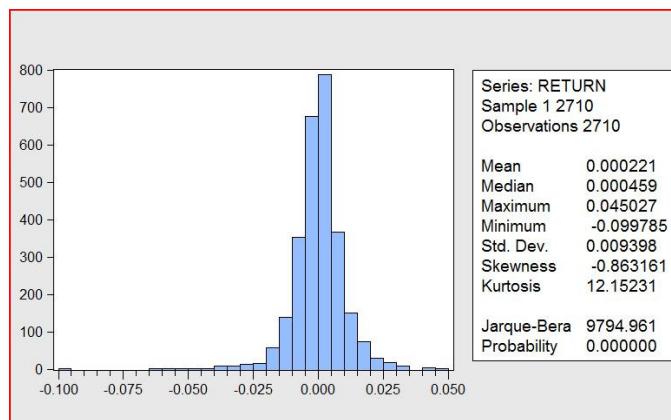


APPENDICES



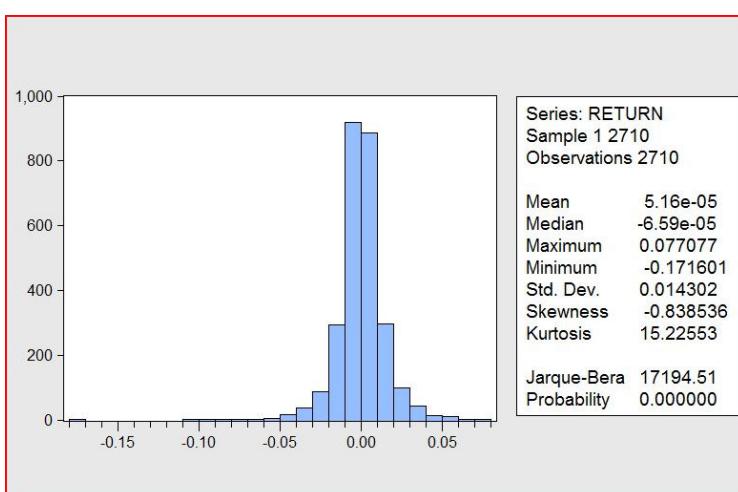
APPENDIX 1:
Histogram and descriptive analysis for FBMKLCI Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																																							
F-statistic	1.075684	Prob. F(1,2707)	0.2998																																				
Obs*R-squared	1.076052	Prob. Chi-Square(1)	0.2996																																				
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 11:14 Sample (adjusted): 2 2710 Included observations: 2709 after adjustments																																							
<table> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>t-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.980738</td><td>0.047649</td><td>20.58272</td><td>0.0000</td></tr> <tr> <td>WGT_RESID^2(-1)</td><td>0.019930</td><td>0.019216</td><td>1.037152</td><td>0.2998</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	0.980738	0.047649	20.58272	0.0000	WGT_RESID^2(-1)	0.019930	0.019216	1.037152	0.2998																				
Variable	Coefficient	Std. Error	t-Statistic	Prob.																																			
C	0.980738	0.047649	20.58272	0.0000																																			
WGT_RESID^2(-1)	0.019930	0.019216	1.037152	0.2998																																			
<table> <thead> <tr> <th>R-squared</th><th>0.000397</th><th>Mean dependent var</th><th>1.000676</th><td></td></tr> <tr> <th>Adjusted R-squared</th><th>0.000028</th><th>S.D. dependent var</th><th>2.269243</th><td></td></tr> <tr> <th>S.E. of regression</th><th>2.269211</th><th>Akaike info criterion</th><th>4.477480</th><td></td></tr> <tr> <th>Sum squared resid</th><th>13939.21</th><th>Schwarz criterion</th><th>4.481839</th><td></td></tr> <tr> <th>Log likelihood</th><th>-6062.746</th><th>Hannan-Quinn criter.</th><th>4.479056</th><td></td></tr> <tr> <th>F-statistic</th><th>1.075684</th><th>Durbin-Watson stat</th><th>2.000733</th><td></td></tr> <tr> <th>Prob(F-statistic)</th><th>0.299758</th><td></td><td></td><td></td></tr> </thead> </table>					R-squared	0.000397	Mean dependent var	1.000676		Adjusted R-squared	0.000028	S.D. dependent var	2.269243		S.E. of regression	2.269211	Akaike info criterion	4.477480		Sum squared resid	13939.21	Schwarz criterion	4.481839		Log likelihood	-6062.746	Hannan-Quinn criter.	4.479056		F-statistic	1.075684	Durbin-Watson stat	2.000733		Prob(F-statistic)	0.299758			
R-squared	0.000397	Mean dependent var	1.000676																																				
Adjusted R-squared	0.000028	S.D. dependent var	2.269243																																				
S.E. of regression	2.269211	Akaike info criterion	4.477480																																				
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F-statistic	1.075684	Durbin-Watson stat	2.000733																																				
Prob(F-statistic)	0.299758																																						

APPENDIX 2:
LM test for ARCH
Eviews analysis output data for FBMKLCI Daily Index 2000 - 2010

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 01/07/11 Time: 22:48				
Sample (adjusted): 1 2710				
Included observations: 2710 after adjustments				
Convergence achieved after 23 iterations				
Presample variance: backcast (parameter = 0.7)				
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)				
Variable Coefficient Std. Error z-Statistic Prob.				
C 0.000562 0.000137 4.092373 0.0000				
 Variance Equation				
C 1.06E-06 1.83E-07 5.807869 0.0000				
RESID(-1)^2 0.119586 0.007061 16.93546 0.0000				
GARCH(-1) 0.877081 0.006247 140.4065 0.0000				
R-squared -0.001316 Mean dependent var 0.000221				
Adjusted R-squared -0.001316 S.D. dependent var 0.009398				
S.E. of regression 0.009405 Akaike info criterion -6.780027				
Sum squared resid 0.239602 Schwarz criterion -6.771312				
Log likelihood 9190.937 Hannan-Quinn criter. -6.776876				
Durbin-Watson stat 1.652553				

APPENDIX 3:
GARCH(1,1) Eviews analysis output for FBMKLCI Daily Index 2000-2010



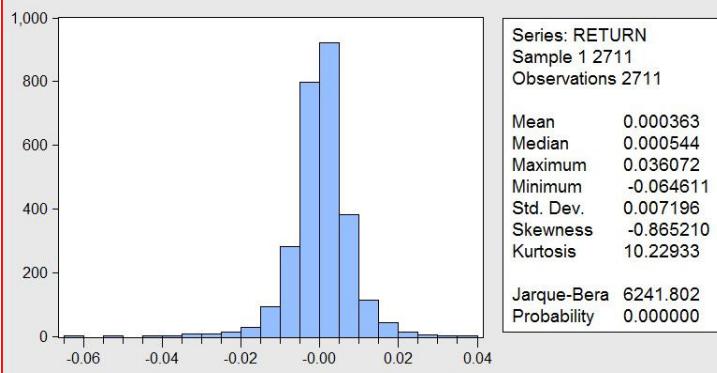
APPENDIX 4:
Histogram and descriptive analysis for KLCON Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																																							
F-statistic	0.024358	Prob. F(1,2708)	0.8760																																				
Obs*R-squared	0.024376	Prob. Chi-Square(1)	0.8759																																				
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 11:22 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments																																							
<table border="1"> <thead> <tr> <th>Variable</th> <th>Coefficient</th> <th>Std. Error</th> <th>t-Statistic</th> <th>Prob.</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>1.004256</td> <td>0.055280</td> <td>18.16661</td> <td>0.0000</td> </tr> <tr> <td>WGT_RESID^2(-1)</td> <td>-0.002999</td> <td>0.019217</td> <td>-0.156072</td> <td>0.8760</td> </tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	1.004256	0.055280	18.16661	0.0000	WGT_RESID^2(-1)	-0.002999	0.019217	-0.156072	0.8760																				
Variable	Coefficient	Std. Error	t-Statistic	Prob.																																			
C	1.004256	0.055280	18.16661	0.0000																																			
WGT_RESID^2(-1)	-0.002999	0.019217	-0.156072	0.8760																																			
<table border="1"> <thead> <tr> <th>R-squared</th> <th>0.000009</th> <th>Mean dependent var</th> <th>1.001255</th> <th></th> </tr> <tr> <th>Adjusted R-squared</th> <th>-0.000360</th> <th>S.D. dependent var</th> <th>2.697624</th> <th></th> </tr> <tr> <th>S.E. of regression</th> <th>2.698110</th> <th>Akaike info criterion</th> <th>4.823718</th> <th></th> </tr> <tr> <th>Sum squared resid</th> <th>19713.69</th> <th>Schwarz criterion</th> <th>4.828075</th> <th></th> </tr> <tr> <th>Log likelihood</th> <th>-6534.137</th> <th>Hannan-Quinn criter.</th> <th>4.825293</th> <th></th> </tr> <tr> <th>F-statistic</th> <th>0.024358</th> <th>Durbin-Watson stat</th> <th>1.999765</th> <th></th> </tr> <tr> <th>Prob(F-statistic)</th> <th>0.875988</th> <td></td> <td></td> <td></td> </tr> </thead> </table>					R-squared	0.000009	Mean dependent var	1.001255		Adjusted R-squared	-0.000360	S.D. dependent var	2.697624		S.E. of regression	2.698110	Akaike info criterion	4.823718		Sum squared resid	19713.69	Schwarz criterion	4.828075		Log likelihood	-6534.137	Hannan-Quinn criter.	4.825293		F-statistic	0.024358	Durbin-Watson stat	1.999765		Prob(F-statistic)	0.875988			
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Log likelihood	-6534.137	Hannan-Quinn criter.	4.825293																																				
F-statistic	0.024358	Durbin-Watson stat	1.999765																																				
Prob(F-statistic)	0.875988																																						

APPENDIX 5:
LM test for ARCH
Eviews analysis output data for KLCON Daily Index 2000 - 2010

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 01/07/11 Time: 23:24				
Sample (adjusted): 1 2711				
Included observations: 2711 after adjustments				
Convergence achieved after 15 iterations				
Presample variance: backcast (parameter = 0.7)				
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000372	0.000221	1.682141	0.0925
Variance Equation				
C	5.45E-06	4.95E-07	11.00621	0.0000
RESID(-1)^2	0.125640	0.008906	14.10781	0.0000
GARCH(-1)	0.854725	0.008295	103.0374	0.0000
R-squared	-0.000517	Mean dependent var	4.72E-05	
Adjusted R-squared	-0.000517	S.D. dependent var	0.014301	
S.E. of regression	0.014305	Akaike info criterion	-5.919000	
Sum squared resid	0.554523	Schwarz criterion	-5.910288	
Log likelihood	8027.205	Hannan-Quinn criter.	-5.915850	
Durbin-Watson stat	1.776380			

APPENDIX 6:
GARCH(1,1) Eviews analysis output for KLCON Daily Index 2000-2010



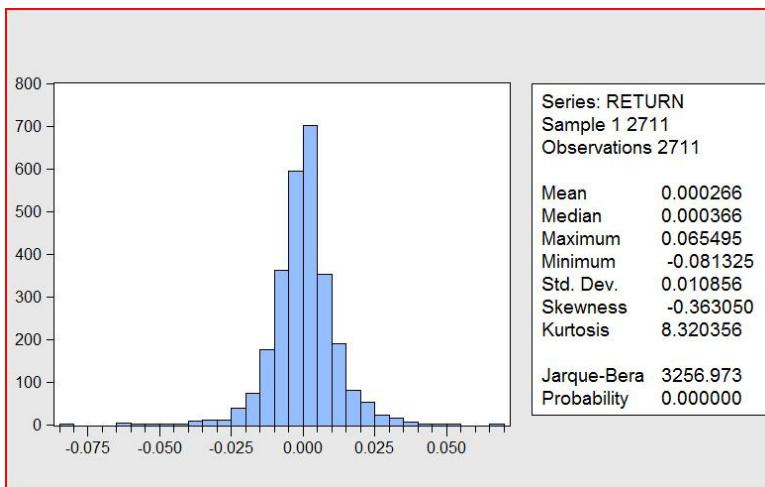
APPENDIX 7:
Histogram and descriptive analysis for KLCSU Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																																							
F-statistic	3.236260	Prob. F(1,2708)	0.0721																																				
Obs*R-squared	3.234784	Prob. Chi-Square(1)	0.0721																																				
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 11:28 Sample (adjusted): 4 2713 Included observations: 2710 after adjustments																																							
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>t-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.966092</td><td>0.050343</td><td>19.19038</td><td>0.0000</td></tr> <tr> <td>WGT_RESID^2(-1)</td><td>0.034549</td><td>0.019205</td><td>1.798961</td><td>0.0721</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	0.966092	0.050343	19.19038	0.0000	WGT_RESID^2(-1)	0.034549	0.019205	1.798961	0.0721																				
Variable	Coefficient	Std. Error	t-Statistic	Prob.																																			
C	0.966092	0.050343	19.19038	0.0000																																			
WGT_RESID^2(-1)	0.034549	0.019205	1.798961	0.0721																																			
<table border="1"> <thead> <tr> <th>R-squared</th><th>0.001194</th><th>Mean dependent var</th><th>1.000665</th><th></th></tr> <tr> <th>Adjusted R-squared</th><th>0.000825</th><th>S.D. dependent var</th><th>2.423231</th><th></th></tr> <tr> <th>S.E. of regression</th><th>2.422231</th><th>Akaike info criterion</th><th>4.607993</th><th></th></tr> <tr> <th>Sum squared resid</th><th>15888.39</th><th>Schwarz criteron</th><th>4.612351</th><th></th></tr> <tr> <th>Log likelihood</th><th>-6241.830</th><th>Hannan-Quinn criter.</th><th>4.609568</th><th></th></tr> <tr> <th>F-statistic</th><th>3.236260</th><th>Durbin-Watson stat</th><th>2.000641</th><th></th></tr> <tr> <th>Prob(F-statistic)</th><th>0.072136</th><th></th><th></th><th></th></tr> </thead> </table>					R-squared	0.001194	Mean dependent var	1.000665		Adjusted R-squared	0.000825	S.D. dependent var	2.423231		S.E. of regression	2.422231	Akaike info criterion	4.607993		Sum squared resid	15888.39	Schwarz criteron	4.612351		Log likelihood	-6241.830	Hannan-Quinn criter.	4.609568		F-statistic	3.236260	Durbin-Watson stat	2.000641		Prob(F-statistic)	0.072136			
R-squared	0.001194	Mean dependent var	1.000665																																				
Adjusted R-squared	0.000825	S.D. dependent var	2.423231																																				
S.E. of regression	2.422231	Akaike info criterion	4.607993																																				
Sum squared resid	15888.39	Schwarz criteron	4.612351																																				
Log likelihood	-6241.830	Hannan-Quinn criter.	4.609568																																				
F-statistic	3.236260	Durbin-Watson stat	2.000641																																				
Prob(F-statistic)	0.072136																																						

APPENDIX 8:
LM test for ARCH Eviews analysis output data for KLCSU Daily Index 2000 - 2010

Dependent Variable: RETURN Method: ML - ARCH (Marquardt) - Normal distribution Date: 01/07/11 Time: 23:41 Sample (adjusted): 1 2711 Included observations: 2711 after adjustments Convergence achieved after 18 iterations Presample variance: backcast (parameter = 0.7) GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C				
C	0.000479	0.000118	4.075785	0.0000
 Variance Equation				
C	1.75E-06	1.67E-07	10.51320	0.0000
RESID(-1)^2	0.102756	0.007713	13.32279	0.0000
GARCH(-1)	0.864447	0.008214	105.2351	0.0000
 R-squared				
R-squared	-0.000261	Mean dependent var	0.000363	
Adjusted R-squared	-0.000261	S.D. dependent var	0.007196	
S.E. of regression	0.007197	Akaike info criterion	-7.229831	
Sum squared resid	0.140372	Schwarz criteron	-7.221119	
Log likelihood	9804.036	Hannan-Quinn criter.	-7.226681	
Durbin-Watson stat	1.801428			

APPENDIX 9:
GARCH(1,1) Eviews analysis output for KLCSU Daily Index 2000-2010



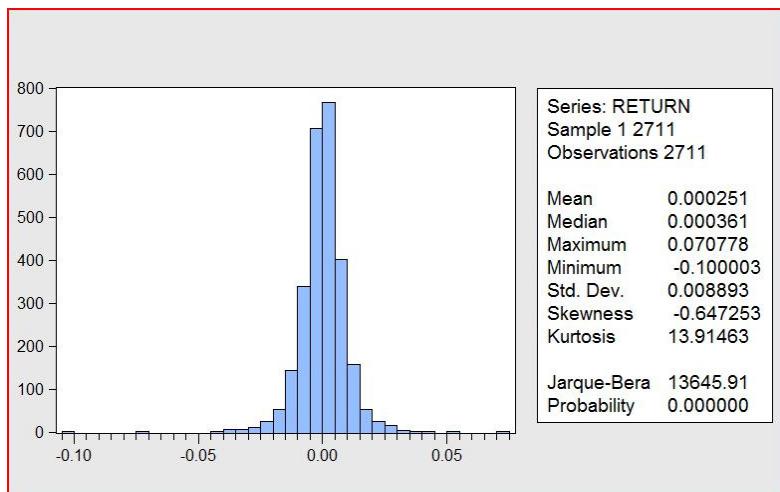
APPENDIX 10:
Histogram and descriptive analysis for KLFIN Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																			
F-statistic	3.046064	Prob. F(1,2708)	0.0810																
Obs*R-squared	3.044888	Prob. Chi-Square(1)	0.0810																
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 11:34 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments																			
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>t-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.967384</td><td>0.047171</td><td>20.50813</td><td>0.0000</td></tr> <tr> <td>WGT_RESID^2(-1)</td><td>0.033519</td><td>0.019206</td><td>1.745298</td><td>0.0810</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	0.967384	0.047171	20.50813	0.0000	WGT_RESID^2(-1)	0.033519	0.019206	1.745298	0.0810
Variable	Coefficient	Std. Error	t-Statistic	Prob.															
C	0.967384	0.047171	20.50813	0.0000															
WGT_RESID^2(-1)	0.033519	0.019206	1.745298	0.0810															
R-squared	0.001124	Mean dependent var	1.000933																
Adjusted R-squared	0.000755	S.D. dependent var	2.243304																
S.E. of regression	2.242457	Akaike info criterion	4.453759																
Sum squared resid	13617.49	Schwarz criterion	4.458117																
Log likelihood	-6032.844	Hannan-Quinn criter.	4.455335																
F-statistic	3.046064	Durbin-Watson stat	2.002301																
Prob(F-statistic)	0.081047																		

APPENDIX 11:
LM test for ARCH Eviews analysis output data for KLFIN Daily Index 2000 - 2010

Dependent Variable: RETURN																								
Method: ML - ARCH (Marquardt) - Normal distribution																								
Date: 01/07/11 Time: 23:56																								
Sample (adjusted): 3 2713																								
Included observations: 2711 after adjustments																								
Convergence achieved after 28 iterations																								
Presample variance: backcast (parameter = 0.7)																								
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)																								
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>z-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.000608</td><td>0.000175</td><td>3.466232</td><td>0.0005</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	z-Statistic	Prob.	C	0.000608	0.000175	3.466232	0.0005										
Variable	Coefficient	Std. Error	z-Statistic	Prob.																				
C	0.000608	0.000175	3.466232	0.0005																				
 Variance Equation																								
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>z-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>1.76E-06</td><td>2.61E-07</td><td>6.741776</td><td>0.0000</td></tr> <tr> <td>RESID(-1)^2</td><td>0.096559</td><td>0.006949</td><td>13.89476</td><td>0.0000</td></tr> <tr> <td>GARCH(-1)</td><td>0.892701</td><td>0.006325</td><td>141.1495</td><td>0.0000</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	z-Statistic	Prob.	C	1.76E-06	2.61E-07	6.741776	0.0000	RESID(-1)^2	0.096559	0.006949	13.89476	0.0000	GARCH(-1)	0.892701	0.006325	141.1495	0.0000
Variable	Coefficient	Std. Error	z-Statistic	Prob.																				
C	1.76E-06	2.61E-07	6.741776	0.0000																				
RESID(-1)^2	0.096559	0.006949	13.89476	0.0000																				
GARCH(-1)	0.892701	0.006325	141.1495	0.0000																				
R-squared	-0.000991	Mean dependent var	0.000266																					
Adjusted R-squared	-0.000991	S.D. dependent var	0.010856																					
S.E. of regression	0.010861	Akaike info criterion	-6.428078																					
Sum squared resid	0.319687	Schwarz criterion	-6.419365																					
Log likelihood	8717.259	Hannan-Quinn criter.	-6.424927																					
Durbin-Watson stat	1.627399																							

