name: <unnamed>

log: /Users/aaronmarkiewitz/Documents/research/stata/econ_6

> 72/card_hw.smcl
log type: smcl

opened on: 6 Feb 2018, 10:39:27

1 . bcuse card

 ${\tt Contains\ data\ from\ http://fmwww.bc.edu/ec-p/data/wooldridge/card.dt}$

> a

obs: 3,010 vars: 34

26 Jan 2000 12:16

size: 40	0	9	,	3	6	0
----------	---	---	---	---	---	---

	storage	display	value	
variable name	type	format	label	variable label
id	float	%9.0g		
nearc2	float	%9.0g		
nearc4	float	%9.0g		
educ	float	%9.0g		
age	float	%9.0g		
fatheduc	float	%9.0g		
motheduc	float	%9.0g		
weight	float	%9.0g		
momdad14	float	%9.0g		
sinmom14	float	%9.0g		
step14	float	%9.0g		
reg661	float	%9.0g		
reg662	float	%9 . 0g		
reg663	float	%9.0g		
reg664	float	%9.0g		
reg665	float	%9 . 0g		
reg666	float	%9.0g		
reg667	float	%9.0g		
reg668	float	%9 . 0g		
reg669	float	%9.0g		
south66	float	%9 . 0g		
black	float	%9 . 0g		
smsa	float	%9 . 0g		
south	float	%9 . 0g		
smsa66	float	%9.0g		
wage	float	%9.0g		
enroll	float	%9.0g		
KWW	float	%9.0g		
IQ	float	%9.0g		
married	float	%9.0g		
libcrd14	float	%9.0g		



exper	float	%9.0g
lwage	float	%9.0g
expersq	float	%9.0g

Sorted by:

2.

3 . *a

4 . gen lnwage=ln(wage)

5 . gen exper_sq = exper^2

6 . reg lnwage educ exper exper_sq black south smsa reg661-reg668 sm > sa66

>	s		ource 3010	SS	df		MS		Number o	of ob
_									F(15,	2994
>)		85.48 Model 0.0000	177.695591	15	11.8	3463727		Prob > 1	F
		Res	idual	414.946054	2994	.138	592536		R-square	ed
>		=	0.2998						Adi Da	~ 11 2 ~ 0
>	d	1	0.2963 Total .37228	592.641645	3009	.196	956346		Adj R-so	_
										
>	_				1	_		1.1		
>			nwage erval]	Coef.	Std.	Err.	t	P> t	[95%	Conf
_	<u> </u>									
>	_		 '.							
			educ	.0746933	.0034	983	21.35	0.000	.067	8339
>			815527							
>			exper 978205	.084832	.0066	242	12.81	0.000	.071	8435
			er sq	002287	.0003	166	-7.22	0.000	002	9079
>		_	016662							
			black	1990123	.0182	483	-10.91	0.000	234	7927
>			632318	147955	0250	700	-5.69	0.000	100	0050
>			south 970148	14/955	.0259	199	-3.69	0.000	198	8932
			smsa	.1363845	.0201	005	6.79	0.000	.096	9724
>			757967							
			eg661	1185698	.0388	301	-3.05	0.002	19	4706
>			424335 eg662	0222026	.0282	575	-0.79	0.432	077	6088
			•							



>	.0332036					
	reg663	.0259703	.0273644	0.95	0.343	0276846
>	.0796251					
	reg664	0634942	.0356803	-1.78	0.075	1334546
>	.0064662					
	reg665	.0094551	.0361174	0.26	0.794	0613623
>	.0802725					
	reg666	.0219476	.0400984	0.55	0.584	0566755
>	.1005708					
	reg667	0005887	.0393793	-0.01	0.988	077802
>	.0766245					
	reg668	1750058	.0463394	-3.78	0.000	265866
>	0841456					
	smsa66	.0262417	.0194477	1.35	0.177	0118905
>	.0643739					
	_cons	4.739377	.0715282	66.26	0.000	4.599127
>	4.879626					

