ภาคผนวก

ภาคผนวก ก

ตารางแสดงค่า Mackinnon Critical Value of Unit Root test ที่ level

Lag 4

Critical Value(%)	none	with C	with C & T
1%	-2.5723	-3.4534	-3.9914
5%	-1.9406	-2.8711	-3.4259
10%	-1.6162	-2.5718	-3.1358

Lag 3

Critical Value(%)	nonoe	with C	with C & T
1%	-2.5722	-3.4533	-3.9913
5%	-1.9406	-2.8710	-3.4259
10%	-1.6162	-2.5718	-3.1358

Lag 2

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5722	-3.4533	-3.9912
5%	-1.9406	-2.8710	-3.4259
10%	-1.6162	-2.5718	-3.1358

Lag 1

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5722	-3.4532	-3.9911
5%	-1.9406	-2.8710	-3.4259
10%	-1.6162	-2.5718	-3.1358

Lag 0

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5722	-3.4531	-3.9911
5%	-1.9406	-2.8710	-3.4259
10%	-1.6162	-2.5718	-3.1358

ที่มา: ผลจากการคำนวณของ โปรแกรม Eviews 3.1

ตารางแสดงค่า Mackinnon Critical Value of Unit Root test ที่ first difference

Lag 4

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5723	-3.4535	-3.9915
5%	-1.9406	-2.8711	-3.4259
10%	-1.6162	-2.5718	-3.1359

Lag 3

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5723	-3.4535	-3.9914
5%	-1.9406	-2.8711	-3.4259
10%	-1.6162	-2.5718	-3.1358

Lag 2

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5723	-3.4533	-3.9913
5%	-1.9406	-2.8710	-3.4259
10%	-1.6162	-2.5718	-3.1358

Lag 1

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5723	-3.4533	-3.9912
5%	-1.9406	-2.8710	-3.4258
10%	-1.6162	-2.5718	-3.1358

Lag 0

Critical Value(%)	without C&T	with C but without T	with C & T
1%	-2.5723	-3.4532	-3.9911
5%	-1.9406	-2.8710	-3.4258
10%	-1.6162	-2.5718	-3.1358

ที่มา: ผลจากการคำนวณของ โปรแกรม Eviews 3.1

ภาคผนวก ข

ผลการทดสอบการร่วมกันไปด้วยกัน (Cointegration)

ในกรณีราคาเป็นตัวแปรตามและปริมาณเป็นตัวแปรอิสระ

หลักทรัพย์ PTT

Dependent Variable: PRICE

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.098889	0.414966	0.238306	0.8120
VOLUME	0.326056	0.077160	4.225737	0.0000

R-squared	0.101542	Mean dependent var	1.850093
Adjusted R-squared	0.095856	S.D. dependent var	0.284638
S.E. of regression	0.270652	Akaike info criterion	0.236458
Sum squared resid	11.57393	Schwarz criterion	0.274898
Log likelihood	-16.91664	F-statistic	17.85685
Durbin-Watson stat	0.089733	Prob(F-statistic)	0.000040

หลักทรัพย์ PTTEP

Dependent Variable: PRICE

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.994871	0.138475	14.40596	0.0000
VOLUME	0.034217	0.030360	1.127019	0.2606

R-squared	0.004068	Mean dependent var	2.150639
Adjusted R-squared	0.000865	S.D. dependent var	0.150993
S.E. of regression	0.150927	Akaike info criterion	-0.937669
Sum squared resid	7.084279	Schwarz criterion	-0.913731
Log likelihood	148.7451	F-statistic	1.270171
Durbin-Watson stat	0.024691	Prob(F-statistic)	0.260603

หลักทรัพย์ RATCH

Dependent Variable: PRICE

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.886656	0.157385	5.633677	0.0000
VOLUME	0.094003	0.031974	2.940017	0.0036