APPENDIX 12:
GARCH(1,1) Eviews analysis output for KLFIN Daily Index 2000-2010



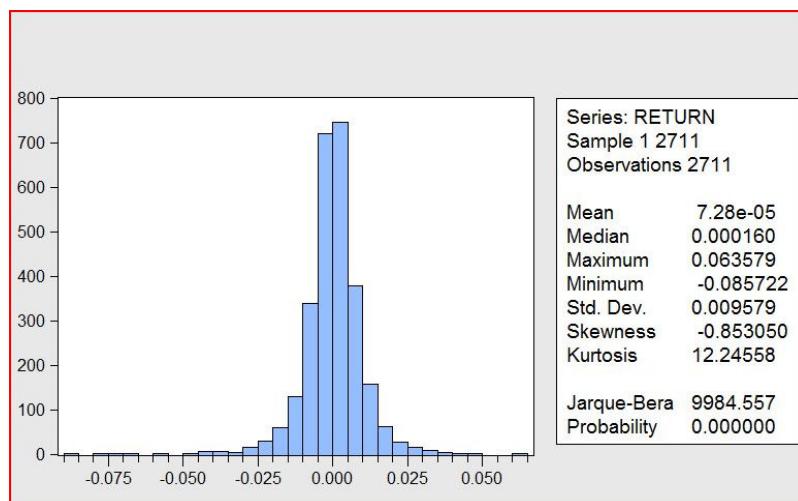
APPENDIX 13:
Histogram and descriptive analysis for KLIND Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																			
F-statistic	3.169855	Prob. F(1,2708)	0.0751																
Obs*R-squared	3.168487	Prob. Chi-Square(1)	0.0751																
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 11:41 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments																			
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>t-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.967422</td><td>0.052421</td><td>18.45471</td><td>0.0000</td></tr> <tr> <td>WGT_RESID^2(-1)</td><td>0.034193</td><td>0.019205</td><td>1.780409</td><td>0.0751</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	0.967422	0.052421	18.45471	0.0000	WGT_RESID^2(-1)	0.034193	0.019205	1.780409	0.0751
Variable	Coefficient	Std. Error	t-Statistic	Prob.															
C	0.967422	0.052421	18.45471	0.0000															
WGT_RESID^2(-1)	0.034193	0.019205	1.780409	0.0751															
R-squared	0.001169	Mean dependent var	1.001668																
Adjusted R-squared	0.000800	S.D. dependent var	2.539616																
S.E. of regression	2.538599	Akaike info criterion	4.701840																
Sum squared resid	17451.67	Schwarz criterion	4.706197																
Log likelihood	-6368.993	Hannan-Quinn criter.	4.703415																
F-statistic	3.169855	Durbin-Watson stat	2.002243																
Prob(F-statistic)	0.075121																		

APPENDIX 14:
LM test for ARCH
Eviews analysis output data for KLIND Daily Index 2000 - 2010

Dependent Variable: RETURN																			
Method: ML - ARCH (Marquardt) - Normal distribution																			
Date: 01/08/11 Time: 00:09																			
Sample (adjusted): 1 2711																			
Included observations: 2711 after adjustments																			
Convergence achieved after 30 iterations																			
Presample variance: backcast (parameter = 0.7)																			
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)																			
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>z-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.000378</td><td>0.000139</td><td>2.717400</td><td>0.0066</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	z-Statistic	Prob.	C	0.000378	0.000139	2.717400	0.0066					
Variable	Coefficient	Std. Error	z-Statistic	Prob.															
C	0.000378	0.000139	2.717400	0.0066															
Variance Equation																			
<table border="1"> <tbody> <tr> <td>C</td><td>2.34E-07</td><td>6.21E-08</td><td>3.771137</td><td>0.0002</td></tr> <tr> <td>RESID(-1)^2</td><td>0.038476</td><td>0.002460</td><td>15.64270</td><td>0.0000</td></tr> <tr> <td>GARCH(-1)</td><td>0.958866</td><td>0.002061</td><td>465.2644</td><td>0.0000</td></tr> </tbody> </table>					C	2.34E-07	6.21E-08	3.771137	0.0002	RESID(-1)^2	0.038476	0.002460	15.64270	0.0000	GARCH(-1)	0.958866	0.002061	465.2644	0.0000
C	2.34E-07	6.21E-08	3.771137	0.0002															
RESID(-1)^2	0.038476	0.002460	15.64270	0.0000															
GARCH(-1)	0.958866	0.002061	465.2644	0.0000															
R-squared	-0.000204	Mean dependent var	0.000251																
Adjusted R-squared	-0.000204	S.D. dependent var	0.008893																
S.E. of regression	0.008894	Akaike info criterion	-6.841303																
Sum squared resid	0.214359	Schwarz criterion	-6.832591																
Log likelihood	9277.387	Hannan-Quinn criter.	-6.838153																
Durbin-Watson stat	1.842349																		

APPENDIX 15:
GARCH(1,1) Eviews analysis output for KLIND Daily Index 2000-2010



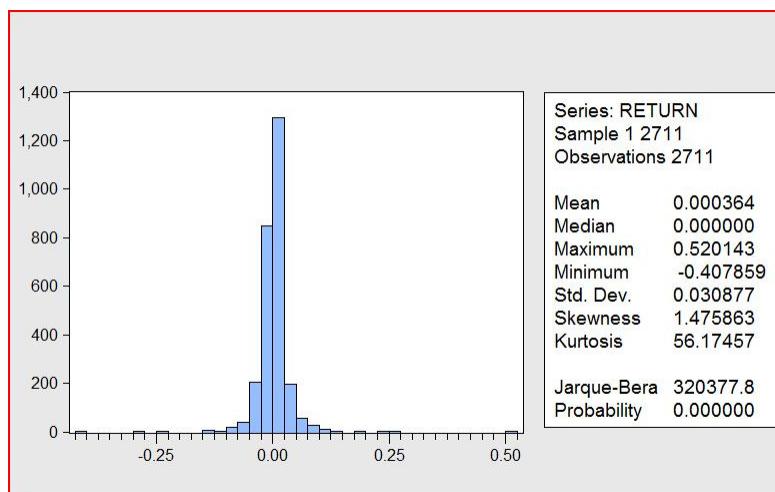
APPENDIX 16:
Histogram and descriptive analysis for KLPOR Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																																																						
F-statistic	1.926632	Prob. F(1,2708)	0.1652																																																			
Obs*R-squared	1.926685	Prob. Chi-Square(1)	0.1651																																																			
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 22:13 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments																																																						
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>t-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.974456</td><td>0.046331</td><td>21.03249</td><td>0.0000</td></tr> <tr> <td>WGT_RESID^2(-1)</td><td>0.026663</td><td>0.019209</td><td>1.388032</td><td>0.1652</td></tr> <tr> <td>R-squared</td><td>0.000711</td><td>Mean dependent var</td><td>1.001136</td><td></td></tr> <tr> <td>Adjusted R-squared</td><td>0.000342</td><td>S.D. dependent var</td><td>2.194911</td><td></td></tr> <tr> <td>S.E. of regression</td><td>2.194536</td><td>Akaike info criterion</td><td>4.410556</td><td></td></tr> <tr> <td>Sum squared resid</td><td>13041.69</td><td>Schwarz criterion</td><td>4.414914</td><td></td></tr> <tr> <td>Log likelihood</td><td>-5974.303</td><td>Hannan-Quinn criter.</td><td>4.412131</td><td></td></tr> <tr> <td>F-statistic</td><td>1.926632</td><td>Durbin-Watson stat</td><td>1.999454</td><td></td></tr> <tr> <td>Prob(F-statistic)</td><td>0.165242</td><td></td><td></td><td></td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	0.974456	0.046331	21.03249	0.0000	WGT_RESID^2(-1)	0.026663	0.019209	1.388032	0.1652	R-squared	0.000711	Mean dependent var	1.001136		Adjusted R-squared	0.000342	S.D. dependent var	2.194911		S.E. of regression	2.194536	Akaike info criterion	4.410556		Sum squared resid	13041.69	Schwarz criterion	4.414914		Log likelihood	-5974.303	Hannan-Quinn criter.	4.412131		F-statistic	1.926632	Durbin-Watson stat	1.999454		Prob(F-statistic)	0.165242			
Variable	Coefficient	Std. Error	t-Statistic	Prob.																																																		
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Prob(F-statistic)	0.165242																																																					

APPENDIX 17:
LM test for ARCH
Eviews analysis output data for KLPOR Daily Index 2000 - 2010

Dependent Variable: RETURN																																																																
Method: ML - ARCH (Marquardt) - Normal distribution																																																																
Date: 01/08/11 Time: 00:36																																																																
Sample (adjusted): 1 2711																																																																
Included observations: 2711 after adjustments																																																																
Convergence achieved after 17 iterations																																																																
Presample variance: backcast (parameter = 0.7)																																																																
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)																																																																
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>z-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.000251</td><td>0.000135</td><td>1.855238</td><td>0.0636</td></tr> <tr> <td colspan="5"> Variance Equation</td></tr> <tr> <td>C</td><td>1.35E-06</td><td>2.21E-07</td><td>6.105691</td><td>0.0000</td></tr> <tr> <td>RESID(-1)^2</td><td>0.120266</td><td>0.007624</td><td>15.77391</td><td>0.0000</td></tr> <tr> <td>GARCH(-1)</td><td>0.872171</td><td>0.007078</td><td>123.2261</td><td>0.0000</td></tr> <tr> <td>R-squared</td><td>-0.000345</td><td>Mean dependent var</td><td>7.28E-05</td><td></td></tr> <tr> <td>Adjusted R-squared</td><td>-0.000345</td><td>S.D. dependent var</td><td>0.009579</td><td></td></tr> <tr> <td>S.E. of regression</td><td>0.009581</td><td>Akaike info criterion</td><td>-6.760320</td><td></td></tr> <tr> <td>Sum squared resid</td><td>0.248756</td><td>Schwarz criterion</td><td>-6.751607</td><td></td></tr> <tr> <td>Log likelihood</td><td>9167.613</td><td>Hannan-Quinn criter.</td><td>-6.757169</td><td></td></tr> <tr> <td>Durbin-Watson stat</td><td>1.767225</td><td></td><td></td><td></td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	z-Statistic	Prob.	C	0.000251	0.000135	1.855238	0.0636	 Variance Equation					C	1.35E-06	2.21E-07	6.105691	0.0000	RESID(-1)^2	0.120266	0.007624	15.77391	0.0000	GARCH(-1)	0.872171	0.007078	123.2261	0.0000	R-squared	-0.000345	Mean dependent var	7.28E-05		Adjusted R-squared	-0.000345	S.D. dependent var	0.009579		S.E. of regression	0.009581	Akaike info criterion	-6.760320		Sum squared resid	0.248756	Schwarz criterion	-6.751607		Log likelihood	9167.613	Hannan-Quinn criter.	-6.757169		Durbin-Watson stat	1.767225			
Variable	Coefficient	Std. Error	z-Statistic	Prob.																																																												
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APPENDIX 18:
GARCH(1,1) Eviews analysis output for KLPOR Daily Index 2000-2010



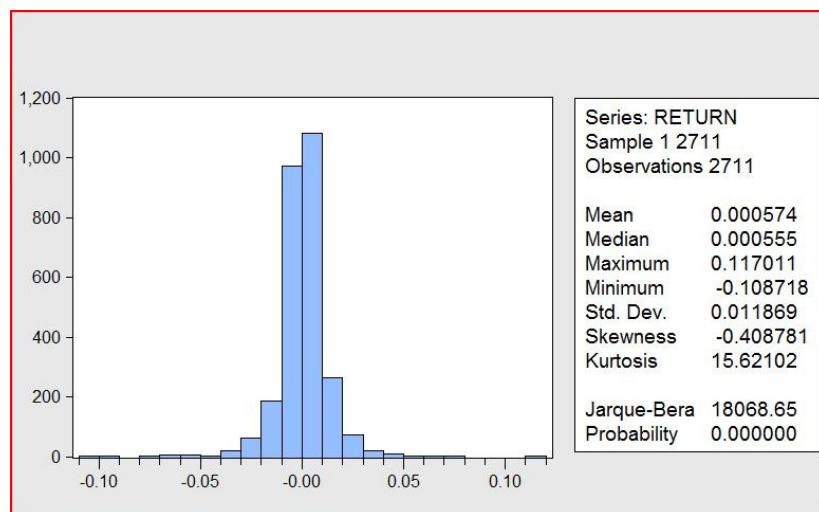
APPENDIX 19:
Histogram and descriptive analysis for KLTIN Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																			
F-statistic	0.002637	Prob. F(1,2708)	0.9590																
Obs*R-squared	0.002639	Prob. Chi-Square(1)	0.9590																
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 22:47 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments																			
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>t-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.998790</td><td>0.178203</td><td>5.604790</td><td>0.0000</td></tr> <tr> <td>WGT_RESID^2(-1)</td><td>0.000987</td><td>0.019217</td><td>0.051354</td><td>0.9590</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	0.998790	0.178203	5.604790	0.0000	WGT_RESID^2(-1)	0.000987	0.019217	0.051354	0.9590
Variable	Coefficient	Std. Error	t-Statistic	Prob.															
C	0.998790	0.178203	5.604790	0.0000															
WGT_RESID^2(-1)	0.000987	0.019217	0.051354	0.9590															
R-squared	0.000001	Mean dependent var	0.999777																
Adjusted R-squared	-0.000368	S.D. dependent var	9.221053																
S.E. of regression	9.222751	Akaike info criterion	7.281961																
Sum squared resid	230340.1	Schwarz criterion	7.286319																
Log likelihood	-9865.058	Hannan-Quinn criter.	7.283537																
F-statistic	0.002637	Durbin-Watson stat	1.999967																
Prob(F-statistic)	0.959047																		

APPENDIX 20:
LM test for ARCH
Eviews analysis output data for KLTIN Daily Index 2000 - 2010

Dependent Variable: RETURN																			
Method: ML - ARCH (Marquardt) - Normal distribution																			
Date: 01/08/11 Time: 01:12																			
Sample (adjusted): 3 2713																			
Included observations: 2711 after adjustments																			
Convergence achieved after 73 iterations																			
Presample variance: backcast (parameter = 0.7)																			
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)																			
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>z-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.001181</td><td>0.000424</td><td>2.787354</td><td>0.0053</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	z-Statistic	Prob.	C	0.001181	0.000424	2.787354	0.0053					
Variable	Coefficient	Std. Error	z-Statistic	Prob.															
C	0.001181	0.000424	2.787354	0.0053															
 Variance Equation																			
<table border="1"> <tbody> <tr> <td>C</td><td>9.10E-05</td><td>6.56E-06</td><td>13.88039</td><td>0.0000</td></tr> <tr> <td>RESID(-1)^2</td><td>0.173190</td><td>0.012187</td><td>14.21058</td><td>0.0000</td></tr> <tr> <td>GARCH(-1)</td><td>0.743999</td><td>0.015038</td><td>49.47487</td><td>0.0000</td></tr> </tbody> </table>					C	9.10E-05	6.56E-06	13.88039	0.0000	RESID(-1)^2	0.173190	0.012187	14.21058	0.0000	GARCH(-1)	0.743999	0.015038	49.47487	0.0000
C	9.10E-05	6.56E-06	13.88039	0.0000															
RESID(-1)^2	0.173190	0.012187	14.21058	0.0000															
GARCH(-1)	0.743999	0.015038	49.47487	0.0000															
R-squared	-0.000700	Mean dependent var	0.000364																
Adjusted R-squared	-0.000700	S.D. dependent var	0.030877																
S.E. of regression	0.030888	Akaike info criterion	-4.437018																
Sum squared resid	2.585535	Schwarz criterion	-4.428306																
Log likelihood	6018.379	Hannan-Quinn criter.	-4.433868																
Durbin-Watson stat	1.647831																		

APPENDIX 21:
GARCH(1,1) Eviews analysis output for KLTIN Daily Index 2000-2010



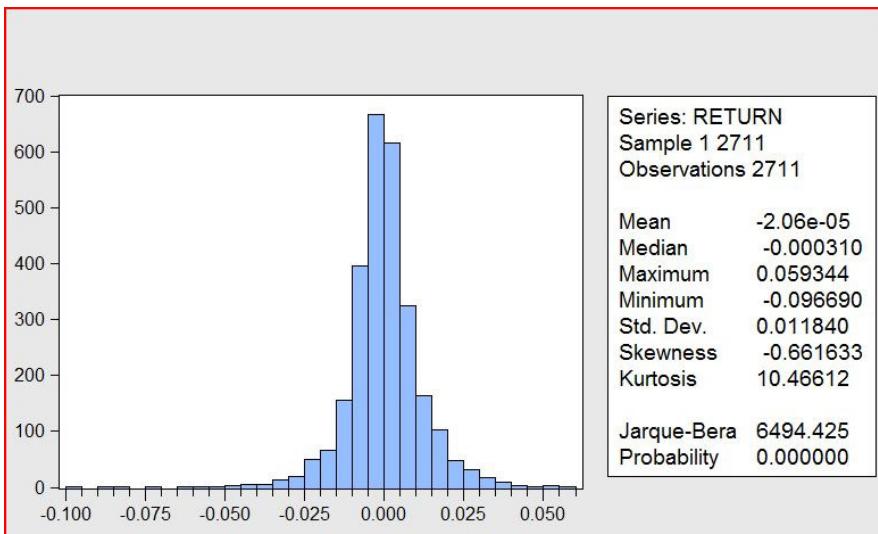
APPENDIX 22:
Histogram and descriptive analysis for KLPLN Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																																																						
F-statistic	2.768689	Prob. F(1,2708)	0.0962																																																			
Obs*R-squared	2.767904	Prob. Chi-Square(1)	0.0962																																																			
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 22:09 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments																																																						
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>t-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>0.968702</td><td>0.051807</td><td>18.69812</td><td>0.0000</td></tr> <tr> <td>WGT_RESID^2(-1)</td><td>0.031958</td><td>0.019206</td><td>1.663938</td><td>0.0962</td></tr> <tr> <td> R-squared</td><td>0.001021</td><td>Mean dependent var</td><td>1.000674</td><td></td></tr> <tr> <td>Adjusted R-squared</td><td>0.000652</td><td>S.D. dependent var</td><td>2.505438</td><td></td></tr> <tr> <td>S.E. of regression</td><td>2.504621</td><td>Akaike info criterion</td><td>4.674890</td><td></td></tr> <tr> <td>Sum squared resid</td><td>16987.62</td><td>Schwarz criterion</td><td>4.679247</td><td></td></tr> <tr> <td>Log likelihood</td><td>-6332.475</td><td>Hannan-Quinn criter.</td><td>4.676465</td><td></td></tr> <tr> <td>F-statistic</td><td>2.768689</td><td>Durbin-Watson stat</td><td>1.998159</td><td></td></tr> <tr> <td>Prob(F-statistic)</td><td>0.096241</td><td></td><td></td><td></td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	t-Statistic	Prob.	C	0.968702	0.051807	18.69812	0.0000	WGT_RESID^2(-1)	0.031958	0.019206	1.663938	0.0962	 R-squared	0.001021	Mean dependent var	1.000674		Adjusted R-squared	0.000652	S.D. dependent var	2.505438		S.E. of regression	2.504621	Akaike info criterion	4.674890		Sum squared resid	16987.62	Schwarz criterion	4.679247		Log likelihood	-6332.475	Hannan-Quinn criter.	4.676465		F-statistic	2.768689	Durbin-Watson stat	1.998159		Prob(F-statistic)	0.096241			
Variable	Coefficient	Std. Error	t-Statistic	Prob.																																																		
C	0.968702	0.051807	18.69812	0.0000																																																		
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Adjusted R-squared	0.000652	S.D. dependent var	2.505438																																																			
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Sum squared resid	16987.62	Schwarz criterion	4.679247																																																			
Log likelihood	-6332.475	Hannan-Quinn criter.	4.676465																																																			
F-statistic	2.768689	Durbin-Watson stat	1.998159																																																			
Prob(F-statistic)	0.096241																																																					

APPENDIX 23:
LM test for ARCH
Eviews analysis output data for KLPLN Daily Index 2000 - 2010

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 01/08/11 Time: 00:23				
Sample (adjusted): 1 2711				
Included observations: 2711 after adjustments				
Convergence achieved after 15 iterations				
Presample variance: backcast (parameter = 0.7)				
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000730	0.000168	4.341838	0.0000
 Variance Equation				
C	4.55E-06	4.48E-07	10.16055	0.0000
RESID(-1)^2	0.163364	0.010623	15.37831	0.0000
GARCH(-1)	0.812335	0.010961	74.11144	0.0000
 R-squared	-0.000173	Mean dependent var	0.000574	
Adjusted R-squared	-0.000173	S.D. dependent var	0.011869	
S.E. of regression	0.011870	Akaike info criterion	-6.410337	
Sum squared resid	0.381834	Schwarz criterion	-6.401624	
Log likelihood	8693.211	Hannan-Quinn criter.	-6.407186	
Durbin-Watson stat	1.659617			

APPENDIX 24:
GARCH(1,1) Eviews analysis output for KLPLN Daily Index 2000-2010



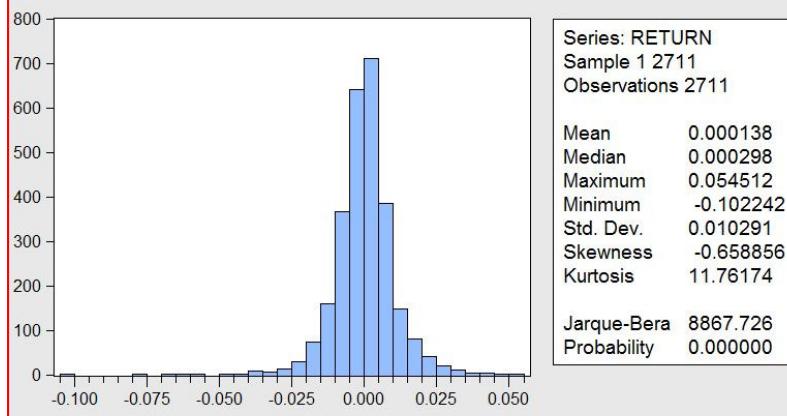
APPENDIX 25:
Histogram and descriptive analysis for KLPRP Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH																																																						
F-statistic	2.768689	Prob. F(1,2708)	0.0962																																																			
Obs*R-squared	2.767904	Prob. Chi-Square(1)	0.0962																																																			
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 22:09 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments																																																						
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Variable	Coefficient	Std. Error	t-Statistic	Prob.																																																		
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F-statistic	2.768689	Durbin-Watson stat	1.998159																																																			
Prob(F-statistic)	0.096241																																																					

