

The Mixed Procedure

group=A

Model Information	
Data Set	WORK.A
Dependent Variable	lead
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	50	2 3 5 6 12 14 19 20 22 23 25 26 27 29 31 32 36 39 40 43 44 45 48 49 53 54 57 64 65 66 68 69 70 71 72 79 82 85 87 89 90 91 93 94 95 96 97 98 99 100
timefactor	4	0 1 4 6

Dimensions	
Covariance Parameters	2
Columns in X	5
Columns in Z per Subject	1
Subjects	50
Max Obs per Subject	4

Number of Observations	
Number of Observations Read	200
Number of Observations Used	200
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	1367.06608276	
1	1	1314.56900792	0.00000000

Convergence criteria met.

The Mixed Procedure

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Estimated G Matrix			
Row	Effect	id	Col1
1	Intercept	2	27.7676

Estimated G Correlation Matrix			
Row	Effect	id	Col1
1	Intercept	2	1.0000

Estimated V Matrix for id 2				
Row	Col1	Col2	Col3	Col4
1	57.8072	27.7676	27.7676	27.7676
2	27.7676	57.8072	27.7676	27.7676
3	27.7676	27.7676	57.8072	27.7676
4	27.7676	27.7676	27.7676	57.8072

Estimated V Correlation Matrix for id 2				
Row	Col1	Col2	Col3	Col4
1	1.0000	0.4803	0.4803	0.4803
2	0.4803	1.0000	0.4803	0.4803
3	0.4803	0.4803	1.0000	0.4803
4	0.4803	0.4803	0.4803	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	id	27.7676
Residual		30.0395

Fit Statistics	
-2 Res Log Likelihood	1314.6
AIC (Smaller is Better)	1318.6
AICC (Smaller is Better)	1318.6
BIC (Smaller is Better)	1322.4

The Mixed Procedure

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Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
1	52.50	<.0001

Solution for Fixed Effects						
Effect	timefactor	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		20.7620	1.0752	49	19.31	<.0001
timefactor	0	5.7780	1.0962	147	5.27	<.0001
timefactor	1	-7.2400	1.0962	147	-6.60	<.0001
timefactor	4	-5.2480	1.0962	147	-4.79	<.0001
timefactor	6	0	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
timefactor	3	147	56.64	<.0001

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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	50	1 4 7 8 9 10 11 13 15 16 17 18 21 24 28 30 33 34 35 37 38 41 42 46 47 50 51 52 55 56 58 59 60 61 62 63 67 73 74 75 76 77 78 80 81 83 84 86 88 92
timefactor	4	0 1 4 6

Dimensions	
Covariance Parameters	2
Columns in X	5
Columns in Z per Subject	1
Subjects	50
Max Obs per Subject	4

Number of Observations	
Number of Observations Read	200
Number of Observations Used	200
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	1238.46101186	
1	1	1049.31174430	0.00000000

Convergence criteria met.

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Estimated G Matrix			
Row	Effect	id	Col1
1	Intercept	1	24.5121

Estimated G Correlation Matrix			
Row	Effect	id	Col1
1	Intercept	1	1.0000

Estimated V Matrix for id 1				
Row	Col1	Col2	Col3	Col4
1	29.9930	24.5121	24.5121	24.5121
2	24.5121	29.9930	24.5121	24.5121
3	24.5121	24.5121	29.9930	24.5121
4	24.5121	24.5121	24.5121	29.9930

Estimated V Correlation Matrix for id 1				
Row	Col1	Col2	Col3	Col4
1	1.0000	0.8173	0.8173	0.8173
2	0.8173	1.0000	0.8173	0.8173
3	0.8173	0.8173	1.0000	0.8173
4	0.8173	0.8173	0.8173	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	id	24.5121
Residual		5.4809

Fit Statistics	
-2 Res Log Likelihood	1049.3
AIC (Smaller is Better)	1053.3
AICC (Smaller is Better)	1053.4
BIC (Smaller is Better)	1057.1

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Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
1	189.15	<.0001

Solution for Fixed Effects						
Effect	timefactor	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		23.6460	0.7745	49	30.53	<.0001
timefactor	0	2.6260	0.4682	147	5.61	<.0001
timefactor	1	1.0140	0.4682	147	2.17	0.0320
timefactor	4	0.4240	0.4682	147	0.91	0.3667
timefactor	6	0	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
timefactor	3	147	12.09	<.0001

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Class Level Information		
Class	Levels	Values
id	50	2 3 5 6 12 14 19 20 22 23 25 26 27 29 31 32 36 39 40 43 44 45 48 49 53 54 57 64 65 66 68 69 70 71 72 79 82 85 87 89 90 91 93 94 95 96 97 98 99 100
timefactor	4	0 1 4 6

Dimensions	
Covariance Parameters	4
Columns in X	5
Columns in Z per Subject	2
Subjects	50
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Number of Observations	
Number of Observations Read	200
Number of Observations Used	200
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	1367.06608276	
1	4	1303.02712975	0.00008844
2	2	1302.98801680	0.00000066
3	1	1302.98770448	0.00000000

Convergence criteria met.

