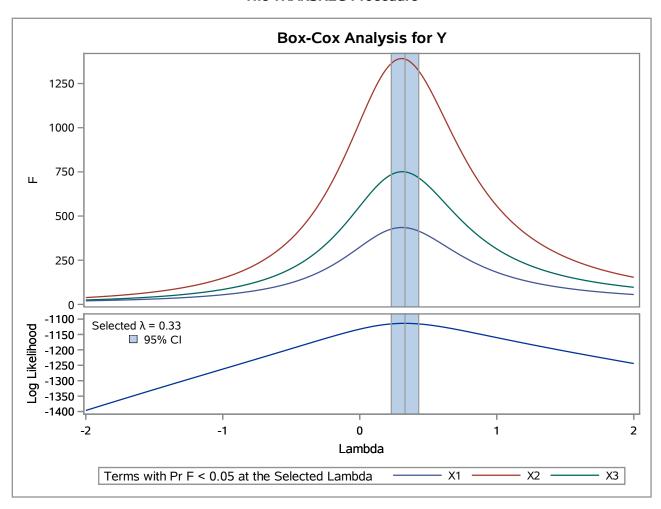
## The TRANSREG Procedure



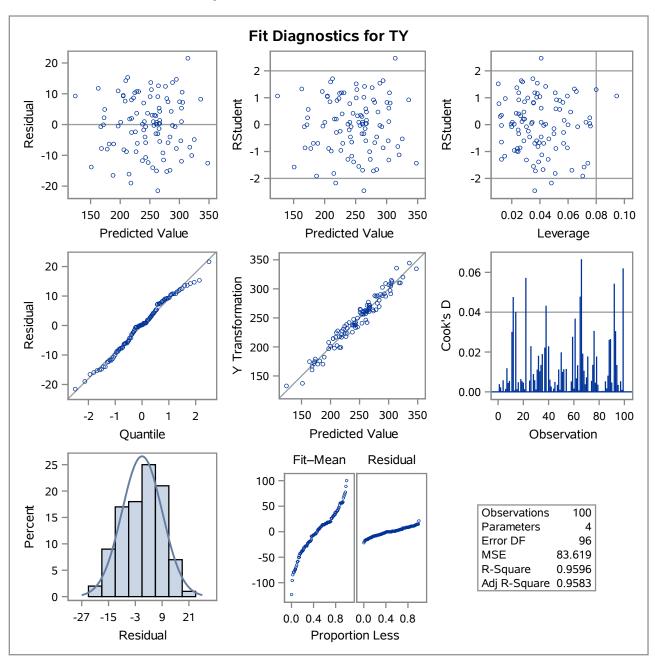
	Model Statement Specification Details					
Туре	DF	Variable	Description	Value		
Dep	1	BoxCox(Y)	Lambda Used	0.33		
			Lambda	0.33		
			Log Likelihood	-1113.9		
			Conv. Lambda			
			Conv. Lambda LL			
			CI Limit	-1115.8		
			Alpha	0.05		
Ind	1	Identity(X1)	DF	1		
Ind	1	Identity(X2)	DF	1		
Ind	1	Identity(X3)	DF	1		

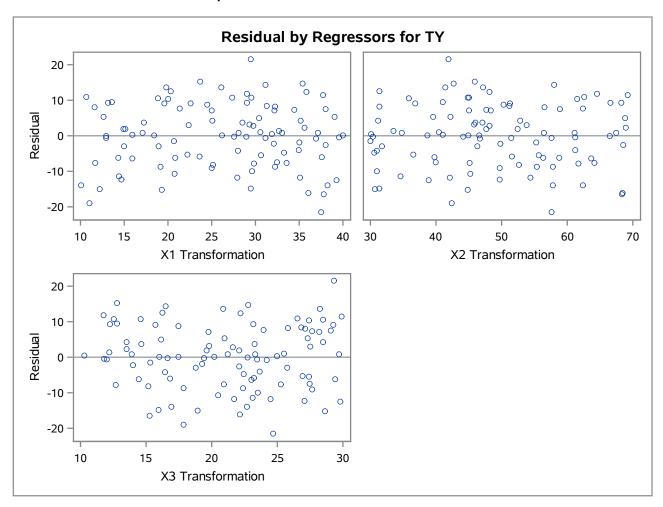
Number of Observations	Read	100
Number of Observations	Used	100

