

The REG Procedure
Model: original
Dependent Variable: log2wages

Number of Observations Read	3997
Number of Observations Used	3997

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	675.98262	225.32754	629.73	<.0001
Error	3993	1428.75529	0.35781		
Corrected Total	3996	2104.73790			

Root MSE	0.59818	R-Square	0.3212
Dependent Mean	3.77985	Adj R-Sq	0.3207
Coeff Var	15.82539		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.97843	0.04848	40.81	<.0001
male	1	0.32388	0.01893	17.11	<.0001
tage	1	0.02619	0.00079225	33.06	<.0001
years	1	0.08061	0.00313	25.73	<.0001

The REG Procedure
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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	815.40412	163.08082	504.80	<.0001
Error	3991	1289.33378	0.32306		
Corrected Total	3996	2104.73790			

Root MSE	0.56838	R-Square	0.3874
Dependent Mean	3.77985	Adj R-Sq	0.3866
Coeff Var	15.03720		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.94204	0.14187	13.69	<.0001
male	1	0.32001	0.01799	17.79	<.0001
tage	1	0.21460	0.00931	23.05	<.0001
t2age	1	-0.04694	0.00231	-20.34	<.0001
yearsed	1	-0.09856	0.03789	-2.60	0.0093
ted	1	0.04699	0.01073	4.38	<.0001

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Dependent Variable: log2wages

Number of Observations Read	3997
Number of Observations Used	3989
Number of Observations with Missing Values	8

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	676.18254	225.39418	630.32	<.0001
Error	3985	1424.97531	0.35758		
Corrected Total	3988	2101.15785			

Root MSE	0.59798	R-Square	0.3218
Dependent Mean	3.78087	Adj R-Sq	0.3213
Coeff Var	15.81605		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.95674	0.04927	39.71	<.0001
male	1	0.32587	0.01894	17.20	<.0001
var1new	1	0.02622	0.00079277	33.08	<.0001
var2new	1	0.08205	0.00319	25.70	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	814.03080	162.80616	503.80	<.0001
Error	3983	1287.12705	0.32316		
Corrected Total	3988	2101.15785			

Root MSE	0.56847	R-Square	0.3874
Dependent Mean	3.78087	Adj R-Sq	0.3867
Coeff Var	15.03537		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	2.14879	0.18714	11.48	<.0001
male	1	0.31868	0.01803	17.67	<.0001
var1new	1	0.21529	0.00934	23.06	<.0001
var2new	1	-0.15504	0.05047	-3.07	0.0021
constrvar1new	1	-0.04714	0.00231	-20.36	<.0001
constrvar2new	1	0.06266	0.01417	4.42	<.0001

SLID data

Obs	b1	b2	d1	d2	newexp1	newexp2
1	0.026225	0.082050	-0.047136	0.062658	-0.79739	1.76365

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	639.92861	213.30954	581.73	<.0001
Error	3985	1461.22924	0.36668		
Corrected Total	3988	2101.15785			

Root MSE	0.60554	R-Square	0.3046
Dependent Mean	3.78087	Adj R-Sq	0.3040
Coeff Var	16.01598		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	3.42994	0.03123	109.82	<.0001
male	1	0.32239	0.01918	16.81	<.0001
var1new	1	-2.27198	0.07483	-30.36	<.0001
var2new	1	0.00492	0.00025415	19.34	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	798.65135	159.73027	488.45	<.0001
Error	3983	1302.50650	0.32702		
Corrected Total	3988	2101.15785			

Root MSE	0.57185	R-Square	0.3801
Dependent Mean	3.78087	Adj R-Sq	0.3793
Coeff Var	15.12493		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	4.00340	0.08804	45.47	<.0001
male	1	0.31775	0.01816	17.50	<.0001
var1new	1	-1.65319	0.07606	-21.73	<.0001
var2new	1	0.00644	0.00499	1.29	0.1974
constrvar1new	1	3.25780	0.15096	21.58	<.0001
constrvar2new	1	-0.00014513	0.00088438	-0.16	0.8697

SLID data

Obs	b1	b2	d1	d2	newexp1	newexp2
1	-2.27198	.004915637	3.25780	-.00014513	0.34599	1.71158

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	762.59404	254.19801	756.77	<.0001
Error	3985	1338.56381	0.33590		
Corrected Total	3988	2101.15785			

