

## The CONTENTS Procedure

Data Set Name	WORK.CAB	Observations	67193
Member Type	DATA	Variables	22
Engine	V9	Indexes	0
Created	04/20/2017 12:35:57	Observation Length	256
Last Modified	04/20/2017 12:35:57	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	latin1 Western (ISO)		

Engine/Host Dependent Information	
Data Set Page Size	65536
Number of Data Set Pages	264
First Data Page	1
Max Obs per Page	255
Obs in First Data Page	236
Number of Data Set Repairs	0
Filename	/data/lscratch/sas_m1srn00/SAS_workC06500014DE6_saslx3.rsb.gov/cab.sas7bdat
Release Created	9.0401M4
Host Created	Linux
Inode Number	393871365
Access Permission	rw-r--r--
Owner Name	m1srn00
File Size	17MB
File Size (bytes)	17367040

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
19	dropoff_lat_cen	Num	8	BEST12.	BEST32.
14	dropoff_latitude	Num	8	BEST12.	BEST32.
21	dropoff_location	Char	52	\$52.	\$52.
22	dropoff_location_id	Char	5	\$5.	\$5.
20	dropoff_lon_cen	Num	8	BEST12.	BEST32.
13	dropoff_longitude	Num	8	BEST12.	BEST32.
3	dropoff_time	Num	8	BEST12.	BEST32.
6	fare_amount	Num	8	BEST12.	BEST32.

**The CONTENTS Procedure**

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
1	month	Num	8	BEST12.	BEST32.
4	passenger_count	Num	8	BEST12.	BEST32.
15	pickup_lat_cen	Num	8	BEST12.	BEST32.
12	pickup_latitude	Num	8	BEST12.	BEST32.
17	pickup_location	Char	45	\$45.	\$45.
18	pickup_location_id	Char	5	\$5.	\$5.
16	pickup_lon_cen	Num	8	BEST12.	BEST32.
11	pickup_longitude	Num	8	BEST12.	BEST32.
2	pickup_time	Num	8	BEST12.	BEST32.
7	tip_amount	Num	8	BEST12.	BEST32.
9	tip_ind	Num	8	BEST12.	BEST32.
8	tip_pct	Num	8	BEST12.	BEST32.
10	toll_ind	Num	8	BEST12.	BEST32.
5	trip_distance	Num	8	BEST12.	BEST32.

## The GLIMMIX Procedure

Model Information	
Data Set	WORK.CAB
Response Variable	tip_amount
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

Number of Observations Read	67193
Number of Observations Used	67193

Dimensions	
G-side Cov. Parameters	4
R-side Cov. Parameters	1
Columns in X	17
Columns in Z	148
Subjects (Blocks in V)	1
Max Obs per Subject	67193

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	4
Lower Boundaries	4
Upper Boundaries	0

## The GLIMMIX Procedure

Optimization Information	
Fixed Effects	Profiled
Residual Variance	Profiled
Starting From	Data

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	223596.04259	.	8123.119
1	0	10	223529.16357	66.87902587	1357.322
2	0	5	223526.40681	2.75675935	438.1365
3	0	4	223526.33905	0.06775418	431.1846
4	0	3	223526.15521	0.18384159	378.0097
5	0	2	223525.99054	0.16467725	358.4534
6	0	4	223525.42784	0.56269640	551.1806
7	0	4	223521.08373	4.34410503	1455.014
8	0	2	223518.31481	2.76892243	1391.773
9	0	2	223516.2177	2.09710926	1564.494
10	0	2	223515.19372	1.02398230	818.7206
11	0	3	223514.49011	0.70361437	122.3698
12	0	3	223514.44056	0.04954521	77.59894
13	0	2	223514.42153	0.01902922	18.06205
14	0	2	223514.39037	0.03116549	15.38765
15	0	2	223514.35048	0.03989011	19.73834
16	0	4	223514.12291	0.22756163	7.360372
17	0	3	223514.1143	0.00861301	2.085204
18	0	3	223514.11352	0.00077771	0.47862

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

Fit Statistics	
-2 Res Log Likelihood	223514.1
AIC (smaller is better)	223524.1
AICC (smaller is better)	223524.1
BIC (smaller is better)	223533.7
CAIC (smaller is better)	223538.7
HQIC (smaller is better)	223527.8

## The GLIMMIX Procedure

Fit Statistics	
Generalized Chi-Square	108476.3
Gener. Chi-Square / DF	1.61

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
pickup_location_id	0.01021	0.002457
dropoff_location_id	0.07295	0.01747
pickup_time	0.2821	0.1157
dropoff_time	0.3101	0.1233
Residual	1.6148	0.008826

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
trip_distance	1	6635	30726.0	<.0001
passenger_count	1	66967	18.76	<.0001
month	11	66967	4.25	<.0001
toll_ind	1	43458	954.52	<.0001

month Least Squares Means					
month	Estimate	Standard Error	DF	t Value	Pr >  t
1	2.8442	0.1640	20.01	17.34	<.0001
2	2.8189	0.1640	20	17.19	<.0001
3	2.7900	0.1640	20.01	17.01	<.0001
4	2.8085	0.1640	20.01	17.12	<.0001
5	2.8499	0.1640	20.01	17.37	<.0001
6	2.8401	0.1640	20.02	17.31	<.0001
7	2.7958	0.1640	20.02	17.04	<.0001
8	2.8064	0.1640	20.02	17.11	<.0001
9	2.8533	0.1640	20	17.40	<.0001
10	2.8535	0.1640	19.99	17.40	<.0001
11	2.8923	0.1640	20	17.64	<.0001
12	2.8978	0.1640	20	17.67	<.0001

