Emilia Romagna Grand Prix, 2021

Forecasting Sergio Perez's Next 5 Lap Times Nathan Jones 2022

Name of Variable = time				
Period(s) of Differencing	1,1			
Mean of Working Series	-0.64065			
Standard Deviation	24.88827			
Number of Observations	60			
Observation(s) eliminated by differencing	2			

Autocorrelation Check for White Noise									
To Lag Chi-Square DF Pr > ChiSq Autocorrelations									
6	29.36	6	<.0001	-0.611	0.184	-0.093	-0.013	0.176	-0.120
12	31.47	12	0.0017	-0.002	-0.074	0.135	-0.070	0.010	-0.017

Variance Estimate	619.8365
Std Error Estimate	24.89652
AIC	556.04
SBC	556.04
Number of Residuals	60

* AIC and SBC do not include log determinant.

	Autocorrelation Check of Residuals								
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	29.32	6	<.0001	-0.611	0.184	-0.093	-0.013	0.175	-0.120
12	31.42	12	0.0017	-0.002	-0.074	0.134	-0.070	0.010	-0.017
18	31.63	18	0.0243	0.032	-0.023	0.007	0.009	-0.024	0.016
24	33.14	24	0.1012	-0.003	0.003	0.021	-0.084	0.086	0.018

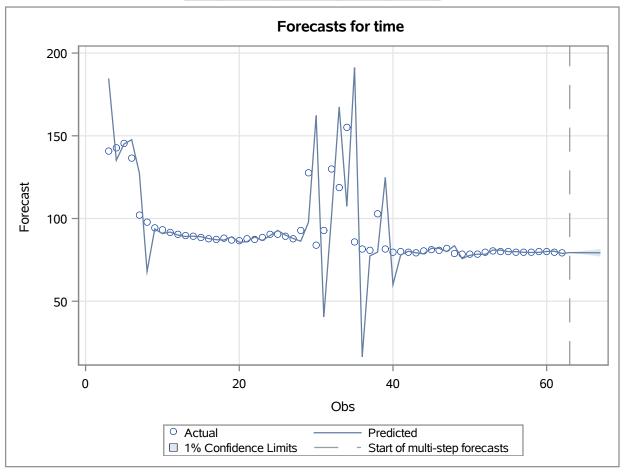
Model for variable time				
Period(s) of Differencing	1,1			

No mean term in this model.

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Forecasts for variable time							
Obs	Forecast	Std Error	1% Confidence Limits				
63	79.3930	24.8965	79.0810	79.7050			
64	79.3670	55.6703	78.6693	80.0647			
65	79.3410	93.1542	78.1735	80.5085			
66	79.3150	136.3638	77.6059	81.0241			
67	79.2890	184.6375	76.9749	81.6031			



Outlier Detection Summary				
Maximum number searched	2			
Number found	2			
Significance used	0.05			

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Outlier Details						
Obs	Туре	Estimate	Chi-Square	Approx Prob>ChiSq		
34	Additive	53.99617	4291.67	<.0001		
29	Additive	39.76617	2327.70	<.0001		