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The SAS System

The AUTOREG Procedure

Dependent Variable return

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The SAS System

The AUTOREG Procedure

Ordinary Least Squares Estimates						
SSE	0.64491032	0.64491032 DFE 156				
MSE	0.0004274	Root MSE	0.02067			
SBC	-7422.8343	AIC	-7428.1541			
MAE	0.01447432	AICC	-7428.1515			
MAPE	115.633514	HQC	-7426.1729			
Durbin-Watson	2.2221	Total R-Square	0.0000			

Parameter Estimates					
Variable DF Estimate Standard t Value Pr > t					
Intercept	1	0.001001	0.000532	1.88	0.0600

Algorithm converged.

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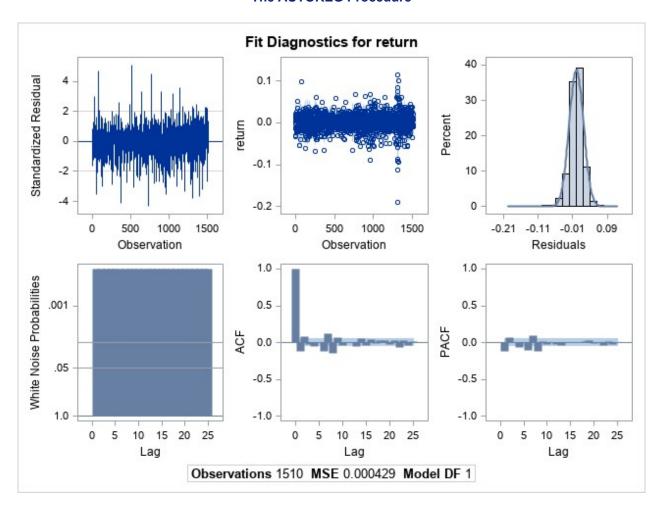
The SAS System

Exponential GARCH Estimates					
SSE	0.64513263	Observations	1510		
MSE	0.0004272	Uncond Var			
Log Likelihood	3887.23444	Total R-Square			
SBC	-7737.8696	AIC	-7764.4689		
MAE	0.01449064	AICC	-7764.429		
MAPE	108.348373	HQC	-7754.563		
		Normality Test	267.5311		
		Pr > ChiSq	<.0001		

Barranto Fall vata					
		Paramete	r Estimates		
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	0.000618	0.000467	1.32	0.1863
EARCH0	1	-0.2360	0.0479	-4.92	<.0001
EARCH1	1	0.1126	0.0158	7.11	<.0001
EGARCH1	1	0.9697	0.006032	160.77	<.0001
THETA	1	-0.8808	0.1711	-5.15	<.0001

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The SAS System



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The SAS System

The AUTOREG Procedure

Dependent Variable return

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The SAS System

The AUTOREG Procedure

Ordinary Least Squares Estimates					
SSE	0.64491032 DFE 150				
MSE	0.0004274	Root MSE	0.02067		
SBC	-7422.8343	AIC	-7428.1541		
MAE	0.01447432	AICC	-7428.1515		
MAPE	115.633514	HQC	-7426.1729		
Durbin-Watson	2.2221	Total R-Square	0.0000		

Parameter Estimates					
Variable DF Estimate Standard t Value Pr > t					
Intercept	1	0.001001	0.000532	1.88	0.0600

ERROR: Convergence not attained in 50 iterations. Interpret the estimates with care.

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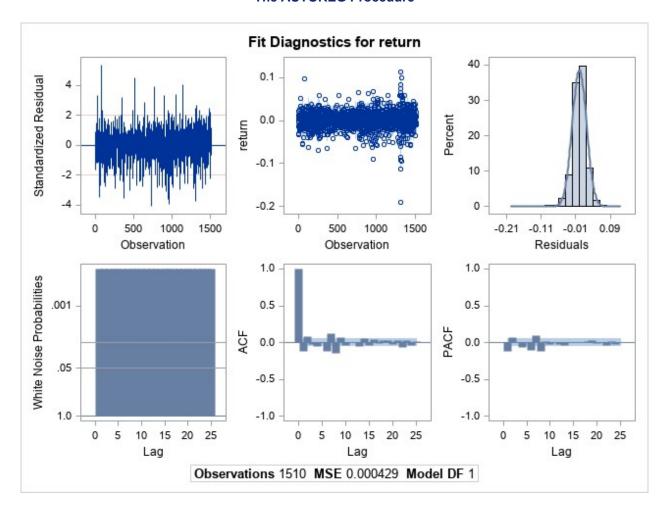
The SAS System

Exponential GARCH Estimates					
SSE	0.64526015	Observations	1510		
MSE	0.0004273	Uncond Var			
Log Likelihood	3872.34354	Total R-Square			
SBC	-7693.448	AIC	-7730.6871		
MAE	0.01449569	AICC	-7730.6125		
MAPE	106.635679	HQC	-7716.8188		
		Normality Test	239.5240		
		Pr > ChiSq	<.0001		

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	0.000520	0.000460	1.13	0.2586
EARCH0	1	-0.8203	0.1774	-4.62	<.0001
EARCH1	1	0.2051	0.0233	8.80	<.0001
EARCH2	1	0.2071	0.0244	8.49	<.0001
EGARCH1	1	-0.0555	0.0106	-5.24	<.0001
EGARCH2	1	0.9502	0.0119	79.85	<.0001
THETA	1	-0.0316	0.0783	-0.40	0.6861

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The SAS System



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The SAS System

The AUTOREG Procedure

Dependent Variable return

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The SAS System

The AUTOREG Procedure

Ordinary Least Squares Estimates					
SSE	0.64491032 DFE 150				
MSE	0.0004274	Root MSE	0.02067		
SBC	-7422.8343	AIC	-7428.1541		
MAE	0.01447432	AICC	-7428.1515		
MAPE	115.633514	HQC	-7426.1729		
Durbin-Watson	2.2221	Total R-Square	0.0000		

Parameter Estimates					
Variable DF Estimate Standard t Value Pr > t					
Intercept	1	0.001001	0.000532	1.88	0.0600

ERROR: Convergence not attained in 50 iterations. Interpret the estimates with care.

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The SAS System

Exponential GARCH Estimates					
SSE	0.64491162	491162 Observations			
MSE	0.0004271	Uncond Var			
Log Likelihood	3895.5375	Total R-Square			
SBC	-7725.1962	AIC	-7773.075		
MAE	0.01447323	AICC	-7772.955		
MAPE	116.208185	HQC	-7755.2444		
		Normality Test	201.9391		
		Pr > ChiSq	<.0001		

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	0.001031	0.000446	2.31	0.0208
EARCH0	1	-0.8285	0.1653	-5.01	<.0001
EARCH1	1	0.1101	0.0147	7.51	<.0001
EARCH2	1	0.1604	0.0213	7.54	<.0001
EARCH3	1	0.0950	0.0125	7.61	<.0001
EGARCH1	1	-0.4028	0.006002	-67.12	<.0001
EGARCH2	1	0.3346	0.008353	40.06	<.0001
EGARCH3	1	0.9643	0.006636	145.32	<.0001
THETA	1	-0.9831	0.1701	-5.78	<.0001

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The SAS System