Analysis of Variance							
Source DF Squares Square F Value Pr > F							
Model	3	190475	63492	759.29	<.0001		
Error	96	8027.46635	83.61944				
Corrected Total	99	198502					

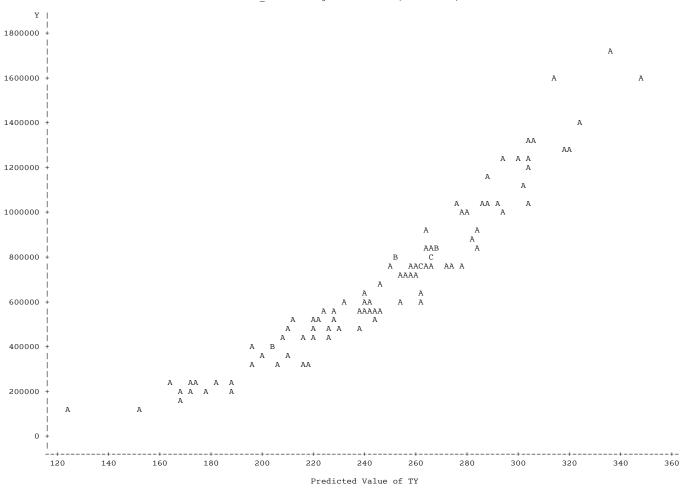
Root MSE	9.14437	R-Square	0.9596
Dependent Mean	247.15703	Adj R-Sq	0.9583
Coeff Var	3.69982		

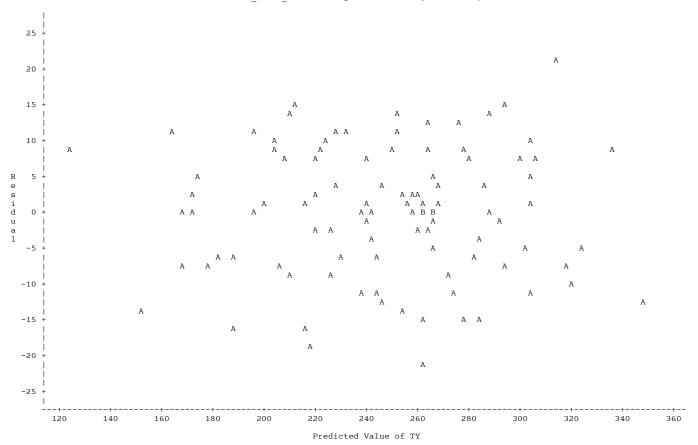
Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	Intercept	1	239.19831	5.84935	40.89	<.0001
TX1	X1 Transformation	1	2.23916	0.10743	20.84	<.0001
TX2	X2 Transformation	1	-3.02597	0.08121	-37.26	<.0001
TX3	X3 Transformation	1	4.62033	0.16873	27.38	<.0001





Plot of Y\*hat\_tildeY. Legend: A = 1 obs, B = 2 obs, etc.





# The UNIVARIATE Procedure Variable: tilde\_e (Residual)

Moments						
N	100	Sum Weights	100			
Mean	0	Sum Observations	0			
Std Deviation	9.00474978	Variance	81.0855187			
Skewness	-0.1612325	Kurtosis	-0.5836252			
Uncorrected SS	8027.46635	Corrected SS	8027.46635			
Coeff Variation		Std Error Mean	0.90047498			

	Basic Statistical Measures					
Location Variability						
Mean	0.000000	Std Deviation	9.00475			
Median	0.241637	Variance	81.08552			
Mode		Range	43.10508			
		Interquartile Range	13.79151			

Tests for Location: Mu0=0						
Test	Statistic p Value					
Student's t	t	0	) <b>Pr &gt;  t </b> 1.000			
Sign	М	4	Pr >=  M	0.4841		
Signed Rank	s	54	Pr >=  S	0.8538		