\ _____

7 . *b

8 . reg educ exper exper_sq black south smsa reg661-reg668 smsa66 ne > arc4

>	s =	Source 3010	ss	df		MS		Number	of ob
_) =	182.13						F(15,	2994
>	, –	Model	10287.6179	15	685.	841194		Prob >	F
>	= Re	0.0000 esidual	11274.4622	2994	3.76	568542		R-squa:	red
>	=	0.4771	<u> </u>					Adj R-	square
>	d =	0.4745 Total	21562.0801	3009	7.16	586243		Root M	SE
>	=	1.9405	,						_
>			I a e	a. 1	_		5 . 1. 1		
>	. I	educ nterval]	Coef.	Std.	Err.	t	P> t	[95	% Conf
>									
		exper	4125334	.0336	996	-12.24	0.000	47	86101
>		.3464566	0000606	0016	E O 4	0.53	0.599	0.0	22674
>		xper_sq .0041046	.0008686	.0016	304	0.53	0.599	00	23674
-		black	9355287	.0937	348	-9.98	0.000	-1.	11932
>	_	.7517377	•						



```
-.0516126 .1354284 -0.38
  south
                                           0.703
                                                    -.3171548
.2139296
            .4021825
                       .1048112
                                   3.84
                                           0.000
                                                     .1966732
   smsa
.6076918
 reg661
            -.210271
                       .2024568
                                  -1.04
                                           0.299
                                                    -.6072395
.1866975
           -.2889073
 reg662
                       .1473395
                                   -1.96
                                           0.050
                                                    -.5778042
-.0000105
 reg663
           -.2382099
                       .1426357
                                   -1.67
                                           0.095
                                                    -.5178838
.0414639
            -.093089
                       .1859827
                                   -0.50
                                           0.617
                                                    -.4577559
reg664
.2715779
                       .1881872
 reg665
           -.4828875
                                   -2.57
                                           0.010
                                                    -.8518767
-.1138982
reg666
           -.5130857
                       .2096352
                                   -2.45
                                           0.014
                                                    -.9241293
-.1020421
 reg667
           -.4270887
                       .2056208
                                           0.038
                                                    -.8302611
                                   -2.08
-.0239163
 reg668
            .3136204
                                           0.194
                                                    -.1602434
                       .2416739
                                   1.30
.7874841
smsa66
            .0254805
                       .1057692
                                    0.24
                                           0.810
                                                    -.1819071
.2328682
                       .0878638
                                           0.000
nearc4
            .3198989
                                    3.64
                                                     .1476194
.4921785
            16.84852
                       .2111222
                                   79.80
                                           0.000
                                                     16.43456
  cons
17.26248
```

```
9 . *c
```

.3873



	 	 	 			
>	'					
	lnwage	Coef.	Std. Err.	Z	P> z	[95% Conf
>	. Interval]					
>	educ	.1315038	.0548174	2.40	0.016	.0240637
>	.238944	.1315036	.05461/4	2.40	0.016	.0240637
	exper	.1082711	.0235956	4.59	0.000	.0620246
>	.1545176	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	exper sq	0023349	.0003326	-7.02	0.000	0029868
>	001683					
	black	1467757	.0537564	-2.73	0.006	2521364
>	0414151					
	south	1446715	.027212	-5.32	0.000	1980061
>	0913369					
	smsa	.1118083	.0315777	3.54	0.000	.0499171
>	.1736995	1070142	0417024	2 50	0 010	1005404
>	reg661 026079	1078142	.0417024	-2.59	0.010	1895494
	reg662	0070465	.0328197	-0.21	0.830	0713719
>	.057279	.0070103	.0020197	0.21	0.000	.0710713
	reg663	.0404445	.031696	1.28	0.202	0216784
>	.1025675					
	reg664	0579172	.0375058	-1.54	0.123	1314272
>	.0155929					
	reg665	.0384577	.0468138	0.82	0.411	0532956
>	.130211					
	reg666	.0550887	.0525196	1.05	0.294	0478478
>	.1580252 reg667	.026758	.0486988	0.55	0.583	0686898
>	.1222058	.026756	.0400900	0.55	0.565	0000090
	reg668	1908912	.0505764	-3.77	0.000	2900191
>	0917634					
	smsa66	.0185311	.0215511	0.86	0.390	0237082
>	.0607704					
	_cons	3.773965	.9324588	4.05	0.000	1.946379
>	5.601551					

Instrumented: educ

Instruments:

exper exper_sq black south smsa reg661 reg662 reg663 reg664 reg665 reg666 reg667 reg668 smsa66 nearc4



11 . *d

12 . reg educ nearc2

>	s	=	Source 3010	SS	df		MS		Number	of ob
_									F(1,	3008
>)	=	6.76 Model	48.3446646	1	48.3	446646		Prob >	F
>		= R e =	0.0094 esidual 0.0022	21513.7354	3008	7.15	217267		R-squa	red
_									Adj R-	square
>	d	=	0.0019 Total 2.6744	21562.0801	3009	7.16	586243		Root M	SE
>	<u> </u>	Ir	educ	Coef.	Std.	Err.	t	P> t	[9 5	% Conf
>			nearc2	.2552584	.0981		2.60	0.009		27509
> - >			_cons	13.15092	.0651	894	201.73	0.000		.0231

13 . reg educ nearc4

> s =	Source 3010	SS	df	MS	Number of ob
>) =	63.91				F(1, 3008
> =	Model	448.604204	1	448.604204	Prob > F
•	esidual	21113.4759	3008	7.01910767	R-squared
				 	Adj R-square
> d = > =	0.0205 Total 2.6494	21562.0801	3009	7.16586243	Root MSE

