The GLMSELECT Procedure

Data Set	WORK.CARS		
Dependent Variable	logmpg		
Selection Method	Stepwise		
Select Criterion Significance Le			
Stop Criterion	Significance Level		
Entry Significance Level (SLE)	0.05		
Stay Significance Level (SLS)	0.05		
Effect Hierarchy Enforced	None		

Number of Observations Read	392
Number of Observations Used	392

Class Level Information								
	Class Level Illio Illation							
Class Levels Values								
cylinders	5	3 4 5 6 8						
origin	3	123						
year	13	70 71 72 73 74 75 76 77 78 79 80 81 82						

Dimensions					
Number of Effects	11				
Number of Parameters	29				

The GLMSELECT Procedure

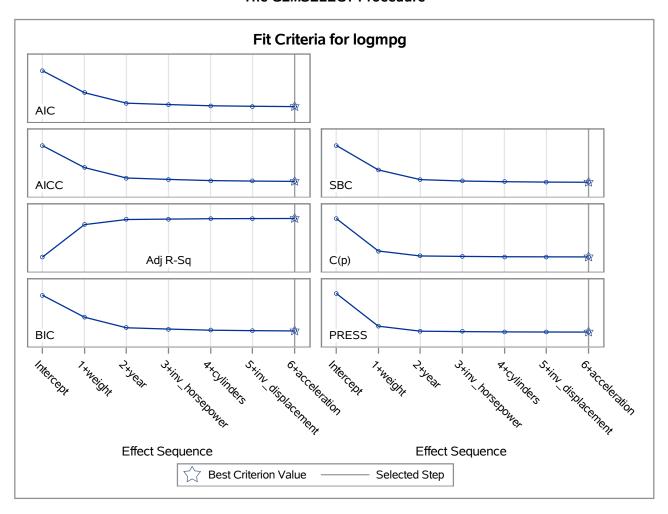
	Stepwise Selection Summary										
Step	Effect Entered	Effect Removed	Number Effects In	Number Parms In	Model R-Square	Adjusted R-Square	AIC	AICC	віс	СР	
0	Intercept		1	1	0.0000	0.0000	-450.6982	-450.6674	-846.1880	4085.6666	
1	weight		2	2	0.7668	0.7662	-1019.3566	-1019.2948	-1414.6344	655.8272	
2	year		3	14	0.8903	0.8865	-1290.9031	-1289.6265	-1688.6360	127.1277	
3	inv_horsepower		4	15	0.9004	0.8967	-1326.7932	-1325.3425	-1722.4474	83.8782	
4	cylinders		5	19	0.9099	0.9056	-1358.3497	-1356.0855	-1751.3958	49.0805	
5	inv_displacement		6	20	0.9134	0.9089	-1371.4885	-1368.9912	-1763.0566	35.8106	
6	acceleration		7	21	0.9156	0.9110*	-1379.7524*	-1377.0099*	-1770.1753*	27.7881*	
	* Optimal Value of Criterion										

	Stepwise Selection Summary									
Step	Effect Entered	Effect Removed	SBC	PRESS	ASE	F Value	Pr > F			
0	Intercept		-840.7269	45.4415	0.1153	0.00	1.0000			
1	weight		-1405.4141	10.6416	0.0269	1282.22	<.0001			
2	year		-1629.3054	5.3302	0.0127	35.45	<.0001			
3	inv_horsepower		-1661.2242	4.8847	0.0115	38.26	<.0001			
4	cylinders		-1676.8957	4.5746	0.0104	9.90	<.0001			
5	inv_displacement		-1686.0632	4.4429	0.0100	14.65	0.0002			
6	acceleration		-1690.3559*	4.3685*	0.0097	9.84	0.0018			
		* Optin	nal Value of Cr	iterion						

Selection stopped because the candidate for entry has SLE > 0.05 and the candidate for removal has SLS < 0.05.

Stop Details									
Candidate For Effect Candidate Significance Significance									
Entry	horsepower	0.0661	>	0.0500	(SLE)				
Removal	acceleration	0.0018	<	0.0500	(SLS)				

The GLMSELECT Procedure



The GLMSELECT Procedure Selected Model

The selected model is the model at the last step (Step 6).

Effects: Intercept cylinders weight acceleration year inv_horsepower inv_displacement

Analysis of Variance								
Source DF Sum of Square F Value								
Model	20	41.39382	2.06969	201.21				
Error	371	3.81614	0.01029					
Corrected Total	391	45.20996						

Root MSE	0.10142
Dependent Mean	3.09831
R-Square	0.9156
Adj R-Sq	0.9110
AIC	-1379.75243
AICC	-1377.00988
BIC	-1770.17527
C(p)	27.78810
PRESS	4.36848
SBC	-1690.35593
ASE	0.00974

Parameter Estimates								
Parameter		DF	Estimate	Standard Error	t Value			
Intercept		1	3.501914	0.094956	36.88			
cylinders	3	1	-0.288975	0.070431	-4.10			
cylinders	4	1	0.059715	0.033251	1.80			
cylinders	5	1	0.102949	0.063903	1.61			
cylinders	6	1	0.023162	0.023299	0.99			
cylinders	8	0	0					
weight		1	-0.000150	0.000021185	-7.08			
acceleratio	n	1	-0.009914	0.003160	-3.14			
year	70	1	-0.312099	0.028306	-11.03			
year	71	1	-0.271957	0.027696	-9.82			
year	72	1	-0.316994	0.027726	-11.43			
year	73	1	-0.342320	0.025897	-13.22			
year	74	1	-0.259298	0.028188	-9.20			
year	75	1	-0.249170	0.026992	-9.23			
year	76	1	-0.230452	0.026176	-8.80			
year	77	1	-0.164917	0.027338	-6.03			

The GLMSELECT Procedure Selected Model

Parameter Estimates								
Paramete	er	DF	Estimate	Standard Error	t Value			
year	78	1	-0.165733	0.025728	-6.44			
year	79	1	-0.070251	0.027185	-2.58			
year	80	1	0.026124	0.027345	0.96			
year	81	1	-0.047929	0.027065	-1.77			
year	82	0	0					
inv_horsepower		1	0.019177	0.004127	4.65			
inv_displacement		1	0.021706	0.005495	3.95			