APPENDIX 26:
LM test for ARCH
Eviews analysis output data for KLPRP Daily Index 2000 - 2010

Dependent Variable: RETURN																																		
Method: ML - ARCH (Marquardt) - Normal distribution																																		
Date: 01/08/11 Time: 00:49																																		
Sample (adjusted): 3 2711																																		
Included observations: 2711 after adjustments																																		
Convergence achieved after 23 iterations																																		
Presample variance: backcast (parameter = 0.7)																																		
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)																																		
<table border="1"> <thead> <tr> <th>Variable</th><th>Coefficient</th><th>Std. Error</th><th>z-Statistic</th><th>Prob.</th></tr> </thead> <tbody> <tr> <td>C</td><td>-9.71E-05</td><td>0.000167</td><td>-0.581925</td><td>0.5606</td></tr> </tbody> </table>					Variable	Coefficient	Std. Error	z-Statistic	Prob.	C	-9.71E-05	0.000167	-0.581925	0.5606																				
Variable	Coefficient	Std. Error	z-Statistic	Prob.																														
C	-9.71E-05	0.000167	-0.581925	0.5606																														
Variance Equation																																		
<table border="1"> <tbody> <tr> <td>C</td><td>3.37E-06</td><td>3.36E-07</td><td>10.04647</td><td>0.0000</td></tr> <tr> <td>RESID(-1)^2</td><td>0.145739</td><td>0.007887</td><td>18.47883</td><td>0.0000</td></tr> <tr> <td>GARCH(-1)</td><td>0.841718</td><td>0.005894</td><td>142.8188</td><td>0.0000</td></tr> </tbody> </table>					C	3.37E-06	3.36E-07	10.04647	0.0000	RESID(-1)^2	0.145739	0.007887	18.47883	0.0000	GARCH(-1)	0.841718	0.005894	142.8188	0.0000															
C	3.37E-06	3.36E-07	10.04647	0.0000																														
RESID(-1)^2	0.145739	0.007887	18.47883	0.0000																														
GARCH(-1)	0.841718	0.005894	142.8188	0.0000																														
<table border="1"> <tbody> <tr> <td>R-squared</td><td>-0.000042</td><td>Mean dependent var</td><td>-2.06E-05</td><td></td></tr> <tr> <td>Adjusted R-squared</td><td>-0.000042</td><td>S.D. dependent var</td><td>0.011840</td><td></td></tr> <tr> <td>S.E. of regression</td><td>0.011841</td><td>Akaike info criterion</td><td>-6.316412</td><td></td></tr> <tr> <td>Sum squared resid</td><td>0.379948</td><td>Schwarz criterion</td><td>-6.307699</td><td></td></tr> <tr> <td>Log likelihood</td><td>8565.896</td><td>Hannan-Quinn criter.</td><td>-6.313262</td><td></td></tr> <tr> <td>Durbin-Watson stat</td><td>1.655208</td><td></td><td></td><td></td></tr> </tbody> </table>					R-squared	-0.000042	Mean dependent var	-2.06E-05		Adjusted R-squared	-0.000042	S.D. dependent var	0.011840		S.E. of regression	0.011841	Akaike info criterion	-6.316412		Sum squared resid	0.379948	Schwarz criterion	-6.307699		Log likelihood	8565.896	Hannan-Quinn criter.	-6.313262		Durbin-Watson stat	1.655208			
R-squared	-0.000042	Mean dependent var	-2.06E-05																															
Adjusted R-squared	-0.000042	S.D. dependent var	0.011840																															
S.E. of regression	0.011841	Akaike info criterion	-6.316412																															
Sum squared resid	0.379948	Schwarz criterion	-6.307699																															
Log likelihood	8565.896	Hannan-Quinn criter.	-6.313262																															
Durbin-Watson stat	1.655208																																	

APPENDIX 27:
GARCH(1,1) Eviews analysis output for KLPRP Daily Index 2000-2010



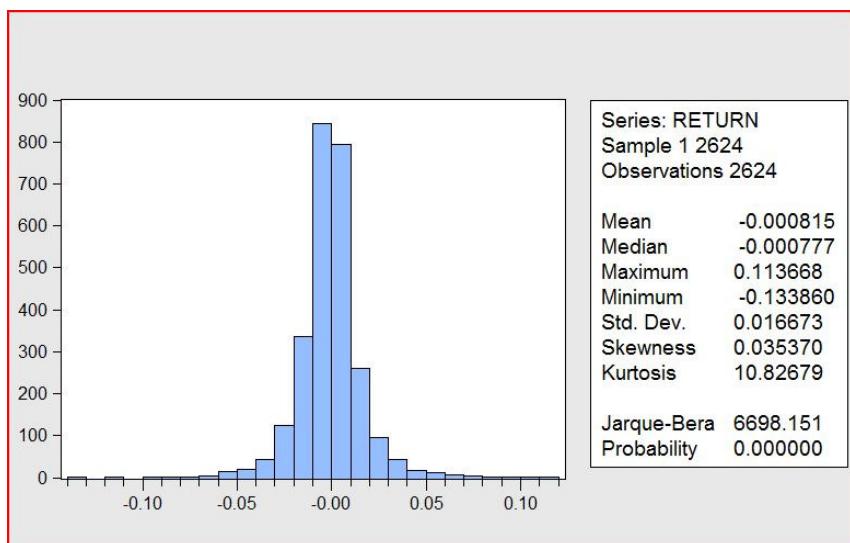
APPENDIX 28:
Histogram and descriptive analysis for KLSER Daily

Heteroskedasticity Test: ARCH				
F-statistic	0.148397	Prob. F(1,2708)	0.7001	
Obs*R-squared	0.148499	Prob. Chi-Square(1)	0.7000	
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/09/11 Time: 22:31 Sample (adjusted): 2 2711 Included observations: 2710 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.993602	0.055001	18.06524	0.0000
WGT_RESID^2(-1)	0.007402	0.019216	0.385223	0.7001
R-squared	0.000055	Mean dependent var	1.001011	
Adjusted R-squared	-0.000314	S.D. dependent var	2.682028	
S.E. of regression	2.682449	Akaike info criterion	4.812075	
Sum squared resid	19485.51	Schwarz criterion	4.816433	
Log likelihood	-6518.362	Hannan-Quinn criter.	4.813651	
F-statistic	0.148397	Durbin-Watson stat	1.999845	
Prob(F-statistic)	0.700102			

APPENDIX 29:
LM test for ARCH
Eviews analysis output data for KLSER Daily Index 2000 - 2010

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 01/08/11 Time: 00:57				
Sample (adjusted): 1 2711				
Included observations: 2711 after adjustments				
Convergence achieved after 21 iterations				
Presample variance: backcast (parameter = 0.7)				
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000470	0.000139	3.373107	0.0007
 Variance Equation				
C	7.36E-07	1.64E-07	4.497574	0.0000
RESID(-1)^2	0.101885	0.006830	14.91630	0.0000
GARCH(-1)	0.898023	0.006282	142.9547	0.0000
R-squared	-0.001043	Mean dependent var	0.000138	
Adjusted R-squared	-0.001043	S.D. dependent var	0.010291	
S.E. of regression	0.010296	Akaike info criterion	-6.627549	
Sum squared resid	0.287308	Schwarz criterion	-6.618836	
Log likelihood	8987.642	Hannan-Quinn criter.	-6.624399	
Durbin-Watson stat	1.702514			

APPENDIX 30:
GARCH(1,1) Eviews analysis output for KLSER Daily Index 2000-2010



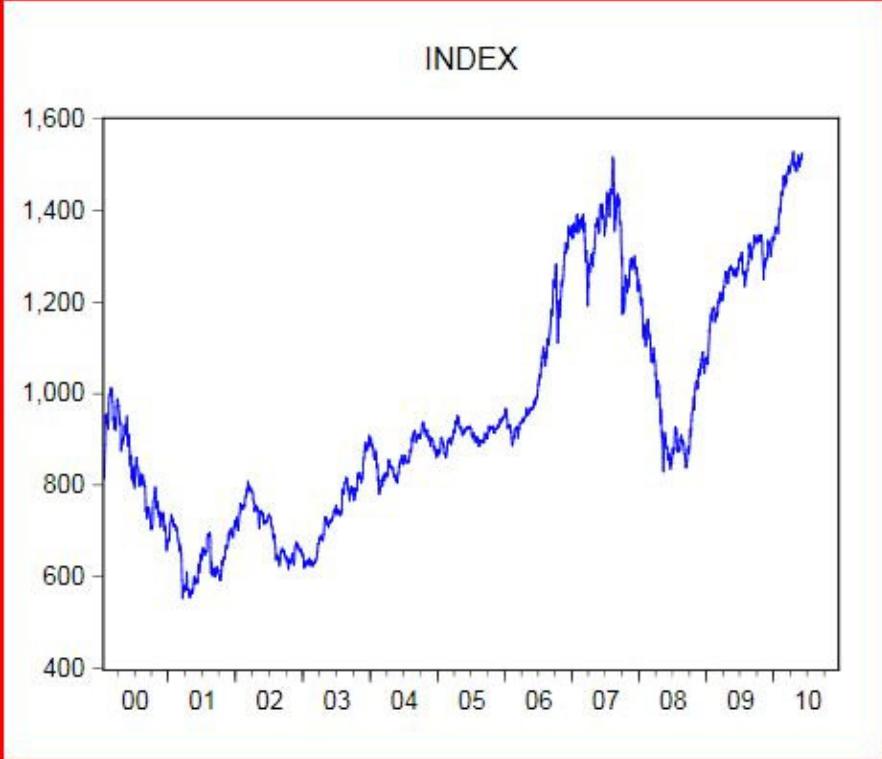
APPENDIX 31:
Histogram and descriptive analysis for KLTEC Daily Index 2000 - 2010

Heteroskedasticity Test: ARCH				
F-statistic	2.383564	Prob. F(1,2621)	0.1227	
Obs*R-squared	2.383216	Prob. Chi-Square(1)	0.1226	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/09/11 Time: 22:51				
Sample (adjusted): 2 2624				
Included observations: 2623 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.971015	0.048015	20.22299	0.0000
WGT_RESID^2(-1)	0.030143	0.019524	1.543880	0.1227
R-squared	0.000909	Mean dependent var	1.001195	
Adjusted R-squared	0.000527	S.D. dependent var	2.246700	
S.E. of regression	2.246108	Akaike info criterion	4.457037	
Sum squared resid	13222.95	Schwarz criterion	4.461514	
Log likelihood	-5843.404	Hannan-Quinn criter.	4.458659	
F-statistic	2.383564	Durbin-Watson stat	2.002036	
Prob(F-statistic)	0.122738			

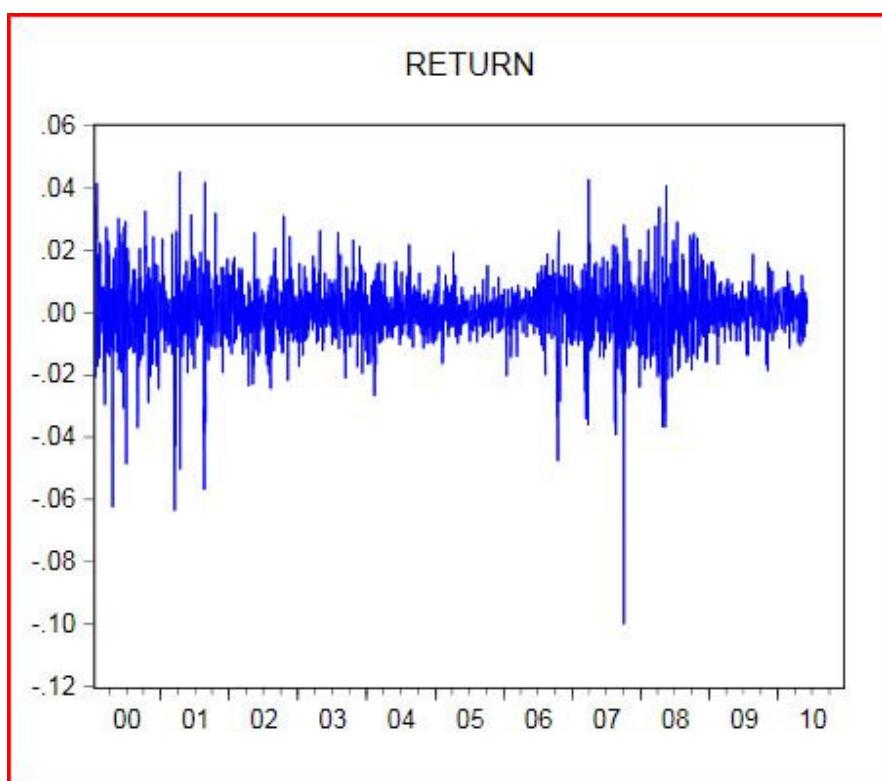
APPENDIX 32:
LM test for ARCH
Eviews analysis output data for KLTEC Daily Index 2000 - 2010

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 01/08/11 Time: 01:05				
Sample (adjusted): 3 2626				
Included observations: 2624 after adjustments				
Convergence achieved after 14 iterations				
Presample variance: backcast (parameter = 0.7)				
GARCH = C(2) + C(3)*RESID(-1)^2 + C(4)*GARCH(-1)				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	-0.000713	0.000216	-3.296886	0.0010
Variance Equation				
C	3.06E-06	4.25E-07	7.193401	0.0000
RESID(-1)^2	0.105896	0.006365	16.63806	0.0000
GARCH(-1)	0.888738	0.005173	171.8073	0.0000
R-squared	-0.000038	Mean dependent var	-0.000815	
Adjusted R-squared	-0.000038	S.D. dependent var	0.016673	
S.E. of regression	0.016673	Akaike info criterion	-5.705246	
Sum squared resid	0.729162	Schwarz criterion	-5.696294	
Log likelihood	7489.282	Hannan-Quinn criter.	-5.702004	
Durbin-Watson stat	1.663234			

APPENDIX 33:
GARCH(1,1) Eviews analysis output for KLTEC Daily Index 2000-2010

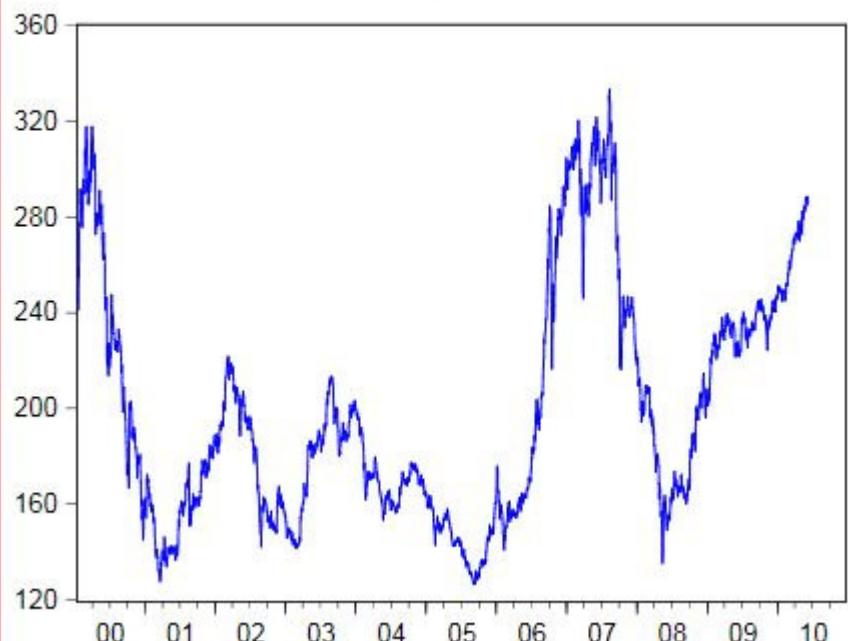


APPENDIX 34: FBMKLCI Daily Index 2000-2010 Plot



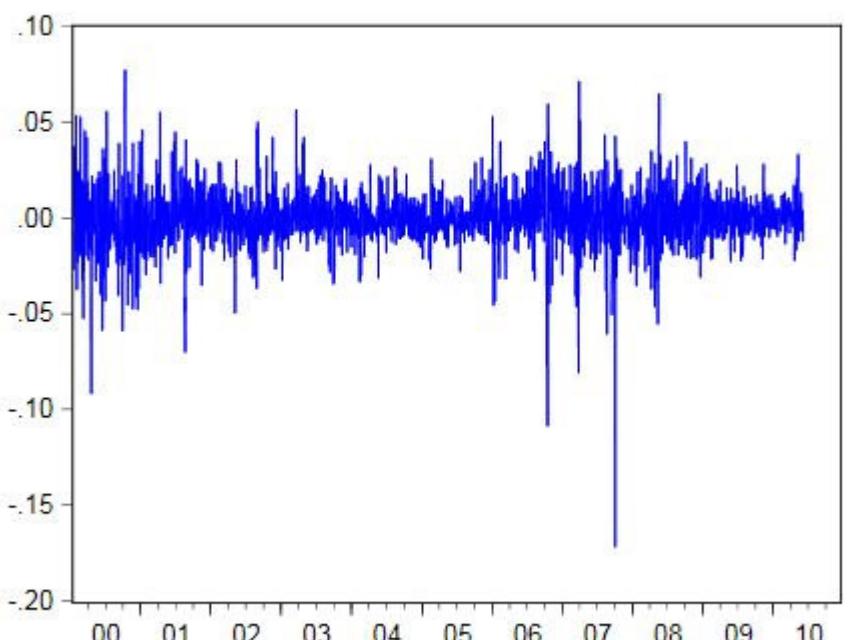
APPENDIX 35: FTBMKLCI Daily Returns 2000-2010 Plot

INDEX



APPENDIX 36: KLCON Daily Index 2000-2010 Plot

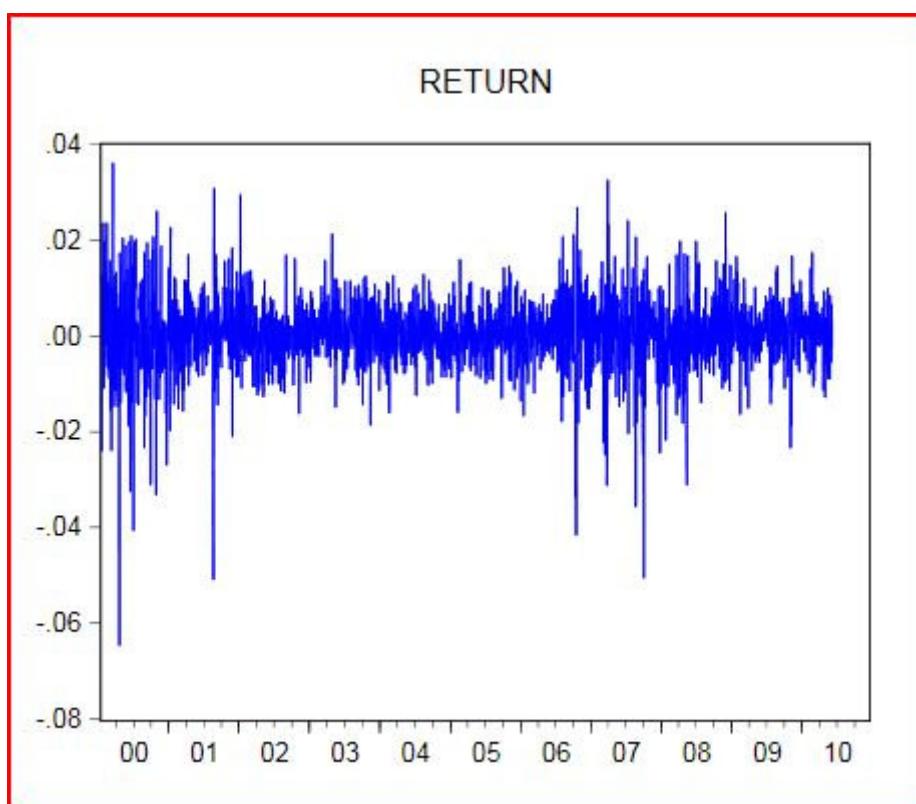
RETURN



APPENDIX 37: KLCON Daily Returns 2000-2010 Plot



APPENDIX 38: KLCSU Daily Index 2000-2010 Plot



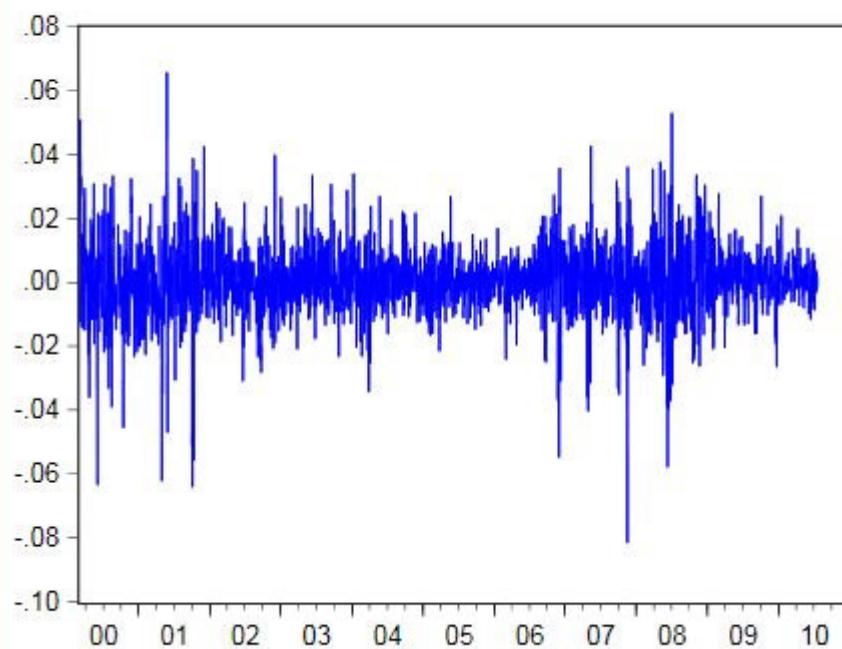
APPENDIX 39: KLCSU Daily Returns 2000-2010 Plot

