The Mixed Procedure

Model Information	
Data Set	WORK.RATUNIV
Dependent Variable	wt
Covariance Structure	Unstructured
Subject Effect	ID
Estimation Method	ML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	Levels	Values
ID	27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
GROUP	3	2 3 1

Dimensions	
Covariance Parameters	15
Columns in X	5
Columns in Z	0
Subjects	27
Max Obs per Subject	5

Number of Observations	
Number of Observations Read	135
Number of Observations Used	135
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Log Like	Criterion
0	1	1022.22365895	
1	4	829.44821059	0.00082953
2	1	829.18574808	0.00002446
3	1	829.17844289	0.00000005
4	1	829.17842734	0.00000000

Convergence criteria met.

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	**Subject**	**Estimate**
UN(1,1)	ID	20.2732
UN(2,1)	ID	30.6021
UN(2,2)	ID	69.6815
UN(3,1)	ID	28.5619
UN(3,2)	ID	63.8982
UN(3,3)	ID	87.5079
UN(4,1)	ID	28.5980
UN(4,2)	ID	51.2176
UN(4,3)	ID	98.2098
UN(4,4)	ID	168.62
UN(5,1)	ID	23.0944
UN(5,2)	ID	31.1922
UN(5,3)	ID	100.13
UN(5,4)	ID	196.48
UN(5,5)	ID	276.21

Fit Statistics	
-2 Log Likelihood	829.2
AIC (Smaller is Better)	867.2
AICC (Smaller is Better)	873.8
BIC (Smaller is Better)	891.8

Null Model Likelihood Ratio Test		
DF	**Chi-Square**	**Pr > ChiSq**
14	193.05	<.0001

Solution for Fixed Effects						
Effect	**group**	**Estimate**	**Standard Error**	**DF**	**t Value**	**Pr > |t|**
Intercept		55.5138	0.8036	26	69.08	<.0001
time		26.2151	0.9595	26	27.32	<.0001
time*GROUP	2	-7.0963	1.3324	26	-5.33	<.0001
time*GROUP	3	-2.0944	1.4682	26	-1.43	0.1656
time*GROUP	1	0	.	.	.	.

The Mixed Procedure

Type 3 Tests of Fixed Effects						
Effect	Num DF	Den DF	Chi-Square	F Value	Pr > ChiSq	Pr > F
time	1	26	1443.99	1443.99	<.0001	<.0001
time*GROUP	2	26	29.60	14.80	<.0001	<.0001
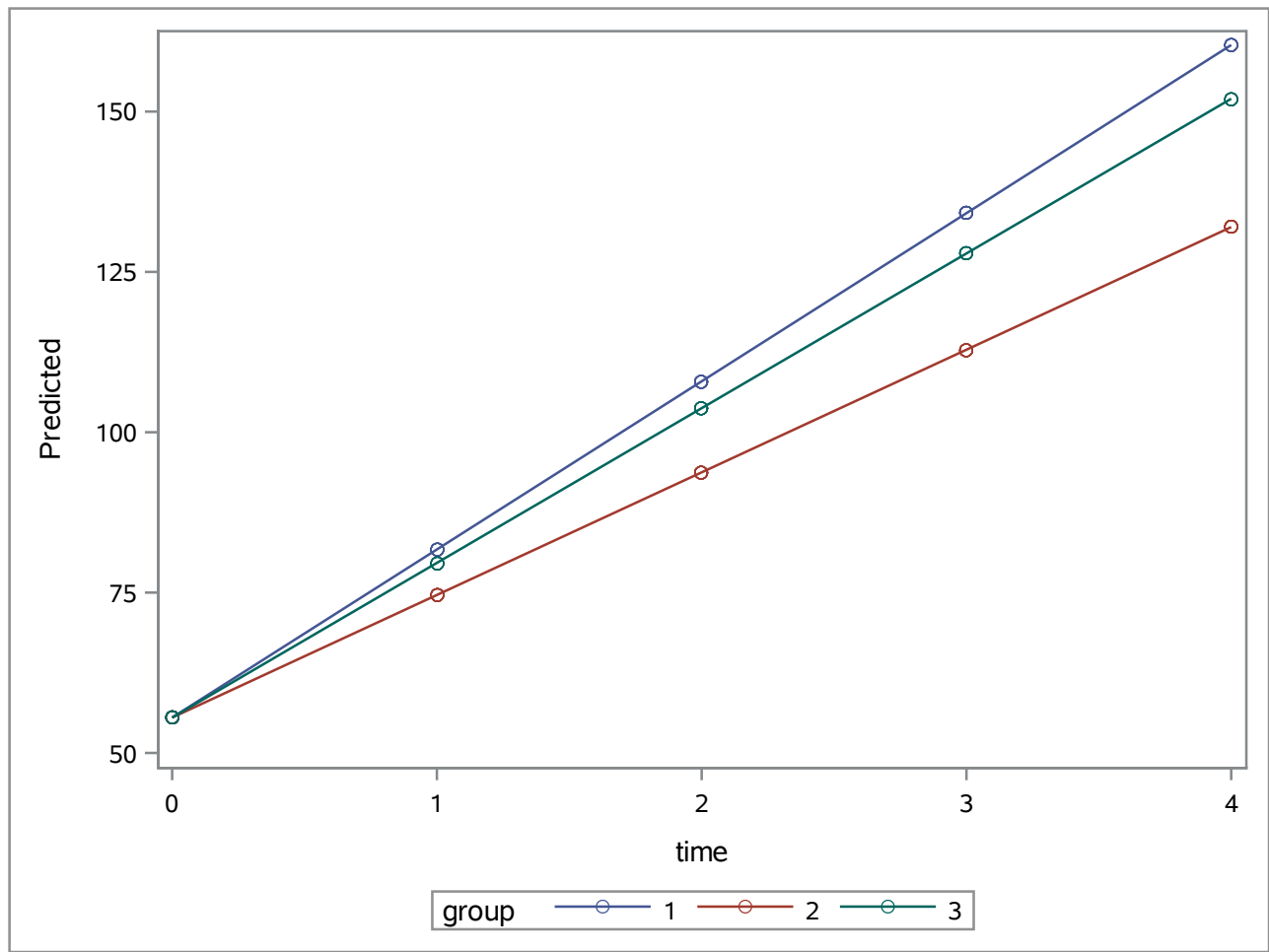
The Mixed Procedure