R-squared	0.038649	Mean dependent var	1.348132
Adjusted R-squared	0.034178	S.D. dependent var	0.172506
S.E. of regression	0.169532	Akaike info criterion	-0.702371
Sum squared resid	6.179370	Schwarz criterion	-0.671220
Log likelihood	78.20723	F-statistic	8.643697
Durbin-Watson stat	0.030786	Prob(F-statistic)	0.003641

หลักทรัพย์ BANPU

Dependent Variable: PRICE

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.413042	0.198420	-2.081655	0.0382
VOLUME	0.424399	0.042150	10.06880	0.0000

R-squared	0.245842	Mean dependent var	1.579355
Adjusted R-squared	0.243418	S.D. dependent var	0.297955
S.E. of regression	0.259167	Akaike info criterion	0.143678
Sum squared resid	20.88905	Schwarz criterion	0.167616
Log likelihood	-20.48568	F-statistic	101.3807
Durbin-Watson stat	0.197549	Prob(F-statistic)	0.000000

หลักทรัพย์ BCP

Dependent Variable: PRICE

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.594062	0.094956	6.256155	0.0000
VOLUME	0.030367	0.019362	1.568398	0.1178

R-squared	0.007847	Mean dependent var	0.741590
Adjusted R-squared	0.004657	S.D. dependent var	0.230446
S.E. of regression	0.229909	Akaike info criterion	-0.095895
Sum squared resid	16.43892	Schwarz criterion	-0.071958
Log likelihood	17.00760	F-statistic	2.459872
Durbin-Watson stat	0.026758	Prob(F-statistic)	0.117805

ในกรณีราคาเป็นตัวแปรอิสระและปริมาณเป็นตัวแปรตาม

หลักทรัพย์ PTT

Dependent Variable: VOLUME

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.794709	0.137941	34.75912	0.0000
PRICE	0.311425	0.073697	4.225737	0.0000
R-squared	0.101542	Mean dependent var		5.370875
Adjusted R-squared	0.095856	S.D. dependent var		0.278179
S.E. of regression	0.264510	Akaike info criterion		0.190549
Sum squared resid	11.05459	Schwarz criterion		0.228988
Log likelihood	-13.24389	F-statistic		17.85685
Durbin-Watson stat	0.869195	Prob(F-statistic)		0.000040

หลักทรัพย์ PTTEP

Dependent Variable: VOLUME

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.296744	0.227402	18.89489	0.0000
PRICE	0.118876	0.105478	1.127019	0.2606
R-squared	0.004068	Mean dependent var		4.552403
Adjusted R-squared	0.000865	S.D. dependent var		0.281439
S.E. of regression	0.281317	Akaike info criterion		0.307701
Sum squared resid	24.61234	Schwarz criterion		0.331639
Log likelihood	-46.15524	F-statistic		1.270171
Durbin-Watson stat	0.841394	Prob(F-statistic)		0.260603

หลักทรัพย์ RATCH

Dependent Variable: VOLUME

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.354860	0.190061	22.91296	0.0000
PRICE	0.411150	0.139846	2.940017	0.0036
R-squared	0.038649	Mean dependent var		4.909144
Adjusted R-squared	0.034178	S.D. dependent var		0.360772
S.E. of regression	0.354553	Akaike info criterion		0.773257
Sum squared resid	27.02721	Schwarz criterion		0.804408
Log likelihood	-81.89837	F-statistic		8.643697
Durbin-Watson stat	0.698864	Prob(F-statistic)		0.003641

หลักทรัพย์ BANPU

Dependent Variable: VOLUME

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	3.779752	0.092460	40.87978	0.0000
PRICE	0.579272	0.057531	10.06880	0.0000

R-squared	0.245842	Mean dependent var	4.694627
Adjusted R-squared	0.243418	S.D. dependent var	0.348101
S.E. of regression	0.302784	Akaike info criterion	0.454775
Sum squared resid	28.51191	Schwarz criterion	0.478713
Log likelihood	-69.17232	F-statistic	101.3807
Durbin-Watson stat	0.844915	Prob(F-statistic)	0.000000

หลักทรัพย์ BCP

Dependent Variable: VOLUME

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	4.666600	0.127938	36.47557	0.0000
PRICE	0.258425	0.164770	1.568398	0.1178