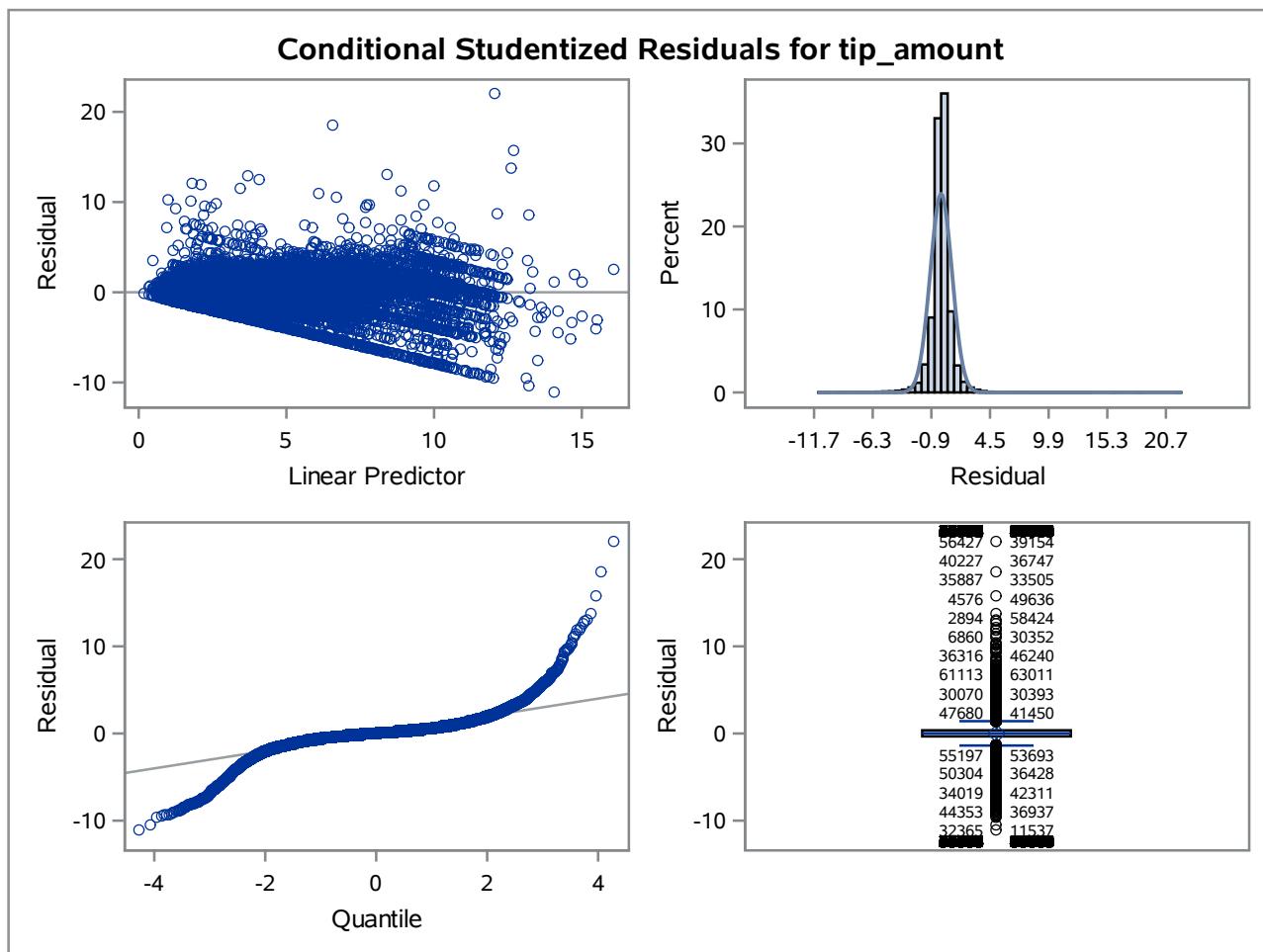
## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
1	2	0.02526	0.02393	66967	1.06	0.2913	0.9963
1	3	0.05421	0.02404	66961	2.25	0.0242	0.5094
1	4	0.03568	0.02408	66973	1.48	0.1384	0.9457
1	5	-0.00567	0.02423	66975	-0.23	0.8149	1.0000
1	6	0.004052	0.02422	66980	0.17	0.8672	1.0000
1	7	0.04841	0.02418	66970	2.00	0.0453	0.6921
1	8	0.03779	0.02430	66964	1.56	0.1198	0.9247
1	9	-0.00915	0.02399	66977	-0.38	0.7029	1.0000
1	10	-0.00935	0.02392	66970	-0.39	0.6959	1.0000
1	11	-0.04809	0.02399	66975	-2.00	0.0450	0.6907
1	12	-0.05360	0.02411	66972	-2.22	0.0262	0.5326
2	3	0.02896	0.02384	66956	1.21	0.2246	0.9880
2	4	0.01042	0.02387	66962	0.44	0.6624	1.0000
2	5	-0.03093	0.02403	66962	-1.29	0.1980	0.9809
2	6	-0.02121	0.02401	66964	-0.88	0.3772	0.9993
2	7	0.02315	0.02398	66974	0.97	0.3344	0.9984
2	8	0.01254	0.02410	66966	0.52	0.6029	1.0000
2	9	-0.03441	0.02379	66968	-1.45	0.1481	0.9543
2	10	-0.03461	0.02372	66962	-1.46	0.1446	0.9514
2	11	-0.07335	0.02379	66965	-3.08	0.0020	0.0861
2	12	-0.07886	0.02391	66968	-3.30	0.0010	0.0455
3	4	-0.01853	0.02398	66964	-0.77	0.4397	0.9998
3	5	-0.05989	0.02414	66964	-2.48	0.0131	0.3520
3	6	-0.05016	0.02413	66968	-2.08	0.0376	0.6380
3	7	-0.00580	0.02408	66968	-0.24	0.8096	1.0000
3	8	-0.01642	0.02421	66965	-0.68	0.4976	0.9999
3	9	-0.06336	0.02390	66968	-2.65	0.0080	0.2514
3	10	-0.06356	0.02383	66963	-2.67	0.0076	0.2427
3	11	-0.1023	0.02390	66969	-4.28	<.0001	0.0011
3	12	-0.1078	0.02402	66970	-4.49	<.0001	0.0004
4	5	-0.04135	0.02416	66965	-1.71	0.0870	0.8634
4	6	-0.03163	0.02415	66971	-1.31	0.1904	0.9781
4	7	0.01273	0.02412	66976	0.53	0.5976	1.0000
4	8	0.002113	0.02423	66966	0.09	0.9305	1.0000

## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
4	9	-0.04483	0.02393	66973	-1.87	0.0610	0.7759
4	10	-0.04503	0.02386	66970	-1.89	0.0591	0.7675
4	11	-0.08377	0.02393	66967	-3.50	0.0005	0.0235
4	12	-0.08928	0.02405	66971	-3.71	0.0002	0.0111
5	6	0.009725	0.02430	66962	0.40	0.6890	1.0000
5	7	0.05408	0.02427	66970	2.23	0.0258	0.5285
5	8	0.04347	0.02439	66971	1.78	0.0747	0.8280
5	9	-0.00348	0.02408	66968	-0.14	0.8852	1.0000
5	10	-0.00367	0.02401	66962	-0.15	0.8783	1.0000
5	11	-0.04242	0.02408	66963	-1.76	0.0781	0.8387
5	12	-0.04793	0.02420	66967	-1.98	0.0476	0.7067
6	7	0.04436	0.02425	66968	1.83	0.0674	0.8021
6	8	0.03374	0.02437	66971	1.38	0.1663	0.9667
6	9	-0.01320	0.02407	66964	-0.55	0.5833	1.0000
6	10	-0.01340	0.02400	66965	-0.56	0.5766	1.0000
6	11	-0.05214	0.02406	66962	-2.17	0.0302	0.5739
6	12	-0.05765	0.02419	66969	-2.38	0.0171	0.4171
7	8	-0.01062	0.02433	66965	-0.44	0.6626	1.0000
7	9	-0.05756	0.02403	66967	-2.40	0.0166	0.4091
7	10	-0.05776	0.02396	66970	-2.41	0.0159	0.3989
7	11	-0.09650	0.02403	66967	-4.02	<.0001	0.0034
7	12	-0.1020	0.02415	66968	-4.22	<.0001	0.0014
8	9	-0.04694	0.02415	66968	-1.94	0.0519	0.7314
8	10	-0.04714	0.02408	66970	-1.96	0.0503	0.7225
8	11	-0.08589	0.02415	66967	-3.56	0.0004	0.0194
8	12	-0.09140	0.02427	66965	-3.77	0.0002	0.0091
9	10	-0.00020	0.02377	66963	-0.01	0.9934	1.0000
9	11	-0.03894	0.02384	66965	-1.63	0.1024	0.8970
9	12	-0.04445	0.02396	66966	-1.86	0.0636	0.7869
10	11	-0.03874	0.02377	66964	-1.63	0.1032	0.8984
10	12	-0.04426	0.02389	66969	-1.85	0.0640	0.7887
11	12	-0.00551	0.02395	66961	-0.23	0.8180	1.0000

## The GLIMMIX Procedure



## The GLIMMIX Procedure

Model Information	
Data Set	WORK.CAB
Response Variable	tip_amount
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
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	23
Columns in Z	148
Subjects (Blocks in V)	1
Max Obs per Subject	67193

