The GLIMMIX Procedure

Model Information	
Data Set	WORK.THICK
Response Variable	Value
Response Distribution	Binomial
Link Function	Logit
Variance Function	Default
Variance Matrix Blocked By	newID
Estimation Technique	Maximum Likelihood
Likelihood Approximation	Gauss-Hermite Quadrature
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
Attribute	6	LLL LLS LUS RLL RML RUL
rater	2	JW VH

Number of Observations Read	1463
Number of Observations Used	1463

Dimensions	
G-side Cov. Parameters	1
Columns in X	9
Columns in Z per Subject	1
Subjects (Blocks in V)	161
Max Obs per Subject	12

Optimization Information	
Optimization Technique	Dual Quasi-Newton
Parameters in Optimization	8
Lower Boundaries	1
Upper Boundaries	0
Fixed Effects	Not Profiled
Starting From	GLM estimates
Quadrature Points	21

Iteration History					
Iteration	Restarts	Evaluations	Objective Function	Change	Max Gradient
0	0	4	512.58610608	.	49.79466
1	0	4	470.81034601	41.77576007	10.6926
2	0	2	464.74519182	6.06515419	1.966407
3	0	2	463.90181383	0.84337799	1.49571
4	0	2	463.45659252	0.44522130	1.536369
5	0	2	463.31790193	0.13869059	0.643357
6	0	2	463.20836486	0.10953708	1.688506
7	0	2	463.03303808	0.17532677	0.405376
8	0	2	462.86101982	0.17201826	0.818663
9	0	3	462.82195651	0.03906331	0.138544
10	0	3	462.82018503	0.00177148	0.032172
11	0	3	462.82005533	0.00012971	0.006743
12	0	3	462.82005345	0.00000188	0.000713

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

Fit Statistics	
-2 Log Likelihood	462.82
AIC (smaller is better)	478.82
AICC (smaller is better)	478.92
BIC (smaller is better)	503.47
CAIC (smaller is better)	511.47
HQIC (smaller is better)	488.83

Fit Statistics for Conditional Distribution	
-2 log L(Value | r. effects)	264.31
Pearson Chi-Square	370.97

Fit Statistics for Conditional Distribution	
Pearson Chi-Square / DF	0.25

Covariance Parameter Estimates			
Cov Parm	Subject	Estimate	Standard Error
Intercept	newID	7.8772	2.5844

Solutions for Fixed Effects							
Effect	Attribute	rater	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept			-3.5545	0.5719	160	-6.22	<.0001
Attribute	LLL		-2.1140	0.4712	1296	-4.49	<.0001
Attribute	LLS		-3.4645	0.6451	1296	-5.37	<.0001
Attribute	LUS		-2.2540	0.4845	1296	-4.65	<.0001
Attribute	RLL		-1.5281	0.4234	1296	-3.61	0.0003
Attribute	RML		-3.4650	0.6450	1296	-5.37	<.0001
Attribute	RUL		0	.	.	.	.
rater		JW	0.2621	0.3810	1296	0.69	0.4916
rater		VH	0	.	.	.	.

Type III Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
Attribute	5	1296	10.44	<.0001
rater	1	1296	0.47	0.4916

Solution for Random Effects						
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > |t|
Intercept	1	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	2	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	3	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	4	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	5	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	6	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	7	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	8	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	9	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	10	4.0254	1.1984	1296	3.36	0.0008
Intercept	11	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	12	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	13	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	14	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	15	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	16	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	17	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	18	2.7703	1.4077	1296	1.97	0.0493
Intercept	19	4.0254	1.1984	1296	3.36	0.0008
Intercept	20	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	21	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	22	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	23	4.0254	1.1984	1296	3.36	0.0008
Intercept	24	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	25	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	26	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	27	2.7703	1.4077	1296	1.97	0.0493
Intercept	28	5.7197	1.1346	1296	5.04	<.0001
Intercept	29	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	30	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	31	2.7703	1.4077	1296	1.97	0.0493
Intercept	32	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	33	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	34	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	35	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	36	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	37	4.0254	1.1984	1296	3.36	0.0008
Intercept	38	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	39	2.7703	1.4077	1296	1.97	0.0493
Intercept	40	5.7319	0.9125	1296	6.28	<.0001