R-squared	0.007847	Mean dependent var	4.858246
Adjusted R-squared	0.004657	S.D. dependent var	0.672264
S.E. of regression	0.670697	Akaike info criterion	2.045369
Sum squared resid	139.8983	Schwarz criterion	2.069307
Log likelihood	-318.1003	F-statistic	2.459872
Durbin-Watson stat	0.385329	Prob(F-statistic)	0.117805

ภาคผนวก ค

ผลการทดสอบของส่วนที่เหลือ (Residual) จากสมการถดถอยในการทดสอบการร่วมกันไปด้วยกัน โดยการทดสอบยูนิทรูท (Unit Root) ด้วยวิธีการ Augmented Dicky Fuller Residual

ในกรณีราคาเป็นตัวแปรอิสระและปริมาณเป็นตัวแปรตาม

หลักทรัพย์ PTT

ADF Test Statistic	-7.626609	1% Critical Value*	-2.5785
		5% Critical Value	-1.9418
		10% Critical Value	-1.6167

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.484845	0.063573	-7.626609	0.0000

R-squared	0.268278	Mean dependent var	-0.008124
Adjusted R-squared	0.268278	S.D. dependent var	0.246470
S.E. of regression	0.210832	Akaike info criterion	-0.269238
Sum squared resid	7.023139	Schwarz criterion	-0.249937
Log likelihood	22.40445	Durbin-Watson stat	2.190011

หลักทรัพย์ PTTEP

ADF Test Statistic	-9.338343	1% Critical Value*	-2.5722
		5% Critical Value	-1.9406
		10% Critical Value	-1.6162

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.429286	0.045970	-9.338343	0.0000

R-squared	0.218952	Mean dependent var	0.001897
Adjusted R-squared	0.218952	S.D. dependent var	0.258038
S.E. of regression	0.228046	Akaike info criterion	-0.115336
Sum squared resid	16.17359	Schwarz criterion	-0.103339
Log likelihood	18.99242	Durbin-Watson stat	2.197789

หลักทรัพย์ RATCH

ADF Test Statistic	-9.338343	1% Critical Value*	-2.5722
		5% Critical Value	-1.9406
		10% Critical Value	-1.6162

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.429286	0.045970	-9.338343	0.0000

R-squared	0.218952	Mean dependent var	0.001897
Adjusted R-squared	0.218952	S.D. dependent var	0.258038
S.E. of regression	0.228046	Akaike info criterion	-0.115336
Sum squared resid	16.17359	Schwarz criterion	-0.103339
Log likelihood	18.99242	Durbin-Watson stat	2.197789

หลักทรัพย์ BANPU

ADF Test Statistic	-9.220258	1% Critical Value*	-2.5722
		5% Critical Value	-1.9406
		10% Critical Value	-1.6162

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.426223	0.046227	-9.220258	0.0000

R-squared	0.214666	Mean dependent var	0.000829
Adjusted R-squared	0.214666	S.D. dependent var	0.278316
S.E. of regression	0.246641	Akaike info criterion	0.041433
Sum squared resid	18.91866	Schwarz criterion	0.053429
Log likelihood	-5.463482	Durbin-Watson stat	2.006583

หลักทรัพย์ BCP

ADF Test Statistic	-5.745398	1% Critical Value*	-2.5722
		5% Critical Value	-1.9406
		10% Critical Value	-1.6162

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.192462	0.033498	-5.745398	0.0000

R-squared	0.095954	Mean dependent var	-0.000604
Adjusted R-squared	0.095954	S.D. dependent var	0.416334
S.E. of regression	0.395856	Akaike info criterion	0.987666
Sum squared resid	48.73427	Schwarz criterion	0.999663
Log likelihood	-153.0760	Durbin-Watson stat	2.225222

ในกรณีปริมาณเป็นตัวแปรอิสระและราคาเป็นตัวแปรตาม

หลักทรัพย์ PTT

ADF Test Statistic	-2.290756	1% Critical Value*	-2.5785
		5% Critical Value	-1.9418
		10% Critical Value	-1.6167