## The GLIMMIX Procedure

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	217537.96008	.	20779.21
1	0	12	217466.61079	71.34929317	2597.639
2	0	7	217463.47231	3.13848609	922.8609
3	0	5	217463.08448	0.38782351	592.6864
4	0	4	217463.08085	0.00362937	509.9799
5	0	4	217463.01644	0.06440760	148.3026
6	0	3	217463.01117	0.00527471	67.87065
7	0	4	217462.99528	0.01588647	106.9589
8	0	2	217462.97253	0.02274947	55.48968
9	0	3	217462.97119	0.00133987	13.63417
10	0	3	217462.97115	0.00003928	0.227203

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

Fit Statistics	
-2 Res Log Likelihood	217463.0
AIC (smaller is better)	217473.0
AICC (smaller is better)	217473.0
BIC (smaller is better)	217482.5
CAIC (smaller is better)	217487.5
HQIC (smaller is better)	217476.6
Generalized Chi-Square	99419.15
Gener. Chi-Square / DF	1.48

## The GLIMMIX Procedure

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
pickup_location_id	0.006696	0.001761
dropoff_location_id	0.03953	0.01002
pickup_time	0.001198	0.000989
dropoff_time	0.004340	0.002114
Residual	1.4800	0.008086

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
trip_distance	1	18426	46.29	<.0001
passenger_count	5	67065	3.43	0.0042
month	11	67054	1.21	0.2727
toll_ind	1	32156	1277.11	<.0001
fare_amount	1	54270	6422.18	<.0001

month Least Squares Means					
month	Estimate	Standard Error	DF	t Value	Pr >  t
1	2.9625	0.04161	123.4	71.19	<.0001
2	2.9290	0.04152	122.4	70.55	<.0001
3	2.9187	0.04163	123.7	70.10	<.0001
4	2.9102	0.04161	123.5	69.94	<.0001
5	2.9246	0.04162	123.6	70.26	<.0001
6	2.9263	0.04165	123.9	70.27	<.0001
7	2.9034	0.04171	124.6	69.61	<.0001
8	2.9195	0.04169	124.5	70.03	<.0001
9	2.9099	0.04152	122.4	70.08	<.0001
10	2.9234	0.04146	121.7	70.51	<.0001
11	2.9500	0.04150	122.2	71.09	<.0001
12	2.9485	0.04156	122.9	70.95	<.0001

## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
1	2	0.03355	0.02291	67051	1.46	0.1432	0.9502
1	3	0.04385	0.02302	67043	1.91	0.0567	0.7563
1	4	0.05235	0.02305	67056	2.27	0.0231	0.4972
1	5	0.03790	0.02320	67053	1.63	0.1024	0.8970
1	6	0.03620	0.02319	67062	1.56	0.1185	0.9229
1	7	0.05913	0.02315	67057	2.55	0.0106	0.3060
1	8	0.04299	0.02326	67052	1.85	0.0646	0.7911
1	9	0.05264	0.02298	67062	2.29	0.0220	0.4834
1	10	0.03915	0.02291	67051	1.71	0.0874	0.8646
1	11	0.01253	0.02298	67067	0.55	0.5855	1.0000
1	12	0.01398	0.02310	67059	0.61	0.5450	1.0000
2	3	0.01031	0.02283	67041	0.45	0.6516	1.0000
2	4	0.01881	0.02285	67049	0.82	0.4105	0.9996
2	5	0.004353	0.02301	67045	0.19	0.8499	1.0000
2	6	0.002657	0.02299	67046	0.12	0.9080	1.0000
2	7	0.02558	0.02296	67060	1.11	0.2652	0.9941
2	8	0.009444	0.02307	67050	0.41	0.6823	1.0000
2	9	0.01909	0.02278	67054	0.84	0.4020	0.9996
2	10	0.005603	0.02271	67049	0.25	0.8051	1.0000
2	11	-0.02101	0.02278	67057	-0.92	0.3563	0.9989
2	12	-0.01957	0.02290	67055	-0.85	0.3928	0.9995
3	4	0.008499	0.02296	67052	0.37	0.7113	1.0000
3	5	-0.00596	0.02312	67051	-0.26	0.7967	1.0000
3	6	-0.00765	0.02310	67055	-0.33	0.7405	1.0000
3	7	0.01527	0.02306	67056	0.66	0.5077	1.0000
3	8	-0.00087	0.02317	67055	-0.04	0.9702	1.0000
3	9	0.008784	0.02290	67062	0.38	0.7013	1.0000
3	10	-0.00471	0.02282	67052	-0.21	0.8366	1.0000
3	11	-0.03132	0.02290	67071	-1.37	0.1714	0.9696
3	12	-0.02988	0.02302	67067	-1.30	0.1943	0.9796
4	5	-0.01445	0.02313	67056	-0.62	0.5321	1.0000
4	6	-0.01615	0.02312	67062	-0.70	0.4849	0.9999
4	7	0.006775	0.02309	67065	0.29	0.7692	1.0000
4	8	-0.00936	0.02320	67056	-0.40	0.6865	1.0000

