menerus sehingga dapat menciptakan stabilitas harga dan pertumbuhan ekonomi yang sehat.



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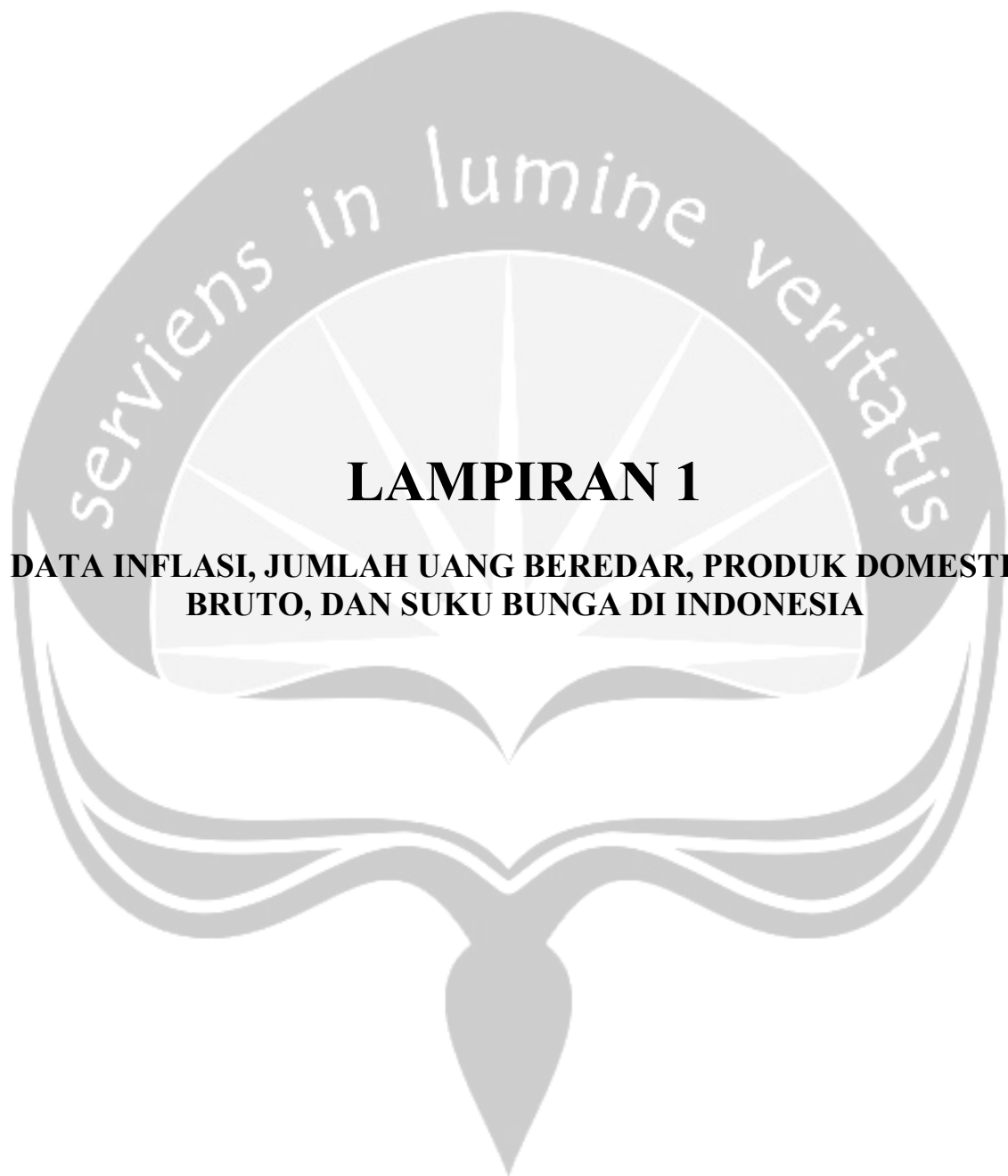
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LAMPIRAN 1