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.054133	0.023631	-2.290756	0.0233

R-squared	0.025774	Mean dependent var	0.006536
Adjusted R-squared	0.025774	S.D. dependent var	0.080810
S.E. of regression	0.079761	Akaike info criterion	-2.213285
Sum squared resid	1.005177	Schwarz criterion	-2.193984
Log likelihood	176.9562	Durbin-Watson stat	2.652071

หลักทรัพย์ PTTEP

ADF Test Statistic	-0.620129	1% Critical Value*	-2.5722
		5% Critical Value	-1.9406
		10% Critical Value	-1.6162

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.005561	0.008967	-0.620129	0.5356

R-squared	-0.000805	Mean dependent var	0.001069
Adjusted R-squared	-0.000805	S.D. dependent var	0.023692
S.E. of regression	0.023701	Akaike info criterion	-4.643392
Sum squared resid	0.174702	Schwarz criterion	-4.631395
Log likelihood	725.3692	Durbin-Watson stat	2.196829

หลักทรัพย์ RATCH

ADF Test Statistic	-1.625803	1% Critical Value*	-2.5751
		5% Critical Value	-1.9411
		10% Critical Value	-1.6164

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.019431	0.011952	-1.625803	0.1055

R-squared	0.004172	Mean dependent var	0.002655
Adjusted R-squared	0.004172	S.D. dependent var	0.029627
S.E. of regression	0.029565	Akaike info criterion	-4.199830
Sum squared resid	0.187930	Schwarz criterion	-4.184204
Log likelihood	454.5816	Durbin-Watson stat	2.765793

หลักทรัพย์ BANPU

ADF Test Statistic	-3.743861	1% Critical Value*	-2.5722
		5% Critical Value	-1.9406
		10% Critical Value	-1.6162

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.092973	0.024833	-3.743861	0.0002

R-squared	0.042941	Mean dependent var	0.001596
Adjusted R-squared	0.042941	S.D. dependent var	0.115179
S.E. of regression	0.112679	Akaike info criterion	-1.525342
Sum squared resid	3.948652	Schwarz criterion	-1.513345
Log likelihood	238.9533	Durbin-Watson stat	2.340104

หลักทรัพย์ BCP

ADF Test Statistic	-0.908892	1% Critical Value*	-2.5722
		5% Critical Value	-1.9406
		10% Critical Value	-1.6162

*MacKinnon critical values for rejection of hypothesis of a unit root.
Augmented Dickey-Fuller Test Equation
Dependent Variable: D(RESID01)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
RESID01(-1)	-0.008462	0.009310	-0.908892	0.3641

R-squared	0.001205	Mean dependent var	0.001428
Adjusted R-squared	0.001205	S.D. dependent var	0.037581
S.E. of regression	0.037558	Akaike info criterion	-3.722656
Sum squared resid	0.438700	Schwarz criterion	-3.710659
Log likelihood	581.7344	Durbin-Watson stat	2.288964

ภาคผนวก ง

ผลการทดสอบความสัมพันธ์เชิงดุลยภาพในระยะสั้น

ในกรณีราคาเป็นตัวแปรอิสระและปริมาณการซื้อขายเป็นตัวแปรตาม

หลักทรัพย์ PTT

Dependent Variable: D(VOLUME)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.016917	0.017353	-0.974883	0.3312
RESID01(-1)	-0.421118	0.097614	-4.314119	0.0000
D(PRICE)	2.110881	0.904034	2.334958	0.0209
D(VOLUME(-1))	-0.187157	0.103344	-1.811014	0.0722
R-squared	0.299702	Mean dependent var		-0.001610
Adjusted R-squared	0.271312	S.D. dependent var		0.245314
S.E. of regression	0.209408	Akaike info criterion		-0.244958
Sum squared resid	6.490034	Schwarz criterion		-0.107513
Log likelihood	25.98423	F-statistic		10.55645
Durbin-Watson stat	2.077539	Prob(F-statistic)		0.000000