## The GLIMMIX Procedure

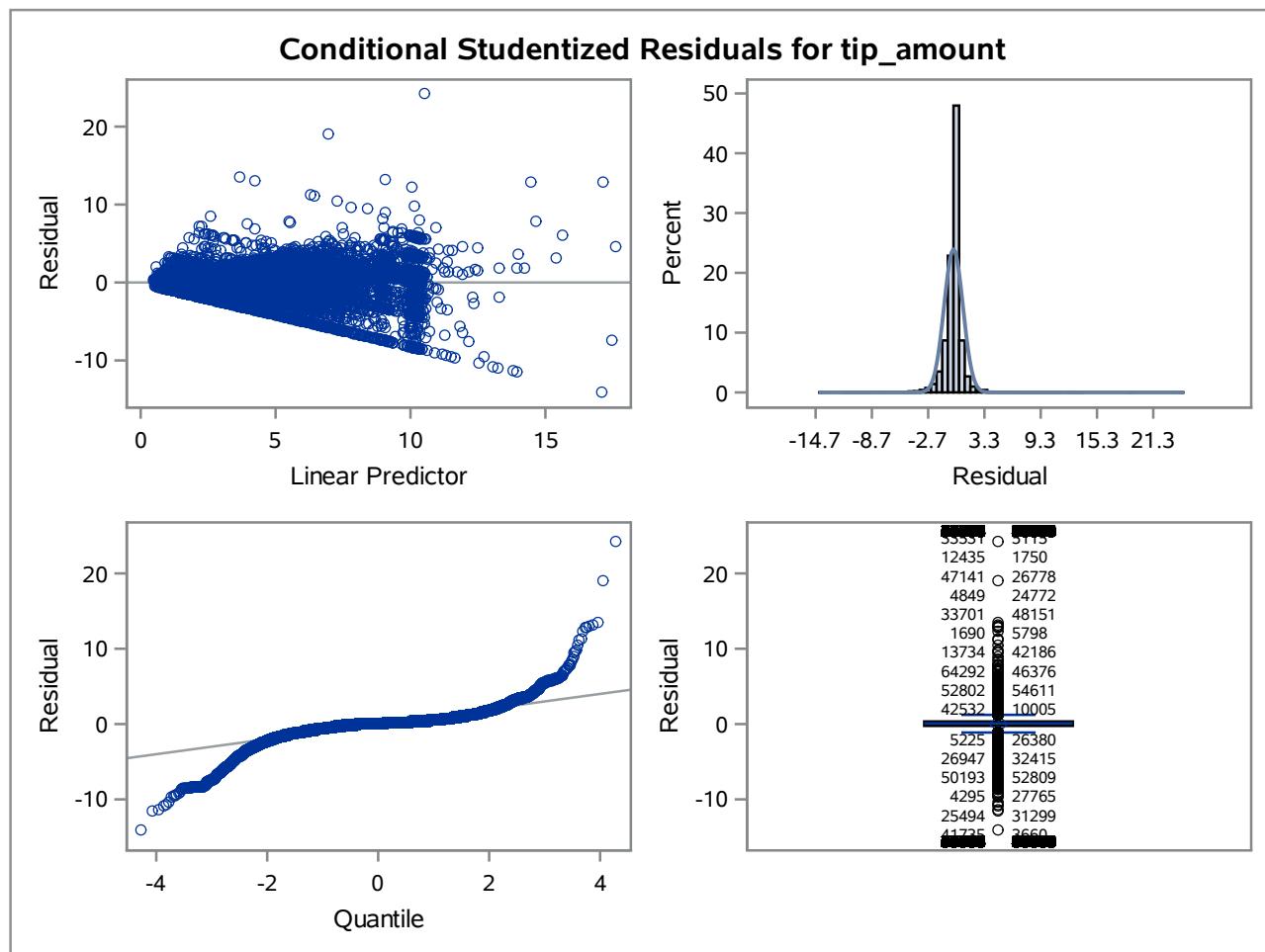
Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
4	9	0.000285	0.02291	67060	0.01	0.9901	1.0000
4	10	-0.01320	0.02284	67057	-0.58	0.5632	1.0000
4	11	-0.03982	0.02291	67064	-1.74	0.0822	0.8507
4	12	-0.03838	0.02303	67065	-1.67	0.0956	0.8835
5	6	-0.00170	0.02326	67045	-0.07	0.9419	1.0000
5	7	0.02123	0.02323	67054	0.91	0.3609	0.9990
5	8	0.005090	0.02335	67056	0.22	0.8274	1.0000
5	9	0.01474	0.02305	67055	0.64	0.5226	1.0000
5	10	0.001250	0.02298	67047	0.05	0.9566	1.0000
5	11	-0.02537	0.02305	67052	-1.10	0.2711	0.9947
5	12	-0.02392	0.02316	67052	-1.03	0.3017	0.9970
6	7	0.02293	0.02322	67047	0.99	0.3234	0.9980
6	8	0.006787	0.02334	67054	0.29	0.7712	1.0000
6	9	0.01644	0.02304	67050	0.71	0.4757	0.9999
6	10	0.002946	0.02297	67047	0.13	0.8980	1.0000
6	11	-0.02367	0.02304	67045	-1.03	0.3043	0.9971
6	12	-0.02222	0.02316	67047	-0.96	0.3372	0.9984
7	8	-0.01614	0.02329	67052	-0.69	0.4884	0.9999
7	9	-0.00649	0.02301	67052	-0.28	0.7780	1.0000
7	10	-0.01998	0.02295	67056	-0.87	0.3839	0.9994
7	11	-0.04659	0.02301	67055	-2.02	0.0429	0.6765
7	12	-0.04515	0.02313	67053	-1.95	0.0509	0.7260
8	9	0.009649	0.02313	67051	0.42	0.6766	1.0000
8	10	-0.00384	0.02306	67054	-0.17	0.8677	1.0000
8	11	-0.03046	0.02313	67055	-1.32	0.1880	0.9772
8	12	-0.02901	0.02325	67052	-1.25	0.2120	0.9850
9	10	-0.01349	0.02276	67047	-0.59	0.5533	1.0000
9	11	-0.04010	0.02282	67051	-1.76	0.0789	0.8411
9	12	-0.03866	0.02294	67045	-1.69	0.0919	0.8752
10	11	-0.02661	0.02276	67053	-1.17	0.2422	0.9912
10	12	-0.02517	0.02287	67056	-1.10	0.2711	0.9947
11	12	0.001444	0.02293	67042	0.06	0.9498	1.0000

## The GLIMMIX Procedure

passenger_count Least Squares Means					
passenger_count	Estimate	Standard Error	DF	t Value	Pr >  t
1	2.9565	0.03786	84.63	78.09	<.0001
2	2.9449	0.03957	101	74.42	<.0001
3	2.9329	0.04449	161.5	65.92	<.0001
4	2.9248	0.05201	301.2	56.24	<.0001
5	2.8767	0.04224	131.2	68.10	<.0001
6	2.9271	0.04466	163.8	65.54	<.0001

Differences of passenger_count Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
passenger_count	_passenger_count	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
1	2	0.01165	0.01408	67082	0.83	0.4079	0.9625
1	3	0.02360	0.02463	67064	0.96	0.3379	0.9309
1	4	0.03173	0.03650	67061	0.87	0.3847	0.9538
1	5	0.07979	0.02038	67059	3.92	<.0001	0.0013
1	6	0.02941	0.02498	67051	1.18	0.2390	0.8478
2	3	0.01195	0.02723	67052	0.44	0.6607	0.9979
2	4	0.02007	0.03830	67055	0.52	0.6002	0.9952
2	5	0.06813	0.02347	67069	2.90	0.0037	0.0429
2	6	0.01775	0.02757	67066	0.64	0.5197	0.9876
3	4	0.008123	0.04329	67048	0.19	0.8512	1.0000
3	5	0.05618	0.03097	67060	1.81	0.0697	0.4567
3	6	0.005804	0.03419	67064	0.17	0.8652	1.0000
4	5	0.04806	0.04104	67056	1.17	0.2416	0.8508
4	6	-0.00232	0.04352	67060	-0.05	0.9575	1.0000
5	6	-0.05038	0.03125	67051	-1.61	0.1070	0.5905

## The GLIMMIX Procedure



## 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

Number of Observations Read	67193
Number of Observations Used	64850

Dimensions	
G-side Cov. Parameters	4
R-side Cov. Parameters	1
Columns in X	17
Columns in Z	148
Subjects (Blocks in V)	1
Max Obs per Subject	64850

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	4
Lower Boundaries	4
Upper Boundaries	0

## The GLIMMIX Procedure

Optimization Information	
Fixed Effects	Profiled
Residual Variance	Profiled
Starting From	Data

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	77144.868678	.	7893.399
1	0	9	76987.738615	157.13006307	300.116
2	0	3	76984.701393	3.03722193	81.83063
3	0	15	76981.137873	3.56351985	165.9603
4	0	5	76980.631077	0.50679655	87.79078
5	0	3	76980.591984	0.03909241	138.9547
6	0	4	76980.14097	0.45101379	94.38913
7	0	3	76980.014028	0.12694199	64.92574
8	0	3	76979.922645	0.09138371	51.07604
9	0	4	76979.5501	0.37254451	57.68433
10	0	3	76979.471115	0.07898516	3.983079
11	0	3	76979.469534	0.00158069	1.903235
12	0	3	76979.469475	0.00005943	0.236848

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

Fit Statistics	
-2 Res Log Likelihood	76979.47
AIC (smaller is better)	76989.47
AICC (smaller is better)	76989.47
BIC (smaller is better)	76999.03
CAIC (smaller is better)	77004.03
HQIC (smaller is better)	76993.11
Generalized Chi-Square	12309.99
Gener. Chi-Square / DF	0.19

## The GLIMMIX Procedure

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
pickup_location_id	0.01389	0.002874
dropoff_location_id	0.01959	0.004138
pickup_time	0.000900	0.000771
dropoff_time	0.003906	0.001419
Residual	0.1899	0.001057

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
trip_distance	1	47498	26701.2	<.0001
passenger_count	1	64658	5.67	0.0172
month	11	64640	3.33	0.0001
toll_ind	1	64290	1.85	0.1736

month Least Squares Means					
month	Estimate	Standard Error	DF	t Value	Pr >  t
1	0.6895	0.03067	116.4	22.48	<.0001
2	0.6820	0.03066	116.2	22.24	<.0001
3	0.6783	0.03068	116.4	22.11	<.0001
4	0.6851	0.03067	116.4	22.34	<.0001
5	0.6954	0.03068	116.5	22.67	<.0001
6	0.6930	0.03069	116.6	22.58	<.0001
7	0.6810	0.03069	116.6	22.19	<.0001
8	0.6863	0.03069	116.6	22.36	<.0001
9	0.7004	0.03066	116.2	22.84	<.0001
10	0.6987	0.03065	116	22.79	<.0001
11	0.7093	0.03066	116.2	23.14	<.0001
12	0.7111	0.03067	116.3	23.19	<.0001

