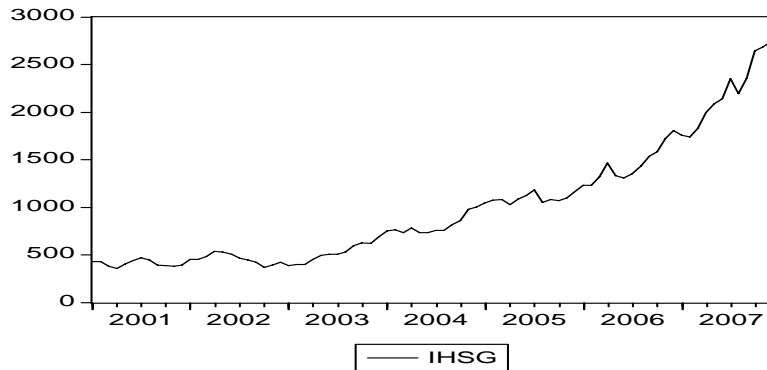


LAMPIRAN

Lampiran 1: Grafik dan hasil uji *unit root* (stasioneritas) pada level data

IHSG

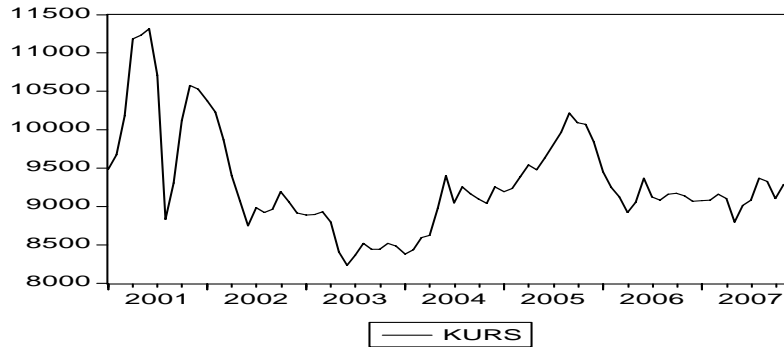


Null Hypothesis: IHSG has a unit root
Exogenous: Constant, Linear Trend
Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	0.423342	0.9989
Test critical values: 1% level	-4.072415	
5% level	-3.464865	
10% level	-3.158974	

*MacKinnon (1996) one-sided p-values.

KURS

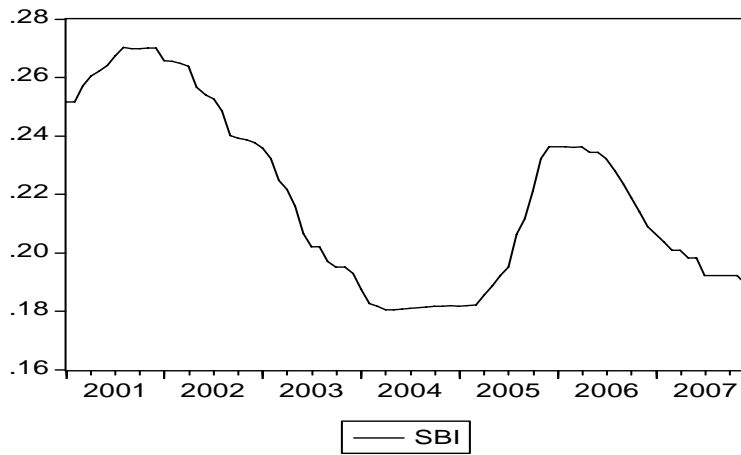


Null Hypothesis: KURS has a unit root
Exogenous: Constant, Linear Trend
Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-2.381871	0.3862
Test critical values: 1% level	-4.072415	
5% level	-3.464865	
10% level	-3.158974	

*MacKinnon (1996) one-sided p-values.