Solution for Random Effects						
Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > |t|
Intercept	41	4.9290	1.1338	1296	4.35	<.0001
Intercept	42	2.7703	1.4077	1296	1.97	0.0493
Intercept	43	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	44	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	45	2.7703	1.4077	1296	1.97	0.0493
Intercept	46	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	47	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	48	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	49	2.1695	1.2807	1296	1.69	0.0905
Intercept	50	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	51	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	52	2.7703	1.4077	1296	1.97	0.0493
Intercept	53	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	54	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	55	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	56	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	57	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	58	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	59	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	60	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	61	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	62	4.9290	1.1338	1296	4.35	<.0001
Intercept	63	4.0254	1.1984	1296	3.36	0.0008
Intercept	64	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	65	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	66	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	67	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	68	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	69	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	70	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	71	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	72	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	73	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	74	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	75	4.0254	1.1984	1296	3.36	0.0008
Intercept	76	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	77	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	78	4.8859	0.9149	1296	5.34	<.0001
Intercept	79	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	80	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	81	-0.4740	2.3198	1296	-0.20	0.8381
Intercept	82	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	83	2.1695	1.2807	1296	1.69	0.0905
Intercept	84	3.1808	1.0580	1296	3.01	0.0027
Intercept	85	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	86	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	87	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	88	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	89	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	90	4.9290	1.1338	1296	4.35	<.0001
Intercept	91	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	92	4.4123	0.9348	1296	4.72	<.0001
Intercept	93	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	94	3.1808	1.0580	1296	3.01	0.0027
Intercept	95	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	96	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	97	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	98	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	99	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	100	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	101	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	102	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	103	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	104	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	105	-0.3154	2.4540	1296	-0.13	0.8978

Solution for Random Effects

Effect	Subject	Estimate	Std Err Pred	DF	t Value	Pr > |t|
Intercept	106	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	107	3.1808	1.0580	1296	3.01	0.0027
Intercept	108	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	109	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	110	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	111	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	112	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	113	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	114	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	115	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	116	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	117	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	118	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	119	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	120	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	121	4.0254	1.1984	1296	3.36	0.0008
Intercept	122	3.1808	1.0580	1296	3.01	0.0027
Intercept	123	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	124	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	125	3.1808	1.0580	1296	3.01	0.0027
Intercept	126	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	127	2.7703	1.4077	1296	1.97	0.0493
Intercept	128	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	129	2.7703	1.4077	1296	1.97	0.0493
Intercept	130	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	131	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	132	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	133	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	134	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	135	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	136	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	137	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	138	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	139	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	140	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	141	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	142	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	143	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	144	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	145	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	146	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	147	2.7703	1.4077	1296	1.97	0.0493
Intercept	148	3.8650	0.9749	1296	3.96	<.0001
Intercept	149	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	150	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	151	-0.4769	2.3174	1296	-0.21	0.8370
Intercept	152	3.1808	1.0580	1296	3.01	0.0027
Intercept	153	2.7703	1.4077	1296	1.97	0.0493
Intercept	154	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	155	5.3185	0.9082	1296	5.86	<.0001
Intercept	156	4.0254	1.1984	1296	3.36	0.0008
Intercept	157	2.7703	1.4077	1296	1.97	0.0493
Intercept	158	2.7703	1.4077	1296	1.97	0.0493
Intercept	159	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	160	-0.3154	2.4540	1296	-0.13	0.8978
Intercept	161	-0.4769	2.3174	1296	-0.21	0.8370

Attribute Least Squares Means

Attribute	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Mean	Standard Error Mean	Lower Mean	Upper Mean
LLL	-5.5375	0.6828	1296	-8.11	<.0001	0.05	-6.8770	-4.1979	0.003921	0.002667	0.001030	0.01480
LLS	-6.8880	0.8280	1296	-8.32	<.0001	0.05	-8.5124	-5.2635	0.001019	0.000843	0.000201	0.005151
LUS	-5.6774	0.6946	1296	-8.17	<.0001	0.05	-7.0401	-4.3148	0.003411	0.002361	0.000875	0.01319
RLL	-4.9516	0.6368	1296	-7.78	<.0001	0.05	-6.2008	-3.7023	0.007023	0.004441	0.002024	0.02407
RML	-6.8884	0.8279	1296	-8.32	<.0001	0.05	-8.5126	-5.2642	0.001018	0.000842	0.000201	0.005147