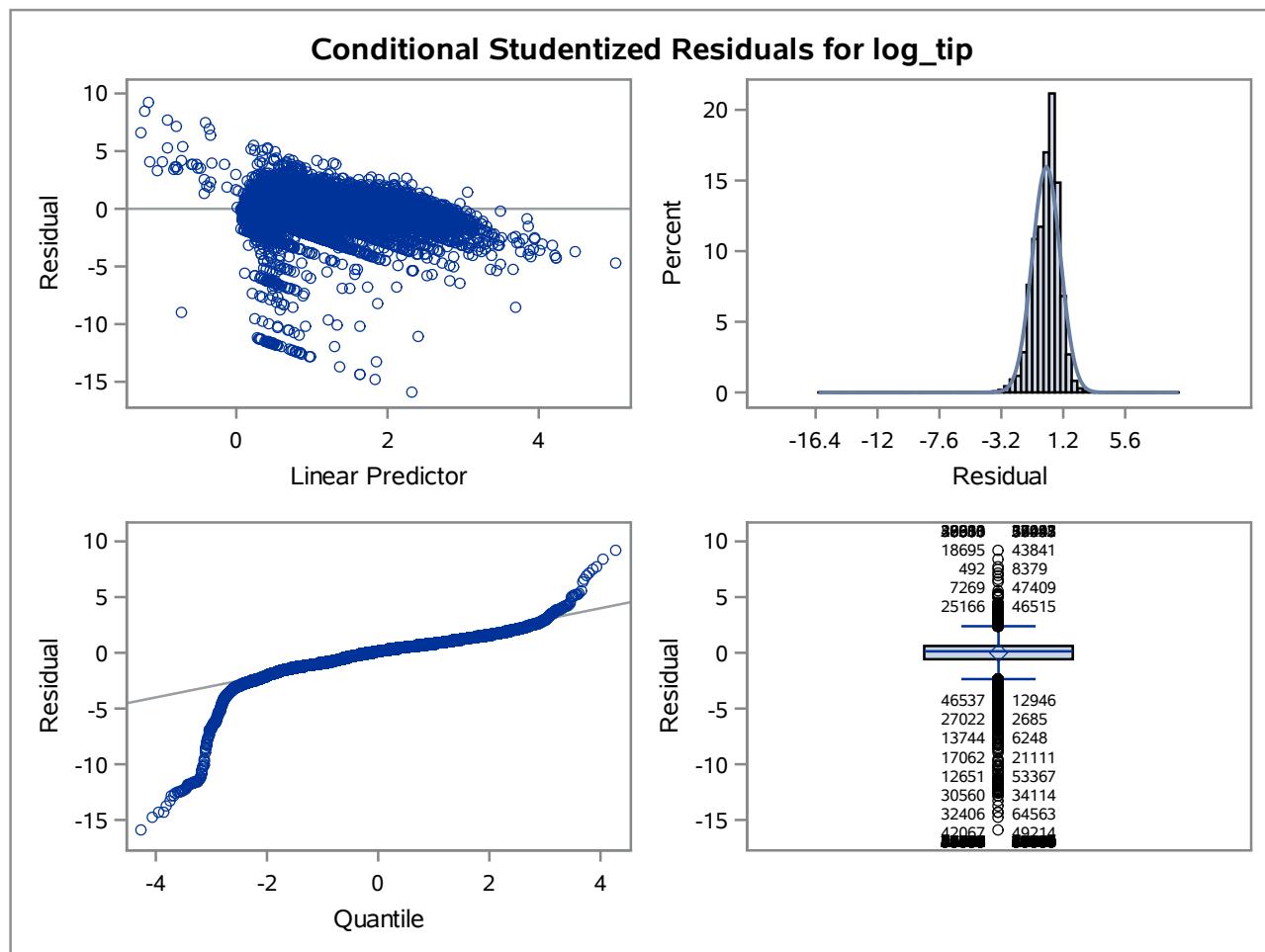
## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
1	2	0.007506	0.008342	64639	0.90	0.3682	0.9991
1	3	0.01114	0.008382	64626	1.33	0.1838	0.9755
1	4	0.004399	0.008392	64653	0.52	0.6002	1.0000
1	5	-0.00589	0.008443	64666	-0.70	0.4851	0.9999
1	6	-0.00347	0.008450	64642	-0.41	0.6816	1.0000
1	7	0.008501	0.008426	64625	1.01	0.3130	0.9975
1	8	0.003157	0.008469	64626	0.37	0.7093	1.0000
1	9	-0.01089	0.008364	64647	-1.30	0.1931	0.9791
1	10	-0.00918	0.008332	64649	-1.10	0.2707	0.9947
1	11	-0.01985	0.008362	64641	-2.37	0.0176	0.4243
1	12	-0.02164	0.008411	64668	-2.57	0.0101	0.2950
2	3	0.003636	0.008325	64622	0.44	0.6623	1.0000
2	4	-0.00311	0.008333	64651	-0.37	0.7092	1.0000
2	5	-0.01340	0.008385	64644	-1.60	0.1100	0.9103
2	6	-0.01097	0.008391	64627	-1.31	0.1909	0.9783
2	7	0.000995	0.008371	64633	0.12	0.9054	1.0000
2	8	-0.00435	0.008414	64636	-0.52	0.6052	1.0000
2	9	-0.01839	0.008306	64628	-2.21	0.0268	0.5390
2	10	-0.01668	0.008276	64645	-2.02	0.0438	0.6827
2	11	-0.02735	0.008303	64626	-3.29	0.0010	0.0461
2	12	-0.02915	0.008353	64659	-3.49	0.0005	0.0244
3	4	-0.00674	0.008374	64641	-0.81	0.4206	0.9997
3	5	-0.01704	0.008427	64649	-2.02	0.0432	0.6786
3	6	-0.01461	0.008433	64617	-1.73	0.0832	0.8534
3	7	-0.00264	0.008409	64625	-0.31	0.7535	1.0000
3	8	-0.00799	0.008453	64633	-0.94	0.3448	0.9986
3	9	-0.02203	0.008347	64635	-2.64	0.0083	0.2577
3	10	-0.02032	0.008316	64634	-2.44	0.0146	0.3765
3	11	-0.03099	0.008346	64629	-3.71	0.0002	0.0111
3	12	-0.03278	0.008395	64654	-3.91	<.0001	0.0053
4	5	-0.01029	0.008433	64641	-1.22	0.2223	0.9875
4	6	-0.00787	0.008440	64642	-0.93	0.3514	0.9988
4	7	0.004103	0.008418	64635	0.49	0.6260	1.0000
4	8	-0.00124	0.008460	64628	-0.15	0.8833	1.0000

## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
4	9	-0.01528	0.008355	64646	-1.83	0.0673	0.8020
4	10	-0.01358	0.008325	64667	-1.63	0.1029	0.8980
4	11	-0.02425	0.008353	64640	-2.90	0.0037	0.1398
4	12	-0.02604	0.008402	64642	-3.10	0.0019	0.0824
5	6	0.002427	0.008487	64640	0.29	0.7749	1.0000
5	7	0.01440	0.008468	64653	1.70	0.0891	0.8687
5	8	0.009051	0.008511	64648	1.06	0.2876	0.9961
5	9	-0.00499	0.008405	64634	-0.59	0.5526	1.0000
5	10	-0.00328	0.008373	64644	-0.39	0.6950	1.0000
5	11	-0.01395	0.008402	64634	-1.66	0.0968	0.8860
5	12	-0.01575	0.008450	64659	-1.86	0.0624	0.7820
6	7	0.01197	0.008472	64623	1.41	0.1578	0.9614
6	8	0.006624	0.008517	64640	0.78	0.4367	0.9998
6	9	-0.00742	0.008411	64641	-0.88	0.3778	0.9993
6	10	-0.00571	0.008380	64640	-0.68	0.4957	0.9999
6	11	-0.01638	0.008408	64622	-1.95	0.0514	0.7286
6	12	-0.01817	0.008457	64661	-2.15	0.0316	0.5871
7	8	-0.00534	0.008492	64624	-0.63	0.5291	1.0000
7	9	-0.01939	0.008389	64644	-2.31	0.0208	0.4685
7	10	-0.01768	0.008360	64650	-2.11	0.0345	0.6122
7	11	-0.02835	0.008387	64624	-3.38	0.0007	0.0351
7	12	-0.03014	0.008436	64650	-3.57	0.0004	0.0183
8	9	-0.01404	0.008432	64632	-1.67	0.0958	0.8839
8	10	-0.01233	0.008403	64662	-1.47	0.1422	0.9493
8	11	-0.02300	0.008431	64625	-2.73	0.0064	0.2122
8	12	-0.02480	0.008479	64639	-2.92	0.0034	0.1321
9	10	0.001710	0.008294	64632	0.21	0.8367	1.0000
9	11	-0.00896	0.008324	64630	-1.08	0.2817	0.9956
9	12	-0.01076	0.008371	64654	-1.28	0.1989	0.9811
10	11	-0.01067	0.008294	64636	-1.29	0.1983	0.9809
10	12	-0.01247	0.008342	64657	-1.49	0.1351	0.9426
11	12	-0.00179	0.008368	64647	-0.21	0.8302	1.0000

## The GLIMMIX Procedure



## The GLIMMIX Procedure

Model Information	
Data Set	WORK.CAB
Response Variable	trip_distance
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

Number of Observations Read	67193
Number of Observations Used	67193

Dimensions	
G-side Cov. Parameters	4
R-side Cov. Parameters	1
Columns in X	16
Columns in Z	148
Subjects (Blocks in V)	1
Max Obs per Subject	67193

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	4
Lower Boundaries	4
Upper Boundaries	0

## The GLIMMIX Procedure

Optimization Information	
Fixed Effects	Profiled
Residual Variance	Profiled
Starting From	Data

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	267514.22917	.	2828.676
1	0	4	266701.63404	812.59512846	150.4886
2	0	3	266677.19571	24.43833794	40.92383
3	0	2	266674.25426	2.94144916	39.63253
4	0	4	266670.17874	4.07551664	37.28858
5	0	4	266667.42176	2.75697631	32.6934
6	0	2	266663.7926	3.62916756	24.58994
7	0	2	266658.80107	4.99152218	21.53725
8	0	2	266652.1473	6.65377057	5.235205
9	0	3	266651.37851	0.76879669	2.842286
10	0	3	266651.17087	0.20763780	2.292244
11	0	3	266651.03353	0.13733656	1.531301
12	0	2	266650.85246	0.18107628	0.703571
13	0	3	266650.83086	0.02159666	0.325494
14	0	3	266650.82756	0.00329885	0.153848
15	0	3	266650.8267	0.00086182	0.121873

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

Fit Statistics	
-2 Res Log Likelihood	266650.8
AIC (smaller is better)	266660.8
AICC (smaller is better)	266660.8
BIC (smaller is better)	266670.4
CAIC (smaller is better)	266675.4
HQIC (smaller is better)	266664.5
Generalized Chi-Square	204632.4
Gener. Chi-Square / DF	3.05

## The GLIMMIX Procedure

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
pickup_location_id	2.6893	0.5453
dropoff_location_id	6.1611	1.2493
pickup_time	3.7513	1.1463
dropoff_time	4.2422	1.2871
Residual	3.0461	0.01664

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
passenger_count	1	67029	17.99	<.0001
month	11	67029	2.31	0.0078
toll_ind	1	67112	9305.65	<.0001

month Least Squares Means					
month	Estimate	Standard Error	DF	t Value	Pr >  t
1	5.9519	0.7149	83.64	8.33	<.0001
2	5.9505	0.7149	83.64	8.32	<.0001
3	6.0064	0.7149	83.64	8.40	<.0001
4	6.0135	0.7149	83.64	8.41	<.0001
5	5.9696	0.7149	83.64	8.35	<.0001
6	5.9771	0.7149	83.64	8.36	<.0001
7	5.9710	0.7149	83.65	8.35	<.0001
8	5.9433	0.7149	83.65	8.31	<.0001
9	5.9484	0.7149	83.64	8.32	<.0001
10	5.9608	0.7149	83.63	8.34	<.0001
11	5.9159	0.7149	83.64	8.28	<.0001
12	5.8832	0.7149	83.64	8.23	<.0001

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
1	2	0.001403	0.03288	67029	0.04	0.9660	1.0000
1	3	-0.05453	0.03302	67029	-1.65	0.0987	0.8899
1	4	-0.06165	0.03307	67030	-1.86	0.0623	0.7816
1	5	-0.01773	0.03328	67031	-0.53	0.5943	1.0000