SBI

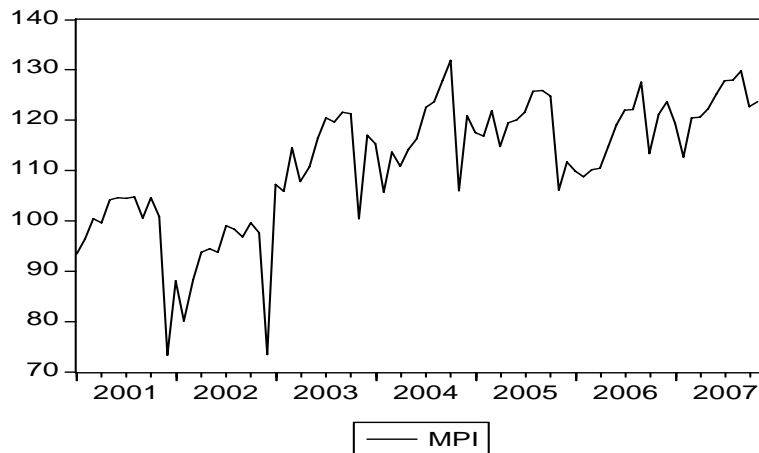


Null Hypothesis: SBI has a unit root
Exogenous: Constant, Linear Trend
Lag Length: 3 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-2.553819	0.3023
Test critical values: 1% level	-4.076860	
5% level	-3.466966	
10% level	-3.160198	

*MacKinnon (1996) one-sided p-values.

MPI

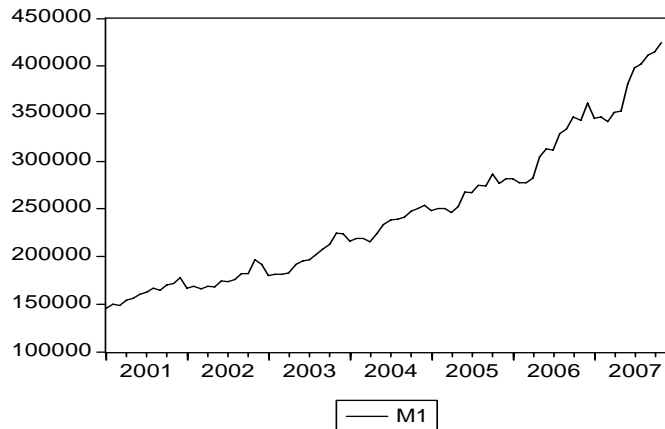


Null Hypothesis: MPI has a unit root
Exogenous: Constant, Linear Trend
Lag Length: 1 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-3.332475	0.0684
Test critical values: 1% level	-4.075340	
5% level	-3.466248	
10% level	-3.159780	

*MacKinnon (1996) one-sided p-values.

M1



Null Hypothesis: M1 has a unit root

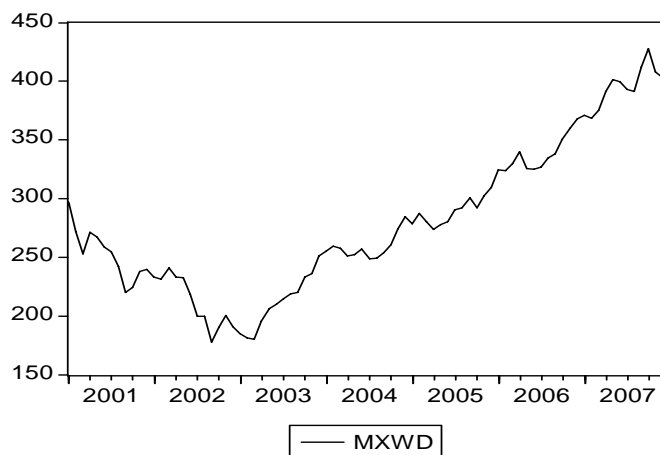
Exogenous: Constant

Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	1.962914	0.9998
Test critical values: 1% level	-3.512290	
5% level	-2.897223	
10% level	-2.585861	

*MacKinnon (1996) one-sided p-values.

MXWD



Null Hypothesis: MXWD has a unit root
Exogenous: Constant, Linear Trend
Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-3.219188	0.0878
Test critical values: 1% level	-4.072415	
5% level	-3.464865	
10% level	-3.158974	

*MacKinnon (1996) one-sided p-values.

Lampiran 2: Hasil uji *unit root* (stasioneritas) setelah penurunan derajat pertama

DL_IHSG

Null Hypothesis: DL_IHSG has a unit root

Exogenous: Constant, Linear Trend

Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-7.867171	0.0000
Test critical values: 1% level	-4.072415	
5% level	-3.464865	
10% level	-3.158974	

*MacKinnon (1996) one-sided p-values.