Attribute Least Squares Means

Attribute	Estimate	Standard Error	DF	t Value	Pr > |t|	Alpha	Lower	Upper	Mean	Standard Error Mean	Lower Mean	Upper Mean
RUL	-3.4234	0.5185	1296	-6.60	<.0001	0.05	-4.4407	-2.4061	0.03157	0.01585	0.01165	0.08271

Differences of Attribute Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer

Attribute	Attribute	Estimate	Standard Error	DF	t Value	Pr > |t|	Adj P	Alpha	Lower	Upper	Adj Lower	Adj Upper	Odds Ratio	Lower Confidence Limit for Odds Ratio	Upper Confidence Limit for Odds Ratio	Adj Lower Odds Ratio	Adj Upper Odds Ratio
LLL	LLS	1.3505	0.6673	1296	2.02	0.0432	0.3293	0.05	0.04135	2.6596	-0.5540	3.2550	3.859	1.042	14.291	0.575	25.920
LLL	LUS	0.1400	0.5296	1296	0.26	0.7916	0.9998	0.05	-0.8989	1.1789	-1.3714	1.6513	1.150	0.407	3.251	0.254	5.214
LLL	RLL	-0.5859	0.4896	1296	-1.20	0.2316	0.8385	0.05	-1.5463	0.3745	-1.9831	0.8113	0.557	0.213	1.454	0.138	2.251
LLL	RML	1.3510	0.6673	1296	2.02	0.0431	0.3288	0.05	0.04192	2.6600	-0.5534	3.2553	3.861	1.043	14.297	0.575	25.929
LLL	RUL	-2.1140	0.4712	1296	-4.49	<.0001	0.0001	0.05	-3.0385	-1.1896	-3.4589	-0.7691	0.121	0.048	0.304	0.031	0.463
LLS	LUS	-1.2105	0.6739	1296	-1.80	0.0727	0.4685	0.05	-2.5326	0.1116	-3.1338	0.7128	0.298	0.079	1.118	0.044	2.040
LLS	RLL	-1.9364	0.6482	1296	-2.99	0.0029	0.0340	0.05	-3.2080	-0.6648	-3.7863	-0.08650	0.144	0.040	0.514	0.023	0.917
LLS	RML	0.000477	0.7803	1296	0.00	0.9995	1.0000	0.05	-1.5303	1.5312	-2.2265	2.2274	1.000	0.216	4.624	0.108	9.276
LLS	RUL	-3.4645	0.6451	1296	-5.37	<.0001	<.0001	0.05	-4.7301	-2.1989	-5.3057	-1.6234	0.031	0.009	0.111	0.005	0.197
LUS	RLL	-0.7259	0.5005	1296	-1.45	0.1472	0.6960	0.05	-1.7077	0.2559	-2.1542	0.7025	0.484	0.181	1.292	0.116	2.019
LUS	RML	1.2110	0.6739	1296	1.80	0.0726	0.4679	0.05	-0.1110	2.5330	-0.7122	3.1342	3.357	0.895	12.591	0.491	22.970
LUS	RUL	-2.2540	0.4845	1296	-4.65	<.0001	<.0001	0.05	-3.2045	-1.3035	-3.6368	-0.8713	0.105	0.041	0.272	0.026	0.418
RLL	RML	1.9369	0.6481	1296	2.99	0.0029	0.0339	0.05	0.6654	3.2084	0.08713	3.7866	6.937	1.945	24.738	1.091	44.107
RLL	RUL	-1.5281	0.4234	1296	-3.61	0.0003	0.0043	0.05	-2.3588	-0.6975	-2.7365	-0.3197	0.217	0.095	0.498	0.065	0.726
RML	RUL	-3.4650	0.6450	1296	-5.37	<.0001	<.0001	0.05	-4.7304	-2.1996	-5.3059	-1.6241	0.031	0.009	0.111	0.005	0.197