**DATA INFLASI, JUMLAH UANG BEREDAR, PRODUK DOMESTIK
BRUTO, DAN SUKU BUNGA DI INDONESIA**

**DATA INFLASI, JUMLAH UANG BEREDAR, PRODUK DOMESTIK
BRUTO, DAN SUKU BUNGA DI INDONESIA
1988 : Q1 - 2005 : Q4**

INF	M1	PDB	R	INF	M1	PDB	R
8,59	519,50	196334,3	18,01	5,28	1295,39	377216,4	16,47
8,37	526,22	212202,1	19,19	5,09	1417,29	382236,1	15,93
8,20	522,12	212411,7	15,83	7,11	1305,21	394225,1	26,22
5,60	565,92	207413,3	18,85	11,59	1458,84	381867,4	23,92
6,74	578,59	219581,7	19,17	39,10	1439,73	350297,7	27,26
6,69	602,28	219846,0	18,90	59,45	1391,14	321290,1	40,63
5,94	644,79	227823,8	17,65	85,61	1088,51	325422,7	47,38
6,12	745,30	222878,3	17,06	77,61	1061,00	307837,7	49,23
5,60	808,70	226502,2	16,23	45,44	1064,82	322945,4	34,85
6,97	819,78	229785,1	16,08	24,51	1081,43	319575,8	27,39
9,70	785,68	239321,1	18,36	1,11	1239,93	332867,7	15,88
9,93	802,86	233920,5	16,23	1,93	1282,03	328777,3	12,95
9,48	785,88	243459,2	24,21	-1,15	1270,46	342852,4	12,40
8,63	800,33	245521,0	25,01	2,06	1338,32	340865,2	11,69
9,27	807,33	258233,0	22,61	6,79	1331,20	355289,5	12,84
9,92	807,81	252730,0	21,88	9,34	1525,77	350762,8	13,24
10,20	826,53	266563,6	21,29	10,61	1367,10	356114,9	14,86
9,30	798,71	265839,9	20,09	12,11	1428,49	360533,0	15,00
5,87	816,41	280531,9	18,48	13,01	1428,48	367517,4	16,16
5,14	839,36	276807,3	16,72	12,55	1485,53	356240,4	17,24
10,56	837,20	287217,3	15,71	14,10	1341,88	368650,4	17,02
9,30	847,75	286279,8	15,19	11,44	1392,92	375720,9	15,85
9,94	935,46	307951,9	13,76	10,43	1431,78	387919,6	14,36
10,17	974,32	308880,8	11,79	9,87	1460,17	372925,5	13,63
7,26	967,21	308010,0	11,53	7,17	1365,70	386743,9	12,90
7,63	1008,78	313697,1	12,07	6,98	1458,10	394620,5	11,55
9,27	1037,97	327710,4	13,35	6,33	1537,55	405607,6	8,58
9,63	1095,67	324896,1	14,27	5,16	1618,99	390199,3	7,14
8,90	1052,13	331327,9	15,92	5,11	1570,60	402597,3	6,11
10,49	1076,87	337261,2	17,09	6,83	1637,00	411935,5	6,31
8,99	1105,53	350685,6	17,60	6,27	1679,03	423852,3	6,61
8,98	1167,22	351516,8	17,15	6,40	1725,70	418131,7	6,71
9,19	1140,64	351101,6	17,29	8,81	1650,40	427003,0	6,93
7,51	1201,89	360239,4	17,35	7,42	1744,98	436110,0	7,19
6,97	1259,31	377401,3	17,25	9,06	1750,69	448492,5	8,51
6,63	1331,77	385410,3	17,03	17,11	1636,57	439050,6	11,75

Keterangan :

INF_t : Tingkat Inflasi (dalam satuan persen)

$M1_t$: Jumlah Uang Beredar (dalam satuan milyar rupiah)

PDB_t : Produk Domestik Bruto (dalam satuan milyar rupiah)

R_t : Tingkat Suku Bunga (dalam satuan persen).



LAMPIRAN 2

UJI STASIONERITAS

Uji Akar-akar Unit

Stasioneritas Data Variabel INF

```

Ordinary Least Squares Estimation
*****
Dependent variable is DINF
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                   221.4689              105.0520                2.1082[.039]
INF(-1)            -.17126                .066071                 -2.5920[.012]
DINF(-1)           .59850                 .12290                  4.8699[.000]
DINF(-2)           .17671                 .13487                  1.3102[.195]
DINF(-3)           -.22378                .13725                  -1.6305[.108]
DINF(-4)           -.067252               .12977                  -.51825[.606]
*****
R-Squared           .55864                 R-Bar-Squared           .52247
S.E. of Regression  550.8317              F-stat. F( 5, 61)      15.4420[.000]
Mean of Dependent Variable  15.4776              S.D. of Dependent Variable  797.1076
Residual Sum of Squares  1.85E+07              Equation Log-likelihood  -514.7917
Akaike Info. Criterion  -520.7917              Schwarz Bayesian Criterion  -527.4058
DW-statistic        1.9203
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 11.2119[.024]*F( 4, 57)= 2.8639[.031]*
*
* B:Functional Form *CHSQ( 1)= 11.0842[.001]*F( 1, 60)= 11.8939[.001]*
*
* C:Normality *CHSQ( 2)= 203.8012[.000] * Not applicable *
*
* D:Heteroscedasticity*CHSQ( 1)= 4.7761[.029]*F( 1, 65)= 4.9892[.029]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

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Ordinary Least Squares Estimation

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*****
Dependent variable is DINF
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Repressor      Coefficient      Standard Error      T-Ratio[Prob]
C              166.0274         164.6833            1.0082[.317]
T              1.5576          3.5467              .43917[.662]
INF(-1)       -.17561          .067245            -2.6114[.011]
DINF(-1)      .60181           .12395             4.8553[.000]
DINF(-2)      .17855           .13584             1.3144[.194]
DINF(-3)     -.22205          .13822            -1.6064[.113]
DINF(-4)     -.062125         .13116            -.47367[.637]
*****
R-Squared      .56006           R-Bar-Squared      .51606
S.E. of Regression  554.5125       F-stat.  F( 6, 60)  12.7302[.000]
Mean of Dependent Variable  15.4776       S.D. of Dependent Variable  797.1076
Residual Sum of Squares  1.84E+07      Equation Log-likelihood  -514.6842
Akaike Info. Criterion  -521.6842     Schwarz Bayesian Criterion  -529.4006
DW-statistic   1.9280
*****

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Diagnostic Tests

```

*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 11.1242[.025]*F( 4, 56)= 2.7872[.035]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= 11.0724[.001]*F( 1, 59)= 11.6806[.001]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 204.0493[.000]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= 4.8353[.028]*F( 1, 65)= 5.0558[.028]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