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APPENDIX 40: KLFIN Daily Index 2000-2010 Plot

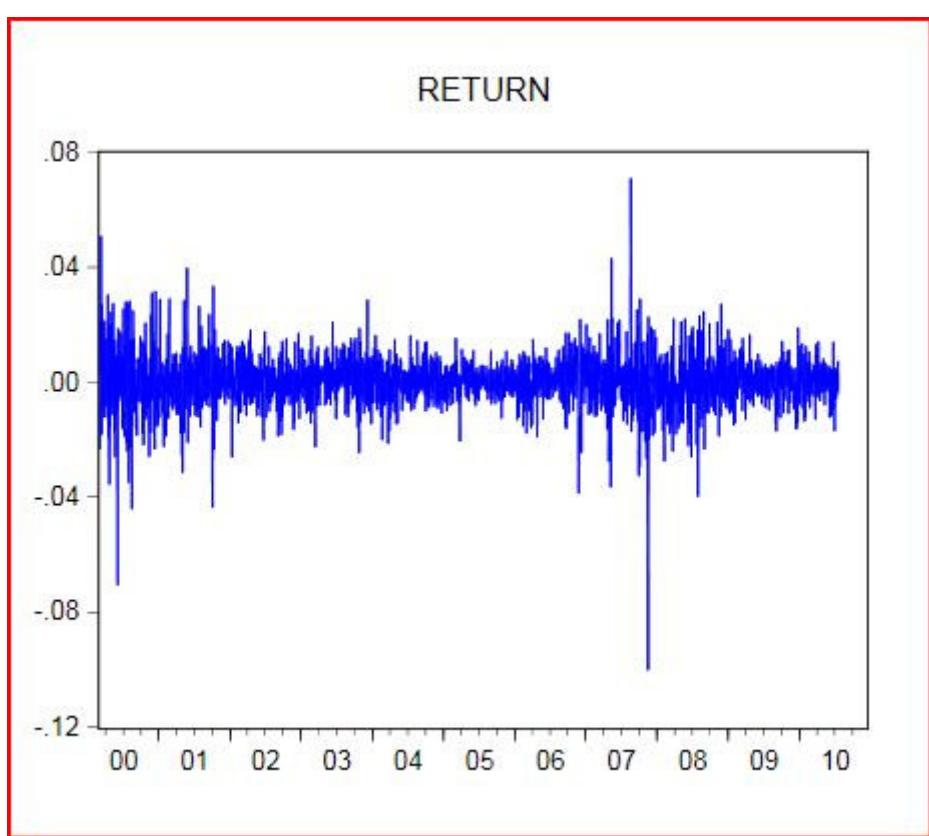
RETURN



APPENDIX 41: KLFIN Daily Returns 2000-2010 Plot

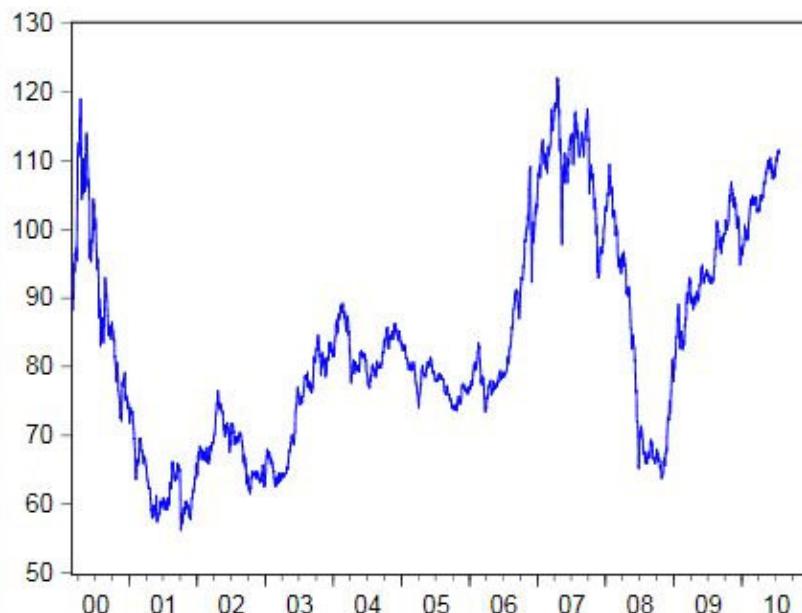


APPENDIX 42: KLIND Daily Index 2000-2010 Plot



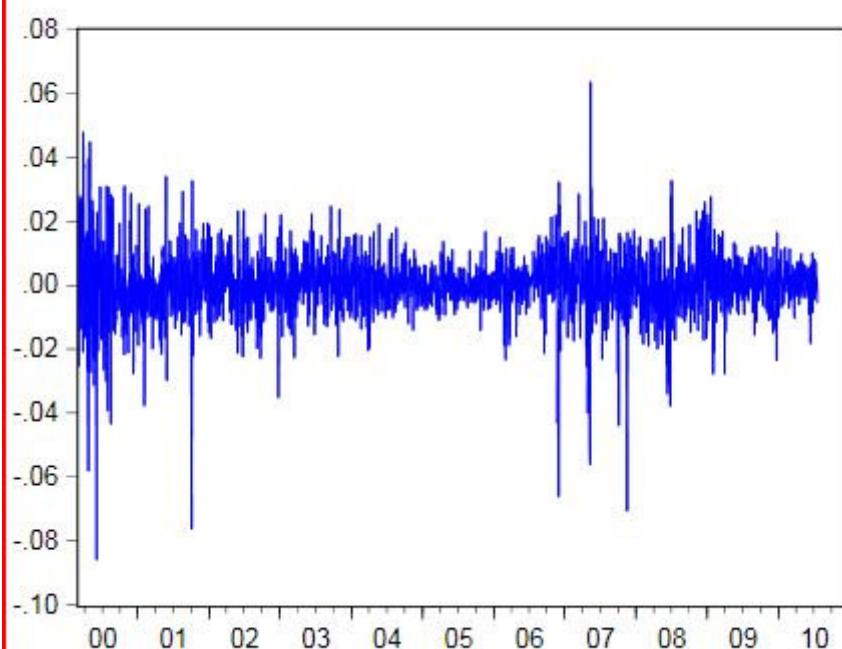
APPENDIX 43: KLIND Daily Returns 2000-2010 Plot

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APPENDIX 44: KLPY Daily Index 2000-2010 Plot

RETURN



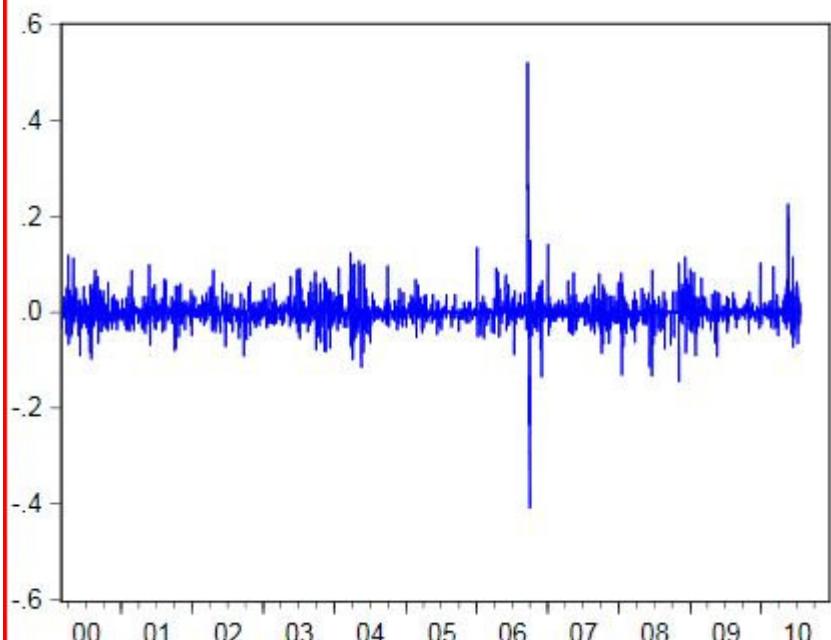
APPENDIX 45: KLPY Daily Returns 2000-2010 Plot

INDEX



APPENDIX 46: KLTIN Daily Index 2000-2010 Plot

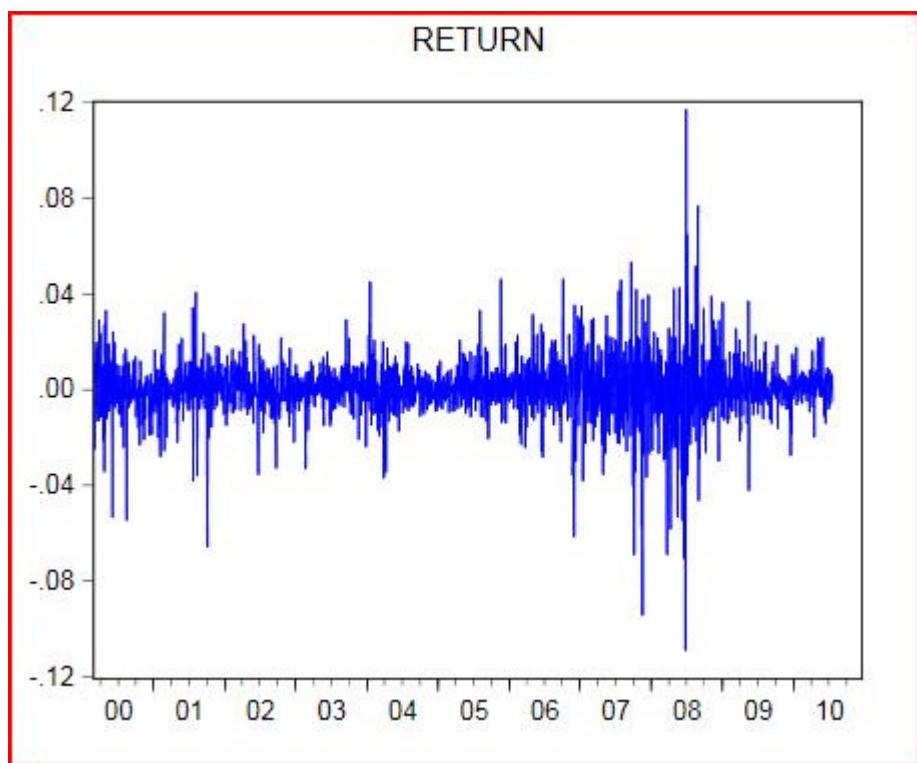
RETURN



APPENDIX 47: KLTIN Daily Returns 2000-2010 Plot

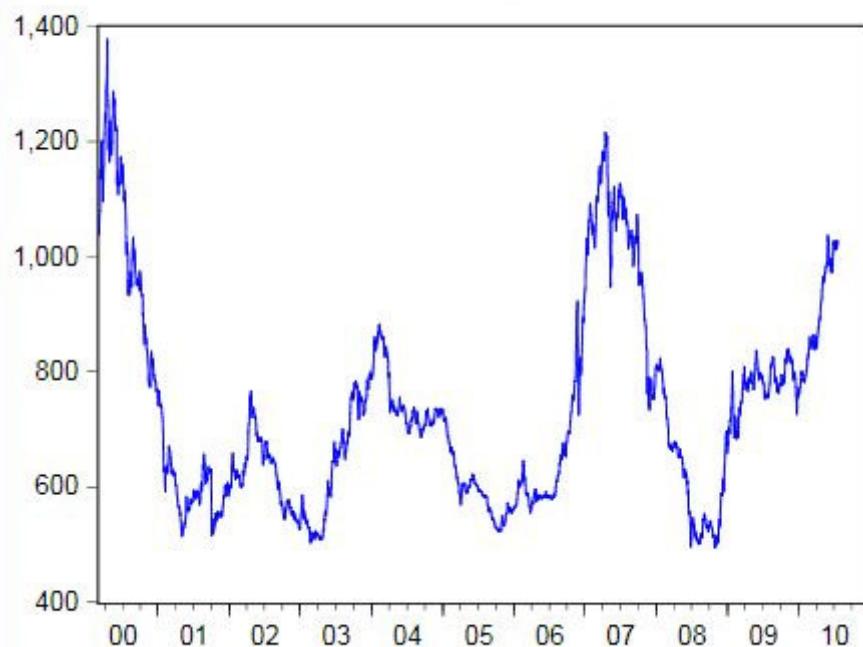


APPENDIX 48: KLPLN Daily Index 2000-2010 Plot



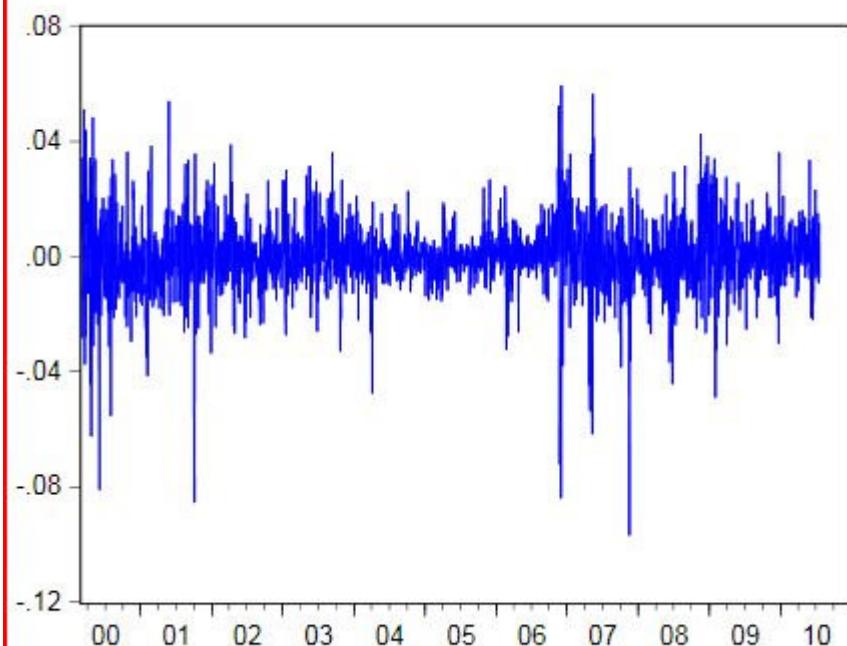
APPENDIX 49: KLPLN Daily Returns 2000-2010 Plot

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APPENDIX 50: KLPRP Daily Index 2000-2010 Plot

RETURN



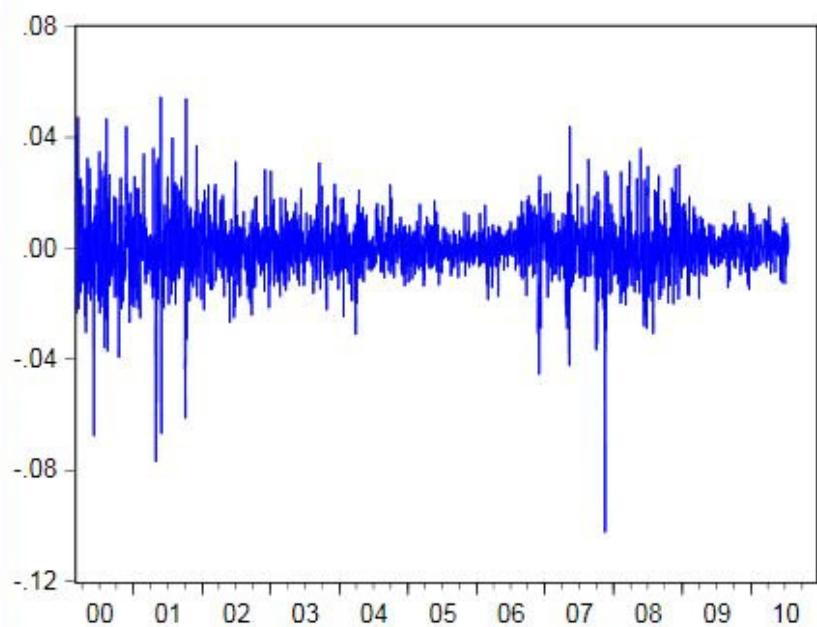
APPENDIX 51: KLPRP Daily Returns 2000-2010 Plot

INDEX



APPENDIX 52: KLSER Daily Index 2000-2010 Plot

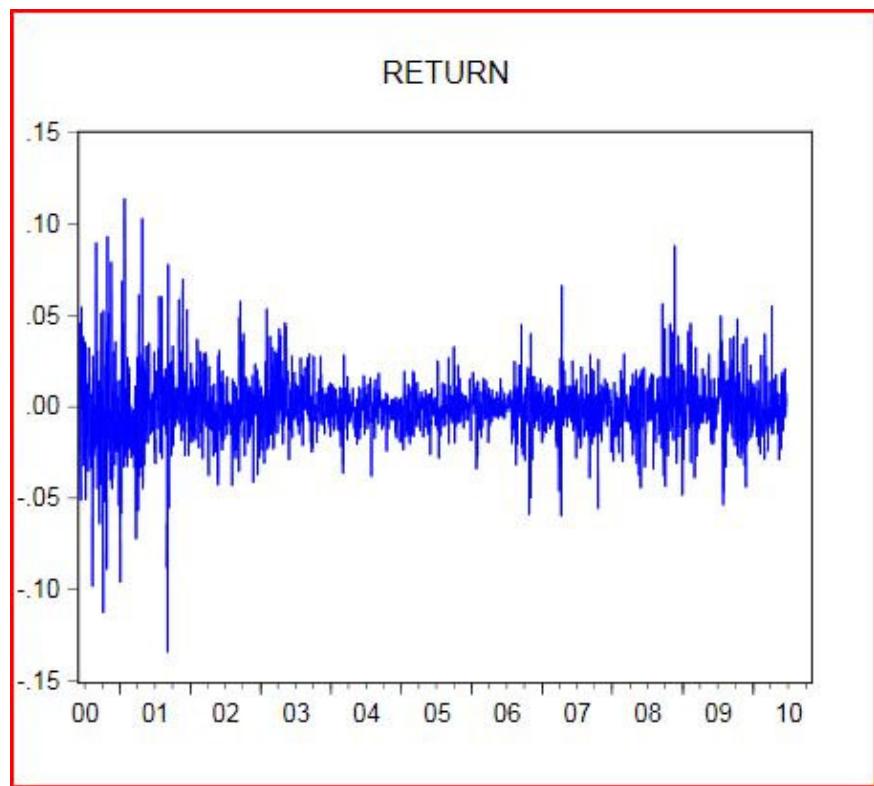
RETURN



APPENDIX 53: KLSER Daily Returns 2000-2010 Plot



APPENDIX 54: KLTEC Daily Index 2000-2010 Plot



APPENDIX 55: KLTEC Daily Returns 2000-2010 Plot

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/05/11 Time: 19:07				
Sample: 1 2710				
Included observations: 2710				
Convergence achieved after 21 iterations				
Presample variance: backcast (parameter = 0.7)				
$\text{LOG(GARCH)} = C(2) + C(3)*\text{ABS(RESID(-1)}/@\text{SQRT(GARCH(-1)))} + C(4)$				
$*\text{RESID(-1)}/@\text{SQRT(GARCH(-1))} + C(5)*\text{LOG(GARCH(-1))}$				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000414	0.000138	3.004728	0.0027
Variance Equation				
C(2)	-0.388098	0.033357	-11.63467	0.0000
C(3)	0.214241	0.013658	15.68658	0.0000
C(4)	-0.058413	0.006945	-8.411271	0.0000
C(5)	0.976459	0.003154	309.6376	0.0000
R-squared	-0.000422	Mean dependent var	0.000221	
Adjusted R-squared	-0.000422	S.D. dependent var	0.009398	
S.E. of regression	0.009400	Akaike info criterion	-6.799685	
Sum squared resid	0.239388	Schwarz criterion	-6.788791	
Log likelihood	9218.573	Hannan-Quinn criter.	-6.795746	
Durbin-Watson stat	1.654029			

APPENDIX 56:

FBMKLCI EGARCH OUTPUT

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/05/11 Time: 19:12				
Sample: 1 2711				
Included observations: 2711				
Convergence achieved after 28 iterations				
Presample variance: backcast (parameter = 0.7)				
$\text{LOG(GARCH)} = C(2) + C(3)*\text{ABS(RESID(-1)}/@\text{SQRT(GARCH(-1)))} + C(4)$				
$*\text{RESID(-1)}/@\text{SQRT(GARCH(-1))} + C(5)*\text{LOG(GARCH(-1))}$				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000248	0.000215	1.157121	0.2472
Variance Equation				
C(2)	-0.491391	0.037853	-12.98157	0.0000
C(3)	0.237053	0.014702	16.12352	0.0000
C(4)	-0.053785	0.007395	-7.273623	0.0000
C(5)	0.963704	0.003633	265.2687	0.0000
R-squared	-0.000198	Mean dependent var	4.72E-05	
Adjusted R-squared	-0.000198	S.D. dependent var	0.014301	
S.E. of regression	0.014302	Akaike info criterion	-5.935186	
Sum squared resid	0.554346	Schwarz criterion	-5.924295	
Log likelihood	8050.144	Hannan-Quinn criter.	-5.931248	
Durbin-Watson stat	1.776947			

APPENDIX 57:

KLCON EGARCH OUTPUT

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/05/11 Time: 19:16				
Sample: 1 2711				
Included observations: 2711				
Convergence achieved after 21 iterations				
Presample variance: backcast (parameter = 0.7)				
$\text{LOG(GARCH)} = C(2) + C(3)*\text{ABS(RESID(-1)}/@\text{SQRT(GARCH(-1)))} + C(4)$				
$*\text{RESID(-1)}/@\text{SQRT(GARCH(-1))} + C(5)*\text{LOG(GARCH(-1))}$				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000360	0.000111	3.241785	0.0012
Variance Equation				
C(2)	-0.720738	0.058438	-12.33342	0.0000
C(3)	0.225460	0.013504	16.69617	0.0000
C(4)	-0.058351	0.009040	-6.455008	0.0000
C(5)	0.944905	0.005263	179.5355	0.0000
R-squared	-0.000000	Mean dependent var	0.000363	
Adjusted R-squared	-0.000000	S.D. dependent var	0.007196	
S.E. of regression	0.007196	Akaike info criterion	-7.233813	
Sum squared resid	0.140336	Schwarz criterion	-7.222922	
Log likelihood	9810.433	Hannan-Quinn criter.	-7.229875	
Durbin-Watson stat	1.801897			

APPENDIX 58:

KLCSU EGARCH OUTPUT

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/05/11 Time: 19:18				
Sample: 12711				
Included observations: 2711				
Convergence achieved after 18 iterations				
Presample variance: backcast (parameter = 0.7)				
$\text{LOG(GARCH)} = C(2) + C(3)*\text{ABS}(\text{RESID}(-1)/\text{SQRT}(\text{GARCH}(-1))) + C(4)*\text{RESID}(-1)/\text{SQRT}(\text{GARCH}(-1)) + C(5)*\text{LOG}(\text{GARCH}(-1))$				
Variable Coefficient Std. Error z-Statistic Prob.				
C 0.000498 0.000170 2.924890 0.0034				
Variance Equation				
C(2) -0.295234 0.026008 -11.35180 0.0000				
C(3) 0.163042 0.010809 15.08370 0.0000				
C(4) -0.045767 0.005991 -7.639822 0.0000				
C(5) 0.981383 0.002588 379.1448 0.0000				
R-squared -0.000453 Mean dependent var 0.000266				
Adjusted R-squared -0.000453 S.D. dependent var 0.010856				
S.E. of regression 0.010858 Akaike info criterion -6.441873				
Sum squared resid 0.319515 Schwarz criterion -6.430982				
Log likelihood 8736.959 Hannan-Quinn criter. -6.437936				
Durbin-Watson stat 1.628273				

APPENDIX 59:
**KLFIN EGARCH
OUTPUT**

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/05/11 Time: 19:21				
Sample: 12711				
Included observations: 2711				
Convergence achieved after 28 iterations				
Presample variance: backcast (parameter = 0.7)				
$\text{LOG(GARCH)} = C(2) + C(3)*\text{ABS}(\text{RESID}(-1)/\text{SQRT}(\text{GARCH}(-1))) + C(4)*\text{RESID}(-1)/\text{SQRT}(\text{GARCH}(-1)) + C(5)*\text{LOG}(\text{GARCH}(-1))$				
Variable Coefficient Std. Error z-Statistic Prob.				
C 0.000322 0.000140 2.297527 0.0216				
Variance Equation				
C(2) -0.218672 0.023498 -9.306069 0.0000				
C(3) 0.135197 0.009416 14.35825 0.0000				
C(4) -0.033190 0.006431 -5.160774 0.0000				
C(5) 0.987863 0.002160 457.2908 0.0000				
R-squared -0.000062 Mean dependent var 0.000251				
Adjusted R-squared -0.000062 S.D. dependent var 0.008893				
S.E. of regression 0.008893 Akaike info criterion -6.845629				
Sum squared resid 0.214329 Schwarz criterion -6.834738				
Log likelihood 9284.250 Hannan-Quinn criter. -6.841691				
Durbin-Watson stat 1.842610				

APPENDIX 60:
**KLIND EGARCH
OUTPUT**

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/06/11 Time: 12:13				
Sample: 12711				
Included observations: 2711				
Convergence achieved after 24 iterations				
Presample variance: backcast (parameter = 0.7)				
$\text{LOG(GARCH)} = C(2) + C(3)*\text{ABS}(\text{RESID}(-1)/\text{SQRT}(\text{GARCH}(-1))) + C(4)*\text{RESID}(-1)/\text{SQRT}(\text{GARCH}(-1)) + C(5)*\text{LOG}(\text{GARCH}(-1))$				
Variable Coefficient Std. Error z-Statistic Prob.				
C 4.45E-05 0.000136 0.326924 0.7437				
Variance Equation				
C(2) -0.435706 0.034089 -12.78153 0.0000				
C(3) 0.249392 0.012762 19.54204 0.0000				
C(4) -0.032480 0.006946 -4.676229 0.0000				
C(5) 0.973950 0.003404 286.0939 0.0000				
R-squared -0.000009 Mean dependent var 7.28E-05				
Adjusted R-squared -0.000009 S.D. dependent var 0.009579				
S.E. of regression 0.009579 Akaike info criterion -6.766884				
Sum squared resid 0.248672 Schwarz criterion -6.755993				
Log likelihood 9177.512 Hannan-Quinn criter. -6.762947				
Durbin-Watson stat 1.767819				

APPENDIX 61:
**KLPRO EGARCH
OUTPUT**

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/06/11 Time: 12:01				
Sample: 1-2711				
Included observations: 2711				
Convergence achieved after 59 iterations				
Presample variance: backcast (parameter = 0.7)				
LOG(GARCH) = C(2) + C(3)*ABS(RESID(-1))@SQRT(GARCH(-1)) + C(4)*RESID(-1)/@SQRT(GARCH(-1)) + C(5)*LOG(GARCH(-1))				
Variable Coefficient Std. Error z-Statistic Prob.				
C 0.001282 0.000464 2.764860 0.0057				
Variance Equation				
C(2) -1.184930 0.080186 -14.77732 0.0000				
C(3) 0.321154 0.014564 22.05149 0.0000				
C(4) -0.040648 0.007364 -5.519782 0.0000				
C(5) 0.863967 0.010075 85.75466 0.0000				
R-squared -0.000885 Mean dependent var 0.000364				
Adjusted R-squared -0.000885 S.D. dependent var 0.030877				
S.E. of regression 0.030891 Akaike info criterion -4.450018				
Sum squared resid 2.586012 Schwarz criterion -4.439127				
Log likelihood 6036.999 Hannan-Quinn criter. -4.446080				
Durbin-Watson stat 1.647527				

APPENDIX 62:
**KLTIN EGARCH
OUTPUT**

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/05/11 Time: 19:23				
Sample: 1-2711				
Included observations: 2711				
Convergence achieved after 19 iterations				
Presample variance: backcast (parameter = 0.7)				
LOG(GARCH) = C(2) + C(3)*ABS(RESID(-1))@SQRT(GARCH(-1)) + C(4)*RESID(-1)/@SQRT(GARCH(-1)) + C(5)*LOG(GARCH(-1))				
Variable Coefficient Std. Error z-Statistic Prob.				
C 0.000620 0.000166 3.724377 0.0002				
Variance Equation				
C(2) -0.568387 0.041495 -13.69779 0.0000				
C(3) 0.291149 0.012651 23.01374 0.0000				
C(4) -0.014266 0.007181 -1.986556 0.0470				
C(5) 0.961014 0.003902 246.3056 0.0000				
R-squared -0.000015 Mean dependent var 0.000574				
Adjusted R-squared -0.000015 S.D. dependent var 0.011869				
S.E. of regression 0.011869 Akaike info criterion -6.412537				
Sum squared resid 0.381774 Schwarz criterion -6.401646				
Log likelihood 8897.193 Hannan-Quinn criter. -6.408599				
Durbin-Watson stat 1.659878				

APPENDIX 63:
**KLPLN EGARCH
OUTPUT**

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/06/11 Time: 11:52				
Sample: 1-2711				
Included observations: 2711				
Convergence achieved after 33 iterations				
Presample variance: backcast (parameter = 0.7)				
LOG(GARCH) = C(2) + C(3)*ABS(RESID(-1))@SQRT(GARCH(-1)) + C(4)*RESID(-1)/@SQRT(GARCH(-1)) + C(5)*LOG(GARCH(-1))				
Variable Coefficient Std. Error z-Statistic Prob.				
C -0.000161 0.000181 -0.890445 0.3732				
Variance Equation				
C(2) -0.500218 0.031179 -16.04367 0.0000				
C(3) 0.268714 0.011797 22.77911 0.0000				
C(4) -0.011644 0.005285 -2.203256 0.0276				
C(5) 0.966790 0.003288 294.0000 0.0000				
R-squared -0.000141 Mean dependent var -2.06E-05				
Adjusted R-squared -0.000141 S.D. dependent var 0.011840				
S.E. of regression 0.011841 Akaike info criterion -6.318683				
Sum squared resid 0.379985 Schwarz criterion -6.307792				
Log likelihood 8569.975 Hannan-Quinn criter. -6.314746				
Durbin-Watson stat 1.655044				

APPENDIX 64:
**KLPRP EGARCH
OUTPUT**

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/06/11 Time: 11:56				
Sample: 1 2711				
Included observations: 2711				
Convergence achieved after 18 iterations				
Presample variance: backcast (parameter = 0.7)				
LOG(GARCH) = C(2) + C(3)*ABS(RESID(-1)/@SQRT(GARCH(-1))) + C(4)*RESID(-1)/@SQRT(GARCH(-1)) + C(5)*LOG(GARCH(-1))				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000284	0.000146	1.951329	0.0510
Variance Equation				
C(2)	-0.326655	0.031017	-10.53138	0.0000
C(3)	0.209370	0.013857	15.10962	0.0000
C(4)	-0.057918	0.006836	-8.472137	0.0000
C(5)	0.982314	0.002941	334.0049	0.0000
R-squared	-0.000201	Mean dependent var	0.000138	
Adjusted R-squared	-0.000201	S.D. dependent var	0.010291	
S.E. of regression	0.010292	Akaike info criterion	-6.647294	
Sum squared resid	0.287067	Schwarz criterion	-6.636403	
Log likelihood	9015.407	Hannan-Quinn criter.	-6.643356	
Durbin-Watson stat	1.703947			

APPENDIX 65:
**KLSER EGARCH
OUTPUT**

Dependent Variable: RETURN				
Method: ML - ARCH (Marquardt) - Normal distribution				
Date: 02/06/11 Time: 12:04				
Sample: 1 2624				
Included observations: 2624				
Convergence achieved after 16 iterations				
Presample variance: backcast (parameter = 0.7)				
LOG(GARCH) = C(2) + C(3)*ABS(RESID(-1)/@SQRT(GARCH(-1))) + C(4)*RESID(-1)/@SQRT(GARCH(-1)) + C(5)*LOG(GARCH(-1))				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	-0.000817	0.000206	-3.966389	0.0001
Variance Equation				
C(2)	-0.347875	0.025064	-13.87929	0.0000
C(3)	0.238199	0.011987	19.87143	0.0000
C(4)	-0.014979	0.006203	-2.414939	0.0157
C(5)	0.979501	0.002505	391.0092	0.0000
R-squared	-0.000000	Mean dependent var	-0.000815	
Adjusted R-squared	-0.000000	S.D. dependent var	0.016673	
S.E. of regression	0.016673	Akaike info criterion	-5.706678	
Sum squared resid	0.729134	Schwarz criterion	-5.695488	
Log likelihood	7492.162	Hannan-Quinn criter.	-5.702626	
Durbin-Watson stat	1.663296			

APPENDIX 66:
**KLTEC EGARCH
OUTPUT**

APPENDIX 67

Yearly Data LM Test for ARCH For FBMKLCI

Heteroskedasticity Test: ARCH				
F-statistic	0.494837	Prob. F(1,240)	0.4825	
Obs*R-squared	0.497934	Prob. Chi-Square(1)	0.4804	
 Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/31/11 Time: 00:27				
Sample (adjusted): 2 243				
Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.976525	0.146144	6.881917	0.0000
WGT_RESID^2(1)	0.045438	0.064594	0.703447	0.4825
R-squared	0.002094	Mean dependent var	1.022395	
Adjusted R-squared	-0.002101	S.D. dependent var	2.032495	
S.E. of regression	2.002533	Akaike info criterion	4.267333	
Sum squared resid	992.5307	Schwarz criterion	4.295567	
Log likelihood	-514.2747	Hannan-Quinn criter.	4.278349	
F-statistic	0.494837	Durbin-Watson stat	1.998014	
Prob(F-statistic)	0.482459			

Heteroskedasticity Test: ARCH				
F-statistic	0.020819	Prob. F(1,240)	0.8669	
Obs*R-squared	0.028391	Prob. Chi-Square(1)	0.8662	
 Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/31/11 Time: 00:36				
Sample (adjusted): 2 243				
Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.981199	0.156726	6.292445	0.0000
WGT_RESID^2(1)	0.010828	0.064526	0.167808	0.8669
R-squared	0.000117	Mean dependent var	0.899764	
Adjusted R-squared	-0.000449	S.D. dependent var	2.215385	
S.E. of regression	2.219885	Akaike info criterion	4.441000	
Sum squared resid	1182.673	Schwarz criterion	4.469835	
Log likelihood	-535.3610	Hannan-Quinn criter.	4.452616	
F-statistic	0.028159	Durbin-Watson stat	2.001257	
Prob(F-statistic)	0.866876			

Heteroskedasticity Test: ARCH				
F-statistic	0.655560	Prob. F(1,245)	0.4169	
Obs*R-squared	0.659138	Prob. Chi-Square(1)	0.4169	
 Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/31/11 Time: 14:24				
Sample (adjusted): 2 243				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.048679	0.132160	7.934930	0.0000
WGT_RESID^2(1)	-0.051591	0.063719	-0.808660	0.4169
R-squared	0.002669	Mean dependent var	0.995737	
Adjusted R-squared	-0.00402	S.D. dependent var	1.814660	
S.E. of regression	1.819785	Akaike info criterion	4.429100	
Sum squared resid	807.9137	Schwarz criterion	4.087554	
Log likelihood	-495.8336	Hannan-Quinn criter.	4.050579	
F-statistic	0.655550	Durbin-Watson stat	1.991303	
Prob(F-statistic)	0.418921			

2000

2001

2002

Heteroskedasticity Test: ARCH				
F-statistic	0.427264	Prob. F(1,243)	0.5140	
Obs*R-squared	0.430025	Prob. Chi-Square(1)	0.5120	
 Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/31/11 Time: 14:35				
Sample (adjusted): 2 246				
Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.948717	0.118135	8.030739	0.0000
WGT_RESID^2(1)	0.041526	0.063528	0.653855	0.5140
R-squared	0.001755	Mean dependent var	0.999591	
Adjusted R-squared	-0.002353	S.D. dependent var	1.551808	
S.E. of regression	1.592333	Akaike info criterion	3.727199	
Sum squared resid	994.5524	Schwarz criterion	3.730709	
Log likelihood	-514.2747	Hannan-Quinn criter.	3.732870	
F-statistic	0.427264	Durbin-Watson stat	1.980894	
Prob(F-statistic)	0.513952			

Heteroskedasticity Test: ARCH				
F-statistic	0.458050	Prob. F(1,245)	0.4982	
Obs*R-squared	0.460928	Prob. Chi-Square(1)	0.4972	
 Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/31/11 Time: 14:39				
Sample (adjusted): 2 248				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.051700	0.130356	8.057886	0.0000
WGT_RESID^2(1)	-0.043200	0.063836	-0.676794	0.4982
R-squared	0.001886	Mean dependent var	1.008114	
Adjusted R-squared	-0.002208	S.D. dependent var	1.779267	
S.E. of regression	1.781224	Akaike info criterion	4.009550	
Sum squared resid	777.3316	Schwarz criterion	4.028666	
Log likelihood	-492.4029	Hannan-Quinn criter.	4.011981	
F-statistic	0.458050	Durbin-Watson stat	2.000398	
Prob(F-statistic)	0.499175			

Heteroskedasticity Test: ARCH				
F-statistic	0.099335	Prob. F(1,244)	0.7520	
Obs*R-squared	0.100108	Prob. Chi-Square(1)	0.7517	
 Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/31/11 Time: 14:42				
Sample (adjusted): 2 247				
Included observations: 246 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.979745	0.128185	7.643222	0.0000
WGT_RESID^2(1)	0.020185	0.054043	0.315175	0.7520
R-squared	0.000407	Mean dependent var	0.999985	
Adjusted R-squared	-0.003690	S.D. dependent var	1.736812	
S.E. of regression	1.740013	Akaike info criterion	3.957360	
Sum squared resid	739.4022	Schwarz criterion	3.982258	
Log likelihood	-626.4872	Hannan-Quinn criter.	3.983355	
F-statistic	0.499335	Durbin-Watson stat	3.997889	
Prob(F-statistic)	0.752898			

2003

2004

2005

Dependent Variable: SER01				
Method: ML - ARCH (Margaret) - Normal distribution				
Date: 01/31/11 Time: 14:47				
Sample: 1 246				
Included observations: 246				
Convergence achieved after 11 iterations				
GARCH = C0 + C1 RESID(-1)^2 + C2(GARCH(-1))				
Variable	Coefficient	Std. Error	z-Statistic	Prob.
C	0.000879	0.000331	2.655683	0.0079
 Variance Equation:				
C: 4.7E-06				
RESID(-1)^2: 0.022899				
GARCH(-1): 0.606352				
R-squared	-0.000211	Mean dependent var	0.000803	
Adjusted R-squared	-0.002451	S.D. dependent var	0.005264	
S.E. of regression	0.002264	Akaike info criterion	7.735836	
Sum squared resid	0.009187	Schwarz criterion	7.768839	
Log likelihood	955.5079	Hannan-Quinn criter.	-7.772888	
F-statistic	0.423.7942	Durbin-Watson stat	1.789232	
Prob(F-statistic)	0.505648			

Heteroskedasticity Test: ARCH				
F-statistic	0.346491	Prob. F(1,245)	0.5566	
Obs*R-squared	0.348826	Prob. Chi-Square(1)	0.5548	
 Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 01/31/11 Time: 14:56				
Sample (adjusted): 2 248				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.95272	0.104224	9.136789	0.0000
WGT_RESID^2(1)	-0.037814	0.063900	-0.588335	0.5566
R-squared	0.001412	Mean dependent var	0.917586	
Adjusted R-squared	-0.002664	S.D. dependent var	1.349269	
S.E. of regression	1.351054	Akaike info criterion	3.447727	
Sum squared resid	447.0000	Schwarz criterion	3.449161	
Log likelihood	-423.7942	Hannan-Quinn criter.	3.459167	
F-statistic	0.346491	Durbin-Watson stat	1.984781	
Prob(F-statistic)	0.556648			

Heteroskedasticity Test: ARCH				
F-statistic	0.346491	Prob. F(1,245)	0.5566	
Obs*R-squared	0.348826	Prob. Chi-Square(1)	0.5548	
 Test Equation:				

APPENDIX 68

Yearly Data LM Test for ARCH For KLCN

Heteroskedasticity Test: ARCH				
F-statistic	0.026363	Prob. F(1,240)	0.8712	
Obs*R-squared	0.026579	Prob. Chi-Square(1)	0.8705	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 16:31 Sample (adjusted): 2 243 Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.104586	0.144166	0.7037647	0.0000
WGT_RESID^2(-1)	-0.010480	0.064544	-0.162366	0.8712
R-squared	0.000110	Mean dependent var	0.004965	
Adjusted R-squared	-0.004569	S.D. dependent var	1.099339	
S.E. of regression	2.003387	Akaike info criterion	4.235795	
Sum squared resid	963.2543	Schwarz criterion	4.264620	
Log likelihood	-510.5301	Hannan-Quinn criter.	4.247401	
F-statistic	0.026363	Durbin-Watson stat	1.997571	
Prob(F-statistic)	0.871155			

2000

Heteroskedasticity Test: ARCH				
F-statistic	0.236339	Prob. F(1,240)	0.6273	
Obs*R-squared	0.238074	Prob. Chi-Square(1)	0.6256	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 16:35 Sample (adjusted): 2 243 Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.1029478	0.141441	0.7278475	0.0000
WGT_RESID^2(-1)	-0.031373	0.064533	-0.486147	0.6273
R-squared	0.000984	Mean dependent var	0.098100	
Adjusted R-squared	-0.003178	S.D. dependent var	1.968231	
S.E. of regression	1.959338	Akaike info criterion	4.191321	
Sum squared resid	921.3614	Schwarz criterion	4.220155	
Log likelihood	-505.1498	Hannan-Quinn criter.	4.202935	
F-statistic	0.238339	Durbin-Watson stat	1.996405	
Prob(F-statistic)	0.627306			

2001

Heteroskedasticity Test: ARCH				
F-statistic	0.385125	Prob. F(1,245)	0.5355	
Obs*R-squared	0.387659	Prob. Chi-Square(1)	0.5335	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 16:38 Sample (adjusted): 2 248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.040699	0.145226	7.165082	0.0000
WGT_RESID^2(-1)	-0.039531	0.063860	-0.620584	0.5355
R-squared	0.001569	Mean dependent var	1.000841	
Adjusted R-squared	-0.002508	S.D. dependent var	2.044944	
S.E. of regression	2.047054	Akaike info criterion	4.278744	
Sum squared resid	1026.655	Schwarz criterion	4.307161	
Log likelihood	-526.4249	Hannan-Quinn criter.	4.290185	
F-statistic	0.385125	Durbin-Watson stat	1.992447	
Prob(F-statistic)	0.535450			