DL_KURS

Null Hypothesis: DL_KURS has a unit root

Exogenous: Constant, Linear Trend

Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-7.452129	0.0000
Test critical values: 1% level	-4.072415	
5% level	-3.464865	
10% level	-3.158974	

*MacKinnon (1996) one-sided p-values.

D_SBI

Null Hypothesis: D_SBI has a unit root

Exogenous: Constant, Linear Trend

Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-3.917150	0.0156
Test critical values: 1% level	-4.073859	
5% level	-3.465548	
10% level	-3.159372	

*MacKinnon (1996) one-sided p-values.

DL_MPI

Null Hypothesis: DL_MPI has a unit root

Exogenous: Constant, Linear Trend

Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-14.30557	0.0000
Test critical values: 1% level	-4.075340	
5% level	-3.466248	
10% level	-3.159780	

*MacKinnon (1996) one-sided p-values.

DL_M1

Null Hypothesis: DL_M1 has a unit root

Exogenous: Constant

Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-11.47058	0.0001
Test critical values: 1% level	-3.512290	
5% level	-2.897223	
10% level	-2.585861	

DL_MXWD

Null Hypothesis: DL_MXWD has a unit root

Exogenous: Constant, Linear Trend

Lag Length: 0 (Automatic based on SIC, MAXLAG=11)

	t-Statistic	Prob.*
Augmented Dickey-Fuller test statistic	-8.359149	0.0000
Test critical values: 1% level	-4.072415	
5% level	-3.464865	
10% level	-3.158974	

*MacKinnon (1996) one-sided p-values.

Lampiran 3: Output VAR

Vector Autoregression Estimates

Date: 04/16/08 Time: 02:23

Sample(adjusted): 2001:04 2007:11

Included observations: 80 after adjusting endpoints

Standard errors in () & t-statistics in []

	DL_IHSG	DL_KURS	D_SBI	DL_MPI	DL_M1	DL_MXWD
DL_IHSG(-1)	-0.043758 (0.13792) [-0.31728]	-0.092963 (0.09562) [-0.97222]	-0.005518 (0.00682) [-0.80955]	0.227785 (0.19740) [1.15391]	0.019274 (0.06350) [0.30352]	0.025226 (0.08740) [0.28862]
DL_IHSG(-2)	-0.164795 (0.11330) [-1.45453]	0.039921 (0.07855) [0.50822]	0.005019 (0.00560) [0.89634]	0.161184 (0.16217) [0.99395]	0.049960 (0.05217) [0.95770]	0.107466 (0.07180) [1.49676]
DL_KURS(-1)	0.272565 (0.17088) [1.59502]	0.280088 (0.11848) [2.36410]	0.014214 (0.00845) [1.68284]	-0.036720 (0.24459) [-0.15013]	0.116206 (0.07868) [1.47692]	0.337673 (0.10829) [3.11814]
DL_KURS(-2)	-0.001666 (0.18143) [-0.00918]	-0.189993 (0.12579) [-1.51041]	-0.003873 (0.00897) [-0.43187]	-0.216839 (0.25969) [-0.83499]	-0.106482 (0.08354) [-1.27465]	-0.449083 (0.11498) [-3.90582]
D_SBI(-1)	2.709034 (2.59659) [1.04331]	-2.630980 (1.80024) [-1.46146]	0.490120 (0.12834) [3.81895]	-1.457683 (3.71655) [-0.39221]	-0.378296 (1.19556) [-0.31642]	1.053063 (1.64551) [0.63996]
D_SBI(-2)	-3.305251 (2.50305) [-1.32049]	4.041603 (1.73539) [2.32894]	0.245548 (0.12372) [1.98477]	-0.111734 (3.58267) [-0.03119]	0.374164 (1.15249) [0.32466]	-0.947345 (1.58624) [-0.59723]
DL_MPI(-1)	-0.011784 (0.08326) [-0.14152]	-0.046240 (0.05773) [-0.80102]	0.001227 (0.00412) [0.29811]	-0.622988 (0.11918) [-5.22748]	0.084826 (0.03834) [2.21263]	-0.018735 (0.05277) [-0.35506]
DL_MPI(-2)	-0.096005 (0.08420) [-1.14016]	-0.001102 (0.05838) [-0.01888]	0.001445 (0.00416) [0.34720]	-0.229581 (0.12052) [-1.90489]	0.078038 (0.03877) [2.01285]	0.027834 (0.05336) [0.52161]
DL_M1(-1)	-0.004074 (0.24726) [-0.01648]	-0.012484 (0.17143) [-0.07282]	-0.003986 (0.01222) [-0.32618]	-0.134492 (0.35391) [-0.38001]	-0.063752 (0.11385) [-0.55997]	-0.021530 (0.15670) [-0.13740]
DL_M1(-2)	-0.400911 (0.23643) [-1.69568]	0.004548 (0.16392) [0.02775]	0.022129 (0.01169) [1.89367]	-0.221544 (0.33841) [-0.65466]	0.225628 (0.10886) [2.07263]	0.108627 (0.14983) [0.72500]
DL_MXWD(-1)	0.740558 (0.18962) [3.90549]	0.228598 (0.13147) [1.73885]	-0.001214 (0.00937) [-0.12954]	-0.562910 (0.27141) [-2.07404]	0.209365 (0.08731) [2.39801]	0.196840 (0.12017) [1.63806]
DL_MXWD(-2)	0.276655 (0.21711)	-0.188733 (0.15052)	-0.003249 (0.01073)	-0.499568 (0.31075)	-0.268236 (0.09996)	-0.175444 (0.13759)