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Stasioneritas Data Variabel M1

```

Ordinary Least Squares Estimation
*****
Dependent variable is DM1
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                  6274.1              3510.1                 1.7875[.079]
M1(-1)            -.040279            .029211                -1.3789[.173]
DM1(-1)           -.082959            .12986                 -.63886[.525]
DM1(-2)           .059922             .12670                 .47294[.638]
DM1(-3)           -.16955             .12733                 -1.3316[.188]
DM1(-4)           .20809              .13122                 1.5858[.118]
*****
R-Squared          .14267              R-Bar-Squared          .072396
S.E. of Regression 7337.5              F-stat.                F( 5, 61)              2.0302[.087]
Mean of Dependent Variable 1579.1              S.D. of Dependent Variable 7618.5
Residual Sum of Squares 3.28E+09              Equation Log-likelihood -688.2766
Akaike Info. Criterion -694.2766              Schwarz Bayesian Criterion -700.8907
DW-statistic       1.8689
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 4.1290[.389]*F( 4, 57)= .93585[.450]*
* B:Functional Form *CHSQ( 1)= 6.5495[.010]*F( 1, 60)= 6.5007[.013]*
* C:Normality *CHSQ( 2)= 18.9855[.000]* Not applicable *
* D:Heteroscedasticity*CHSQ( 1)= .67432[.412]*F( 1, 65)= .66084[.419]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

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Ordinary Least Squares Estimation

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*****
Dependent variable is DM1
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Regressor          Coefficient      Standard Error      T-Ratio[Prob]
C                  25488.3          6167.8              4.1325[.000]
T                  624.0268        171.1996            3.6450[.001]
M1(-1)            -.42105         .10781              -3.9055[.000]
DM1(-1)           .15065          .13470              1.1185[.268]
DM1(-2)           .23465          .12514              1.8751[.066]
DM1(-3)           .028921         .12829              .22543[.822]
DM1(-4)           .35634          .12644              2.8183[.007]
*****
R-Squared          .29810          R-Bar-Squared       .22791
S.E. of Regression 6694.3          F-stat. F( 6, 60)   4.2470[.001]
Mean of Dependent Variable 1579.1          S.D. of Dependent Variable 7618.5
Residual Sum of Squares 2.69E+09          Equation Log-likelihood -681.5757
Akaike Info. Criterion -688.5757          Schwarz Bayesian Criterion -696.2921
DW-statistic      1.9391
*****

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Diagnostic Tests

```

*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 1.0593[.901]*F( 4, 56)= .22490[.923]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= 4.6853[.030]*F( 1, 59)= 4.4361[.039]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 5.8279[.054]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= 4.7895[.029]*F( 1, 65)= 5.0043[.029]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

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Stasioneritas Data Variabel PDB

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Ordinary Least Squares Estimation
*****
Dependent variable is DPDB
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                  74373.7              60418.4                 1.2310[.223]
PDB(-1)           -.017715             .018010                 -.98363[.329]
DPDB(-1)          .091811              .10929                  .84003[.404]
DPDB(-2)          .11666               .10640                  1.0964[.277]
DPDB(-3)          -.21405              .10734                 -1.9942[.051]
DPDB(-4)          .50933               .10793                  4.7193[.000]
*****
R-Squared          .35921              R-Bar-Squared          .30668
S.E. of Regression 88099.0            F-stat. F( 5, 61)      6.8389[.000]
Mean of Dependent Variable 32756.6          S.D. of Dependent Variable 105804.6
Residual Sum of Squares 4.73E+11          Equation Log-likelihood -854.8025
Akaike Info. Criterion -860.8025          Schwarz Bayesian Criterion -867.4165
DW-statistic       1.5955
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 9.4752[.050]*F( 4, 57)= 2.3472[.065]*
* B:Functional Form *CHSQ( 1)= 1.6438[.200]*F( 1, 60)= 1.5091[.224]*
* C:Normality *CHSQ( 2)= 22.0733[.000]* Not applicable *
* D:Heteroscedasticity*CHSQ( 1)= .15855[.690]*F( 1, 65)= .15418[.696]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

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Ordinary Least Squares Estimation

```

*****
Dependent variable is DPDB
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Regressor          Coefficient      Standard Error      T-Ratio[Prob]
C                  289694.7         98045.5             2.9547[.004]
T                  3724.0          1373.5              2.7113[.009]
PDB(-1)           -.12856          .044329             -2.9001[.005]
DPDB(-1)          .14718           .10600              1.3885[.170]
DPDB(-2)          .16206           .10263              1.5790[.120]
DPDB(-3)          -.14530          .10525              -1.3805[.173]
DPDB(-4)          .56176           .10452              5.3749[.000]
*****
R-Squared          .42915           R-Bar-Squared       .37206
S.E. of Regression 83842.2         F-stat. F( 6, 60)   7.5177[.000]
Mean of Dependent Variable 32756.6         S.D. of Dependent Variable 105804.6
Residual Sum of Squares 4.22E+11         Equation Log-likelihood -850.9306
Akaike Info. Criterion -857.9306         Schwarz Bayesian Criterion -865.6470
DW-statistic       1.6509
*****

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Diagnostic Tests

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*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 5.2593[.262]*F( 4, 56)= 1.1926[.324]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= .37144[.542]*F( 1, 59)= .32892[.568]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 5.6503[.059]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= .021518[.883]*F( 1, 65)= .020882[.886]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

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Stasioneritas Data Variabel R

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Ordinary Least Squares Estimation
*****
Dependent variable is DR
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Regressor      Coefficient      Standard Error      T-Ratio[Prob]
C              269.5678         116.9788            2.3044[.025]
R(-1)         -.15841          .062449             -2.5367[.014]
DR(-1)        .39955           .12292              3.2506[.002]
DR(-2)        .18520           .12928              1.4325[.157]
DR(-3)        -.035017         .12950              -.27041[.788]
DR(-4)        -.024929         .12747              -.19557[.846]
*****
R-Squared      .26591           R-Bar-Squared      .20574
S.E. of Regression  328.5517       F-stat. F( 5, 61)  4.4193[.002]
Mean of Dependent Variable -11.0746       S.D. of Dependent Variable  368.6576
Residual Sum of Squares  6584718       Equation Log-likelihood -480.1705
Akaike Info. Criterion  -486.1705     Schwarz Bayesian Criterion -492.7845
DW-statistic    1.9935
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 1.0286[.905]*F( 4, 57)= .22218[.925]*
*
* B:Functional Form *CHSQ( 1)= 1.6065[.205]*F( 1, 60)= 1.4740[.229]*
*
* C:Normality *CHSQ( 2)= 234.3993[.000]* Not applicable
*
* D:Heteroscedasticity*CHSQ( 1)= .094683[.758]*F( 1, 65)= .091986[.763]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```

Ordinary Least Squares Estimation