หลักทรัพย์ PTTEP

Dependent Variable: D(VOLUME)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.000777	0.013012	0.052046	0.9519
RESID01(-1)	-0.032280	0.086492	-0.373208	0.7093
D(PRICE)	0.892719	0.634198	1.521951	0.1452
D(PRICE(-1))	0.234589	0.634198	1.521951	0.0021
D(VOLUME(-1))	-0.216723	0.058740	-9.079202	0.0002
R-squared	0.223442	Mean dependent var		0.000803
Adjusted R-squared	0.234325	S.D. dependent var		0.256201
S.E. of regression	0.228010	Akaike info criterion		-0.138887
Sum squared resid	15.64860	Schwarz criterion		-0.011612
Log likelihood	21.84357	F-statistic		14.43461
Durbin-Watson stat	2.065092	Prob(F-statistic)		0.000000

หลักทรัพย์ RATCH

Dependent Variable: D(VOLUME)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.014971	0.017617	-0.849773	0.3964
RESID01(-1)	-0.334863	0.055644	-6.017994	0.0000
D(PRICE)	3.315692	1.127086	2.941827	0.0036
D(VOLUME(-1))	-0.188380	0.063787	-2.953288	0.0035

R-squared	0.267331	Mean dependent var	-0.004874
Adjusted R-squared	0.256914	S.D. dependent var	0.296890
S.E. of regression	0.255926	Akaike info criterion	0.130574
Sum squared resid	13.82012	Schwarz criterion	0.193283
Log likelihood	-10.03667	F-statistic	25.66275
Durbin-Watson stat	2.126766	Prob(F-statistic)	0.000000

หลักทรัพย์ BANPU

Dependent Variable: D(VOLUME)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.005241	0.013370	-0.392012	0.6953
RESID01(-1)	-0.430428	0.044747	-9.619086	0.0000
D(PRICE)	3.273368	0.498251	6.569720	0.0000
D(VOLUME(-3))	-0.099150	0.047544	-2.085428	0.0379

R-squared	0.309233	Mean dependent var	0.001892
Adjusted R-squared	0.302439	S.D. dependent var	0.280091
S.E. of regression	0.233932	Akaike info criterion	-0.054712
Sum squared resid	16.69088	Schwarz criterion	-0.006384
Log likelihood	12.45300	F-statistic	45.51281
Durbin-Watson stat	2.087868	Prob(F-statistic)	0.000000

หลักทรัพย์ BCP

Dependent Variable: D(VOLUME)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.006600	0.020454	-0.322675	0.7472
RESID01(-1)	-0.168720	0.032157	-5.246747	0.0000
D(PRICE)	4.155448	0.502447	8.270425	0.0000
D(VOLUME(-1))	-0.145610	0.051247	-2.841306	0.0048

R-squared	0.272323	Mean dependent var	-0.001366
Adjusted R-squared	0.265212	S.D. dependent var	0.420562
S.E. of regression	0.360505	Akaike info criterion	0.810155
Sum squared resid	39.89883	Schwarz criterion	0.858255
Log likelihood	-121.9790	F-statistic	38.29675
Durbin-Watson stat	2.234255	Prob(F-statistic)	0.000000

ในกรณีปริมาณการซื้อขายเป็นตัวแปรอิสระและราคาเป็นตัวแปรตาม

หลักทรัพย์ PTT

Dependent Variable: D(PRICE)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.003779	0.001584	2.386288	0.0124
RESID01(-1)	-0.001135	0.005833	-0.592361	0.0987
D(VOLUME(-2))	0.009844	0.006313	1.353474	0.0872
D(PRICE(-1))	-0.146856	0.080210	0.195317	0.8710
D(PRICE(-2))	0.100587	0.080019	1.951507	0.0696
R-squared	0.036002	Mean dependent var		0.004480
Adjusted R-squared	0.045034	S.D. dependent var		0.018989
S.E. of regression	0.018888	Akaike info criterion		-5.001025
Sum squared resid	0.054228	Schwarz criterion		-4.971893
Log likelihood	402.9342	F-statistic		1.419179
Durbin-Watson stat	2.416644	Prob(F-statistic)		0.230252