Root MSE	0.57957	R-Square	0.3629
Dependent Mean	3.78087	Adj R-Sq	0.3625
Coeff Var	15.32900		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	1.52738	0.04899	31.18	<.0001
male	1	0.32031	0.01836	17.45	<.0001
var1new	1	0.53461	0.01442	37.07	<.0001
var2new	1	0.00705	0.00028508	24.73	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	782.28871	156.45774	472.50	<.0001
Error	3983	1318.86914	0.33112		
Corrected Total	3988	2101.15785			

Root MSE	0.57543	R-Square	0.3723
Dependent Mean	3.78087	Adj R-Sq	0.3715
Coeff Var	15.21963		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.09445	0.23341	-0.40	0.6858
male	1	0.31834	0.01828	17.42	<.0001
var1new	1	1.92906	0.18140	10.63	<.0001
var2new	1	0.00096662	0.00589	0.16	0.8696
constrvar1new	1	-0.72611	0.09420	-7.71	<.0001
constrvar2new	1	0.00100	0.00107	0.94	0.3480

SLID data

Obs	b1	b2	d1	d2	newexp1	newexp2
1	0.53461	.00705108	-0.72611	.001003762	-0.12393	1.95523

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	770.19623	256.73208	768.68	<.0001
Error	3985	1330.96162	0.33399		
Corrected Total	3988	2101.15785			

Root MSE	0.57792	R-Square	0.3666
Dependent Mean	3.78087	Adj R-Sq	0.3661
Coeff Var	15.28541		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	6.52357	0.09535	68.42	<.0001
male	1	0.31871	0.01830	17.41	<.0001
var1new	1	-4.80963	0.12882	-37.34	<.0001
var2new	1	0.00296	0.00013125	22.58	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	778.23379	155.64676	468.61	<.0001
Error	3983	1322.92406	0.33214		
Corrected Total	3988	2101.15785			

Root MSE	0.57632	R-Square	0.3704
Dependent Mean	3.78087	Adj R-Sq	0.3696
Coeff Var	15.24301		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	13.54174	1.42994	9.47	<.0001
male	1	0.31967	0.01831	17.46	<.0001
var1new	1	-11.62237	1.39398	-8.34	<.0001
var2new	1	0.00529	0.00289	1.83	0.0668
constrvar1new	1	9.45520	1.92493	4.91	<.0001
constrvar2new	1	-0.00035331	0.00046711	-0.76	0.4495

SLID data

Obs	b1	b2	d1	d2	newexp1	newexp2
1	-4.80963	.002963321	9.45520	-.000353313	0.11970	1.72211

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	775.08232	258.36077	776.40	<.0001
Error	3985	1326.07554	0.33277		
Corrected Total	3988	2101.15785			

Root MSE	0.57686	R-Square	0.3689
Dependent Mean	3.78087	Adj R-Sq	0.3684
Coeff Var	15.25733		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-0.93278	0.10845	-8.60	<.0001
male	1	0.31984	0.01827	17.50	<.0001
var1new	1	2.81021	0.07447	37.74	<.0001
var2new	1	0.00653	0.00027436	23.81	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	776.25761	155.25152	466.73	<.0001
Error	3983	1324.90024	0.33264		
Corrected Total	3988	2101.15785			

Root MSE	0.57675	R-Square	0.3694
Dependent Mean	3.78087	Adj R-Sq	0.3687
Coeff Var	15.25439		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-4.03675	1.69147	-2.39	0.0171
male	1	0.31895	0.01832	17.41	<.0001
var1new	1	5.88162	1.65529	3.55	0.0004
var2new	1	0.00302	0.00572	0.53	0.5980
constrvar1new	1	-2.37092	1.27507	-1.86	0.0630
constrvar2new	1	0.00061302	0.00103	0.59	0.5533

Obs	b1	b2	d1	d2	newexp1	newexp2
1	2.81021	.006532608	-2.37092	.000613015	0.018712	1.88371

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	775.68753	258.56251	777.36	<.0001
Error	3985	1325.47033	0.33261		
Corrected Total	3988	2101.15785			

Root MSE	0.57673	R-Square	0.3692
Dependent Mean	3.78087	Adj R-Sq	0.3687
Coeff Var	15.25385		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-21.14641	0.64338	-32.87	<.0001
male	1	0.31899	0.01827	17.46	<.0001
var1new	1	22.98063	0.61003	37.67	<.0001
var2new	1	0.00383	0.00016403	23.32	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	775.97083	155.19417	466.45	<.0001
Error	3983	1325.18702	0.33271		
Corrected Total	3988	2101.15785			