2002

Heteroskedasticity Test: ARCH				
F-statistic	0.068282	Prob. F(1,243)	0.7931	
Obs*R-squared	0.068825	Prob. Chi-Square(1)	0.7931	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 16:41 Sample (adjusted): 2 246 Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.1018269	0.165009	0.6171006	0.0000
WGT_RESID^2(-1)	-0.016764	0.064154	-0.261309	0.7941
R-squared	0.000281	Mean dependent var	1.001447	
Adjusted R-squared	-0.003833	S.D. dependent var	2.373572	
S.E. of regression	2.378116	Akaike info criterion	4.578624	
Sum squared resid	1374.271	Schwarz criterion	4.607206	
Log likelihood	-558.8815	Hannan-Quinn criter.	4.590134	
F-statistic	0.068282	Durbin-Watson stat	1.998785	
Prob(F-statistic)	0.794076			

Heteroskedasticity Test: ARCH				
F-statistic	0.547383	Prob. F(1,245)	0.4581	
Obs*R-squared	0.550602	Prob. Chi-Square(1)	0.4581	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 16:44 Sample (adjusted): 2 248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.104758	0.138884	0.747787	0.0000
WGT_RESID^2(-1)	-0.047237	0.063848	-0.739840	0.4601
R-squared	0.002281	Mean dependent var	0.999388	
Adjusted R-squared	-0.003184	S.D. dependent var	1.931398	
S.E. of regression	1.933250	Akaike info criterion	4.18272	
Sum squared resid	915.8083	Schwarz criterion	4.22688	
Log likelihood	-512.2875	Hannan-Quinn criter.	4.175712	
F-statistic	0.547383	Durbin-Watson stat	1.995613	
Prob(F-statistic)	0.460105			

2005

Heteroskedasticity Test: ARCH				
F-statistic	0.008414	Prob. F(1,244)	0.9270	
Obs*R-squared	0.008483	Prob. Chi-Square(1)	0.9266	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 16:49 Sample (adjusted): 2 247 Included observations: 246 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.003456	0.133026	7.543362	0.0000
WGT_RESID^2(-1)	-0.059575	0.064056	-0.917228	0.9270
R-squared	0.000324	Mean dependent var	0.997584	
Adjusted R-squared	-0.004064	S.D. dependent var	1.822390	
S.E. of regression	1.827092	Akaike info criterion	4.051425	
Sum squared resid	814.5363	Schwarz criterion	4.079923	
Log likelihood	-496.3252	Hannan-Quinn criter.	4.062900	
F-statistic	0.008414	Durbin-Watson stat	1.996710	
Prob(F-statistic)	0.926990			

2006

Heteroskedasticity Test: ARCH				
F-statistic	0.048473	Prob. F(1,245)	0.8259	
Obs*R-squared	0.048859	Prob. Chi-Square(1)	0.8251	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 16:52 Sample (adjusted): 2 246 Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.101556	0.137724	0.737380	0.0000
WGT_RESID^2(-1)	-0.012240	0.064121	-0.190083	0.8488
R-squared	0.000150	Mean dependent var	1.003315	
Adjusted R-squared	-0.003865	S.D. dependent var	1.904055	
S.E. of regression	1.907826	Akaike info criterion	4.137936	
Sum squared resid	884.4714	Schwarz criterion	4.166517	
Log likelihood	-504.8971	Hannan-Quinn criter.	4.149445	
F-statistic	0.036440	Durbin-Watson stat	2.001942	
Prob(F-statistic)	0.848769			

2007

Heteroskedasticity Test: ARCH				
F-statistic	0.017794	Prob. F(1,245)	0.3667	
Obs*R-squared	0.021727	Prob. Chi-Square(1)	0.3647	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 17:12 Sample (adjusted): 2 248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.009789	0.149563	6.750943	0.0000
WGT_RESID^2(-1)	-0.009686	0.063861	-0.220166	0.8259
R-squared	0.000198	Mean dependent var	0.995562	
Adjusted R-squared	-0.003885	S.D. dependent var	2.119139	
S.E. of regression	2.123250	Akaike info criterion	4.351837	
Sum squared resid	110.1404	Schwarz criterion	4.380253	
Log likelihood	-535.4579	Hannan-Quinn criter.	4.363277	
F-statistic	0.048473	Durbin-Watson stat	1.997421	
Prob(F-statistic)	0.825925			

2008

Heteroskedasticity Test: ARCH				
F-statistic	0.017794	Prob. F(1,245)	0.3667	
Obs*R-squared	0.021727	Prob. Chi-Square(1)	0.3647	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 01/31/11 Time: 17:18 Sample (adjusted): 2 248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.048900	0.133268	7.971175	0.0000
WGT_RESID^2(-1)	-0.058031	0.064171	-0.904230	0.3667
R-squared	0.003327	Mean dependent var	0.991817	
Adjusted R-squared	-0.000741	S.D. dependent var	1.843765	
S.E. of regression	1.844448	Akaike info criterion	4.070302	
Sum squared resid	322.0825	Schwarz criterion	4.098718	
Log likelihood	-500.8823	Hannan-Quinn criter.	4.081742	
F-statistic	0.017794	Durbin-Watson stat	1.976678	
Prob(F-statistic)	0.366714			

2009

2010

APPENDIX 69

Yearly Data LM Test for ARCH For KLCSU

Heteroskedasticity Test ARCH					
F-statistic	0.398761	Prob. F(1,240)	0.5283		
Obs*R-squared	0.401417	Prob. Chi-Square(1)	0.5264		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:11 Sample (adjusted): 2 243 Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.912417	0.132279	6.897691	0.0000	
WGT_RESID^2(-1)	0.040895	0.064761	0.631475	0.5283	
R-squared	0.001659	Mean dependent var	0.950766		
Adjusted R-squared	-0.002501	S.D. dependent var	1.825811		
S.E. of regression	1.830272	Akaike info criterion	4.052693		
Sum squared resid	3816.6112	Schwarz criterion	4.064481		
Log likelihood	-488.3710	Hannan-Quinn criter.	4.084269		
F-statistic	0.398761	Durbin-Watson stat	1.983739		
Prob(F-statistic)	0.528331				

2000

Heteroskedasticity Test ARCH					
F-statistic	0.126778	Prob. F(1,240)	0.7221		
Obs*R-squared	0.127775	Prob. Chi-Square(1)	0.7208		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:18 Sample (adjusted): 2 243 Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.968935	0.161940	5.983294	0.0000	
WGT_RESID^2(-1)	0.023089	0.064846	0.356058	0.7221	
R-squared	0.000528	Mean dependent var	0.991677		
Adjusted R-squared	-0.003637	S.D. dependent var	2.310750		
S.E. of regression	2.314958	Akaike info criterion	4.524890		
Sum squared resid	1286.1615	Schwarz criterion	4.553725		
Log likelihood	-547.5117	Hannan-Quinn criter.	4.536506		
F-statistic	0.126778	Durbin-Watson stat	1.987773		
Prob(F-statistic)	0.722110				

2001

Heteroskedasticity Test ARCH					
F-statistic	0.000939	Prob. F(1,245)	0.9756		
Obs*R-squared	0.000947	Prob. Chi-Square(1)	0.9754		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:22 Sample (adjusted): 2 248 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.993640	0.144118	6.894644	0.0000	
WGT_RESID^2(-1)	0.001946	0.063500	0.030650	0.9756	
R-squared	0.000004	Mean dependent var	0.995613		
Adjusted R-squared	-0.003637	S.D. dependent var	2.305463		
S.E. of regression	2.305463	Akaike info criterion	4.265525		
Sum squared resid	1006.105	Schwarz criterion	4.288941		
Log likelihood	-523.9278	Hannan-Quinn criter.	4.269995		
F-statistic	0.000939	Durbin-Watson stat	1.991253		
Prob(F-statistic)	0.975574				

2002

Heteroskedasticity Test ARCH					
F-statistic	0.018807	Prob. F(1,243)	0.8916		
Obs*R-squared	0.018759	Prob. Chi-Square(1)	0.8911		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:25 Sample (adjusted): 2 246 Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.999176	0.123124	8.115181	0.0000	
WGT_RESID^2(-1)	-0.008631	0.063274	-0.136409	0.8916	
R-squared	0.000077	Mean dependent var	0.990438		
Adjusted R-squared	-0.004038	S.D. dependent var	1.642534		
S.E. of regression	1.645847	Akaike info criterion	3.842518		
Sum squared resid	658.2418	Schwarz criterion	3.871099		
Log likelihood	-468.7084	Hannan-Quinn criter.	3.854028		
F-statistic	0.018807	Durbin-Watson stat	1.984398		
Prob(F-statistic)	0.891611				

Heteroskedasticity Test ARCH					
F-statistic	0.018589	Prob. F(1,245)	0.8917		
Obs*R-squared	0.018739	Prob. Chi-Square(1)	0.8911		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:28 Sample (adjusted): 2 248 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.012489	0.118947	8.512137	0.0000	
WGT_RESID^2(-1)	-0.023089	0.064342	-0.136342	0.8917	
R-squared	0.000076	Mean dependent var	1.003783		
Adjusted R-squared	-0.004038	S.D. dependent var	1.574023		
S.E. of regression	1.571712	Akaike info criterion	3.757208		
Sum squared resid	609.4305	Schwarz criterion	3.785624		
Log likelihood	-462.0152	Hannan-Quinn criter.	3.768649		
F-statistic	0.018589	Durbin-Watson stat	1.978762		
Prob(F-statistic)	0.891663				

2001

Heteroskedasticity Test ARCH					
F-statistic	0.005147	Prob. F(1,244)	0.9429		
Obs*R-squared	0.005189	Prob. Chi-Square(1)	0.9426		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:31 Sample (adjusted): 2 247 Included observations: 246 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.007195	0.119125	8.454943	0.0000	
WGT_RESID^2(-1)	-0.004590	0.063979	-0.071742	0.9429	
R-squared	0.000021	Mean dependent var	1.002619		
Adjusted R-squared	-0.004077	S.D. dependent var	1.574758		
S.E. of regression	1.577965	Akaike info criterion	3.758246		
Sum squared resid	1006.105	Schwarz criterion	3.786745		
Log likelihood	-523.9278	Hannan-Quinn criter.	3.769721		
F-statistic	0.005147	Durbin-Watson stat	2.000591		
Prob(F-statistic)	0.942866				

2002

Heteroskedasticity Test ARCH					
F-statistic	0.144466	Prob. F(1,243)	0.7042		
Obs*R-squared	0.145569	Prob. Chi-Square(1)	0.7028		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:36 Sample (adjusted): 2 246 Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.038171	0.119915	8.857548	0.0000	
WGT_RESID^2(-1)	-0.024371	0.0604120	-0.380077	0.7042	
R-squared	0.000594	Mean dependent var	1.013615		
Adjusted R-squared	-0.004039	S.D. dependent var	1.578499		
S.E. of regression	1.581273	Akaike info criterion	3.762468		
Sum squared resid	607.6034	Schwarz criterion	3.791049		
Log likelihood	-458.9023	Hannan-Quinn criter.	3.773978		
F-statistic	0.144466	Durbin-Watson stat	2.001981		
Prob(F-statistic)	0.704213				

2003

Heteroskedasticity Test ARCH					
F-statistic	0.103548	Prob. F(1,245)	0.7479		
Obs*R-squared	0.104349	Prob. Chi-Square(1)	0.7467		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 15:41 Sample (adjusted): 2 246 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.979401	0.133450	7.339073	0.0000	
WGT_RESID^2(-1)	0.020566	0.063911	0.321789	0.7479	
R-squared	0.000442	Mean dependent var	1.000037		
Adjusted R-squared	-0.003637	S.D. dependent var	1.835951		
S.E. of regression	1.839306	Akaike info criterion	4.064718		
Sum squared resid	828.8461	Schwarz criterion	4.093134		
Log likelihood	-499.9922	Hannan-Quinn criter.	4.076158		
F-statistic	0.103548	Durbin-Watson stat	1.994961		
Prob(F-statistic)	0.747887				

2004

Heteroskedasticity Test ARCH					
F-statistic	0.030218	Prob. F(1,245)	0.8621		
Obs*R-squared	0.030461	Prob. Chi-Square(1)	0.8614		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 16:13 Sample (adjusted): 2 248 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.008027	0.145123	6.805318	0.0000	
WGT_RESID^2(-1)	-0.011105	0.063862	-0.173834	0.8621	
R-squared	0.000123	Mean dependent var	0.998899		
Adjusted R-squared	-0.003958	S.D. dependent var	2.095180		
S.E. of regression	2.099322	Akaike info criterion	4.329170		
Sum squared resid	1079.752	Schwarz criterion	4.357586		
Log likelihood	-532.6552	Hannan-Quinn criter.	4.340611		
F-statistic	0.030218	Durbin-Watson stat	2.000103		
Prob(F-statistic)	0.862140				

2005

Heteroskedasticity Test ARCH					
F-statistic	0.008734	Prob. F(1,245)	0.9256		
Obs*R-squared	0.008805	Prob. Chi-Square(1)	0.9252		
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/21/11 Time: 16:10 Sample (adjusted): 2 248 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.971374	0.132406	7.336349	0.0000	
WGT_RESID^2(-1)	0.005971	0.063895	0.093455	0.9256	
R-squared	0.000336	Mean dependent var	0.977212		
Adjusted R-squared	-0.004046</td				

APPENDIX 70

Yearly Data LM Test for ARCH For KLFIN

Heteroskedasticity Test: ARCH					
F-statistic	0.723886	Prob. F(1,240)	0.3958		
Obs*R-squared	0.727523	Prob. Chi-Square(1)	0.3937		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:23 Sample (adjusted): 2 243 Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.865914	0.141903	6.008686	0.0000	
WGT_RESID^2(-1)	0.054827	0.064450	0.850697	0.3958	
R-squared	0.003006	Mean dependent var	1.021934		
Adjusted R-squared	-0.001148	S.D. dependent var	1.954277		
S.E. of regression	1.965399	Akaike info criterion	4.187295		
Sum squared resid	4.013111	Schwarz criterion	4.216136		
Log likelihood	-504.6527	Hannan-Quinn criter.	4.198911		
F-statistic	0.723886	Durbin-Watson stat	2.008622		
Prob(F-statistic)	0.395788				

Heteroskedasticity Test: ARCH					
F-statistic	0.053471	Prob. F(1,240)	0.8173		
Obs*R-squared	0.053905	Prob. Chi-Square(1)	0.8164		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:27 Sample (adjusted): 2 243 Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.011885	0.174140	5.910757	0.0000	
WGT_RESID^2(-1)	-0.014922	0.064532	-0.231239	0.8173	
R-squared	0.000223	Mean dependent var	0.996876		
Adjusted R-squared	-0.003943	S.D. dependent var	2.508816		
S.E. of regression	2.513757	Akaike info criterion	4.689664		
Sum squared resid	1516.553	Schwarz criterion	4.718498		
Log likelihood	-505.4494	Hannan-Quinn criter.	4.701280		
F-statistic	0.053471	Durbin-Watson stat	1.995127		
Prob(F-statistic)	0.817326				

Heteroskedasticity Test: ARCH					
F-statistic	0.019221	Prob. F(1,245)	0.8988		
Obs*R-squared	0.019377	Prob. Chi-Square(1)	0.8893		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:29 Sample (adjusted): 2 248 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.894328	0.120591	7.672830	0.0000	
WGT_RESID^2(-1)	0.008869	0.063971	0.138642	0.8898	
R-squared	0.000078	Mean dependent var	1.003132		
Adjusted R-squared	-0.004003	S.D. dependent var	1.777155		
S.E. of regression	1.775298	Akaike info criterion	3.993877		
Sum squared resid	772.0000	Schwarz criterion	4.022294		
Log likelihood	-491.2439	Hannan-Quinn criter.	4.005318		
F-statistic	0.019221	Durbin-Watson stat	1.996621		
Prob(F-statistic)	0.889847				

2000

2001

2002

Heteroskedasticity Test: ARCH					
F-statistic	0.683258	Prob. F(1,243)	0.4093		
Obs*R-squared	0.686950	Prob. Chi-Square(1)	0.4072		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:31 Sample (adjusted): 2 246 Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.946476	0.121852	7.767442	0.0000	
WGT_RESID^2(-1)	0.052990	0.064106	0.826594	0.4093	
R-squared	0.002804	Mean dependent var	0.999668		
Adjusted R-squared	-0.001313	S.D. dependent var	1.998562		
S.E. of regression	1.971144	Akaike info criterion	3.811662		
Sum squared resid	837.4252	Schwarz criterion	3.832084		
Log likelihood	-464.7719	Hannan-Quinn criter.	3.821892		
F-statistic	0.683258	Durbin-Watson stat	1.995197		
Prob(F-statistic)	0.409278				

Heteroskedasticity Test: ARCH					
F-statistic	0.022603	Prob. F(1,245)	0.8806		
Obs*R-squared	0.022786	Prob. Chi-Square(1)	0.8800		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:33 Sample (adjusted): 2 246 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.040314	0.135688	7.725919	0.0000	
WGT_RESID^2(-1)	0.009600	0.063855	0.150345	0.8806	
R-squared	0.000092	Mean dependent var	1.058458		
Adjusted R-squared	-0.003989	S.D. dependent var	1.846535		
S.E. of regression	1.850214	Akaike info criterion	4.076544		
Sum squared resid	838.2059	Schwarz criterion	4.104960		
Log likelihood	-501.4532	Hannan-Quinn criter.	4.087984		
F-statistic	0.022603	Durbin-Watson stat	2.001627		
Prob(F-statistic)	0.880616				

Heteroskedasticity Test: ARCH					
F-statistic	0.239881	Prob. F(1,244)	0.6247		
Obs*R-squared	0.241610	Prob. Chi-Square(1)	0.6230		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:37 Sample (adjusted): 2 247 Included observations: 246 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.044467	0.130318	8.014777	0.0000	
WGT_RESID^2(-1)	-0.031319	0.063946	-0.489776	0.6247	
R-squared	0.000982	Mean dependent var	1.012850		
Adjusted R-squared	-0.00312	S.D. dependent var	1.772793		
S.E. of regression	1.775550	Akaike info criterion	3.994194		
Sum squared resid	772.0000	Schwarz criterion	4.004935		
Log likelihood	-489.2859	Hannan-Quinn criter.	4.005669		
F-statistic	0.239881	Durbin-Watson stat	1.995333		
Prob(F-statistic)	0.624732				

2003

2004

2005

Heteroskedasticity Test: ARCH					
F-statistic	0.094184	Prob. F(1,243)	0.7592		
Obs*R-squared	0.094923	Prob. Chi-Square(1)	0.7580		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:40 Sample (adjusted): 2 246 Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.007930	0.143845	7.007034	0.0000	
WGT_RESID^2(-1)	-0.019660	0.060460	-0.306895	0.7592	
R-squared	0.000387	Mean dependent var	0.998337		
Adjusted R-squared	-0.003726	S.D. dependent var	2.013870		
S.E. of regression	2.017619	Akaike info criterion	3.424983		
Sum squared resid	889.2059	Schwarz criterion	4.278403		
Log likelihood	-464.5657	Hannan-Quinn criter.	4.181352		
F-statistic	0.094184	Durbin-Watson stat	1.996216		
Prob(F-statistic)	0.759188				

Heteroskedasticity Test: ARCH					
F-statistic	0.084368	Prob. F(1,245)	0.7717		
Obs*R-squared	0.085028	Prob. Chi-Square(1)	0.7708		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:42 Sample (adjusted): 2 246 Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.016696	0.117198	8.675033	0.0000	
WGT_RESID^2(-1)	-0.006378	0.063878	-0.290462	0.7717	
R-squared	0.000344	Mean dependent var	0.998132		
Adjusted R-squared	-0.003736	S.D. dependent var	1.541045		
S.E. of regression	1.543921	Akaike info criterion	3.714592		
Sum squared resid	854.0044	Schwarz criterion	3.743008		
Log likelihood	-456.7521	Hannan-Quinn criter.	3.726032		
F-statistic	0.084368	Durbin-Watson stat	2.002013		
Prob(F-statistic)	0.771708				

Heteroskedasticity Test: ARCH					
F-statistic	0.829306	Prob. F(1,243)	0.3634		
Obs*R-squared	0.832886	Prob. Chi-Square(1)	0.3613		
 Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/23/11 Time: 17:53 Sample (adjusted): 2 246 Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.062453	0.173989	6.106449	0.0000	
WGT_RESID^2(-1)	-0.059317	0.064038	-0.910663	0.3634	
R-squared	0.003401	Mean dependent var	1.003951		
Adjusted R-squared	-0.000700	S.D. dependent var	2.530036		
S.E. of regression	2.530922	Akaike info criterion	4.703174		
Sum squared resid	1566.552	Schwarz criterion	4.731755		
Log likelihood	-574.1388	Hannan-Quinn criter.	4.714684		
F-statistic	0.829306	Durbin-Watson stat	1.993164		
Prob(F-statistic)	0.363376				

2009

2010

APPENDIX 71

Yearly Data LM Test for ARCH For KLIND

Heteroskedasticity Test: ARCH					
F-statistic	0.294268	Prob. F(1,240)	0.5880		
Obs*R-squared	0.296356	Prob. Chi-Square(1)	0.5882		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:16					
Sample (adjusted): 2 243					
Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.092788	0.139538	7.831485	0.0000	
WGT_RESID^2(-1)	-0.035036	0.064587	-0.542464	0.5880	
R-squared	0.001225	Mean dependent var	1.056164		
Adjusted R-squared	0.002937	S.D. dependent var	1.096921		
S.E. of regression	0.004563	Akaike info criterion	4.126339		
Sum squared resid	864.1389	Schwarz criterion	4.156339		
Log likelihood	-497.6700	Hannan-Quinn criter.	4.141422		
F-statistic	0.294268	Durbin-Watson stat	1.096918		
Prob(F-statistic)	0.588002				