	[1.27427]	[-1.25385]	[-0.30277]	[-1.60761]	[-2.68333]	[-1.27516]
C	0.028159 (0.00859) [3.27847]	0.004332 (0.00595) [0.72753]	-0.000499 (0.00042) [-1.17631]	0.006151 (0.01229) [0.50033]	0.008836 (0.00395) [2.23421]	0.001974 (0.00544) [0.36264]
R-squared	0.350271	0.173046	0.540825	0.338781	0.289898	0.272060
Adj. R-squared	0.233901	0.024935	0.458585	0.220354	0.162716	0.141682
Sum sq. resids	0.202374	0.097277	0.000494	0.414600	0.042903	0.081274
S.E. equation	0.054959	0.038104	0.002716	0.078664	0.025305	0.034829
F-statistic	3.009987	1.168350	6.576163	2.860670	2.279389	2.086711
Log likelihood	125.6714	154.9738	366.2537	96.98361	187.7182	162.1631
Akaike AIC	-2.816786	-3.549345	-8.831342	-2.099590	-4.367955	-3.729077
Schwarz SC	-2.429706	-3.162266	-8.444262	-1.712511	-3.980876	-3.341998
Mean dependent	0.024422	0.002502	-0.000811	0.002595	0.013138	0.005971
S.D. dependent	0.062791	0.038588	0.003692	0.089090	0.027655	0.037594
Determinant Residual Covariance		9.88E-20				
Log Likelihood (d.f. adjusted)		1069.339				
Akaike Information Criteria		-24.78348				
Schwarz Criteria		-22.46101				

Lampiran 4: Pengujian lag optimal

VAR Lag Order Selection Criteria

Endogenous variables: DL_IHSG DL_KURS D_SBI DL_MPI DL_M1 DL_MXWD

Exogenous variables: C

Date: 04/16/08 Time: 02:45

Sample: 2001:01 2007:12

Included observations: 77

Lag	LogL	LR	FPE	AIC	SC	HQ
0	973.8106	NA	4.87E-19	-25.13794	-24.95530*	-25.06489
1	1039.488	119.4126	2.26E-19*	-25.90877*	-24.63033	-25.39740*
2	1074.740	58.60187	2.34E-19	-25.88936	-23.51511	-24.93968
3	1110.960	54.56551*	2.43E-19	-25.89508	-22.42503	-24.50709
4	1139.787	38.93421	3.19E-19	-25.70875	-21.14289	-23.88244
5	1168.299	34.06673	4.47E-19	-25.51426	-19.85260	-23.24965

* indicates lag order selected by the criterion

LR: sequential modified LR test statistic (each test at 5% level)

FPE: Final prediction error

AIC: Akaike information criterion

SC: Schwarz information criterion

HQ: Hannan-Quinn information criterion

Lampiran 5: Pengujian AR roots table

Roots of Characteristic Polynomial

Endogenous variables: DL_IHSG DL_KURS D_SBI
DL_MPI DL_M1 DL_MXWD

Exogenous variables: C

Lag specification: 1 2

Date: 06/10/08 Time: 23:07

Root	Modulus
0.818394	0.818394
0.189223 + 0.619770i	0.648013
0.189223 - 0.619770i	0.648013
-0.575866	0.575866
-0.258983 + 0.466166i	0.533275
-0.258983 - 0.466166i	0.533275
-0.410404 + 0.290965i	0.503083
-0.410404 - 0.290965i	0.503083
0.405629 + 0.135556i	0.427680
0.405629 - 0.135556i	0.427680
0.071545 - 0.375946i	0.382694
0.071545 + 0.375946i	0.382694

No root lies outside the unit circle.