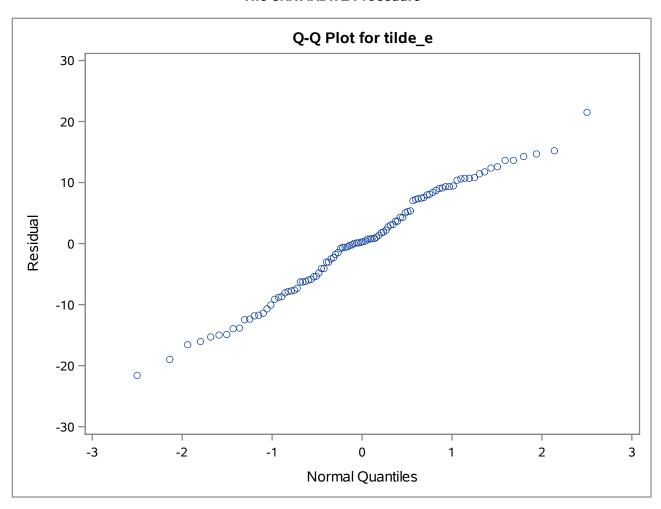
Tests for Normality						
Test	Statistic p Value					
Shapiro-Wilk	w	0.985728	Pr < W	0.3579		
Kolmogorov-Smirnov	D	0.073927	Pr > D	>0.1500		
Cramer-von Mises	W-Sq	0.068403	Pr > W-Sq	>0.2500		
Anderson-Darling	A-Sq	0.45874	Pr > A-Sq	>0.2500		

Quantiles (Definition 5)				
Level	Quantile			
100% Max	21.548307			
99%	18.400058			
95%	13.638694			
90%	11.133787			
75% Q3	7.505117			
50% Median	0.241637			
25% Q1	-6.286393			

# The UNIVARIATE Procedure Variable: tilde\_e (Residual)

Quantiles (Definition 5)				
Level	Quantile			
10%	-12.410891			
5%	-15.112421			
1%	-20.253009			
0% Min	-21.556773			

Extreme Observations						
Lowe	st	Highe	est			
Value	Obs	Value	Obs			
-21.5568	92	13.6536	26			
-18.9492	22	14.2779	71			
-16.5513	66	14.6620	32			
-16.0199	38	15.2518	88			
-15.2625	59	21.5483	99			



Number of Observations Read	100
Number of Observations Used	100

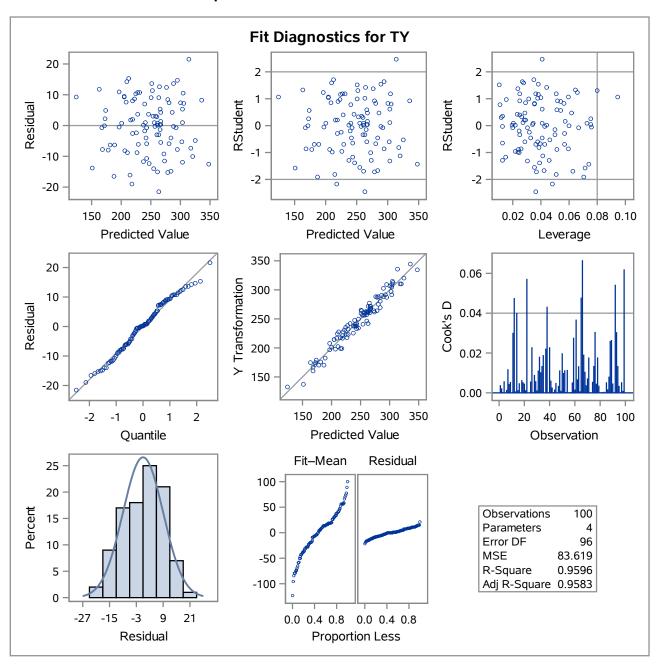
Analysis of Variance							
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F		
Model	3	190475	63492	759.29	<.0001		
Error	96	8027.46635	83.61944				
Corrected Total	99	198502					