```

*****
Dependent variable is DR
67 observations used for estimation from 1989Q2 to 2005Q4
*****
Regressor          Coefficient      Standard Error      T-Ratio[Prob]
C                  379.8362         166.5889            2.2801[.026]
T                 -2.0343          2.1858             -.93068[.356]
R(-1)             -.17616          .065360            -2.6952[.009]
DR(-1)            .40175           .12308             3.2642[.002]
DR(-2)            .18751           .12945             1.4485[.153]
DR(-3)            -.026064         .12999            -2.2050[.842]
DR(-4)            -.018658         .12778            -.14601[.884]
*****
R-Squared          .27636           R-Bar-Squared       .20400
S.E. of Regression 328.9127         F-stat. F( 6, 60)   3.8190[.003]
Mean of Dependent Variable -11.0746         S.D. of Dependent Variable 368.6576
Residual Sum of Squares 6491012         Equation Log-likelihood -479.6903
Akaike Info. Criterion -486.6903         Schwarz Bayesian Criterion -494.4067
DW-statistic       1.9922
*****

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Diagnostic Tests

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*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= .52358[.971]*F( 4, 56)= .11027[.978]*
* B:Functional Form *CHSQ( 1)= 1.3687[.242]*F( 1, 59)= 1.2304[.272]*
* C:Normality *CHSQ( 2)= 243.1021[.000]* Not applicable *
* D:Heteroscedasticity*CHSQ( 1)= .15052[.698]*F( 1, 65)= .14635[.703]*
*****

```

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values



Stasioneritas Data Variabel INF

```

Ordinary Least Squares Estimation
*****
Dependent variable is D2INF
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Regressor          Coefficient      Standard Error      T-Ratio[Prob]
C                  13.4408         70.0505             .19187[.848]
DINF(-1)          -.65379         .18327              -3.5673[.001]
D2INF(-1)         .24354          .14757              1.6503[.104]
D2INF(-2)         .42220          .12972              3.2546[.002]
D2INF(-3)         .075983        .13866              .54798[.586]
D2INF(-4)         -.23665         .12773              -1.8527[.069]
*****
R-Squared          .43589          R-Bar-Squared       .38888
S.E. of Regression 569.0819       F-stat.             F( 5, 60)           9.2724[.000]
Mean of Dependent Variable 12.2727       S.D. of Dependent Variable 727.9666
Residual Sum of Squares 1.94E+07       Equation Log-likelihood -509.2103
Akaike Info. Criterion -515.2103      Schwarz Bayesian Criterion -521.7793
DW-statistic      1.8153
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 8.4815[.075]*F( 4, 56)= 2.0644[.098]*
* B:Functional Form *CHSQ( 1)= 6.0274[.014]*F( 1, 59)= 5.9297[.018]*
* C:Normality *CHSQ( 2)= 145.1352[.000]* Not applicable *
* D:Heteroscedasticity*CHSQ( 1)= 1.9262[.165]*F( 1, 64)= 1.9239[.170]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```

Ordinary Least Squares Estimation

```

*****
Dependent variable is D2INF
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Regressor      Coefficient      Standard Error      T-Ratio[Prob]
C              -2.7383          162.9105            -.016808[.987]
T              .40960          3.7165              .11021[.913]
DINF(-1)      -.65243          .18521              -3.5228[.001]
D2INF(-1)     .24264          .14902              1.6282[.109]
D2INF(-2)     .42173          .13088              3.2224[.002]
D2INF(-3)     .075184         .14000              .53701[.593]
D2INF(-4)     -.23726         .12892              -1.8404[.071]
*****
R-Squared      .43601          R-Bar-Squared      .37865
S.E. of Regression  573.8253      F-stat. F( 6, 59)  7.6018[.000]
Mean of Dependent Variable  12.2727      S.D. of Dependent Variable  727.9666
Residual Sum of Squares  1.94E+07      Equation Log-likelihood  -509.2035
Akaike Info. Criterion  -516.2035      Schwarz Bayesian Criterion  -523.8673
DW-statistic   1.8161
*****

```

Diagnostic Tests

```

*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 8.5061[.075]*F( 4, 55)= 2.0343[.102]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= 6.2093[.013]*F( 1, 58)= 6.0233[.017]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 145.6810[.000]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= 1.9200[.166]*F( 1, 64)= 1.9176[.171]*
*****

```

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values

Stasioneritas Data Variabel M1

```

Ordinary Least Squares Estimation
*****
Dependent variable is D2M1
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                  2046.5              1066.2                 1.9194[.060]
DM1(-1)           -1.2827             .31885                -4.0229[.000]
D2M1(-1)          .21865              .28751                 .76047[.450]
D2M1(-2)          .21658              .23665                 .91518[.364]
D2M1(-3)          .047143             .19464                 .24221[.809]
D2M1(-4)          .22233              .13340                 1.6666[.101]
*****
R-Squared          .63814              R-Bar-Squared          .60799
S.E. of Regression 7344.5              F-stat. F( 5, 60)     21.1621[.000]
Mean of Dependent Variable -208.8030          S.D. of Dependent Variable 11730.4
Residual Sum of Squares 3.24E+09           Equation Log-likelihood -678.0175
Akaike Info. Criterion -684.0175          Schwarz Bayesian Criterion -690.5865
DW-statistic       2.0107
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 11.9075[.018]*F( 4, 56)= 3.0818[.023]*
*
* B:Functional Form *CHSQ( 1)= 6.0376[.014]*F( 1, 59)= 5.9407[.018]*
*
* C:Normality *CHSQ( 2)= 18.9045[.000]* Not applicable *
*
* D:Heteroscedasticity*CHSQ( 1)= .77896[.377]*F( 1, 64)= .76437[.385]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```

Ordinary Least Squares Estimation