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Estimated G Matrix				
Row	Effect	id	Col1	Col2
1	Intercept	2	10.5230	3.1607
2	time	2	3.1607	

Estimated G Correlation Matrix				
Row	Effect	id	Col1	Col2
1	Intercept	2	1.0000	1.0000
2	time	2	1.0000	1.0000

Estimated V Matrix for id 2				
Row	Col1	Col2	Col3	Col4
1	40.5628	13.6837	23.1657	29.4871
2	13.6837	46.8841	26.3264	32.6477
3	23.1657	26.3264	65.8481	42.1297
4	29.4871	32.6477	42.1297	78.4908

Estimated V Correlation Matrix for id 2				
Row	Col1	Col2	Col3	Col4
1	1.0000	0.3138	0.4482	0.5226
2	0.3138	1.0000	0.4738	0.5382
3	0.4482	0.4738	1.0000	0.5860
4	0.5226	0.5382	0.5860	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	id	10.5230
UN(2,1)	id	3.1607
UN(2,2)	id	1.02E-19
Residual		30.0397

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Fit Statistics	
-2 Res Log Likelihood	1303.0
AIC (Smaller is Better)	1309.0
AICC (Smaller is Better)	1309.1
BIC (Smaller is Better)	1314.7

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
2	64.08	<.0001

Solution for Fixed Effects						
Effect	timefactor	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		20.7620	1.2529	49	16.57	<.0001
timefactor	0	5.7780	1.0962	98	5.27	<.0001
timefactor	1	-7.2400	1.0962	98	-6.60	<.0001
timefactor	4	-5.2480	1.0962	98	-4.79	<.0001
timefactor	6	0	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
timefactor	3	98	56.64	<.0001

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Class Level Information		
Class	Levels	Values
id	50	1 4 7 8 9 10 11 13 15 16 17 18 21 24 28 30 33 34 35 37 38 41 42 46 47 50 51 52 55 56 58 59 60 61 62 63 67 73 74 75 76 77 78 80 81 83 84 86 88 92
timefactor	4	0 1 4 6

Dimensions	
Covariance Parameters	4
Columns in X	5
Columns in Z per Subject	2
Subjects	50
Max Obs per Subject	4

Number of Observations	
Number of Observations Read	200
Number of Observations Used	200
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Res Log Like	Criterion
0	1	1238.46101186	
1	1	1040.47124295	0.00000000

Convergence criteria met.

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Estimated G Matrix				
Row	Effect	id	Col1	Col2
1	Intercept	1	23.5071	0.004994
2	time	1	0.004994	0.1725

Estimated G Correlation Matrix				
Row	Effect	id	Col1	Col2
1	Intercept	1	1.0000	0.002480
2	time	1	0.002480	1.0000

Estimated V Matrix for id 1				
Row	Col1	Col2	Col3	Col4
1	27.6798	23.5121	23.5270	23.5370
2	23.5121	27.8623	24.2221	24.5771
3	23.5270	24.2221	30.4799	27.6973
4	23.5370	24.5771	27.6973	33.9501

Estimated V Correlation Matrix for id 1				
Row	Col1	Col2	Col3	Col4
1	1.0000	0.8466	0.8100	0.7678
2	0.8466	1.0000	0.8312	0.7991
3	0.8100	0.8312	1.0000	0.8610
4	0.7678	0.7991	0.8610	1.0000

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	id	23.5071
UN(2,1)	id	0.004994
UN(2,2)	id	0.1725
Residual		4.1727

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Fit Statistics	
-2 Res Log Likelihood	1040.5
AIC (Smaller is Better)	1048.5
AICC (Smaller is Better)	1048.7
BIC (Smaller is Better)	1056.1

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
3	197.99	<.0001

Solution for Fixed Effects						
Effect	timefactor	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		23.6460	0.8240	49	28.70	<.0001
timefactor	0	2.6260	0.5396	98	4.87	<.0001
timefactor	1	1.0140	0.5032	98	2.02	0.0466
timefactor	4	0.4240	0.4251	98	1.00	0.3210
timefactor	6	0	.	.	.	.

Type 3 Tests of Fixed Effects				
Effect	Num DF	Den DF	F Value	Pr > F
timefactor	3	98	9.78	<.0001