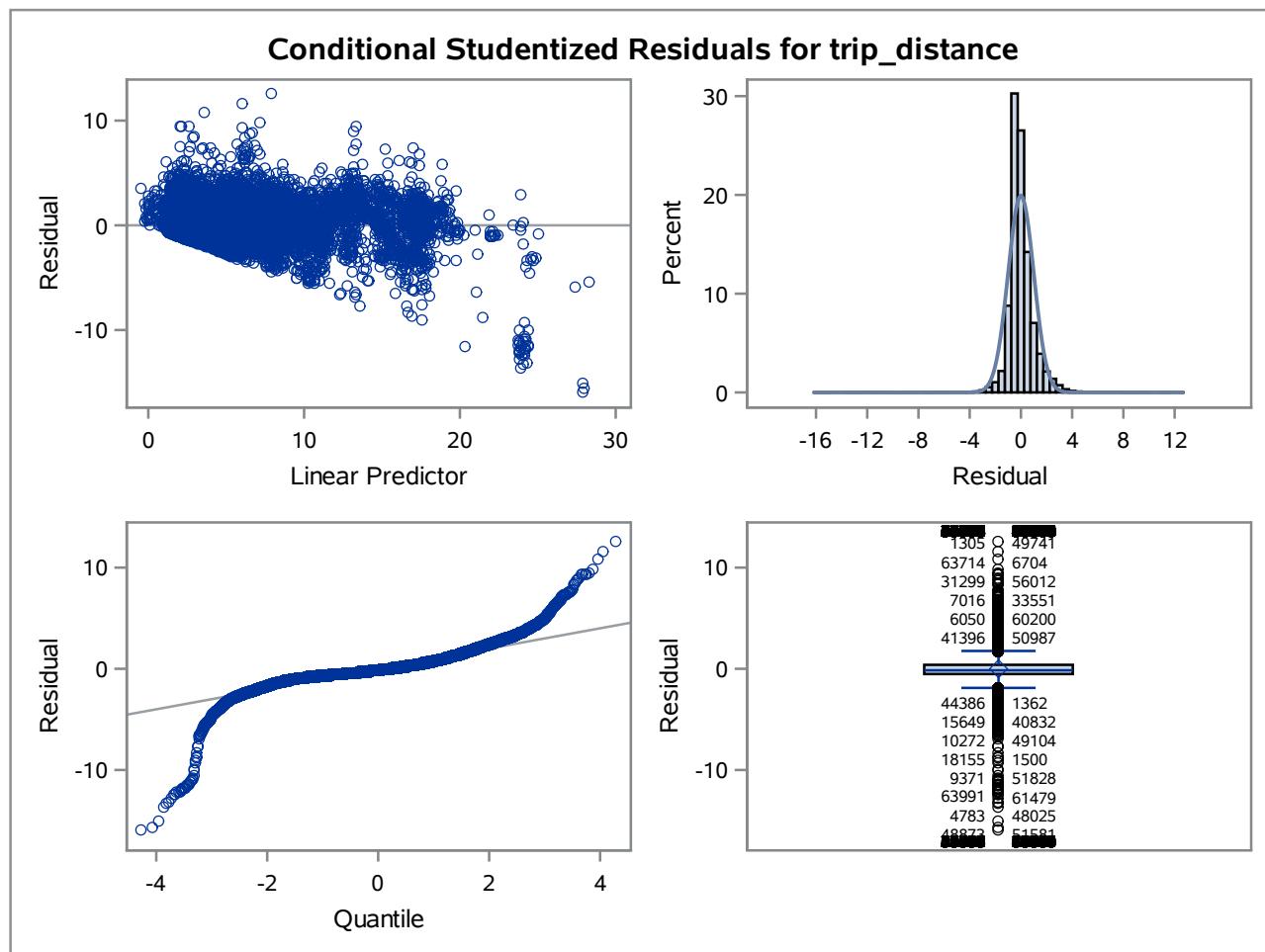
## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
1	6	-0.02527	0.03327	67031	-0.76	0.4476	0.9998
1	7	-0.01917	0.03321	67029	-0.58	0.5637	1.0000
1	8	0.008589	0.03337	67029	0.26	0.7969	1.0000
1	9	0.003490	0.03296	67030	0.11	0.9157	1.0000
1	10	-0.00891	0.03286	67030	-0.27	0.7862	1.0000
1	11	0.03598	0.03296	67030	1.09	0.2750	0.9951
1	12	0.06865	0.03312	67030	2.07	0.0382	0.6424
2	3	-0.05593	0.03275	67029	-1.71	0.0877	0.8651
2	4	-0.06305	0.03279	67029	-1.92	0.0545	0.7450
2	5	-0.01913	0.03300	67029	-0.58	0.5621	1.0000
2	6	-0.02667	0.03298	67029	-0.81	0.4188	0.9997
2	7	-0.02058	0.03294	67029	-0.62	0.5322	1.0000
2	8	0.007185	0.03310	67029	0.22	0.8282	1.0000
2	9	0.002087	0.03268	67029	0.06	0.9491	1.0000
2	10	-0.01032	0.03258	67029	-0.32	0.7515	1.0000
2	11	0.03457	0.03267	67029	1.06	0.2899	0.9962
2	12	0.06725	0.03284	67029	2.05	0.0406	0.6603
3	4	-0.00712	0.03294	67029	-0.22	0.8289	1.0000
3	5	0.03680	0.03316	67029	1.11	0.2671	0.9943
3	6	0.02926	0.03314	67029	0.88	0.3773	0.9993
3	7	0.03535	0.03308	67029	1.07	0.2852	0.9959
3	8	0.06311	0.03325	67029	1.90	0.0577	0.7607
3	9	0.05802	0.03283	67029	1.77	0.0772	0.8360
3	10	0.04561	0.03273	67029	1.39	0.1634	0.9650
3	11	0.09050	0.03283	67029	2.76	0.0058	0.1990
3	12	0.1232	0.03299	67029	3.73	0.0002	0.0103
4	5	0.04392	0.03319	67029	1.32	0.1857	0.9763
4	6	0.03638	0.03318	67029	1.10	0.2729	0.9949
4	7	0.04247	0.03313	67029	1.28	0.1998	0.9814
4	8	0.07023	0.03329	67029	2.11	0.0349	0.6156
4	9	0.06514	0.03287	67029	1.98	0.0475	0.7061
4	10	0.05273	0.03277	67029	1.61	0.1076	0.9063
4	11	0.09762	0.03286	67029	2.97	0.0030	0.1172
4	12	0.1303	0.03303	67029	3.94	<.0001	0.0046

## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
5	6	-0.00754	0.03338	67029	-0.23	0.8213	1.0000
5	7	-0.00145	0.03333	67029	-0.04	0.9654	1.0000
5	8	0.02632	0.03350	67030	0.79	0.4321	0.9998
5	9	0.02122	0.03308	67029	0.64	0.5212	1.0000
5	10	0.008815	0.03297	67029	0.27	0.7892	1.0000
5	11	0.05370	0.03307	67029	1.62	0.1044	0.9006
5	12	0.08638	0.03323	67029	2.60	0.0093	0.2800
6	7	0.006093	0.03331	67029	0.18	0.8549	1.0000
6	8	0.03386	0.03348	67030	1.01	0.3119	0.9975
6	9	0.02876	0.03306	67029	0.87	0.3843	0.9994
6	10	0.01635	0.03296	67029	0.50	0.6198	1.0000
6	11	0.06124	0.03305	67029	1.85	0.0639	0.7882
6	12	0.09392	0.03322	67030	2.83	0.0047	0.1685
7	8	0.02776	0.03342	67029	0.83	0.4061	0.9996
7	9	0.02266	0.03301	67029	0.69	0.4923	0.9999
7	10	0.01026	0.03292	67029	0.31	0.7552	1.0000
7	11	0.05515	0.03301	67029	1.67	0.0947	0.8816
7	12	0.08782	0.03317	67029	2.65	0.0081	0.2531
8	9	-0.00510	0.03317	67029	-0.15	0.8779	1.0000
8	10	-0.01750	0.03308	67029	-0.53	0.5968	1.0000
8	11	0.02739	0.03317	67029	0.83	0.4090	0.9996
8	12	0.06006	0.03333	67029	1.80	0.0716	0.8175
9	10	-0.01240	0.03265	67029	-0.38	0.7040	1.0000
9	11	0.03249	0.03275	67029	0.99	0.3212	0.9979
9	12	0.06516	0.03291	67029	1.98	0.0477	0.7073
10	11	0.04489	0.03265	67029	1.37	0.1692	0.9684
10	12	0.07756	0.03282	67029	2.36	0.0181	0.4312
11	12	0.03267	0.03290	67029	0.99	0.3207	0.9979

## The GLIMMIX Procedure



## The GLIMMIX Procedure

Model Information	
Data Set	WORK.CAB
Response Variable	fare_amount
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

Number of Observations Read	67193
Number of Observations Used	67193

Dimensions	
G-side Cov. Parameters	4
R-side Cov. Parameters	1
Columns in X	17
Columns in Z	148
Subjects (Blocks in V)	1
Max Obs per Subject	67193

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	4
Lower Boundaries	4
Upper Boundaries	0

## The GLIMMIX Procedure

Optimization Information	
Fixed Effects	Profiled
Residual Variance	Profiled
Starting From	Data

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	312868.1314	.	17909.29
1	0	10	312621.3767	246.75469768	2615.398
2	0	3	312154.79014	466.58656092	226.919
3	0	9	312138.62004	16.17010081	201.4655
4	0	4	312100.94291	37.67713361	601.4493
5	0	2	312096.96537	3.97753550	1599.573
6	0	4	312085.84825	11.11711841	1447.05
7	0	2	312073.20553	12.64272681	750.9953
8	0	4	312040.55663	32.64889360	48.72196
9	0	2	312033.67123	6.88540471	182.7257
10	0	5	312030.27913	3.39209649	134.4252
11	0	5	312029.66146	0.61766871	42.87011
12	0	2	312028.61486	1.04660192	16.0744
13	0	3	312028.30277	0.31208982	21.63649
14	0	3	312028.27131	0.03145959	14.22408
15	0	3	312028.25723	0.01408050	1.913975
16	0	3	312028.25614	0.00109384	0.757096