2000

Heteroskedasticity Test: ARCH					
F-statistic	0.008690	Prob. F(1,240)	0.7887		
Obs*R-squared	0.007381	Prob. Chi-Square(1)	0.7875		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:19					
Sample (adjusted): 2 243					
Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.983179	0.156978	6.263155	0.0000	
WGT_RESID^2(-1)	-0.064547	0.294431	0.7687		
R-squared	0.000361	Mean dependent var	1.002181		
Adjusted R-squared	-0.003084	S.D. dependent var	2.221854		
S.E. of regression	2.226076	Akaike info criterion	4.446588		
Sum squared resid	1192.0709	Schwarz criterion	4.475422		
Log likelihood	-528.0377	Hannan-Quinn criter.	4.458203		
F-statistic	0.008690	Durbin-Watson stat	1.997589		
Prob(F-statistic)	0.788683				

2001

Heteroskedasticity Test: ARCH					
F-statistic	0.009948	Prob. F(1,245)	0.9206		
Obs*R-squared	0.010029	Prob. Chi-Square(1)	0.9202		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:21					
Sample (adjusted): 2 248					
Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.996991	0.115327	8.558232	0.0000	
WGT_RESID^2(-1)	-0.063317	0.063334	0.098739	0.9206	
R-squared	0.000041	Mean dependent var	0.993376		
Adjusted R-squared	-0.004041	S.D. dependent var	1.504624		
S.E. of regression	1.507693	Akaike info criterion	3.667080		
Sum squared resid	526.8850	Schwarz criterion	3.695476		
Log likelihood	-450.8819	Hannan-Quinn criter.	3.678500		
F-statistic	0.009948	Durbin-Watson stat	1.985533		
Prob(F-statistic)	0.920633				

2002

Heteroskedasticity Test: ARCH					
F-statistic	0.005032	Prob. F(1,243)	0.9420		
Obs*R-squared	0.005345	Prob. Chi-Square(1)	0.9417		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:23					
Sample (adjusted): 2 246					
Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.989787	0.130358	7.592837	0.0000	
WGT_RESID^2(-1)	-0.046457	0.072813	0.9420		
R-squared	0.000022	Mean dependent var	0.994464		
Adjusted R-squared	-0.004993	S.D. dependent var	1.719123		
S.E. of regression	1.717746	Akaike info criterion	3.994222		
Sum squared resid	766.0725	Schwarz criterion	4.022804		
Log likelihood	-487.2922	Hannan-Quinn criter.	4.005732		
F-statistic	0.005302	Durbin-Watson stat	1.993310		
Prob(F-statistic)	0.942015				

2003

Heteroskedasticity Test: ARCH					
F-statistic	0.007101	Prob. F(1,244)	0.7115		
Obs*R-squared	0.0138148	Prob. Chi-Square(1)	0.7101		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:25					
Sample (adjusted): 2 247					
Included observations: 246 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.937524	0.108904	8.608726	0.0000	
WGT_RESID^2(-1)	-0.043763	0.053780	0.686317	0.4932	
R-squared	0.001905	Mean dependent var	0.890221		
Adjusted R-squared	-0.002155	S.D. dependent var	1.403288		
S.E. of regression	1.404882	Akaike info criterion	3.525720		
Sum squared resid	483.4981	Schwarz criterion	3.554147		
Log likelihood	-433.4277	Hannan-Quinn criter.	3.537171		
F-statistic	0.471031	Durbin-Watson stat	2.004510		
Prob(F-statistic)	0.493162				

2004

Heteroskedasticity Test: ARCH					
F-statistic	0.009720	Prob. F(1,245)	0.9786		
Obs*R-squared	0.009726	Prob. Chi-Square(1)	0.9785		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:29					
Sample (adjusted): 2 248					
Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.996645	0.243291	4.097338	0.0001	
WGT_RESID^2(-1)	-0.053878	0.026842	0.9786		
R-squared	0.000003	Mean dependent var	0.991024		
Adjusted R-squared	-0.004979	S.D. dependent var	3.891016		
S.E. of regression	3.689151	Akaike info criterion	5.456389		
Sum squared resid	333.2151	Schwarz criterion	5.484805		
Log likelihood	-471.8641	Hannan-Quinn criter.	5.467830		
F-statistic	0.000720	Durbin-Watson stat	1.999000		
Prob(F-statistic)	0.978605				

2005

Heteroskedasticity Test: ARCH					
F-statistic	0.576253	Prob. F(1,243)	0.4485		
Obs*R-squared	0.579621	Prob. Chi-Square(1)	0.4465		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:40					
Sample (adjusted): 2 246					
Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.055066	0.194082	5.430683	0.0000	
WGT_RESID^2(-1)	-0.048465	0.064081	-0.759113	0.4485	
R-squared	0.002366	Mean dependent var	1.006076		
Adjusted R-squared	-0.001740	S.D. dependent var	2.865533		
S.E. of regression	2.863031	Akaike info criterion	4.981063		
Sum squared resid	199.230	Schwarz criterion	4.982045		
Log likelihood	-404.7982	Hannan-Quinn criter.	4.984973		
F-statistic	0.576253	Durbin-Watson stat	2.000712		
Prob(F-statistic)	0.448521				

Heteroskedasticity Test: ARCH					
F-statistic	0.527795	Prob. F(1,245)	0.4682		
Obs*R-squared	0.530960	Prob. Chi-Square(1)	0.4682		
 Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 02/25/11 Time: 21:43					
Sample (adjusted): 2 248					
Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.852801	0.105633	8.073279	0.0000	
WGT_RESID^2(-1)	-0.046458	0.072849	0.4682		
R-squared	0.002150	Mean dependent var	0.894016		
Adjusted R-squared	-0.001923	S.D. dependent var	1.390954		
S.E. of regression	1.384945	Akai			

APPENDIX 72

Yearly data LM Test for ARCH For KLPRO

Heteroskedasticity Test: ARCH				
F-statistic	0.404878	Prob. F(1,240)	0.5252	
Obs*R-squared	0.407565	Prob. Chi-Square(1)	0.5252	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:38 Sample (adjusted): 2,243 Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.096336	0.150933	0.628860	0.0000
WGT_RESID^2(-1)	0.043019	0.057608	0.636301	0.5252
R-squared	0.001584	Mean dependent var	1.038900	
Adjusted R-squared	0.001245	S.D. dependent var	2.239076	
S.E. of regression	2.241845	Akaike info criterion	4.460706	
Sum squared resid	1206.209	Schwarz criterion	4.489540	
Log likelihood	-537.7454	Hannan-Quinn criter.	4.472321	
F-statistic	0.404878	Durbin-Watson stat	1.910235	
Prob(F-statistic)	0.525187			

2000

Heteroskedasticity Test: ARCH				
F-statistic	1.038421	Prob. F(1,240)	0.3097	
Obs*R-squared	1.040564	Prob. Chi-Square(1)	0.3077	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:41 Sample (adjusted): 2,243 Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.927277	0.130396	6.966963	0.0000
WGT_RESID^2(-1)	0.056415	0.064255	1.010048	0.3097
R-squared	0.004300	Mean dependent var	0.993056	
Adjusted R-squared	0.000151	S.D. dependent var	1.810284	
S.E. of regression	1.910147	Akaike info criterion	4.032923	
Sum squared resid	768.1904	Schwarz criterion	4.051757	
Log likelihood	-485.9837	Hannan-Quinn criter.	4.044539	
F-statistic	1.038421	Durbin-Watson stat	2.002115	
Prob(F-statistic)	0.309680			

2001

Heteroskedasticity Test: ARCH				
F-statistic	0.314819	Prob. F(1,245)	0.5753	
Obs*R-squared	0.316982	Prob. Chi-Square(1)	0.5734	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:43 Sample (adjusted): 2,248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.023897	0.120713	8.583295	0.0000
WGT_RESID^2(-1)	0.035781	0.063771	-0.561087	0.5753
R-squared	0.001283	Mean dependent var	0.997735	
Adjusted R-squared	-0.002793	S.D. dependent var	1.605382	
S.E. of regression	1.907930	Akaike info criterion	3.795445	
Sum squared resid	833.1904	Schwarz criterion	3.808370	
Log likelihood	-466.7386	Hannan-Quinn criter.	3.808895	
F-statistic	0.314819	Durbin-Watson stat	1.990469	
Prob(F-statistic)	0.575251			

2002

Heteroskedasticity Test: ARCH				
F-statistic	0.545263	Prob. F(1,243)	0.4610	
Obs*R-squared	0.548520	Prob. Chi-Square(1)	0.4599	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:45 Sample (adjusted): 2,246 Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.037959	0.124934	8.308061	0.0000
WGT_RESID^2(-1)	-0.047118	0.056381	-0.738419	0.4610
R-squared	0.002239	Mean dependent var	0.990604	
Adjusted R-squared	-0.001867	S.D. dependent var	1.676677	
S.E. of regression	1.678242	Akaike info criterion	3.881500	
Sum squared resid	684.4083	Schwarz criterion	3.910082	
Log likelihood	-473.4838	Hannan-Quinn criter.	3.893010	
F-statistic	0.545263	Durbin-Watson stat	1.991654	
Prob(F-statistic)	0.460972			

2003

Heteroskedasticity Test: ARCH				
F-statistic	0.003885	Prob. F(1,245)	0.9505	
Obs*R-squared	0.003693	Prob. Chi-Square(1)	0.9503	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:47 Sample (adjusted): 2,248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.997688	0.117418	8.495682	0.0000
WGT_RESID^2(-1)	0.003972	0.063927	0.662139	0.9505
R-squared	0.000016	Mean dependent var	1.001675	
Adjusted R-squared	-0.004056	S.D. dependent var	1.542368	
S.E. of regression	1.545500	Akaike info criterion	3.716635	
Sum squared resid	585.1997	Schwarz criterion	3.745052	
Log likelihood	-457.0046	Hannan-Quinn criter.	3.728077	
F-statistic	0.003861	Durbin-Watson stat	1.997739	
Prob(F-statistic)	0.950503			

2004

Heteroskedasticity Test: ARCH				
F-statistic	0.001446	Prob. F(1,244)	0.9697	
Obs*R-squared	0.001458	Prob. Chi-Square(1)	0.9695	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:49 Sample (adjusted): 2,247 Included observations: 246 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.997386	0.112748	8.757476	0.0000
WGT_RESID^2(-1)	0.002432	0.063958	0.038030	0.9697
R-squared	0.000006	Mean dependent var	0.989796	
Adjusted R-squared	-0.004092	S.D. dependent var	1.459485	
S.E. of regression	1.462469	Akaike info criterion	3.606226	
Sum squared resid	523.1997	Schwarz criterion	3.634724	
Log likelihood	-441.5659	Hannan-Quinn criter.	3.617701	
F-statistic	0.001446	Durbin-Watson stat	1.987896	
Prob(F-statistic)	0.959995			

2005

Heteroskedasticity Test: ARCH				
F-statistic	0.054899	Prob. F(1,243)	0.8149	
Obs*R-squared	0.055339	Prob. Chi-Square(1)	0.8140	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:51 Sample (adjusted): 2,246 Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.996187	0.137433	7.248544	0.0000
WGT_RESID^2(-1)	-0.064077	0.064077	-0.8149	
R-squared	0.000226	Mean dependent var	0.981320	
Adjusted R-squared	-0.003884	S.D. dependent var	1.904484	
S.E. of regression	1.908183	Akaike info criterion	4.138310	
Sum squared resid	684.0283	Schwarz criterion	4.166891	
Log likelihood	-504.9429	Hannan-Quinn criter.	4.146919	
F-statistic	0.054899	Durbin-Watson stat	1.996744	
Prob(F-statistic)	0.814945			

2006

Heteroskedasticity Test: ARCH				
F-statistic	0.537685	Prob. F(1,245)	0.4641	
Obs*R-squared	0.540887	Prob. Chi-Square(1)	0.4621	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:53 Sample (adjusted): 2,248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.949435	0.158349	5.995850	0.0000
WGT_RESID^2(-1)	0.046802	0.063826	0.733270	0.4541
R-squared	0.002190	Mean dependent var	0.996329	
Adjusted R-squared	-0.001883	S.D. dependent var	2.274512	
S.E. of regression	2.276652	Akaike info criterion	4.491353	
Sum squared resid	126.8711	Schwarz criterion	4.519770	
Log likelihood	-552.8889	Hannan-Quinn criter.	4.502794	
F-statistic	0.537685	Durbin-Watson stat	1.990219	
Prob(F-statistic)	0.464095			

2007

Heteroskedasticity Test: ARCH				
F-statistic	0.228946	Prob. F(1,245)	0.6327	
Obs*R-squared	0.230599	Prob. Chi-Square(1)	0.6311	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:59 Sample (adjusted): 2,248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.033135	0.122024	8.466888	0.0000
WGT_RESID^2(-1)	-0.036567	0.063862	-0.474843	0.6327
R-squared	0.000934	Mean dependent var	1.002537	
Adjusted R-squared	-0.003144	S.D. dependent var	1.630728	
S.E. of regression	1.633290	Akaike info criterion	3.827134	
Sum squared resid	653.5706	Schwarz criterion	3.855550	
Log likelihood	-470.6510	Hannan-Quinn criter.	3.838574	
F-statistic	0.228946	Durbin-Watson stat	1.992536	
Prob(F-statistic)	0.632734			

2008

Heteroskedasticity Test: ARCH				
F-statistic	2.219961	Prob. F(1,245)	0.1375	
Obs*R-squared	2.217986	Prob. Chi-Square(1)	0.1364	
Test Equation: Dependent Variable: WGT_RESID^2 Method: Least Squares Date: 02/28/11 Time: 17:57 Sample (adjusted): 2,248 Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-1.068753	0.120311	8.883269	0.0000
WGT_RESID^2(-1)	-0.094815	0.063636	-1.489954	0.1375
R-squared	0.008880	Mean dependent var	0.975696	
Adjusted R-squared	0.004935	S.D. dependent var	1.620093	
S.E. of regression	1.616091	Akaike info criterion	3.805962	
Sum squared resid	639.8788	Schwarz criterion	3.834378	
Log likelihood	-468.0363	Hannan-Quinn criter.	3.817402	
F-statistic	2.219961	Durbin-Watson stat	1.994732	
Prob(F-statistic)	0.137523			

2009

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APPENDIX 73

Yearly Data LM Test for ARCH For KLTIN

Heteroskedasticity Test: ARCH					
F-statistic	0.143034	Prob. F(1,240)	0.7056		
Obs*R-squared	0.144140	Prob. Chi-Square(1)	0.7042		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:26					
Sample (adjusted): 2 243					
Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.89094	0.165917	5.910735	0.0000	
WGT_RESID^2(-1)	0.024399	0.064515	0.378199	0.7056	
R-squared	0.00595	Mean dependent var	1.005124		
Adjusted R-squared	-0.00168	S.D. dependent var	2.373198		
S.E. of regression	2.377429	Akaike info criterion	4.578146		
Sum squared resid	1356.520	Schwarz criterion	4.606981		
Log likelihood	-515.520	Hannan-Quinn criter.	4.589762		
F-statistic	0.143034	Durbin-Watson stat	1.992054		
Prob(F-statistic)	0.705617				

2000

Heteroskedasticity Test: ARCH					
F-statistic	0.062010	Prob. F(1,240)	0.8036		
Obs*R-squared	0.062511	Prob. Chi-Square(1)	0.8026		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:28					
Sample (adjusted): 2 243					
Included observations: 242 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.984066	0.159044	6.187395	0.0000	
WGT_RESID^2(-1)	0.016076	0.064559	0.249019	0.8036	
R-squared	0.000258	Mean dependent var	1.000227		
Adjusted R-squared	-0.000258	S.D. dependent var	2.228745		
S.E. of regression	2.253788	Akaike info criterion	4.475762		
Sum squared resid	1224.508	Schwarz criterion	4.504596		
Log likelihood	-539.5672	Hannan-Quinn criter.	4.487378		
F-statistic	0.062010	Durbin-Watson stat	1.997557		
Prob(F-statistic)	0.803599				

2001

Heteroskedasticity Test: ARCH					
F-statistic	0.447257	Prob. F(1,245)	0.5043		
Obs*R-squared	0.450086	Prob. Chi-Square(1)	0.5023		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:30					
Sample (adjusted): 2 243					
Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.045128	0.152767	6.841333	0.0000	
WGT_RESID^2(-1)	-0.042683	0.063822	-0.668773	0.5043	
R-squared	0.001822	Mean dependent var	1.000252		
Adjusted R-squared	-0.000252	S.D. dependent var	2.789237		
S.E. of regression	2.192281	Akaike info criterion	4.406682		
Sum squared resid	1166.775	Schwarz criterion	4.435098		
Log likelihood	-542.2253	Hannan-Quinn criter.	4.418123		
F-statistic	0.447257	Durbin-Watson stat	1.995438		
Prob(F-statistic)	0.504270				

2002

Heteroskedasticity Test: ARCH					
F-statistic	0.545051	Prob. F(1,243)	0.4611		
Obs*R-squared	0.548307	Prob. Chi-Square(1)	0.4590		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:35					
Sample (adjusted): 2 246					
Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.952539	0.140524	6.778469	0.0000	
WGT_RESID^2(-1)	0.047314	0.064088	0.738276	0.4611	
R-squared	0.002238	Mean dependent var	0.999885		
Adjusted R-squared	-0.001686	S.D. dependent var	1.955311		
S.E. of regression	1.957135	Akaike info criterion	4.188972		
Sum squared resid	1236.504	Schwarz criterion	4.200482		
Log likelihood	-511.1490	Hannan-Quinn criter.	4.200482		
F-statistic	0.545051	Durbin-Watson stat	1.989020		
Prob(F-statistic)	0.461059				

2003

Heteroskedasticity Test: ARCH					
F-statistic	0.001823	Prob. F(1,246)	0.9881		
Obs*R-squared	0.001515	Prob. Chi-Square(1)	0.9890		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:37					
Sample (adjusted): 2 246					
Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.001823	0.150837	6.299309	0.0000	
WGT_RESID^2(-1)	0.002476	0.063887	0.038762	0.9891	
R-squared	0.000006	Mean dependent var	1.004310		
Adjusted R-squared	-0.000407	S.D. dependent var	2.282383		
S.E. of regression	2.287029	Akaike info criterion	4.500449		
Sum squared resid	1224.508	Schwarz criterion	4.528865		
Log likelihood	-553.3054	Hannan-Quinn criter.	4.511889		
F-statistic	0.001502	Durbin-Watson stat	1.999452		
Prob(F-statistic)	0.969112				

2004

Heteroskedasticity Test: ARCH					
F-statistic	1.23E-05	Prob. F(1,245)	0.9972		
Obs*R-squared	1.24E-05	Prob. Chi-Square(1)	0.9972		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:43					
Sample (adjusted): 2 248					
Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.005160	0.210921	4.773032	0.0000	
WGT_RESID^2(-1)	-0.002244	0.063887	-0.035035	0.9972	
R-squared	0.000000	Mean dependent var	1.005935		
Adjusted R-squared	-0.000100	S.D. dependent var	2.366399		
S.E. of regression	3.233406	Akaike info criterion	4.176154		
Sum squared resid	1684.82	Schwarz criterion	4.145381		
Log likelihood	-685.8084	Hannan-Quinn criter.	4.156821		
F-statistic	0.001937	Durbin-Watson stat	2.000107		
Prob(F-statistic)	0.982378				

2005

Heteroskedasticity Test: ARCH					
F-statistic	7.84E-05	Prob. F(1,243)	0.9929		
Obs*R-squared	7.91E-05	Prob. Chi-Square(1)	0.9929		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:47					
Sample (adjusted): 2 248					
Included observations: 245 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	1.012416	0.187376	5.403118	0.0000	
WGT_RESID^2(-1)	-0.000568	0.064151	0.008856	0.9929	
R-squared	0.000000	Mean dependent var	1.012992		
Adjusted R-squared	-0.004115	S.D. dependent var	2.745172		
S.E. of regression	2.750914	Akaike info criterion	4.689800		
Sum squared resid	1838.775	Schwarz criterion	4.698382		
Log likelihood	-594.5505	Hannan-Quinn criter.	4.681310		
F-statistic	7.84E-05	Durbin-Watson stat	1.999406		
Prob(F-statistic)	0.992941				

2006

Heteroskedasticity Test: ARCH					
F-statistic	0.190149	Prob. F(1,245)	0.6632		
Obs*R-squared	0.191553	Prob. Chi-Square(1)	0.6616		
Test Equation:					
Dependent Variable: WGT_RESID^2					
Method: Least Squares					
Date: 03/03/11 Time: 20:49					
Sample (adjusted): 2 248					
Included observations: 247 after adjustments					
Variable	Coefficient	Std. Error	t-Statistic	Prob.	
C	0.971780	0.209046	4.648645	0.0000	
WGT_RESID^2(-1)	0.027854	0.063876	0.436061	0.6632	
R-squared	0.000776	Mean dependent var	0.997476		

APPENDIX 74

Yearly Data LM Test for ARCH For KLPLN

<p style="text-align: center;">2000</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">Heteroskedasticity Test: ARCH</th> </tr> </thead> <tbody> <tr> <td>F-statistic</td> <td>0.754887</td> <td>Prob. F(1,243)</td> <td>0.3858</td> <td></td> </tr> <tr> <td>Obs*R-squared</td> <td>0.758743</td> <td>Prob. Chi-Square(1)</td> <td>0.3837</td> <td></td> </tr> <tr> <td colspan="5"> Test Equation: Dependent Variable: WGT_RESID*2 Method: Least Squares Date: 02/27/11 Time: 22:26 Sample (adjusted): 2 243 Included observations: 245 after adjustments</td> </tr> <tr> <td>Variable</td> <td>Coefficient</td> <td>Std. 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Sum squared resid	1162.767	Schwarz criterion	4.431657																																																																																																																																																																																																																	
Log likelihood	-541.8002	Hannan-Quinn criter.	4.414681																																																																																																																																																																																																																	
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APPENDIX 75