VAR satisfies the stability condition.

Lampiran 6: Hasil pengujian *Johansen Cointegration Test*

Date: 04/16/08 Time: 14:10

Sample: 2001:01 2007:12

Included observations: 81

Series: IHSG KURS SBI MPI M1 MXWD

Lags interval: 1 to 1

Data Trend:	None	None	Linear	Linear	Quadratic
Rank or No. of CEs	No Intercept No Trend	Intercept No Trend	Intercept No Trend	Intercept Trend	Intercept Trend
Selected (5% level) Number of Cointegrating Relations by Model (columns)					
Trace	2	3	3	3	2
Max-Eig	1	1	0	0	0

Lampiran 7: Output VECM

Vector Error Correction Estimates

Date: 04/18/08 Time: 12:11

Sample(adjusted): 2001:03 2007:11

Included observations: 81 after adjusting endpoints

Standard errors in () & t-statistics in []

Cointegrating Eq: CointEq1	
IHSG(-1)	1.000000
KURS(-1)	-0.441416 (0.08807) [-5.01233]
SBI(-1)	8040.378 (2005.83) [4.00851]
MPI(-1)	18.30503 (5.45890) [3.35324]
M1(-1)	-0.008629 (0.00157) [-5.48984]
MXWD(-1)	0.211285 (1.62922) [0.12968]
C	1391.203
Error Correction:	D(IHSG) D(KURS) D(SBI) D(MPI) D(M1) D(MXWD)
CointEq1	-0.007319 0.601210 -2.07E-06 -0.004059 14.33429 0.001387 (0.03580) (0.15912) (1.5E-06) (0.00433) (3.61660) (0.00521) [-0.20443] [3.77824] [-1.39271] [-0.93671] [3.96347] [0.26643]
D(IHSG(-1))	-0.072887 0.020242 8.29E-06 0.007774 12.03959 -0.009955 (0.12956) (0.57580) (5.4E-06) (0.01568) (13.0869) (0.01884) [-0.56258] [0.03516] [1.54270] [0.49572] [0.91998] [-0.52842]
D(KURS(-1))	0.007711 0.429922 1.34E-06 6.19E-05 6.132085 0.008858 (0.02485) (0.11043) (1.0E-06) (0.00301) (2.50991) (0.00361) [0.31033] [3.89310] [1.29978] [0.02060] [2.44315] [2.45162]
D(SBI(-1))	1030.433 14158.04 0.626025 -359.2145 430515.5 -54.46041 (2324.89) (10332.6) (0.09638) (281.409) (234842.) (338.049) [0.44322] [1.37022] [6.49545] [-1.27649] [1.83322] [-0.16110]
D(MPI(-1))	0.327731 -7.385190 3.76E-05 -0.425387 -9.873743 -0.052419 (0.93127) (4.13890) (3.9E-05) (0.11272) (94.0695) (0.13541) [0.35192] [-1.78434] [0.97361] [-3.77375] [-0.10496] [-0.38711]