```

*****
Dependent variable is D2M1
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Repressor      Coefficient      Standard Error      T-Ratio[Prob]
C              3024.1          2185.7             1.3836[.172]
T             -24.5366       47.7956           -.51337[.610]
DM1(-1)       -1.2875        .32096            -4.0115[.000]
D2M1(-1)      .22301         .28942            .77053[.444]
D2M1(-2)      .22008         .23822            .92385[.359]
D2M1(-3)      .047887        .19585            .24451[.808]
D2M1(-4)      .22252         .13423            1.6578[.103]
*****
R-Squared      .63975         R-Bar-Squared      .60311
S.E. of Regression  7390.0       F-stat.  F( 6, 59)  17.4626[.000]
Mean of Dependent Variable -208.8030   S.D. of Dependent Variable  11730.4
Residual Sum of Squares  3.22E+09    Equation Log-likelihood  -677.8704
Akaike Info. Criterion  -684.8704   Schwarz Bayesian Criterion  -692.5342
DW-statistic   2.0183
*****

```

Diagnostic Tests

```

*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 10.2989[.036]*F( 4, 55)= 2.5423[.050]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= 5.8790[.015]*F( 1, 58)= 5.6715[.021]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 18.2405[.000]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= .75740[.384]*F( 1, 64)= .74298[.392]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```

Stasioneritas Data Variabel PDB

```

Ordinary Least Squares Estimation
*****
Dependent variable is D2PDB
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                  22988.2              12455.1                 1.8457[.070]
DPDB(-1)          -.66327              .21014                  -3.1563[.002]
D2PDB(-1)         -.065250             .20969                  -.31117[.757]
D2PDB(-2)         -.037475             .17731                  -.21135[.833]
D2PDB(-3)         -.23883              .15095                  -1.5822[.119]
D2PDB(-4)         .32372              .11936                  2.7121[.009]
*****
R-Squared          .73900              R-Bar-Squared          .71725
S.E. of Regression 83567.7            F-stat.  F( 5, 60)    33.9778[.000]
Mean of Dependent Variable -1470.6          S.D. of Dependent Variable 157159.7
Residual Sum of Squares 4.19E+11         Equation Log-likelihood -838.5100
Akaike Info. Criterion -844.5100         Schwarz Bayesian Criterion -851.0789
DW-statistic       2.0516
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 2.5552[.635]*F( 4, 56)= .56384[.690]*
*
* B:Functional Form *CHSQ( 1)= 2.2147[.137]*F( 1, 59)= 2.0486[.158]*
*
* C:Normality *CHSQ( 2)= 18.0003[.000]* Not applicable *
*
* D:Heteroscedasticity*CHSQ( 1)= .073792[.786]*F( 1, 64)= .071636[.790]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```

Ordinary Least Squares Estimation

```

*****
Dependent variable is D2PDB
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                   30070.0                25298.8                 1.1886[.239]
T                   -175.9783             545.8709                -.32238[.748]
DPDB(-1)           -.66717                .21208                  -3.1459[.003]
D2PDB(-1)          -.059835               .21194                  -.28232[.779]
D2PDB(-2)          -.033495               .17908                  -.18704[.852]
D2PDB(-3)          -.23578                .15238                  -1.5473[.127]
D2PDB(-4)          .32607                 .12049                  2.7063[.009]
*****
R-Squared           .73946                 R-Bar-Squared           .71297
S.E. of Regression  84198.8                F-stat. F( 6, 59)      27.9093[.000]
Mean of Dependent Variable -1470.6                S.D. of Dependent Variable 157159.7
Residual Sum of Squares 4.18E+11                Equation Log-likelihood -838.4519
Akaike Info. Criterion -845.4519                Schwarz Bayesian Criterion -853.1157
DW-statistic        2.0588
*****

```

Diagnostic Tests

```

*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 2.4038[.662]*F( 4, 55)= .51971[.722]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= 2.1321[.144]*F( 1, 58)= 1.9362[.169]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 17.8219[.000]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= .079858[.777]*F( 1, 64)= .077532[.782]*
*****

```

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values

Stasioneritas Data Variabel R

```

Ordinary Least Squares Estimation
*****
Dependent variable is D2R
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Regressor          Coefficient      Standard Error      T-Ratio[Prob]
C                   -8.4036          42.9440             -.19569[.846]
DR(-1)             -.85660          .21293              -4.0229[.000]
D2R(-1)            .19561           .18599              1.0517[.297]
D2R(-2)            .30564           .16542              1.8476[.070]
D2R(-3)            .17600           .15332              1.1479[.256]
D2R(-4)            .052882          .12704              .41627[.679]
*****
R-Squared          .34700           R-Bar-Squared       .29258
S.E. of Regression 347.6071         F-stat.             F( 5, 60)           6.3766[.000]
Mean of Dependent Variable 5.3182           S.D. of Dependent Variable 413.2851
Residual Sum of Squares 7249841          Equation Log-likelihood -476.6755
Akaike Info. Criterion -482.6755        Schwarz Bayesian Criterion -489.2445
DW-statistic       2.0157
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 5.1638[.271]*F( 4, 56)= 1.1883[.326]*
*
* B:Functional Form *CHSQ( 1)= .021333[.884]*F( 1, 59)= .019076[.891]*
*
* C:Normality *CHSQ( 2)= 200.7072[.000]* Not applicable *
*
* D:Heteroscedasticity*CHSQ( 1)= .34014[.560]*F( 1, 64)= .33154[.567]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```