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

Fit Statistics	
-2 Res Log Likelihood	312028.3
AIC (smaller is better)	312038.3
AICC (smaller is better)	312038.3
BIC (smaller is better)	312047.8
CAIC (smaller is better)	312052.8
HQIC (smaller is better)	312041.9
Generalized Chi-Square	403578.3
Gener. Chi-Square / DF	6.01

## The GLIMMIX Procedure

Covariance Parameter Estimates		
Cov Parm	Estimate	Standard Error
pickup_location_id	0.3624	0.07537
dropoff_location_id	0.5649	0.1207
pickup_time	13.8987	4.2001
dropoff_time	12.7706	3.8336
Residual	6.0076	0.03282

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
trip_distance	1	47851	284376	<.0001
passenger_count	1	67027	9.45	0.0021
month	11	67027	29.78	<.0001
toll_ind	1	66487	74.37	<.0001

month Least Squares Means					
month	Estimate	Standard Error	DF	t Value	Pr >  t
1	12.0854	1.0639	43.88	11.36	<.0001
2	12.1360	1.0639	43.88	11.41	<.0001
3	12.0127	1.0639	43.88	11.29	<.0001
4	12.1907	1.0639	43.88	11.46	<.0001
5	12.3671	1.0639	43.88	11.62	<.0001
6	12.2940	1.0639	43.88	11.56	<.0001
7	12.1551	1.0639	43.88	11.42	<.0001
8	12.1146	1.0639	43.88	11.39	<.0001
9	12.4932	1.0639	43.88	11.74	<.0001
10	12.4034	1.0639	43.88	11.66	<.0001
11	12.4849	1.0639	43.88	11.74	<.0001
12	12.5266	1.0639	43.88	11.77	<.0001

## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
1	2	-0.05053	0.04617	67027	-1.09	0.2738	0.9950
1	3	0.07275	0.04638	67026	1.57	0.1167	0.9204
1	4	-0.1052	0.04644	67028	-2.27	0.0235	0.5017
1	5	-0.2816	0.04674	67027	-6.03	<.0001	<.0001
1	6	-0.2086	0.04673	67028	-4.46	<.0001	0.0005
1	7	-0.06961	0.04664	67028	-1.49	0.1355	0.9430
1	8	-0.02917	0.04687	67027	-0.62	0.5337	1.0000
1	9	-0.4078	0.04628	67029	-8.81	<.0001	<.0001
1	10	-0.3179	0.04614	67027	-6.89	<.0001	<.0001
1	11	-0.3995	0.04628	67029	-8.63	<.0001	<.0001
1	12	-0.4411	0.04651	67028	-9.48	<.0001	<.0001
2	3	0.1233	0.04599	67026	2.68	0.0074	0.2358
2	4	-0.05467	0.04605	67026	-1.19	0.2351	0.9900
2	5	-0.2311	0.04635	67026	-4.99	<.0001	<.0001
2	6	-0.1581	0.04632	67026	-3.41	0.0006	0.0316
2	7	-0.01909	0.04626	67029	-0.41	0.6799	1.0000
2	8	0.02136	0.04649	67027	0.46	0.6459	1.0000
2	9	-0.3572	0.04589	67029	-7.78	<.0001	<.0001
2	10	-0.2674	0.04575	67026	-5.84	<.0001	<.0001
2	11	-0.3489	0.04588	67027	-7.61	<.0001	<.0001
2	12	-0.3906	0.04612	67027	-8.47	<.0001	<.0001
3	4	-0.1780	0.04626	67027	-3.85	0.0001	0.0067
3	5	-0.3544	0.04657	67026	-7.61	<.0001	<.0001
3	6	-0.2813	0.04654	67027	-6.04	<.0001	<.0001
3	7	-0.1424	0.04646	67027	-3.06	0.0022	0.0909
3	8	-0.1019	0.04669	67027	-2.18	0.0291	0.5623
3	9	-0.4805	0.04611	67028	-10.42	<.0001	<.0001
3	10	-0.3907	0.04597	67027	-8.50	<.0001	<.0001
3	11	-0.4722	0.04611	67029	-10.24	<.0001	<.0001
3	12	-0.5139	0.04634	67028	-11.09	<.0001	<.0001
4	5	-0.1764	0.04661	67027	-3.79	0.0002	0.0085
4	6	-0.1034	0.04659	67028	-2.22	0.0265	0.5359
4	7	0.03559	0.04652	67029	0.76	0.4443	0.9998
4	8	0.07604	0.04675	67027	1.63	0.1038	0.8997

## The GLIMMIX Procedure

Differences of month Least Squares Means Adjustment for Multiple Comparisons: Tukey-Kramer							
month	_month	Estimate	Standard Error	DF	t Value	Pr >  t	Adj P
4	9	-0.3026	0.04616	67029	-6.56	<.0001	<.0001
4	10	-0.2127	0.04602	67028	-4.62	<.0001	0.0002
4	11	-0.2943	0.04615	67028	-6.38	<.0001	<.0001
4	12	-0.3359	0.04639	67028	-7.24	<.0001	<.0001
5	6	0.07305	0.04687	67026	1.56	0.1191	0.9237
5	7	0.2120	0.04681	67027	4.53	<.0001	0.0004
5	8	0.2525	0.04704	67027	5.37	<.0001	<.0001
5	9	-0.1261	0.04645	67028	-2.72	0.0066	0.2182
5	10	-0.03628	0.04631	67026	-0.78	0.4333	0.9998
5	11	-0.1178	0.04644	67027	-2.54	0.0112	0.3164
5	12	-0.1595	0.04667	67027	-3.42	0.0006	0.0311
6	7	0.1390	0.04678	67027	2.97	0.0030	0.1172
6	8	0.1794	0.04702	67027	3.82	0.0001	0.0075
6	9	-0.1992	0.04642	67027	-4.29	<.0001	0.0011
6	10	-0.1093	0.04629	67027	-2.36	0.0182	0.4324
6	11	-0.1909	0.04642	67027	-4.11	<.0001	0.0023
6	12	-0.2325	0.04666	67027	-4.98	<.0001	<.0001
7	8	0.04045	0.04693	67028	0.86	0.3888	0.9994
7	9	-0.3382	0.04635	67027	-7.30	<.0001	<.0001
7	10	-0.2483	0.04623	67028	-5.37	<.0001	<.0001
7	11	-0.3299	0.04635	67027	-7.12	<.0001	<.0001
7	12	-0.3715	0.04658	67027	-7.97	<.0001	<.0001
8	9	-0.3786	0.04659	67028	-8.13	<.0001	<.0001
8	10	-0.2887	0.04646	67028	-6.22	<.0001	<.0001
8	11	-0.3703	0.04659	67028	-7.95	<.0001	<.0001
8	12	-0.4119	0.04681	67027	-8.80	<.0001	<.0001
9	10	0.08986	0.04585	67027	1.96	0.0500	0.7208
9	11	0.008301	0.04599	67028	0.18	0.8568	1.0000
9	12	-0.03333	0.04622	67027	-0.72	0.4708	0.9999
10	11	-0.08156	0.04586	67028	-1.78	0.0753	0.8300
10	12	-0.1232	0.04609	67027	-2.67	0.0075	0.2397
11	12	-0.04163	0.04620	67026	-0.90	0.3676	0.9991

## The GLIMMIX Procedure