D(M1(-1))	0.001165 (0.00102) [1.13979]	0.000933 (0.00454) [0.20522]	-2.44E-08 (4.2E-08) [-0.57532]	-5.42E-05 (0.00012) [-0.43811]	-0.138636 (0.10329) [-1.34220]	-4.20E-05 (0.00015) [-0.28248]
D(MXWD(-1))	2.664111 (0.85504) 3.11576	-10.36247 (3.80013) -2.72687	-7.43E-05 (3.5E-05) -2.09696	-0.184010 (0.10350) [-1.77794]	116.4981 (86.3698) [1.34883]	0.171026 (0.12433) [1.37561]
C	22.40408 (8.69692) [2.57609]	23.27004 (38.6523) [0.60204]	-0.000308 (0.00036) [-0.85341]	0.489782 (1.05269) [0.46527]	3682.324 (878.494) [4.19163]	1.838490 (1.26457) [1.45384]
R-squared	0.160749	0.302559	0.517048	0.244804	0.254729	0.121625
Adj. R-squared	0.080273	0.235681	0.470738	0.172388	0.183265	0.037397
Sum sq. resids	313417.7	6190742.	0.000539	4591.929	3.20E+09	6626.418
S.E. equation	65.52398	291.2124	0.002716	7.931150	6618.716	9.527479
F-statistic	1.997471	4.524048	11.16484	3.380527	3.564420	1.444001
Log likelihood	-449.4982	-570.3207	367.8642	-278.4571	-823.3326	-293.3110
Akaike AIC	11.29625	14.27952	-8.885537	7.073014	20.52673	7.439778
Schwarz SC	11.53274	14.51601	-8.649048	7.309503	20.76322	7.676267
Mean dependent	27.90160	-4.827160	-0.000734	0.335889	3389.580	1.680617
S.D. dependent	68.32360	333.0984	0.003734	8.718120	7323.742	9.710787
Determinant Residual Covariance		4.19E+14				
Log Likelihood		-2027.942				
Log Likelihood (d.f. adjusted)		-2053.212				
Akaike Information Criteria		52.02992				
Schwarz Criteria		53.62622				

Lampiran 8: Representasi persamaan VECM

Estimation Proc:

=====
EC(C,1) 1 1 IHSG KURS SBI MPI M1 MXWD

VAR Model:

=====
D(IHSG) = A(1,1)*(B(1,1)*IHSG(-1) + B(1,2)*KURS(-1) + B(1,3)*SBI(-1) + B(1,4)*MPI(-1) + B(1,5)*M1(-1) + B(1,6)*MXWD(-1) + B(1,7)) + C(1,1)*D(IHSG(-1)) + C(1,2)*D(KURS(-1)) + C(1,3)*D(SBI(-1)) + C(1,4)*D(MPI(-1)) + C(1,5)*D(M1(-1)) + C(1,6)*D(MXWD(-1)) + C(1,7)

D(KURS) = A(2,1)*(B(1,1)*IHSG(-1) + B(1,2)*KURS(-1) + B(1,3)*SBI(-1) + B(1,4)*MPI(-1) + B(1,5)*M1(-1) + B(1,6)*MXWD(-1) + B(1,7)) + C(2,1)*D(IHSG(-1)) + C(2,2)*D(KURS(-1)) + C(2,3)*D(SBI(-1)) + C(2,4)*D(MPI(-1)) + C(2,5)*D(M1(-1)) + C(2,6)*D(MXWD(-1)) + C(2,7)

D(SBI) = A(3,1)*(B(1,1)*IHSG(-1) + B(1,2)*KURS(-1) + B(1,3)*SBI(-1) + B(1,4)*MPI(-1) + B(1,5)*M1(-1) + B(1,6)*MXWD(-1) + B(1,7)) + C(3,1)*D(IHSG(-1)) + C(3,2)*D(KURS(-1)) + C(3,3)*D(SBI(-1)) + C(3,4)*D(MPI(-1)) + C(3,5)*D(M1(-1)) + C(3,6)*D(MXWD(-1)) + C(3,7)

D(MPI) = A(4,1)*(B(1,1)*IHSG(-1) + B(1,2)*KURS(-1) + B(1,3)*SBI(-1) + B(1,4)*MPI(-1) + B(1,5)*M1(-1) + B(1,6)*MXWD(-1) + B(1,7)) + C(4,1)*D(IHSG(-1)) + C(4,2)*D(KURS(-1)) + C(4,3)*D(SBI(-1)) + C(4,4)*D(MPI(-1)) + C(4,5)*D(M1(-1)) + C(4,6)*D(MXWD(-1)) + C(4,7)

D(M1) = A(5,1)*(B(1,1)*IHSG(-1) + B(1,2)*KURS(-1) + B(1,3)*SBI(-1) + B(1,4)*MPI(-1) + B(1,5)*M1(-1) + B(1,6)*MXWD(-1) + B(1,7)) + C(5,1)*D(IHSG(-1)) + C(5,2)*D(KURS(-1)) + C(5,3)*D(SBI(-1)) + C(5,4)*D(MPI(-1)) + C(5,5)*D(M1(-1)) + C(5,6)*D(MXWD(-1)) + C(5,7)