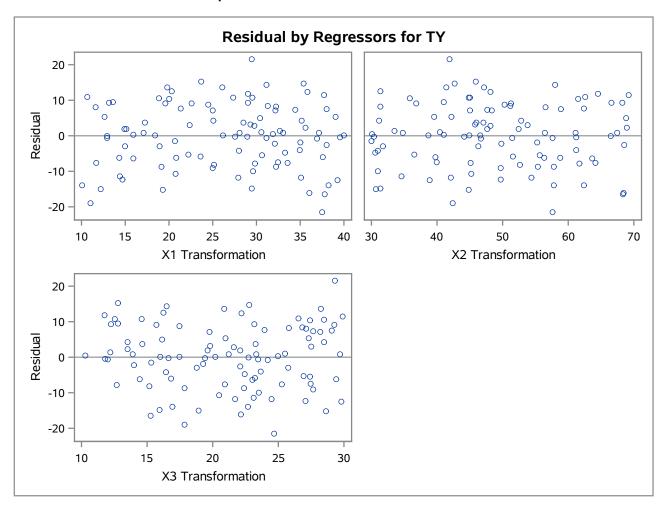
Root MSE	9.14437	R-Square	0.9596
Dependent Mean	247.15703	Adj R-Sq	0.9583
Coeff Var	3.69982		

Parameter Estimates							
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	
Intercept	Intercept	1	239.19831	5.84935	40.89	<.0001	
TX1	X1 Transformation	1	2.23916	0.10743	20.84	<.0001	
TX2	X2 Transformation	1	-3.02597	0.08121	-37.26	<.0001	
TX3	X3 Transformation	1	4.62033	0.16873	27.38	<.0001	

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Test of First and Second Moment Specification					
DF	Chi-Square	Pr > ChiSq			
9	8.19	0.5155			





## The GLMSELECT Procedure

Data Set	WORK.PROBLEM2
Dependent Variable	Y
Selection Method	Stepwise
Select Criterion	SBC
Stop Criterion	SBC
Effect Hierarchy Enforced	None

Number of Observations Read	2000
Number of Observations Used	2000

Class Level Information						
Class	Levels	Values				
<b>X26</b> 5		Erath Monroe Schleich Sutton TomGreen				
X33	5	ExtraLar ExtraSma Large Medium Small				
<b>X40</b> 5		Blue Green Orange Red Yellow				

Dimensions				
Number of Effects	41			
Number of Parameters	53			

## The GLMSELECT Procedure

Stepwise Selection Summary							
Step	Effect Entered	Effect Removed	Number Effects In	Number Parms In	SBC		
0	Intercept		1	1	15908.9724		
1	X39		2	2	11980.8580		
2	X16		3	3	11228.6993		
3	X33		4	7	10128.0700*		
* Optimal Value of Criterion							

Selection stopped at a local minimum of the SBC criterion.

Stop Details						
Candidate For	Effect	Candidate SBC		Compare SBC		
Entry	X18	10131.7061	>	10128.0700		
Removal	X33	11228.6993	>	10128.0700		

#### The GLMSELECT Procedure **Selected Model**

The selected model is the model at the last step (Step 3).

Effects: Intercept X16 X33 X39

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value		
Model	6	5366893	894482	5785.22		
Error	1993	308148	154.61498			
Corrected Total	1999	5675040				

Root MSE	12.43443	
Dependent Mean	95.68722	
R-Square	0.9457	
Adj R-Sq	0.9455	
AIC	12091	
AICC	12091	
SBC	10128	

Parameter Estimates						
Parameter		DF	Estimate	Standard Error	t Value	
Intercept		1	-22.542150	0.921147	-24.47	
X16		1	4.873465	0.121613	40.07	
X33	ExtraLar	1	22.202187	0.875088	25.37	
X33	ExtraSma	1	0.526099	0.866893	0.61	
X33	Large	1	21.875775	0.887294	24.65	
X33	Medium	1	22.667239	0.873461	25.95	
X33	Small	0	0			
X39		1	17.002792	0.095274	178.46	