Yearly Data LM Test for ARCH For KLPRP

Heteroskedasticity Test: ARCH				
F-statistic	0.125454	Prob. F(1,240)	0.7235	
Obs*R-squared	0.126433	Prob. Chi-Square(1)	0.7222	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 16:57				
Sample (adjusted): 2 243				
Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.020307	0.150962	6.758683	0.0000
WGT_RESID^2(-1)	0.022856	0.064531	0.354195	0.7235
R-squared	0.000522	Mean dependent var	1.044168	
Adjusted R-squared	-0.003642	S.D. dependent var	2.097788	
S.E. of regression	1.637774	Akaike info criterion	3.971111	
Sum squared resid	1060.0118	Schwarz criterion	4.360344	
Log likelihood	-522.1127	Hannan-Quinn criter.	4.343125	
F-statistic	0.125454	Durbin-Watson stat	1.997253	
Prob(F-statistic)	0.723504			

Heteroskedasticity Test: ARCH				
F-statistic	0.302378	Prob. F(1,240)	0.5829	
Obs*R-squared	0.304514	Prob. Chi-Square(1)	0.5811	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 17:00				
Sample (adjusted): 2 243				
Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.957575	0.160737	5.957399	0.0000
WGT_RESID^2(-1)	0.035405	0.064386	0.549889	0.5829
R-squared	0.001258	Mean dependent var	0.993238	
Adjusted R-squared	-0.002903	S.D. dependent var	2.284604	
S.E. of regression	2.287918	Akaike info criterion	4.501391	
Sum squared resid	1527.0211	Schwarz criterion	4.530225	
Log likelihood	-542.8683	Hannan-Quinn criter.	4.513007	
F-statistic	0.302378	Durbin-Watson stat	2.004654	
Prob(F-statistic)	0.582907			

Heteroskedasticity Test: ARCH				
F-statistic	1.112646	Prob. F(1,245)	0.2925	
Obs*R-squared	1.116558	Prob. Chi-Square(1)	0.2906	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 17:02				
Sample (adjusted): 2 244				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.942730	0.137134	6.874535	0.0000
WGT_RESID^2(-1)	0.067205	0.063712	1.054821	0.2925
R-squared	0.004521	Mean dependent var	1.010449	
Adjusted R-squared	0.000458	S.D. dependent var	1.904897	
S.E. of regression	1.904461	Akaike info criterion	4.134339	
Sum squared resid	888.6081	Schwarz criterion	4.162755	
Log likelihood	-508.5909	Hannan-Quinn criter.	4.145780	
F-statistic	1.112646	Durbin-Watson stat	1.997568	
Prob(F-statistic)	0.292546			

2000

2001

2002

Heteroskedasticity Test: ARCH				
F-statistic	0.000381	Prob. F(1,243)	0.9844	
Obs*R-squared	0.000384	Prob. Chi-Square(1)	0.9844	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 17:04				
Sample (adjusted): 2 246				
Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.998584	0.122887	8.126004	0.0000
WGT_RESID^2(-1)	0.001254	0.064198	0.019528	0.9844
R-squared	0.000452	Mean dependent var	0.999845	
Adjusted R-squared	-0.000114	S.D. dependent var	1.634415	
S.E. of regression	1.637774	Akaike info criterion	3.971111	
Sum squared resid	651.7989	Schwarz criterion	3.881263	
Log likelihood	-467.5035	Hannan-Quinn criter.	3.844191	
F-statistic	0.000381	Durbin-Watson stat	1.998240	
Prob(F-statistic)	0.984438			

Heteroskedasticity Test: ARCH				
F-statistic	0.536020	Prob. F(1,245)	0.4848	
Obs*R-squared	0.539216	Prob. Chi-Square(1)	0.4828	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 17:07				
Sample (adjusted): 2 248				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.049057	0.141789	7.401976	0.0000
WGT_RESID^2(-1)	-0.047625	0.063820	-0.732134	0.4848
R-squared	0.001853	Mean dependent var	1.000550	
Adjusted R-squared	-0.001693	S.D. dependent var	1.986593	
S.E. of regression	1.988469	Akaike info criterion	4.220871	
Sum squared resid	968.7322	Schwarz criterion	4.249087	
Log likelihood	-497.2329	Hannan-Quinn criter.	4.232112	
F-statistic	0.536020	Durbin-Watson stat	1.996705	
Prob(F-statistic)	0.464787			

Heteroskedasticity Test: ARCH				
F-statistic	0.000010	Prob. F(1,244)	0.9760	
Obs*R-squared	0.000017	Prob. Chi-Square(1)	0.9758	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 17:09				
Sample (adjusted): 2 247				
Included observations: 246 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.004619	0.133467	7.527072	0.0000
WGT_RESID^2(-1)	-0.019132	0.064050	-0.303165	0.9760
R-squared	0.000004	Mean dependent var	1.002675	
Adjusted R-squared	-0.004095	S.D. dependent var	1.823608	
S.E. of regression	1.833350	Akaike info criterion	4.058263	
Sum squared resid	820.1257	Schwarz criterion	4.087672	
Log likelihood	-497.1664	Hannan-Quinn criter.	4.097388	
F-statistic	0.000010	Durbin-Watson stat	1.998556	
Prob(F-statistic)	0.975961			

2003

2004

2005

Heteroskedasticity Test: ARCH				
F-statistic	0.115565	Prob. F(1,243)	0.7324	
Obs*R-squared	0.116461	Prob. Chi-Square(1)	0.7329	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 17:11				
Sample (adjusted): 2 244				
Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.03587	0.156092	6.621653	0.0000
WGT_RESID^2(-1)	-0.021979	0.064118	0.041184	0.7324
R-squared	0.000475	Mean dependent var	1.011596	
Adjusted R-squared	-0.003638	S.D. dependent var	2.219509	
S.E. of regression	2.223543	Akaike info criterion	4.444210	
Sum squared resid	120.1426	Schwarz criterion	4.472792	
Log likelihood	-424.4158	Hannan-Quinn criter.	4.455720	
F-statistic	0.115565	Durbin-Watson stat	2.000349	
Prob(F-statistic)	0.734949			

Heteroskedasticity Test: ARCH				
F-statistic	0.016038	Prob. F(1,245)	0.8993	
Obs*R-squared	0.016168	Prob. Chi-Square(1)	0.8988	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date 03/01/11 Time: 17:14				
Sample (adjusted): 2 248				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.008650	0.142316	7.086700	0.0000
WGT_RESID^2(-1)	-0.008089	0.063871	-0.126540	0.8993
R-squared	0.000056	Mean dependent var	1.000467	
Adjusted R-squared	-0.004016	S.D. dependent var	1.995018	
S.E. of regression	1.995018	Akaike info criterion	4.213119	
Sum squared resid	978.1224	Schwarz criterion	4.229735	
Log likelihood	-520.8679	Hannan-Quinn criter.	4.247680	
F-statistic	0.016038	Durbin-Watson stat	2.002006	
Prob(F-statistic)	0.899329			

Heteroskedasticity Test: ARCH				
F-statistic	0.039396	Prob. F(1,243)	0.8428	
Obs*R-squared	0.039714	Prob. Chi-Square(1)	0.8420	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method:				

APPENDIX 76

Yearly Data LM Test for ARCH For KLSER

Heteroskedasticity Test: ARCH				
F-statistic	1.181942	Prob. F(1,240)	0.2781	
Obs*R-squared	1.185851	Prob. Chi-Square(1)	0.2782	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 17:38				
Sample (adjusted): 2 243				
Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.950539	0.133083	7.143194	0.0000
WGT_RESID^2(-1)	0.699795	0.064367	10.87126	0.2781
R-squared	0.004900	S.D. dependent var	1.021657	
Adjusted R-squared	0.000754	S.D. dependent var	1.043480	
S.E. of regression	1.803700	Akaike info criterion	4.025787	
Sum squared resid	780.7999	Schwarz criterion	4.054621	
Log likelihood	-485.1202	Hannan-Quinn criter.	4.037403	
F-statistic	1.181942	Durbin-Watson stat	1.998933	
Prob(F-statistic)	0.278072			

2000

Heteroskedasticity Test: ARCH				
F-statistic	0.117619	Prob. F(1,240)	0.7319	
Obs*R-squared	0.118954	Prob. Chi-Square(1)	0.7306	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 17:41				
Sample (adjusted): 2 243				
Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.975107	0.147907	6.592690	0.0000
WGT_RESID^2(-1)	0.022126	0.064517	0.342956	0.7319
R-squared	0.000490	S.D. dependent var	0.997322	
Adjusted R-squared	-0.003675	S.D. dependent var	2.064725	
S.E. of regression	2.068515	Akaike info criterion	4.299769	
Sum squared resid	100.0000	Schwarz criterion	4.300404	
Log likelihood	-518.2721	Hannan-Quinn criter.	4.113985	
F-statistic	0.117619	Durbin-Watson stat	2.003316	
Prob(F-statistic)	0.731932			

2001

Heteroskedasticity Test: ARCH				
F-statistic	1.094712	Prob. F(1,245)	0.2965	
Obs*R-squared	1.098740	Prob. Chi-Square(1)	0.2945	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 17:44				
Sample (adjusted): 2 248				
Included observations: 242 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.068600	0.122766	8.683173	0.0000
WGT_RESID^2(-1)	-0.066653	0.033705	-1.046285	0.2965
R-squared	0.004448	S.D. dependent var	0.998792	
Adjusted R-squared	0.000385	S.D. dependent var	1.644552	
S.E. of regression	2.068515	Akaike info criterion	3.700492	
Sum squared resid	100.0000	Schwarz criterion	3.800009	
Log likelihood	-472.3008	Hannan-Quinn criter.	3.851933	
F-statistic	1.094712	Durbin-Watson stat	1.989442	
Prob(F-statistic)	0.296461			

2002

Heteroskedasticity Test: ARCH				
F-statistic	0.165815	Prob. F(1,243)	0.6842	
Obs*R-squared	0.167066	Prob. Chi-Square(1)	0.5827	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 17:47				
Sample (adjusted): 2 246				
Included observations: 245 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.897662	0.115872	8.350279	0.0000
WGT_RESID^2(-1)	0.025974	0.063786	0.407204	0.6842
R-squared	0.000682	S.D. dependent var	0.939756	
Adjusted R-squared	-0.004331	S.D. dependent var	1.505948	
S.E. of regression	1.508529	Akaike info criterion	3.668277	
Sum squared resid	780.7999	Schwarz criterion	3.698859	
Log likelihood	-447.3840	Hannan-Quinn criter.	3.579787	
F-statistic	0.165815	Durbin-Watson stat	1.986992	
Prob(F-statistic)	0.684217			

2003

Heteroskedasticity Test: ARCH				
F-statistic	0.072541	Prob. F(1,245)	0.7879	
Obs*R-squared	0.073111	Prob. Chi-Square(1)	0.7869	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 17:49				
Sample (adjusted): 2 248				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.026084	0.131623	7.795543	0.0000
WGT_RESID^2(-1)	-0.017209	0.063896	-0.269334	0.7879
R-squared	0.000296	S.D. dependent var	1.008698	
Adjusted R-squared	-0.003784	S.D. dependent var	1.799348	
S.E. of regression	1.802750	Akaike info criterion	4.024568	
Sum squared resid	796.2272	Schwarz criterion	4.052984	
Log likelihood	-495.0341	Hannan-Quinn criter.	4.036008	
F-statistic	0.072541	Durbin-Watson stat	2.000879	
Prob(F-statistic)	0.787899			

2004

Heteroskedasticity Test: ARCH				
F-statistic	0.002466	Prob. F(1,244)	0.9890	
Obs*R-squared	0.002426	Prob. Chi-Square(1)	0.9867	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 17:52				
Sample (adjusted): 2 247				
Included observations: 246 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.994222	0.117011	8.541284	0.0000
WGT_RESID^2(-1)	0.003141	0.064046	0.049049	0.9869
R-squared	0.000010	S.D. dependent var	1.002576	
Adjusted R-squared	-0.004088	S.D. dependent var	1.530218	
S.E. of regression	1.533343	Akaike info criterion	3.700874	
Sum squared resid	573.6782	Schwarz criterion	3.729373	
Log likelihood	-452.0347	Hannan-Quinn criter.	3.712348	
F-statistic	0.002408	Durbin-Watson stat	1.998723	
Prob(F-statistic)	0.960320			

2005

Heteroskedasticity Test: ARCH				
F-statistic	1.863675	Prob. F(1,245)	0.1735	
Obs*R-squared	1.864704	Prob. Chi-Square(1)	0.1721	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 18:02				
Sample (adjusted): 2 248				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.061492	0.110968	9.557173	0.0000
WGT_RESID^2(-1)	-0.086958	0.063698	-1.365165	0.1735
R-squared	0.007549	S.D. dependent var	0.976338	
Adjusted R-squared	0.003499	S.D. dependent var	1.446824	
S.E. of regression	1.444291	Akaike info criterion	3.581178	
Sum squared resid	511.0642	Schwarz criterion	3.609594	
Log likelihood	-412.2755	Hannan-Quinn criter.	3.592619	
F-statistic	1.863675	Durbin-Watson stat	1.977610	
Prob(F-statistic)	0.173454			

2006

Heteroskedasticity Test: ARCH				
F-statistic	0.324424	Prob. F(1,245)	0.5695	
Obs*R-squared	0.326640	Prob. Chi-Square(1)	0.5676	
Test Equation:				
Dependent Variable: WGT_RESID^2				
Method: Least Squares				
Date: 03/02/11 Time: 18:04				
Sample (adjusted): 2 248				
Included observations: 247 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.034903	0.117496	8.807984	0.0000
WGT_RESID^2(-1)	-0.036375	0.063862	-0.569583	0.5695
R-squared	0.001322	S.D. dependent var	0.998338	
Adjusted R-squared	-0.002754	S.D. dependent var	1.544494	
S.E. of regression	1.546009	Akaike info criterion	3.718071	
Sum squared resid	586.0398	Schwarz criterion	3.746487	
Log likelihood	-457.1817	Hannan-Quinn criter.	3.729511	
F-statistic	0.324424	Durbin-Watson stat	1.994284	
Prob(F-statistic)	0.569488			

2007

Heteroskedasticity Test: ARCH				
F-statistic	0.052712	Prob. F(1,243)	0.8025	
Obs*R-squared	0.053212	Prob. Chi-Square(1)	0.8015	
Test Equation:				

APPENDIX 77

Yearly Data LM Test for ARCH For KLTEC

Heteroskedasticity Test: ARCH				
F-statistic	0.002470	Prob. F(1,153)	0.9604	
Obs*R-squared	0.002502	Prob. Chi-Square(1)	0.9601	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 15:54
Sample (adjusted): 2 155
Included observations: 155 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.989733	0.172910	5.723981	0.0000
WGT_RESID^2(-1)	0.064016	0.080814	0.049695	0.9604
R-squared	0.000016	Mean dependent var	0.993717	
Adjusted R-squared	-0.005520	S.D. dependent var	1.901253	
S.E. of regression	1.907441	Akaike info criterion	4.142222	
Sum squared resid	555.6548	Schwarz criterion	4.161492	
Log likelihood	-749.2792	Hannan-Quinn criter.	4.158172	
F-statistic	0.002470	Durbin-Watson stat	2.000248	
Prob(F-statistic)	0.960430			

2000

Heteroskedasticity Test: ARCH				
F-statistic	0.189698	Prob. F(1,240)	0.6636	
Obs*R-squared	0.191127	Prob. Chi-Square(1)	0.6620	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 15:56
Sample (adjusted): 2 243
Included observations: 243 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.027211	0.173315	5.926859	0.0000
WGT_RESID^2(-1)	0.064524	0.043543	0.6636	
R-squared	0.000790	Mean dependent var	0.998917	
Adjusted R-squared	-0.003374	S.D. dependent var	2.495377	
S.E. of regression	2.430489	Akaike info criterion	4.678355	
Sum squared resid	1489.489	Schwarz criterion	4.710189	
Log likelihood	-564.8809	Hannan-Quinn criter.	4.689970	
F-statistic	0.189698	Durbin-Watson stat	1.996692	
Prob(F-statistic)	0.663560			

2001

Heteroskedasticity Test: ARCH				
F-statistic	0.023577	Prob. F(1,245)	0.8781	
Obs*R-squared	0.023767	Prob. Chi-Square(1)	0.8775	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 15:58
Sample (adjusted): 2 248
Included observations: 247 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.019141	0.120569	8.452728	0.0000
WGT_RESID^2(-1)	-0.009801	0.063861	-0.153548	0.8781
R-squared	0.000096	Mean dependent var	1.009257	
Adjusted R-squared	0.003298	S.D. dependent var	1.599805	
S.E. of regression	1.502269	Akaike info criterion	3.788783	
Sum squared resid	628.9802	Schwarz criterion	3.817199	
Log likelihood	-465.9147	Hannan-Quinn criter.	3.800223	
F-statistic	0.023577	Durbin-Watson stat	1.969718	
Prob(F-statistic)	0.878092			

2002

Heteroskedasticity Test: ARCH				
F-statistic	5.91E-08	Prob. F(1,243)	0.9981	
Obs*R-squared	5.96E-08	Prob. Chi-Square(1)	0.9981	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 16:02
Sample (adjusted): 2 246
Included observations: 245 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.992339	0.127622	7.775608	0.0000
WGT_RESID^2(-1)	-0.000155	0.063610	-0.022430	0.9981
R-squared	0.000000	Mean dependent var	0.992162	
Adjusted R-squared	-0.000156	S.D. dependent var	1.721905	
S.E. of regression	1.725444	Akaike info criterion	3.936079	
Sum squared resid	732.4495	Schwarz criterion	3.965558	
Log likelihood	-480.2798	Hannan-Quinn criter.	3.948486	
F-statistic	5.91E-06	Durbin-Watson stat	1.988702	
Prob(F-statistic)	0.998063			

2003

Heteroskedasticity Test: ARCH				
F-statistic	1.260338	Prob. F(1,245)	0.2627	
Obs*R-squared	1.264122	Prob. Chi-Square(1)	0.2609	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 16:06
Sample (adjusted): 2 248
Included observations: 247 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1.084511	0.140693	7.708345	0.0000
WGT_RESID^2(-1)	-0.071541	0.063726	-1.122647	0.2627
R-squared	0.005118	Mean dependent var	1.012409	
Adjusted R-squared	0.001057	S.D. dependent var	1.968381	
S.E. of regression	1.967341	Akaike info criterion	4.199307	
Sum squared resid	942.2625	Schwarz criterion	4.227723	
Log likelihood	-516.8144	Hannan-Quinn criter.	4.210747	
F-statistic	1.260338	Durbin-Watson stat	1.985306	
Prob(F-statistic)	0.262688			

2004

Heteroskedasticity Test: ARCH				
F-statistic	0.182570	Prob. F(1,244)	0.6696	
Obs*R-squared	0.183929	Prob. Chi-Square(1)	0.6680	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 16:08
Sample (adjusted): 2 247
Included observations: 246 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.960699	0.123078	7.849628	0.0000
WGT_RESID^2(-1)	0.027253	0.063783	0.427282	0.6696
R-squared	0.000748	Mean dependent var	0.993543	
Adjusted R-squared	-0.003348	S.D. dependent var	1.543886	
S.E. of regression	1.640335	Akaike info criterion	3.934442	
Sum squared resid	641.5931	Schwarz criterion	3.934441	
Log likelihood	-470.7434	Hannan-Quinn criter.	3.854917	
F-statistic	0.182570	Durbin-Watson stat	1.985502	
Prob(F-statistic)	0.669551			

2005

Heteroskedasticity Test: ARCH				
F-statistic	0.951547	Prob. F(1,243)	0.3303	
Obs*R-squared	0.955636	Prob. Chi-Square(1)	0.3283	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 16:10
Sample (adjusted): 2 248
Included observations: 247 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.945091	0.151666	6.231400	0.0000
WGT_RESID^2(-1)	-0.063223	0.063778	-0.991289	0.3283
R-squared	0.003995	Mean dependent var	1.001638	
Adjusted R-squared	-0.000071	S.D. dependent var	2.075393	
S.E. of regression	2.075466	Akaike info criterion	4.306313	
Sum squared resid	105.3352	Schwarz criterion	4.334729	
Log likelihood	-529.8297	Hannan-Quinn criter.	4.317754	
F-statistic	0.982654	Durbin-Watson stat	1.991275	
Prob(F-statistic)	0.322523			

Heteroskedasticity Test: ARCH				
F-statistic	2.241179	Prob. F(1,245)	0.1357	
Obs*R-squared	2.238993	Prob. Chi-Square(1)	0.1346	

Test Equation:
Dependent Variable: WGT_RESID^2
Method: Least Squares
Date: 03/03/11 Time: 16:21
Sample (adjusted): 2 248
Included observations: 247 after adjustments

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.941153	0.137619	6.838815	0.0000
WGT_RESID^2(-1)	0.095251	0.063625	1.497057	0.1357
R-squared	0.009915	Mean dependent var	1.010451	
Adjusted R-squared	0.002909	S.D. dependent var	1.898453	
S.E. of regression	1.898568	Akaike info criterion	4.124451	
Sum squared resid	879.8643	Schwarz criterion	4.152867	
Log likelihood	-507.8969	Hannan-Quinn criter.	4.135891	
F-statistic	2.241179	Durbin-Watson stat	1.996299	
Prob(F-statistic)	0.135666			

2006

2007

Heteroskedasticity Test: ARCH</				