D(MXWD) = A(6,1)*(B(1,1)*IHSG(-1) + B(1,2)*KURS(-1) + B(1,3)*SBI(-1) + B(1,4)*MPI(-1) + B(1,5)*M1(-1) + B(1,6)*MXWD(-1) + B(1,7)) + C(6,1)*D(IHSG(-1)) + C(6,2)*D(KURS(-1)) + C(6,3)*D(SBI(-1)) + C(6,4)*D(MPI(-1)) + C(6,5)*D(M1(-1)) + C(6,6)*D(MXWD(-1)) + C(6,7)

VAR Model - Substituted Coefficients:

=====
D(IHSG) = - 0.007319448895*(IHSG(-1) - 0.4414164797*KURS(-1) + 8040.378455*SBI(-1) + 18.30502805*MPI(-1) - 0.008628590276*M1(-1) + 0.2112853854*MXWD(-1) + 1391.203129) - 0.07288654533*D(IHSG(-1)) + 0.007710851936*D(KURS(-1)) + 1030.432919*D(SBI(-1)) + 0.3277311329*D(MPI(-1)) + 0.001165493311*D(M1(-1)) + 2.664110958*D(MXWD(-1)) + 22.40407563

D(KURS) = 0.6012097855*(IHSG(-1) - 0.4414164797*KURS(-1) + 8040.378455*SBI(-1) + 18.30502805*MPI(-1) - 0.008628590276*M1(-1) + 0.2112853854*MXWD(-1) + 1391.203129) + 0.02024234757*D(IHSG(-1)) + 0.4299224554*D(KURS(-1)) + 14158.03676*D(SBI(-1)) - 7.385189697*D(MPI(-1)) + 0.0009326481379*D(M1(-1)) - 10.36246532*D(MXWD(-1)) + 23.27003585

D(SBI) = - 2.067136265e-06*(IHSG(-1) - 0.4414164797*KURS(-1) + 8040.378455*SBI(-1) + 18.30502805*MPI(-1) - 0.008628590276*M1(-1) + 0.2112853854*MXWD(-1) + 1391.203129) + 8.285606912e-06*D(IHSG(-1)) + 1.338857992e-06*D(KURS(-1)) + 0.6260249653*D(SBI(-1)) + 3.758734814e-05*D(MPI(-1)) - 2.438774806e-08*D(M1(-1)) - 7.432899462e-05*D(MXWD(-1)) - 0.000307684438

D(MPI) = - 0.004059446552*(IHSG(-1) - 0.4414164797*KURS(-1) + 8040.378455*SBI(-1) + 18.30502805*MPI(-1) - 0.008628590276*M1(-1) + 0.2112853854*MXWD(-1) + 1391.203129) + 0.007773819887*D(IHSG(-1)) + 6.194266201e-05*D(KURS(-1)) - 359.214461*D(SBI(-1)) - 0.4253866618*D(MPI(-1)) - 5.422543804e-05*D(M1(-1)) - 0.184009813*D(MXWD(-1)) + 0.4897822771

$$D(M1) = 14.334291*(IHSG(-1) - 0.4414164797*KURS(-1) + 8040.378455*SBI(-1) + 18.30502805*MPI(-1) - 0.008628590276*M1(-1) + 0.2112853854*MXWD(-1) + 1391.203129) + 12.03959117*D(IHSG(-1)) + 6.132084757*D(KURS(-1)) + 430515.5288*D(SBI(-1)) - 9.873743349*D(MPI(-1)) - 0.1386357251*D(M1(-1)) + 116.4980883*D(MXWD(-1)) + 3682.323885$$

$$D(MXWD) = 0.001387029711*(IHSG(-1) - 0.4414164797*KURS(-1) + 8040.378455*SBI(-1) + 18.30502805*MPI(-1) - 0.008628590276*M1(-1) + 0.2112853854*MXWD(-1) + 1391.203129) - 0.009954510867*D(IHSG(-1)) + 0.00885758732*D(KURS(-1)) - 54.46041285*D(SBI(-1)) - 0.05241944685*D(MPI(-1)) - 4.199979792e-05*D(M1(-1)) + 0.1710262516*D(MXWD(-1)) + 1.838490069$$