หลักทรัพย์ PTTEP

Dependent Variable: D(PRICE)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.001176	0.001220	0.963875	0.3309
RESID01(-1)	-0.001616	0.008289	-0.387988	0.4439
D(VOLUME(-1))	-0.014752	0.004784	-0.522989	0.0035
D(PRICE(-1))	-0.045045	0.057770	-0.949357	0.4023
R-squared	0.005866	Mean dependent var		0.001099
Adjusted R-squared	0.009751	S.D. dependent var		0.021167
S.E. of regression	0.021314	Akaike info criterion		-4.856939
Sum squared resid	0.136740	Schwarz criterion		-4.751664
Log likelihood	751.8116	F-statistic		0.296016
Durbin-Watson stat	2.071482	Prob(F-statistic)		0.938567

หลักทรัพย์ RATCH

Dependent Variable: D(PRICE)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.002175	0.001094	2.536164	0.0674
RESID01(-1)	-0.003832	0.006357	-0.870225	0.0852
D(VOLUME(-1))	0.018747	0.003614	2.752572	0.0011
D(PRICE(-1))	-0.001456	0.068556	-2.241310	0.4531
D(PRICE(-2))	0.146813	0.068379	0.061617	0.0609
R-squared	0.064505	Mean dependent var		0.002224
Adjusted R-squared	0.027124	S.D. dependent var		0.015531
S.E. of regression	0.015240	Akaike info criterion		-5.401266
Sum squared resid	0.047611	Schwarz criterion		-5.386535
Log likelihood	589.7208	F-statistic		2.355871
Durbin-Watson stat	2.041053	Prob(F-statistic)		0.031935

หลักทรัพย์ BANPU

Dependent Variable: D(PRICE)
Method: Least Squares
Date: 04/24/05 Time: 09:49
Sample(adjusted): 6 313
Included observations: 308 after adjusting endpoints

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.002346	0.001507	1.557460	0.1207
RESID01(-1)	-0.006770	0.005886	-1.489912	0.0697
D(VOLUME(-1))	0.024488	0.005538	5.216662	0.0264
D(PRICE(-1))	0.041885	0.055434	1.085703	0.4502
D(PRICE(-3))	0.037119	0.055315	0.756014	0.0260
R-squared	0.088393	Mean dependent var		0.002608
Adjusted R-squared	0.070121	S.D. dependent var		0.026946
S.E. of regression	0.025983	Akaike info criterion		-4.410828
Sum squared resid	0.203209	Schwarz criterion		-4.355513
Log likelihood	690.8044	F-statistic		4.864342
Durbin-Watson stat	2.047570	Prob(F-statistic)		0.000092

หลักทรัพย์ BCP

Dependent Variable: D(PRICE)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.001420	0.002132	0.666181	0.5058
RESID01(-1)	-0.006863	0.009374	-0.732165	0.4646
D(VOLUME)	0.038823	0.005161	7.522664	0.0000
D(PRICE(-1))	-0.089672	0.052803	-1.698228	0.0905
R-squared	0.168365	Mean dependent var		0.001388
Adjusted R-squared	0.157458	S.D. dependent var		0.040835
S.E. of regression	0.037482	Akaike info criterion		-3.713889
Sum squared resid	0.428506	Schwarz criterion		-3.653621
Log likelihood	580.6528	F-statistic		15.43682
Durbin-Watson stat	2.148986	Prob(F-statistic)		0.000000

ประวัติผู้เขียน

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ประวัติการศึกษา	สำเร็จการศึกษามัธยมศึกษาตอนปลายจากโรงเรียนส่วนบุญโญปถัมภ์ ลำพูน ปีการศึกษา 2542 สำเร็จการศึกษาปริญญาศึกษาศาสตรบัณฑิต มหาวิทยาลัยเชียงใหม่ สาขาบริหารธุรกิจ ปีการศึกษา 2546