Model Information	
Data Set	WORK.RATUNIV_SPLINE
Dependent Variable	wt
Covariance Structure	Unstructured
Subject Effect	ID
Estimation Method	ML
Residual Variance Method	None
Fixed Effects SE Method	Model-Based
Degrees of Freedom Method	Between-Within

Class Level Information		
Class	Levels	Values
ID	27	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
GROUP	3	2 3 1

Dimensions	
Covariance Parameters	15
Columns in X	9
Columns in Z	0
Subjects	27
Max Obs per Subject	5

Number of Observations	
Number of Observations Read	135
Number of Observations Used	135
Number of Observations Not Used	0

Iteration History			
Iteration	Evaluations	-2 Log Like	Criterion
0	1	1015.85049946	
1	3	814.79714433	0.00967927
2	2	812.97820562	0.00193363
3	1	812.35393417	0.00016551
4	1	812.30397049	0.00000227
5	1	812.30332240	0.00000000

Convergence criteria met.

The Mixed Procedure

Covariance Parameter Estimates		
Cov Parm	Subject	Estimate
UN(1,1)	ID	20.3512
UN(2,1)	ID	31.5612
UN(2,2)	ID	69.8062
UN(3,1)	ID	30.2863
UN(3,2)	ID	64.2661
UN(3,3)	ID	88.7864
UN(4,1)	ID	28.7811
UN(4,2)	ID	55.5627
UN(4,3)	ID	106.56
UN(4,4)	ID	169.18
UN(5,1)	ID	21.5467
UN(5,2)	ID	35.9360
UN(5,3)	ID	108.58
UN(5,4)	ID	188.83
UN(5,5)	ID	258.58

Fit Statistics	
-2 Log Likelihood	812.3
AIC (Smaller is Better)	856.3
AICC (Smaller is Better)	865.3
BIC (Smaller is Better)	884.8

Null Model Likelihood Ratio Test		
DF	Chi-Square	Pr > ChiSq
14	203.55	<.0001

Solution for Fixed Effects						
Effect	group	Estimate	Standard Error	DF	t Value	Pr > |t|
Intercept		55.5587	0.8037	26	69.13	<.0001
time		26.5723	1.0421	26	25.50	<.0001
time_2		-1.0301	1.1547	26	-0.89	0.3805
time*GROUP	2	-5.4309	1.4405	26	-3.77	0.0008
time*GROUP	3	-2.4583	1.5873	26	-1.55	0.1335
time*GROUP	1	0	.	.	.	.

The Mixed Procedure

Solution for Fixed Effects						
Effect	group	Estimate	Standard Error	DF	t Value	Pr > |t|
time_2*GROUP	2	-4.9438	1.6249	26	-3.04	0.0053
time_2*GROUP	3	1.0804	1.7906	26	0.60	0.5515
time_2*GROUP	1	0	.	.	.	.

Type 3 Tests of Fixed Effects						
Effect	Num DF	Den DF	Chi-Square	F Value	Pr > ChiSq	Pr > F
time	1	26	1291.86	1291.86	<.0001	<.0001
time_2	1	26	10.41	10.41	0.0013	0.0034
time*GROUP	2	26	14.25	7.12	0.0008	0.0034
time_2*GROUP	2	26	14.21	7.11	0.0008	0.0035

Coefficients for time_2 and Group*time_2				
Effect	group	Row1	Row2	Row3
Intercept				
time				
time_2		1		
time*GROUP	2			
time*GROUP	3			
time*GROUP	1			
time_2*GROUP	2	0.3333	1	1
time_2*GROUP	3	0.3333	-1	
time_2*GROUP	1	0.3333		-1

Contrasts				
Label	Num DF	Den DF	F Value	Pr > F
time_2 and Group*time_2	3	26	9.16	0.0003