Root MSE	0.57681	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3685
Coeff Var	15.25604		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	40.48951	66.93480	0.60	0.5453
male	1	0.31933	0.01832	17.43	<.0001
var1new	1	-38.62819	66.89981	-0.58	0.5637
var2new	1	0.00469	0.00356	1.32	0.1879
constrvar1new	1	58.97723	64.03396	0.92	0.3571
constrvar2new	1	-0.00013889	0.00059548	-0.23	0.8156

Obs	b1	b2	d1	d2	newexp1	newexp2
1	22.9806	.003825613	58.9772	-.000138889	0.066734	1.81532

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	775.84356	258.61452	777.61	<.0001
Error	3985	1325.31430	0.33258		
Corrected Total	3988	2101.15785			

Root MSE	0.57669	R-Square	0.3692
Dependent Mean	3.78087	Adj R-Sq	0.3688
Coeff Var	15.25295		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-3.88235	0.18576	-20.90	<.0001
male	1	0.31934	0.01827	17.48	<.0001
var1new	1	5.74159	0.15222	37.72	<.0001
var2new	1	0.00480	0.00020373	23.56	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	775.90013	155.18003	466.39	<.0001
Error	3983	1325.25772	0.33273		
Corrected Total	3988	2101.15785			

Root MSE	0.57683	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3685
Coeff Var	15.25645		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-6.06563	5.35141	-1.13	0.2571
male	1	0.31916	0.01832	17.42	<.0001
var1new	1	7.91566	5.31625	1.49	0.1366
var2new	1	0.00424	0.00435	0.97	0.3302
constrvar1new	1	-1.87139	4.57167	-0.41	0.6823
constrvar2new	1	0.00009342	0.00075141	0.12	0.9011

Obs	b1	b2	d1	d2	newexp1	newexp2
1	5.74159	.004799932	-1.87139	.000093425	0.044983	1.85065

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	775.87372	258.62457	777.66	<.0001
Error	3985	1325.28413	0.33257		
Corrected Total	3988	2101.15785			

Root MSE	0.57669	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3688
Coeff Var	15.25277		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-7.12786	0.27156	-26.25	<.0001
male	1	0.31916	0.01827	17.47	<.0001
var1new	1	8.97741	0.23813	37.70	<.0001
var2new	1	0.00427	0.00018212	23.45	<.0001

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Dependent Variable: log2wages

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Number of Observations Used	3989
Number of Observations with Missing Values	8

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	775.88611	155.17722	466.37	<.0001
Error	3983	1325.27174	0.33273		
Corrected Total	3988	2101.15785			

Root MSE	0.57683	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3685
Coeff Var	15.25653		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-4.88654	11.69226	-0.42	0.6760
male	1	0.31924	0.01832	17.42	<.0001
var1new	1	6.74090	11.65723	0.58	0.5631
var2new	1	0.00450	0.00392	1.15	0.2519
constrvar1new	1	2.01814	10.51331	0.19	0.8478
constrvar2new	1	-0.00003699	0.00066624	-0.06	0.9557

Obs	b1	b2	d1	d2	newexp1	newexp2
1	8.97741	.004271265	2.01814	-.000036989	0.055095	1.83462

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	775.88042	258.62681	777.67	<.0001
Error	3985	1325.27743	0.33257		
Corrected Total	3988	2101.15785			

Root MSE	0.57669	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3688
Coeff Var	15.25274		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-5.29905	0.22317	-23.74	<.0001
male	1	0.31924	0.01827	17.48	<.0001
var1new	1	7.15331	0.18969	37.71	<.0001
var2new	1	0.00450	0.00019161	23.50	<.0001

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Number of Observations with Missing Values	8

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	775.88303	155.17661	466.37	<.0001
Error	3983	1325.27482	0.33273		
Corrected Total	3988	2101.15785			

Root MSE	0.57683	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3685
Coeff Var	15.25655		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-5.98529	7.82105	-0.77	0.4442
male	1	0.31920	0.01832	17.42	<.0001
var1new	1	7.83748	7.78597	1.01	0.3142
var2new	1	0.00439	0.00411	1.07	0.2858
constrvar1new	1	-0.60387	6.86699	-0.09	0.9299
constrvar2new	1	0.00001861	0.00070359	0.03	0.9789

