Program Summary - Linear Regression

Execution Environment

Author: u64091879

File:

SAS Platform: Linux LIN X64 5.14.0-284.30.1.el9_2.x86_64
SAS Host: ODAWS01-USW2-2.ODA.SAS.COM

SAS Version: 9.04.01M7P08062020

SAS Locale: en_GB

Submission Time: 20/11/2024, 20:47:37 Browser Host: 128.172.245.74

User Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/131.0.0.0 Safari/537.36

Application Server: ODAMID00-USW2-2.ODA.SAS.COM

Code: Linear Regression

```
Task code generated by SAS Studio 3.8
* Generated on '20/11/2024 20:47'
* Generated by 'u64091879'
 * Generated on server 'ODAWS01-USW2-2.ODA.SAS.COM'
 * Generated on SAS platform 'Linux LIN X64 5.14.0-284.30.1.el9 2.x86 64'
 * Generated on SAS version '9.04.01M7P08062020'
 * Generated on browser 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)
 * Generated on web client 'https://odamid-usw2-2.oda.sas.com/SASStudio/main?locale=en_GB&zone=GMT-05%253A00&htt
 * /
ods noproctitle;
ods graphics / imagemap=on;
proc reg data=INFO664.IMPUTE alpha=0.05 plots(only)=(diagnostics residuals
        observedbypredicted);
    model 'RealOWorld CO2 (g/mi)'n='Transmission O Automatic'n
         'Transmission O Manual'n 'Weight (lbs)'n 'Engine Displacement'n
        'Horsepower (HP) 'n Cylinders 'RealOWorld MPG'n /;
    run:
quit:
```

Log: Linear Regression

```
Notes (6)
               OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
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                 * Task code generated by SAS Studio 3.8
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                 * Generated on '20/11/2024 20:47'
                * Generated by 'u64091879' 
* Generated on server 'ODAWS01-USW2-2.0DA.SAS.COM'
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                 * Generated on SAS platform 'Linux LIN X64 5.14.0-284.30.1.el9_2.x86_64'

* Generated on SAS version '9.04.01M7P08062020'

* Generated on browser 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)
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             ! Chrome/131.0.0.0 Safari/537.36
               * Generated on web client 'https://odamid-usw2-2.oda.sas.com/SASStudio/main?locale=en_GB&zone=GMT-05%253A00&https%3A%2F%2Fodamid-usw2-2.oda.s
 80
 80
             ! %2FSASStudio%2Findex='
 81
 82
 83
 84
               ods noproctitle;
 85
               ods graphics / imagemap=on;
 86
 87
               proc reg data=INF0664.IMPUTE alpha=0.05 plots(only)=(diagnostics residuals
 88
               observedbypredicted);
               model 'Real0World CO2 (g/mi)'n='Transmission 0 Automatic'n 'Transmission 0 Manual'n 'Weight (lbs)'n 'Engine Displacement'n 'Horsepower (HP)'n Cylinders 'Real0World MPG'n /;
 89
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 91
 NOTE: HTML data tips have been disabled for at least one plot because the threshold has been reached. You can set TIPMAX=4200
         the ODS GRAPHICS statement to produce data tips for all plots.
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```

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the ODS GRAPHICS statement to produce data tips for all plots.
93
                  quit;
NOTE: PROCEDURE REG used (Total process time):
                                          3.16 seconds
0.34 seconds
0.06 seconds
21353.65k
          real time user cpu time
          system cpu time
         memory
OS Memory
                                           42216.00k
          Timestamp
                                          21/11/2024 01:47:37 AM
         Step Count
Page Faults
Page Reclaims
Page Swaps
Voluntary Context Switches
Involuntary Context Switches
Block Input Operations
Block Output Operations
                                                                 24 Switch Count 66
                                                                  20217
                                                                  2185
                                                                  18
                                                                  15728
```

94 95

OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;

105

Results: Linear Regression

Model: MODEL1 Dependent Variable: Real0World CO2 (g/mi)

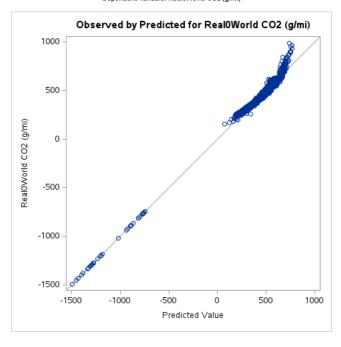
Number of Observations Read	4162
Number of Observations Used	4162

Analysis of Variance								
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F			
Model	7	132103877	18871982	45816.0	<.0001			
Error	4154	1711067	411.90833					
Corrected Total	4161	133814944						

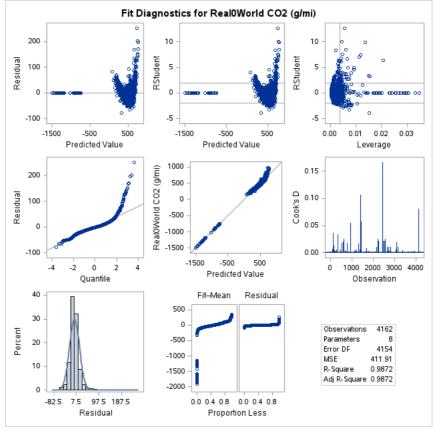
Root MSE	20.29552	R-Square	0.9872
Dependent Mean	413.72022	Adj R-Sq	0.9872
Coeff Var	4.90562		

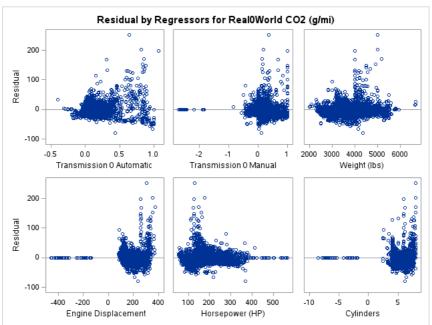
Parameter Estimates							
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t		
Intercept	1	581.12198	6.52794	89.02	<.0001		
Transmission 0 Automatic	1	81.09722	1.94597	41.67	<.0001		
Transmission 0 Manual	1	59.19794	2.26210	26.17	<.0001		
Weight (lbs)	1	0.02291	0.00109	21.02	<.0001		
Engine Displacement	1	0.40748	0.01787	22.80	<.0001		
Horsepower (HP)	1	-0.09421	0.01218	-7.73	<.0001		
Cylinders	1	-1.61981	0.91933	-1.76	0.0782		
Real0World MPG	1	-14.51743	0.11290	-128.59	<.0001		

Model: MODEL1
Dependent Variable: Real0World CO2 (g/mi)

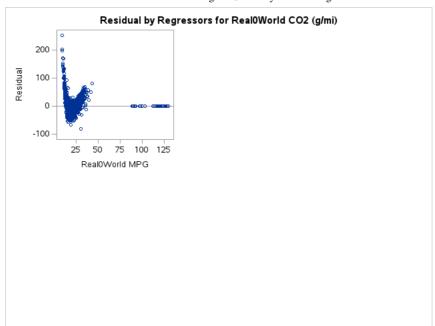


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