

Lognormal model for CARS dataset

The GLIMMIX Procedure

Model Information	
Data Set	MYDATA.CARS
Response Variable	Price
Response Distribution	Lognormal
Link Function	Identity
Variance Function	Default
Variance Matrix	Diagonal
Estimation Technique	Restricted Maximum Likelihood
Degrees of Freedom Method	Residual

Number of Observations Read	81
Number of Observations Used	81

Dimensions	
Covariance Parameters	1
Columns in X	4
Columns in Z	0
Subjects (Blocks in V)	1
Max Obs per Subject	81

Optimization Information	
Optimization Technique	None
Parameters	5
Lower Boundaries	1
Upper Boundaries	0
Fixed Effects	Not Profiled

Fit Statistics	
-2 Res Log Likelihood	27.80
AIC (smaller is better)	37.80
AICC (smaller is better)	38.64
BIC (smaller is better)	49.52
CAIC (smaller is better)	54.52
HQIC (smaller is better)	42.48
Pearson Chi-Square	4.09
Pearson Chi-Square / DF	0.05

Parameter Estimates					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	2.1022	0.1054	77	19.95	<.0001
s_Hwmpg	-0.04193	0.01038	77	-4.04	0.0001
s_Hwmpg^2	0.001599	0.000694	77	2.30	0.0240
Horsepower	0.004907	0.000784	77	6.26	<.0001
Scale	0.05317	0.008569	.	.	.

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
s_Hwmpg	1	77	16.32	0.0001
s_Hwmpg^2	1	77	5.30	0.0240
Horsepower	1	77	39.20	<.0001

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The CORR Procedure

2 Variables:	abserror pred
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Spearman Correlation Coefficients, N = 81 Prob > r under H0: Rho=0		
	abserror	pred
abserror	1.00000	0.19492 0.0812
pred Linear Predictor	0.19492 0.0812	1.00000

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