Ordinary Least Squares Estimation

```

*****
Dependent variable is D2R
66 observations used for estimation from 1989Q3 to 2005Q4
*****
Repressor      Coefficient      Standard Error      T-Ratio[Prob]
C              12.2619          99.6209             .12309[.902]
T              -.52573         2.2826              -.23032[.819]
DR(-1)        -.86273         .21628              -3.9890[.000]
D2R(-1)       .20045          .18865              1.0625[.292]
D2R(-2)       .30964          .16765              1.8470[.070]
D2R(-3)       .17869          .15498              1.1529[.254]
D2R(-4)       .054931         .12836              .42794[.670]
*****
R-Squared      .34758          R-Bar-Squared      .28124
S.E. of Regression  350.3831      F-stat.  F( 6, 59)  5.2388[.000]
Mean of Dependent Variable  5.3182      S.D. of Dependent Variable  413.2851
Residual Sum of Squares  7243329      Equation Log-likelihood  -476.6459
Akaike Info. Criterion  -483.6459      Schwarz Bayesian Criterion  -491.3096
DW-statistic   2.0160
*****

```

Diagnostic Tests

```

*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 5.2956[.258]*F( 4, 55)= 1.1995[.321]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= .035398[.851]*F( 1, 58)= .031124[.861]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 198.4967[.000]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= .38316[.536]*F( 1, 64)= .37372[.543]*
*****

```

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values



Stasioneritas Data Variabel PDB

```

Ordinary Least Squares Estimation
*****
Dependent variable is D3PDB
65 observations used for estimation from 1989Q4 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                  -483.2942            11199.2                 -.043154[.966]
D2PDB(-1)         -2.2309              .53587                 -4.1631[.000]
D3PDB(-1)         .63137               .47443                 1.3308[.188]
D3PDB(-2)         .21039               .35649                 .59018[.557]
D3PDB(-3)         -.27362              .24114                 -1.1347[.261]
D3PDB(-4)         -.017130             .12657                 -.13534[.893]
*****
R-Squared          .90750              R-Bar-Squared          .89966
S.E. of Regression 90249.6            F-stat. F( 5, 59)     115.7653[.000]
Mean of Dependent Variable -4544.3          S.D. of Dependent Variable 284909.1
Residual Sum of Squares 4.81E+11         Equation Log-likelihood -830.7551
Akaike Info. Criterion -836.7551        Schwarz Bayesian Criterion -843.2783
DW-statistic       1.9663
*****

Diagnostic Tests
*****
* Test Statistics * LM Version * F Version *
*****
* A:Serial Correlation*CHSQ( 4)= 4.7216[.317]*F( 4, 55)= 1.0770[.377]*
*
* B:Functional Form *CHSQ( 1)= .0086378[.926]*F( 1, 58)= .0077086[.930]*
*
* C:Normality *CHSQ( 2)= 114.8985[.000]* Not applicable *
*
* D:Heteroscedasticity*CHSQ( 1)= .57942[.447]*F( 1, 63)= .56664[.454]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```

Ordinary Least Squares Estimation

```

*****
Dependent variable is D3PDB
65 observations used for estimation from 1989Q4 to 2005Q4
*****
Regressor          Coefficient          Standard Error          T-Ratio[Prob]
C                  -2072.0              26646.3                -.077758[.938]
T                  39.7170             603.3518               .065827[.948]
D2PDB(-1)         -2.2325              .54101                 -4.1266[.000]
D3PDB(-1)         .63289              .47904                 1.3212[.192]
D3PDB(-2)         .21137              .35985                 .58740[.559]
D3PDB(-3)         -.27292             .24343                 -1.1212[.267]
D3PDB(-4)         -.016661            .12785                 -.13031[.897]
*****
R-Squared          .90751              R-Bar-Squared          .89794
S.E. of Regression 91020.8            F-stat. F( 6, 58)     94.8438[.000]
Mean of Dependent Variable -4544.3          S.D. of Dependent Variable 284909.1
Residual Sum of Squares 4.81E+11        Equation Log-likelihood -830.7527
Akaike Info. Criterion -837.7527        Schwarz Bayesian Criterion -845.3630
DW-statistic      1.9664
*****