Obs	b1	b2	d1	d2	newexp1	newexp2
1	7.15331	.004503588	-0.60387	.000018605	0.050444	1.84220

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Number of Observations with Missing Values	8

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	775.88182	258.62727	777.67	<.0001
Error	3985	1325.27603	0.33257		
Corrected Total	3988	2101.15785			

Root MSE	0.57669	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3688
Coeff Var	15.25273		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-6.04882	0.24300	-24.89	<.0001
male	1	0.31920	0.01827	17.47	<.0001
var1new	1	7.90099	0.20954	37.71	<.0001
var2new	1	0.00439	0.00018706	23.48	<.0001

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Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	775.88238	155.17648	466.37	<.0001
Error	3983	1325.27547	0.33273		
Corrected Total	3988	2101.15785			

Root MSE	0.57683	R-Square	0.3693
Dependent Mean	3.78087	Adj R-Sq	0.3685
Coeff Var	15.25655		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-5.67000	9.31512	-0.61	0.5428
male	1	0.31922	0.01832	17.42	<.0001
var1new	1	7.52315	9.28007	0.81	0.4176
var2new	1	0.00444	0.00402	1.10	0.2695
constrvar1new	1	0.33688	8.26884	0.04	0.9675
constrvar2new	1	-0.00000830	0.00068567	-0.01	0.9903

Obs	b1	b2	d1	d2	newexp1	newexp2
1	7.90099	.004392287	0.33688	-.000008303	0.052595	1.83872

The REG Procedure
Model: MODEL1
Dependent Variable: wages

Number of Observations Read	3997
Number of Observations Used	3997

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	75828	25276	590.67	<.0001
Error	3993	170870	42.79233		
Corrected Total	3996	246698			

Root MSE	6.54158	R-Square	0.3074
Dependent Mean	15.54459	Adj R-Sq	0.3069
Coeff Var	42.08271		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	-4.20483	0.53016	-7.93	<.0001
male	1	3.47367	0.20701	16.78	<.0001
tage	1	0.26129	0.00866	30.16	<.0001
yearsed	1	0.92965	0.03426	27.14	<.0001

Obs	age	sex	wages	yearsed	male	log2wages	tage	logtage	t2age	ted	obs
1	40	Male	10.56	15	1	3.40054	25	3.21888	80.472	40.6208	1
2	19	Male	11.00	13	1	3.45943	4	1.38629	5.545	33.3443	2
3	46	Male	17.76	14	1	4.15056	31	3.43399	106.454	36.9468	3
4	50	Female	14.00	16	0	3.80735	35	3.55535	124.437	44.3614	4
5	31	Male	8.20	15	1	3.03562	16	2.77259	44.361	40.6208	5
6	30	Female	16.97	13	0	4.08491	15	2.70805	40.621	33.3443	6
7	61	Female	6.70	12	0	2.74416	46	3.82864	176.118	29.8189	7
8	46	Female	14.00	14	0	3.80735	31	3.43399	106.454	36.9468	8
9	43	Male	19.20	18	1	4.26303	28	3.33220	93.302	52.0267	9
10	17	Male	7.25	11	1	2.85798	2	0.69315	1.386	26.3768	10

Obs	pred	res	sigma2hat	u
1	19.7459	-9.1859	42.7496	1.97384
2	12.3994	-1.3994	42.7496	0.04581
3	20.3840	-2.6240	42.7496	0.16106
4	19.8148	-5.8148	42.7496	0.79093
5	17.3943	-9.1943	42.7496	1.97744
6	11.8000	5.1700	42.7496	0.62524
7	18.9704	-12.2704	42.7496	3.52200
8	16.9103	-2.9103	42.7496	0.19813
9	23.3187	-4.1187	42.7496	0.39682
10	10.0176	-2.7676	42.7496	0.17917

The REG Procedure
Model: MODEL1
Dependent Variable: u

Number of Observations Read	3997
Number of Observations Used	3997

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	567.65522	567.65522	143.36	<.0001
Error	3995	15819	3.95961		
Corrected Total	3996	16386			

Root MSE	1.98988	R-Square	0.0346
Dependent Mean	1.00000	Adj R-Sq	0.0344
Coeff Var	198.98804		

Parameter Estimates						
Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	-0.34495	0.11665	-2.96	0.0031
pred	Predicted Value of wages	1	0.08652	0.00723	11.97	<.0001