>		l				
>	educ . Interval]	Coef.	Std. Err.	t 	P> t	[95% Conf
>		l	1026000	7.00		6256012
>	nearc4 1.032347	.829019		7.99	0.000	.6256912
>	_cons 12.86594	12.69801	.0856416	148.27	0.000	12.53009
>						
	ivregress 2s	sls lnwage ex	per exper_sq	black	south sms	sa reg661-reg
>		er exper_sq	black south	smsa reg	661-reg66	8 smsa66 nea
	nstrumental v s	variables (2S	LS) regressi	on		Number of ob
>	= 3010					Wald chi2(15
>) = 709.89					Prob > chi2
>	= 0.0000					R-squared
>	= 0.1702					_
>	= .4042					Root MSE
>						
>	<pre>lnwage . Interval]</pre>	Coef.	Std. Err.	Z	P> z	[95% Conf
>						
>	educ .2598366	.1570594	.0524383	3.00	0.003	.0542822
	exper	.1188149	.0227454	5.22	0.000	.0742348
>	.163395 exper_sq	0023565	.0003466	-6.80	0.000	0030358
>	0016772 black	1232778	.0520112	-2.37	0.018	225218
>	0213376 south	1431945	.0283691	-5.05	0.000	1987968
>	0875921	1				

14



.0391406

smsa

.1623654

.100753 .0314355 3.21 0.001

>	5.088283					
	_cons	3.339687	.8921571	3.74	0.000	1.591091
>	.0587238					
	smsa66	.0150626	.0222765	0.68	0.499	0285986
>	0953444					
	reg668	1980371	.0523952	-3.78	0.000	3007297
>	.136308		-	-	-	
	reg667	.0390596	.0496175	0.79	0.431	0581889
>	.1741945				0.100	
	reg666	.0699968	.0531631	1.32	0.188	0342009
>	reg665 .1444872	.0515041	.04/4412	1.09	0.2/8	0414/89
>	.0211842	.0515041	.0474412	1.09	0.278	0414789
	reg664	0554084	.0390786	-1.42	0.156	132001
>	.1107763					
	reg663	.0469556	.0325621	1.44	0.149	016865
>	.0658306					
	reg662	0002286	.0337043	-0.01	0.995	0662879
>	0180962					
	reg661	102976	.0433068	-2.38	0.017	1878558

> -----

Instrumented: educ

Instruments: exper exper_sq black south smsa reg661 reg662 reg663 reg664 reg665 reg666 reg667

reg668 smsa66 nearc2 nearc4

15 . *e
16 . reg IQ nearc4

Source	SS	df	MS	Number of ob
				F(1, 2059
>) = 12.13				
Model	2869.62905	1	2869.62905	Prob > F
> = 0.0005				
Residual	487188.423	2059	236.614096	R-squared
> = 0.0059				
				Adj R-square
> d = 0.0054				3
Total	490058.052	2060	237.892258	Root MSE
l.	470030.032	2000	237.032230	ROOC HBL
> = 15.382				



> -	IQ Interval]	Coef.	Std. Err.	t	P> t	[95% Conf
> -						
	nearc4	2.5962	.7454966	3.48	0.001	1.134195
>	4.058206					
	_cons	100.6106	.6274557	160.35	0.000	99.38014
>	101.8412					

17 . *f

18 . reg IQ nearc4 smsa66 reg661 reg662 reg669

>	s	source = 2061	SS	df		MS		Number	of ob
_								F(5,	2055
>)	= 12.79	14702 5727	_	2050	E14E2		Desale >	
>		Model = 0.0000	14792.5727	5	2958	.51453		Prob >	F.
		Residual	475265.48	2055 231.27274		R-squared			
>		= 0.0302	175205.10	2033 231.2/2/4		K-5quu	ıcu		
_								Adj R-	square
>	d	= 0.0278						-	-
		Total	490058.052	2060	060 237.892258		Root MSE		
>		= 15.208							
_									
		ıo	Coef.	Std.	Err.	t	P> t	r 9 5	% Conf
>		Interval]	00011	5541		J	-	[] 0	
_									
>	_	 '.							
		nearc4	.8680808	.8216	913	1.06	0.291	74	33537
>		2.479515							
		smsa66	1.354527	.8027	961	1.69	0.092	21	98514
>		2.928906							
		reg661	4.768099	1.546	809	3.08	0.002	1.7	34623
>		7.801576	5 00010	0017			0 000	4 0	20672
		reg662 7.576566	5.80812	.9017	539	6.44	0.000	4.0	39673
>		reg669	1.844655	1.151	703	1.60	0.109	_ 11	39709
>		4.103281	1.044055	1.151	703	1.60	0.109	41	33103
		cons	99.38472	.7016	631	141.64	0.000	98.	00868
>		100.7608	JJ. 3 0 1 1 L	.,010	.,010031 141.04 0.000		,,,,		
_									
>	_								



19 . log close

name: <unnamed>

log: /Users/aaronmarkiewitz/Documents/research/stata/econ_6

> 72/card_hw.smcl
log type: smcl

closed on: 6 Feb 2018, 10:39:27