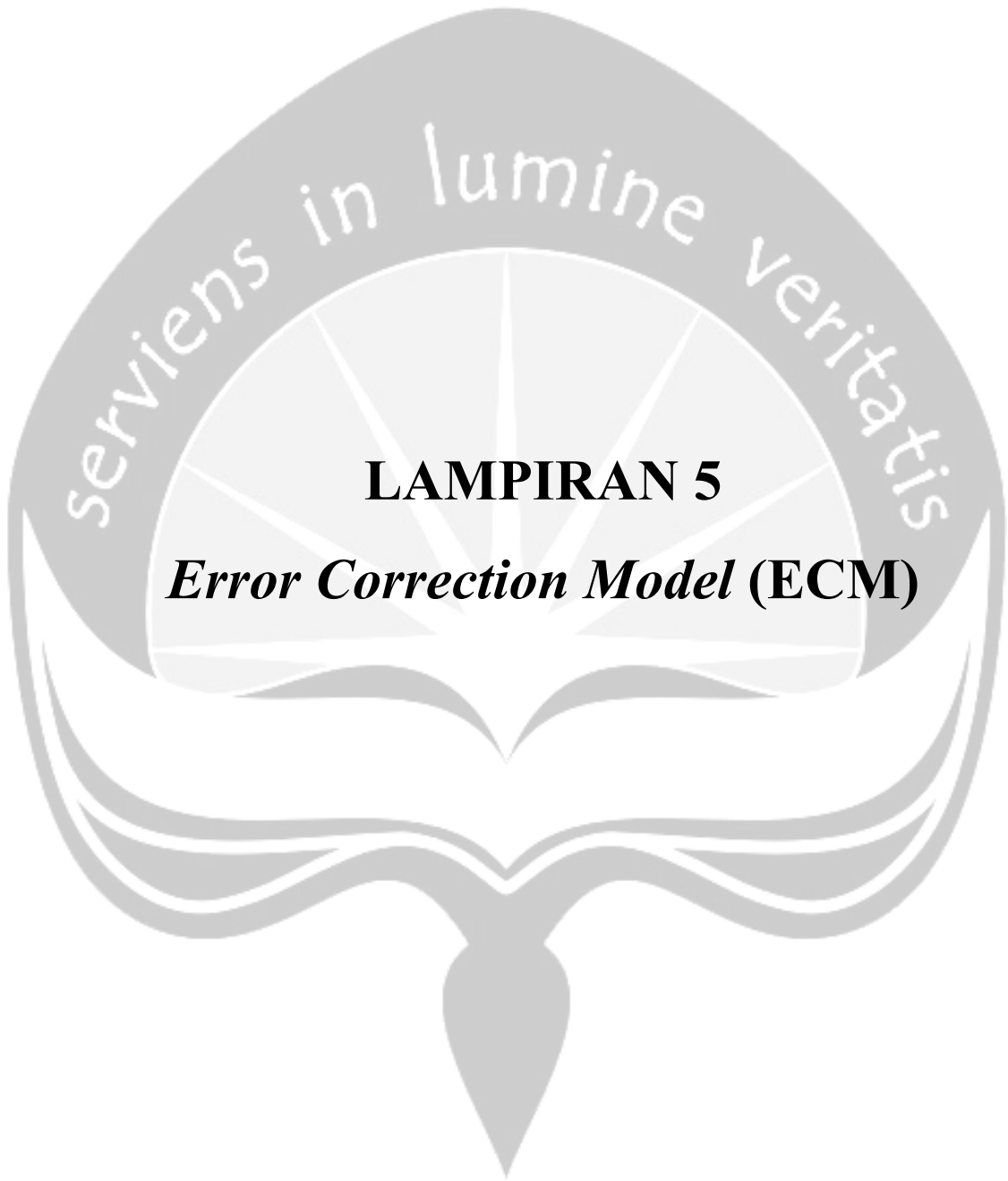
```

Diagnostic Tests

```

*****
*      Test Statistics      *      LM Version      *      F Version      *
*****
*      *      *      *      *      *      *      *
* A:Serial Correlation*CHSQ( 4)= 4.7204[.317]*F( 4, 54)= 1.0572[.387]*
*      *      *      *      *      *      *      *
* B:Functional Form *CHSQ( 1)= .0060325[.938]*F( 1, 57)= .0052906[.942]*
*      *      *      *      *      *      *      *
* C:Normality *CHSQ( 2)= 114.4652[.000]*      Not applicable      *
*      *      *      *      *      *      *      *
* D:Heteroscedasticity*CHSQ( 1)= .58858[.443]*F( 1, 63)= .57568[.451]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

```



LAMPIRAN 5

Error Correction Model (ECM)

Ordinary Least Squares Estimation

Dependent variable is DINF

70 observations used for estimation from 1988Q3 to 2005Q4

Regressor	Coefficient	Standard Error	T-Ratio[Prob]
C	-563.1805	431.5148	-1.3051[.197]
DM1	-.013783	.0093058	-1.4811[.144]
D2PDB	-.0019465	.6048E-3	-3.2184[.002]
DR	1.1808	.19298	6.1188[.000]
M1(-1)	-.33450	.080784	-4.1406[.000]
DPDB(-1)	-.34191	.081913	-4.1740[.000]
R(-1)	.024775	.10700	.23153[.818]
ECT	.33879	.081911	4.1360[.000]

R-Squared	.70759	R-Bar-Squared	.67458
S.E. of Regression	445.1765	F-stat. F(7, 62)	21.4333[.000]
Mean of Dependent Variable	12.4857	S.D. of Dependent Variable	780.3858
Residual Sum of Squares	1.23E+07	Equation Log-likelihood	-521.9710
Akaike Info. Criterion	-529.9710	Schwarz Bayesian Criterion	-538.9650
DW-statistic	1.9484		

Diagnostic Tests

Test Statistics	LM Version	F Version
* A:Serial Correlation*CHSQ(4)= 7.1310[.129]*F(4, 58)= 1.6447[.175]*		
* B:Functional Form *CHSQ(1)= 6.0650[.014]*F(1, 61)= 5.7866[.019]*		
* C:Normality *CHSQ(2)= 36.2349[.000]* Not applicable		
* D:Heteroscedasticity*CHSQ(1)= 6.0911[.014]*F(1, 68)= 6.4810[.013]*		

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values



LAMPIRAN 6

UJI MULTIKOLINEARITAS

Ordinary Least Squares Estimation

Dependent variable is DM1

70 observations used for estimation from 1988Q3 to 2005Q4

Regressor	Coefficient	Standard Error	T-Ratio[Prob]
C	7378.6	5767.7	1.2793[.205]
D2PDB	-.011649	.0080553	-1.4462[.153]
DR	-8.6142	2.3767	-3.6245[.001]
M1(-1)	-.80285	1.0890	-.73722[.464]
DPDB(-1)	-.76828	1.1048	-.69543[.489]
R(-1)	-2.0305	1.4259	-1.4240[.159]
ECT	.77590	1.1046	.70239[.485]

R-Squared	.40443	R-Bar-Squared	.34771
S.E. of Regression	6027.1	F-stat. F(6, 63)	7.1303[.000]
Mean of Dependent Variable	1586.2	S.D. of Dependent Variable	7462.6
Residual Sum of Squares	2.29E+09	Equation Log-likelihood	-704.9195
Akaike Info. Criterion	-711.9195	Schwarz Bayesian Criterion	-719.7893
DW-statistic	2.6823		

Diagnostic Tests

Test Statistics	LM Version	F Version
* A:Serial Correlation*CHSQ(4)= 22.0122[.000]*F(4, 59)= 6.7659[.000]*		
* B:Functional Form *CHSQ(1)= .57613[.448]*F(1, 62)= .51452[.476]*		
* C:Normality *CHSQ(2)= .38669[.824]*		Not applicable
* D:Heteroscedasticity*CHSQ(1)= 11.0135[.001]*F(1, 68)= 12.6964[.001]*		

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values

Ordinary Least Squares Estimation

Dependent variable is D2PDB

70 observations used for estimation from 1988Q3 to 2005Q4

Regressor	Coefficient	Standard Error	T-Ratio[Prob]
C	255508.2	83931.9	3.0442[.003]
DM1	-2.7582	1.9072	-1.4462[.153]
DR	-140.0611	36.1228	-3.8774[.000]
M1(-1)	3.9700	16.8216	.23601[.814]
DPDB(-1)	3.4167	17.0588	.20029[.842]
R(-1)	-68.9521	20.5289	-3.3588[.001]
ECT	-4.7289	17.0533	-.27730[.782]

R-Squared	.67662	R-Bar-Squared	.64582
S.E. of Regression	92739.4	F-stat. F(6, 63)	21.9695[.000]
Mean of Dependent Variable	-3615.7	S.D. of Dependent Variable	155830.8
Residual Sum of Squares	5.42E+11	Equation Log-likelihood	-896.2665
