

The GLIMMIX Procedure

Model Information	
Data Set	WORK.CAB
Response Variable	LOG_TIP
Response Distribution	Gaussian
Link Function	Identity
Variance Function	Default
Variance Matrix	Not blocked
Estimation Technique	Restricted Maximum Likelihood
Degrees of Freedom Method	Kenward-Roger
Fixed Effects SE Adjustment	Kenward-Roger

Class Level Information		
Class	Levels	Values
MONTH	12	1 2 3 4 5 6 7 8 9 10 11 12
PICKUP_TIME	24	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
DROPOFF_TIME	24	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
TOLL_IND	2	0 1
PICKUP_LOCATION_ID	50	P1 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P2 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29 P3 P30 P31 P32 P33 P34 P35 P36 P37 P38 P39 P4 P40 P41 P42 P43 P44 P45 P46 P47 P48 P49 P5 P50 P6 P7 P8 P9
DROPOFF_LOCATION_ID	50	D1 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D2 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D3 D30 D31 D32 D33 D34 D35 D36 D37 D38 D39 D4 D40 D41 D42 D43 D44 D45 D46 D47 D48 D49 D5 D50 D6 D7 D8 D9
RATE_CODE	3	1 2 5
PASSENGER_COUNT	6	1 2 3 4 5 6

Number of Observations Read	67193
Number of Observations Used	67193

Dimensions	
G-side Cov. Parameters	4
R-side Cov. Parameters	1
Columns in X	886
Columns in Z	148
Subjects (Blocks in V)	1
Max Obs per Subject	67193

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Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	4
Lower Boundaries	4
Upper Boundaries	0
Fixed Effects	Profiled
Residual Variance	Profiled
Starting From	Data

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	46637.379555	.	5633.788
1	0	10	46592.250305	45.12924949	638.4681
2	0	2	46583.950933	8.29937260	4249.236
3	0	4	46583.83938	0.11155226	1682.192
4	0	3	46583.469879	0.36950112	2072.269
5	0	4	46578.685883	4.78399604	262.9408
6	0	4	46578.298365	0.38751796	345.6252
7	0	2	46577.768948	0.52941769	385.7783
8	0	3	46577.60871	0.16023730	96.14565
9	0	3	46577.595373	0.01333678	26.52521
10	0	3	46577.594515	0.00085799	5.859404
11	0	3	46577.594466	0.00004903	0.837788

Convergence criterion (GCONV=1E-8) satisfied.

Fit Statistics	
-2 Res Log Likelihood	46577.59
AIC (smaller is better)	46587.59
AICC (smaller is better)	46587.60
BIC (smaller is better)	46597.15
CAIC (smaller is better)	46602.15
HQIC (smaller is better)	46591.24
Generalized Chi-Square	7723.42
Gener. Chi-Square / DF	0.12

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Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
PICKUP_LOCATION_ID	0.001654	0.000407
DROPOFF_LOCATION_ID	0.004034	0.000877
PICKUP_TIME	0.000017	0.000053
DROPOFF_TIME	0.002620	0.000816
Residual	0.1155	0.000632

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
LOG_DIST	1	54759	23268.2	<.0001
PASSENGER_COUNT	1	1	0.00	0.9998
MONTH	1	1	0.00	1.0000
TOLL_IND	1	66893	Infy	<.0001
RATE_CODE	2	66893	0.00	1.0000
MONTH*PASSENGER_COUN	1	1	0.00	1.0000
TOLL_IND*PASSENGER_C	5	1	Infy	<.0001
RATE_CODE*PASSENGER_	8	1	Infy	<.0001
MONTH*TOLL_IND	1	1	0.00	1.0000
MONTH*RATE_CODE	1	1	0.00	0.9999
TOLL_IND*RATE_CODE	2	66893	Infy	<.0001
MONTH*TOLL_I*PASSENG	1	1	0.00	1.0000
MONTH*RATE_C*PASSENG	1	1	0.00	1.0000
TOLL_I*RATE_C*PASSEN	1	2.912	0.00	0.9999
MONTH*TOLL_I*RATE_CO	1	1	0.00	1.0000
MONT*TOLL*RATE*PASSE	35	1	3.60	0.3985

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Conditional Studentized Residuals for LOG_TIP

