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GARCH family

Model	egarch_1_1
Dependent Variable	return

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GARCH family

The AUTOREG Procedure

Ordinary Least Squares Estimates				
SSE	0.64642471	DFE	1510	
MSE	0.0004281	Root MSE	0.02069	
SBC	-7426.6125	AIC	-7426.6125	
MAE	0.01447432	AICC	-7426.6125	
MAPE	115.633513	HQC	-7426.6125	
Durbin-Watson	2.2169	Total R-Square	0.0000	
NOTE: No intercept term is used. R-squares are redefined.				

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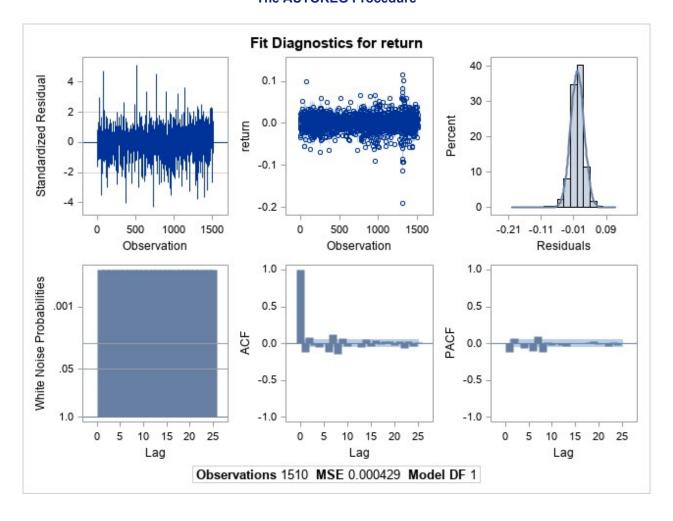
GARCH family

Exponential GARCH Estimates				
SSE	0.64642471	Observations	1510	
MSE	0.0004281	Uncond Var		
Log Likelihood	3886.24378	Total R-Square	0.0000	
SBC	-7743.2081	AIC	-7764.4876	
MAE	0.01452935	AICC	-7764.461	
MAPE	100	HQC	-7756.5628	
		Normality Test	251.6127	
		Pr > ChiSq	<.0001	
NOTE: No intercept term is used. R-squares are redefined.				

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
EARCH0	1	-0.2438	0.0482	-5.05	<.0001
EARCH1	1	0.1126	0.0158	7.14	<.0001
EGARCH1	1	0.9683	0.006089	159.02	<.0001
THETA	1	-0.9152	0.1677	-5.46	<.0001

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GARCH family



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GARCH family

Model	qgarch_1_1
Dependent Variable	return

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GARCH family

The AUTOREG Procedure

Ordinary Least Squares Estimates				
SSE	0.64642471	DFE	1510	
MSE	0.0004281	Root MSE	0.02069	
SBC	-7426.6125	AIC	-7426.6125	
MAE	0.01447432	AICC	-7426.6125	
MAPE	115.633513	HQC	-7426.6125	
Durbin-Watson	2.2169	Total R-Square	0.0000	
NOTE: No intercept term is used. R-squares are redefined.				

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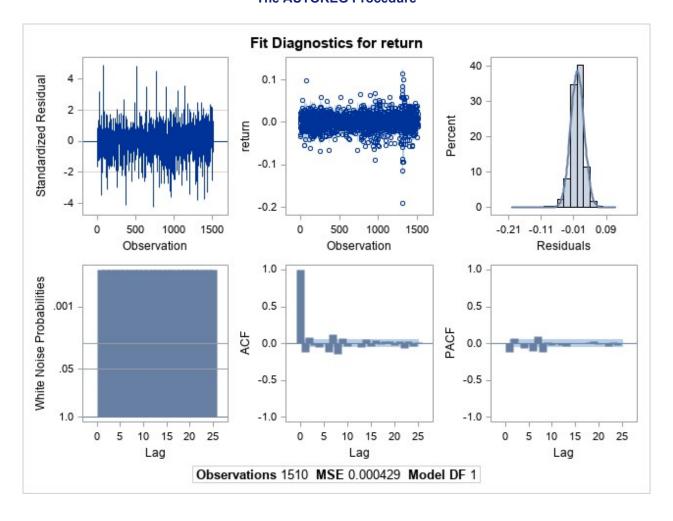
GARCH family

Quadratic GARCH Estimates				
SSE	0.64642471	Observations	1510	
MSE	0.0004281	Uncond Var	0.00010735	
Log Likelihood	3879.51218	Total R-Square	0.0000	
SBC	-7729.7449	AIC	-7751.0244	
MAE	0.01452935	AICC	-7750.9978	
MAPE	100	HQC	-7743.0996	
		Normality Test	265.5403	
		Pr > ChiSq	<.0001	
NOTE: No intercept term is used. R-squares are redefined.				

