

The Mixed Procedure

Model Information	
Data Set	WORK.A
Dependent Variable	pbf
Covariance Structure	Unstructured
Subject Effect	id
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
id	162	not printed

Dimensions	
Covariance Parameters	7
Columns in X	3
Columns in Z per Subject	3
Subjects	162
Max Obs per Subject	10

Number of Observations	
Number of Observations Read	1049
Number of Observations Used	1049
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	7073.41750695	
1	2	6063.49976979	0.00045902
2	1	6062.44105637	0.00001857
3	1	6062.40145176	0.00000004
4	1	6062.40136458	0.00000000

Convergence criteria met.

The Mixed Procedure

Estimated G Matrix					
Row	Effect	Subject ID	Col1	Col2	Col3
1	Intercept	1	45.9413	2.5263	-6.1096
2	time	1	2.5263	1.6311	-1.7505
3	time_0	1	-6.1096	-1.7505	2.7497

Estimated G Correlation Matrix					
Row	Effect	Subject ID	Col1	Col2	Col3
1	Intercept	1	1.0000	0.2918	-0.5436
2	time	1	0.2918	1.0000	-0.8266
3	time_0	1	-0.5436	-0.8266	1.0000

Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr Z
UN(1,1)	id	45.9413	5.7393	8.00	<.0001
UN(2,1)	id	2.5263	1.2185	2.07	0.0382
UN(2,2)	id	1.6311	0.4331	3.77	<.0001
UN(3,1)	id	-6.1096	1.8730	-3.26	0.0011
UN(3,2)	id	-1.7505	0.5980	-2.93	0.0034
UN(3,3)	id	2.7497	0.9635	2.85	0.0022
Residual		9.4732	0.5443	17.40	<.0001

Fit Statistics	
-2 Res Log Likelihood	6062.4
AIC (Smaller is Better)	6076.4
AICC (Smaller is Better)	6076.5
BIC (Smaller is Better)	6098.0

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
6	1011.02	<.0001

The Mixed Procedure

Solution for Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	21.3614	0.5646	161	37.84	<.0001
time	0.4171	0.1572	161	2.65	0.0087
time_0	2.0471	0.2280	159	8.98	<.0001

Type 3 Tests of Fixed Effects						
Effect	Num DF	Den DF	Chi-Square	F Value	Pr > ChiSq	Pr > F
time	1	161	7.04	7.04	0.0080	0.0087
time_0	1	159	80.64	80.64	<.0001	<.0001

The Mixed Procedure

Model Information	
Data Set	WORK.A
Dependent Variable	pbf
Covariance Structures	Unstructured, Spatial Exponential
Subject Effects	id, id
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
id	162	not printed

Dimensions	
Covariance Parameters	4
Columns in X	3
Columns in Z per Subject	1
Subjects	162
Max Obs per Subject	10

Number of Observations	
Number of Observations Read	1049
Number of Observations Used	1049
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	7073.41750695	
1	3	6013.20961208	0.00391220
2	1	6003.54699439	0.00113583
3	2	6001.03956295	0.00045032
4	1	5999.99584548	0.00005112
5	1	5999.88044924	0.00000242
6	1	5999.87535265	0.00000001

The Mixed Procedure

Convergence criteria met.

Estimated G Matrix			
Row	Effect	Subject ID	Col1
1	Intercept	1	28.7625

Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
UN(1,1)	id	28.7625	4.6549	6.18	<.0001
Variance	id	17.0015	2.3368	7.28	<.0001
SP(EXP)	id	2.3640	0.5897	4.01	<.0001
Residual		2.5999	0.8391	3.10	0.0010

Fit Statistics	
-2 Res Log Likelihood	5999.9
AIC (Smaller is Better)	6007.9
AICC (Smaller is Better)	6007.9
BIC (Smaller is Better)	6020.2

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
3	1073.54	<.0001

Solution for Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	21.2577	0.5406	161	39.32	<.0001
time	0.2286	0.1440	885	1.59	0.1129
time_0	2.1646	0.2282	885	9.49	<.0001

Type 3 Tests of Fixed Effects						
Effect	Num DF	Den DF	Chi-Square	F Value	Pr > ChiSq	Pr > F
time	1	885	2.52	2.52	0.1125	0.1129
time_0	1	885	89.99	89.99	<.0001	<.0001

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Dependent Variable	pbf
Covariance Structures	Unstructured, Spatial Gaussian
Subject Effects	id, id
Estimation Method	REML
Residual Variance Method	Profile
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Containment

Class Level Information		
Class	Levels	Values
id	162	not printed

Dimensions	
Covariance Parameters	4
Columns in X	3
Columns in Z per Subject	1
Subjects	162
Max Obs per Subject	10

Number of Observations	
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Number of Observations Used	1049
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	7073.41750695	
1	2	6046.83963889	0.00088985
2	1	6046.60657656	0.00036194
3	1	6045.06567479	0.00027329
4	2	6030.71782040	0.24785953
5	2	6016.43276279	0.00922869
6	2	6009.16531015	0.00695863
7	1	5992.81412622	0.00073273
8	1	5991.20552295	0.00001561

The Mixed Procedure

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
9	1	5991.17322779	0.00000001
10	1	5991.17320465	0.00000000

Convergence criteria met.

Estimated G Matrix			
Row	Effect	Subject ID	Col1
1	Intercept	1	31.7913

Covariance Parameter Estimates					
Cov Parm	Subject	Estimate	Standard Error	Z Value	Pr > Z
UN(1,1)	id	31.7913	4.2315	7.51	<.0001
Variance	id	10.8988	1.2118	8.99	<.0001
SP(GAU)	id	1.9630	0.1844	10.65	<.0001
Residual		5.7765	0.5146	11.23	<.0001

Fit Statistics	
-2 Res Log Likelihood	5991.2
AIC (Smaller is Better)	5999.2
AICC (Smaller is Better)	5999.2
BIC (Smaller is Better)	6011.5

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
3	1082.24	<.0001

Solution for Fixed Effects					
Effect	Estimate	Standard Error	DF	t Value	Pr > t
Intercept	21.2918	0.5400	161	39.43	<.0001
time	0.2168	0.1439	885	1.51	0.1323
time_0	2.1655	0.2331	885	9.29	<.0001

The Mixed Procedure

Type 3 Tests of Fixed Effects						
Effect	Num DF	Den DF	Chi-Square	F Value	Pr > ChiSq	Pr > F
time	1	885	2.27	2.27	0.1320	0.1323
time_0	1	885	86.32	86.32	<.0001	<.0001