Akaike Info. Criterion	-903.2665	Schwarz Bayesian Criterion	-911.1362
DW-statistic	2.0004		

Diagnostic Tests

Test Statistics	LM Version	F Version
* A:Serial Correlation*CHSQ(4)= 28.5635[.000]*F(4, 59)= 10.1677[.000]*		
* B:Functional Form *CHSQ(1)= .2111E-3[.988]*F(1, 62)= .1870E-3[.989]*		
* C:Normality *CHSQ(2)= 3.7242[.155]*		Not applicable
* D:Heteroscedasticity*CHSQ(1)= .87087[.351]*F(1, 68)= .85664[.358]*		

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values

Ordinary Least Squares Estimation

Dependent variable is DR

70 observations used for estimation from 1988Q3 to 2005Q4

Regressor	Coefficient	Standard Error	T-Ratio[Prob]
C	593.9522	271.5908	2.1869[.032]
DM1	-.020030	.0055263	-3.6245[.001]
D2PDB	-.0013755	.3548E-3	-3.8774[.000]
M1(-1)	-.0046718	.052736	-.088588[.930]
DPDB(-1)	-.0058097	.053471	-.10865[.914]
R(-1)	-.21501	.064391	-3.3391[.001]
ECT	.0035651	.053473	.066670[.947]

R-Squared	.42004	R-Bar-Squared	.36481
S.E. of Regression	290.6302	F-stat. F(6, 63)	7.6047[.000]
Mean of Dependent Variable	-10.6286	S.D. of Dependent Variable	364.6596
Residual Sum of Squares	5321352	Equation Log-likelihood	-492.6817
Akaike Info. Criterion	-499.6817	Schwarz Bayesian Criterion	-507.5514
DW-statistic	1.6980		

Diagnostic Tests

Test Statistics	LM Version	F Version
* A:Serial Correlation*CHSQ(4)=	9.6777[.046]*F(4, 59)=	2.3664[.063]*
* B:Functional Form *CHSQ(1)=	6.9227[.009]*F(1, 62)=	6.8045[.011]*
* C:Normality *CHSQ(2)=	11.4855[.003]*	Not applicable
* D:Heteroscedasticity*CHSQ(1)=	18.9371[.000]*F(1, 68)=	25.2184[.000]*

A:Lagrange multiplier test of residual serial correlation

B:Ramsey's RESET test using the square of the fitted values

C:Based on a test of skewness and kurtosis of residuals

D:Based on the regression of squared residuals on squared fitted values



LAMPIRAN 7

PERBAIKAN UJI HETEROSKEDASTISITAS

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Ordinary Least Squares Estimation
*****
Dependent variable is DINF
60 observations used for estimation from 1988Q3 to 2003Q2
*****
Regressor      Coefficient      Standard Error      T-Ratio[Prob]
C              6.9241          206.3000            .033563[.973]
DM1            -.0019130       .0039070            -.48965[.626]
D2PDB         -.4218E-4       .2872E-3            -.14685[.884]
DR            .26050         .10487              2.4840[.016]
M1(-1)        -.33947         .12488              -2.7183[.009]
DPDB(-1)      -.34087         .12507              -2.7253[.009]
R(-1)         -.26383         .12365              -2.1337[.038]
ECT           .34100         .12511              2.7257[.009]
*****
R-Squared      .24963          R-Bar-Squared      .14862
S.E. of Regression  187.0003      F-stat.  F( 7, 52)  2.4713[.029]
Mean of Dependent Variable  14.5667      S.D. of Dependent Variable  202.6662
Residual Sum of Squares  1818395      Equation Log-likelihood  -394.7099
Akaike Info. Criterion  -402.7099      Schwarz Bayesian Criterion  -411.0873
DW-statistic   1.8734
*****

Diagnostic Tests
*****
* Test Statistics *          LM Version          *          F Version          *
*****
* A:Serial Correlation*CHSQ( 4)= 2.2952[.682]*F( 4, 48)= .47731[.752]*
*
* B:Functional Form *CHSQ( 1)= 3.6548[.056]*F( 1, 51)= 3.3081[.075]*
*
* C:Normality *CHSQ( 2)= 22.6133[.000]* Not applicable
*
* D:Heteroscedasticity*CHSQ( 1)= 1.8859[.170]*F( 1, 58)= 1.8822[.175]*
*****
A:Lagrange multiplier test of residual serial correlation
B:Ramsey's RESET test using the square of the fitted values
C:Based on a test of skewness and kurtosis of residuals
D:Based on the regression of squared residuals on squared fitted values

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