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
QARCHA0	1	2.7139E-6	4.1072E-6	0.66	0.5088
QARCHA1	1	0.0587	0.008614	6.81	<.0001
QARCHB1	1	0.0155	0.002764	5.62	<.0001
QGARCH1	1	0.9005	0.0143	62.97	<.0001

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GARCH family



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GARCH family

Model	tgarch_1_1
Dependent Variable	return

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GARCH family

The AUTOREG Procedure

Ordinary Least Squares Estimates				
SSE	0.64642471	DFE	1510	
MSE	0.0004281	Root MSE	0.02069	
SBC	-7426.6125	AIC	-7426.6125	
MAE	0.01447432	AICC	-7426.6125	
MAPE	115.633513	HQC	-7426.6125	
Durbin-Watson	2.2169	Total R-Square	0.0000	
NOTE: No intercept term is used. R-squares are redefined.				

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GARCH family

The AUTOREG Procedure

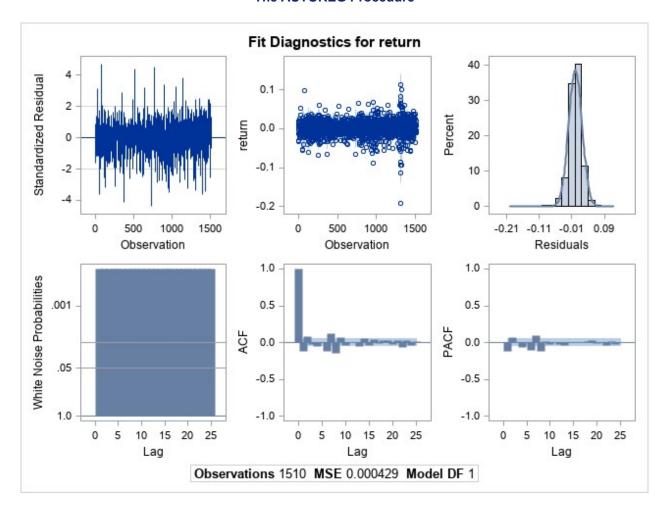
Threshold GARCH Estimates					
SSE	0.64642471 Observations 1510				
MSE	0.0004281	Uncond Var			
Log Likelihood	3882.80296	Total R-Square	0.0000		
SBC	-7736.3265	AIC	-7757.6059		
MAE	0.01452935	AICC	-7757.5793		
MAPE	100	HQC	-7749.6812		
		Normality Test	223.1416		
		Pr > ChiSq	<.0001		
NOTE: No intercent term is used. R-squares are redefined.					

NOTE: No intercept term is used. R-squares are redefined.

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
TARCHA0	1	0.0000154	2.8828E-6	5.33	<.0001
TARCHA1	1	-0.004222	0.009150	-0.46	0.6445
TARCHB1	1	0.1218	0.0178	6.84	<.0001
TGARCH1	1	0.9032	0.0139	64.87	<.0001

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GARCH family



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GARCH family

Model	garchm_1_1	
Dependent Variable	return	

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GARCH family

The AUTOREG Procedure

Ordinary Least Squares Estimates					
SSE	0.64642471	DFE	1510		
MSE	0.0004281	Root MSE	0.02069		
SBC	-7426.6125	AIC	-7426.6125		
MAE	0.01447432	AICC	-7426.6125		
MAPE	115.633513	HQC	-7426.6125		
Durbin-Watson	2.2169	Total R-Square	0.0000		
NOTE: No intercept term is used. R-squares are redefined.					

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GARCH family

GARCH Estimates					
SSE	0.64506348	Observations 1510			
MSE	0.0004272	Uncond Var			
Log Likelihood	3874.68129	Total R-Square	0.0021		
SBC	-7720.0831	AIC	-7741.3626		
MAE	0.01447558	AICC	-7741.336		
MAPE	115.659658	HQC	-7733.4379		
		Normality Test	232.6127		
		Pr > ChiSq	<.0001		
NOTE: No intercept term is used. R-squares are redefined.					

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
ARCH0	1	0.0000373	7.0088E-6	5.32	<.0001
ARCH1	1	0.1273	0.0183	6.94	<.0001
GARCH1	1	0.7749	0.0318	24.38	<.0001
DELTA	1	-0.000125	0.0000558	-2.24	0.0251

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GARCH family

