The LOGISTIC Procedure

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The SAS System					
Model Info	rmation				
Data Set	WORK.CAT				
Response Variable	OUTCOME				
Number of Response Levels 2					
Model	binary logit				
Optimization Technique	Fisher's scoring				

Number of Observations Read	15153
Number of Observations Used	15153

Response Profile				
Ordered Value	OUTCOME	Total Frequency		
1	0	14751		
2	1	402		

Probability modeled is OUTCOME='0'.

Step 5. Effect Tot_mthly_incm is removed:

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

Model Fit Statistics					
Criterion	Intercept Only	Intercept and Covariates			
AIC	3713.359	3557.623			
SC	3720.985	3588.127			
-2 Log L	3711.359	3549.623			

The LOGISTIC Procedure

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The SAS System						
Testing Global Null Hypothesis: BETA=0						
Test Chi-Square DF Pr > C						
Likelihood Ratio	161.7361	3	<.0001			
Score	159.1847	3	<.0001			
Wald	151.0764	3	<.0001			

Residual Chi-Square Test						
Chi-Square DF Pr > ChiSq						
8.3415	9	0.5001				

Note: No effects for the model in Step 5 are removed.

Note: Model building terminates because the last effect entered is removed by the Wald statistic criterion.

	Summary of Stepwise Selection							
Step	Effec	et	DF	Number In	Score Chi-Square		Pr > ChiSq	Variable Label
	Entered	Removed						
1	Credit_score		1	1	99.3280		<.0001	Values of Credit_score Were Replaced by Ranks
2	Tot_mthly_debt_exp		1	2	52.4367		<.0001	Values of Tot_mthly_debt_exp Were Replaced by Ranks
3	First_home		1	3	6.3314		0.0119	
4	Tot_mthly_incm		1	4	1.8461		0.1742	Values of Tot_mthly_incm Were Replaced by Ranks
5		Tot_mthly_incm	1	3		1.8449	0.1744	Values of Tot_mthly_incm Were Replaced by Ranks

The LOGISTIC Procedure

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The SAS System								
	Analysis of Maximum Likelihood Estimates							
	Standard Wald							
Parameter	DF	Estimate	Error	Chi-Square	Pr > ChiSq			
Intercept	1	2.2473	0.1136	391.3753	<.0001			
First_home	1	0.2911	0.1160	6.2973	0.0121			
Credit_score	1	0.1940	0.0197	97.3968	<.0001			
Tot_mthly_debt_exp	1	0.1346	0.0184	53.6301	<.0001			

Odds Ratio Estimates					
Effect	Point 95% Wald Confidence Limits				
First_home	1.338	1.066	1.679		
Credit_score	1.214	1.168	1.262		
Tot_mthly_debt_exp	1.144	1.104	1.186		

Association of Predicted Probabilities and Observed Responses					
Percent Concordant	66.7	Somers' D	0.368		
Percent Discordant	30.0	Gamma	0.380		
Percent Tied	3.3	Tau-a	0.019		
Pairs	5929902	c	0.684		