

```

-----
log:
C:\Documenti\TOMMASO\lezioni\bocconi\econometria\esercitazione_emp_4\Lezione
> _info_4.log
log type: text
opened on: 15 Dec 2008, 10:26:08

.
.
. /* 2. Un primo sguardo ai dati e stima OLS dei rendimenti dell'istruzione in
presenza
> di endogeneità */
.
. use card, clear

```

```

. des

Contains data from card.dta
obs:          3,010
vars:         34          9 Dec 2008 14:04
size:        144,480 (98.6% of memory free)

```

```

-----
-

```

variable name	storage type	display format	value label	variable label
id	int	%9.0g		person identifier
nearc2	byte	%9.0g		=1 if near 2 yr college, 1966
nearc4	byte	%9.0g		=1 if near 4 yr college, 1966
educ	byte	%9.0g		years of schooling, 1976
age	byte	%9.0g		in years
fatheduc	byte	%9.0g		father's schooling
motheduc	byte	%9.0g		mother's schooling
weight	float	%9.0g		NLS sampling weight, 1976
momdad14	byte	%9.0g		=1 if live with mom, dad at 14
sinmom14	byte	%9.0g		=1 if with single mom at 14
step14	byte	%9.0g		=1 if with step parent at 14
reg661	byte	%9.0g		=1 for region 1, 1966
reg662	byte	%9.0g		=1 for region 2, 1966
reg663	byte	%9.0g		=1 for region 3, 1966
reg664	byte	%9.0g		=1 for region 4, 1966
reg665	byte	%9.0g		=1 for region 5, 1966
reg666	byte	%9.0g		=1 for region 6, 1966
reg667	byte	%9.0g		=1 for region 7, 1966
reg668	byte	%9.0g		=1 for region 8, 1966
reg669	byte	%9.0g		=1 for region 9, 1966
south66	byte	%9.0g		=1 if in south in 1966
black	byte	%9.0g		=1 if black
smsa	byte	%9.0g		=1 in in SMSA, 1976
south	byte	%9.0g		=1 if in south, 1976
smsa66	byte	%9.0g		=1 if in SMSA, 1966
wage	int	%9.0g		hourly wage in cents, 1976
enroll	byte	%9.0g		=1 if enrolled in school, 1976
KWW	byte	%9.0g		knowledge world of work score
IQ	int	%9.0g		IQ score
married	byte	%9.0g		=1 if married, 1976
libcrd14	byte	%9.0g		=1 if lib. card in home at 14
exper	byte	%9.0g		age - educ - 6
lwage	float	%9.0g		log(wage)
expersq	int	%9.0g		exper^2

```

-----
-
Sorted by:

```

```

. sum

```

Variable	Obs	Mean	Std. Dev.	Min	Max
id	3010	2581.749	1500.539	2	5225

nearc2	3010	.4408638	.4965731	0	1
nearc4	3010	.6820598	.4657535	0	1
educ	3010	13.26346	2.676913	1	18
age	3010	28.1196	3.137004	24	34
-----					
fatheduc	2320	10.00345	3.720737	0	18
motheduc	2657	10.34814	3.179671	0	18
weight	3010	321185.3	170645.8	75607	1752340
momdad14	3010	.7893688	.4078247	0	1
sinmom14	3010	.1006645	.3009339	0	1
-----					
step14	3010	.0388704	.1933182	0	1
reg661	3010	.0465116	.2106253	0	1
reg662	3010	.1607973	.367405	0	1
reg663	3010	.1956811	.39679	0	1
reg664	3010	.0641196	.2450066	0	1
-----					
reg665	3010	.2083056	.406164	0	1
reg666	3010	.0960133	.2946584	0	1
reg667	3010	.1099668	.3129003	0	1
reg668	3010	.0282392	.165683	0	1
reg669	3010	.0903654	.2867522	0	1
-----					
south66	3010	.4142857	.4926801	0	1
black	3010	.2335548	.4231624	0	1
smsa	3010	.7129568	.4524571	0	1
south	3010	.4036545	.4907113	0	1
smsa66	3010	.6495017	.4772053	0	1
-----					
wage	3010	577.2824	262.9583	100	2404
enroll	3010	.0923588	.2895799	0	1
KWW	2963	33.54067	8.611619	4	56
IQ	2061	102.4498	15.42376	50	149
married	3003	2.271395	2.066823	1	6
-----					
libcrd14	2997	.674341	.4686987	0	1
exper	3010	8.856146	4.141672	0	23
lwage	3010	6.261832	.4437976	4.60517	7.784889
expersq	3010	95.57907	84.61831	0	529

. reg lwage educ exper expersq black smsa south reg661-reg668

Source	SS	df	MS	Number of obs = 3010	
Model	177.443249	14	12.6745178	F( 14, 2995) =	91.43
Residual	415.198395	2995	.138630516	Prob > F =	0.0000
-----				R-squared =	0.2994
-----				Adj R-squared =	0.2961
Total	592.641645	3009	.196956346	Root MSE =	.37233

lwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	.0748085	.0034978	21.39	0.000	.0679502	.0816668
exper	.0848884	.006625	12.81	0.000	.0718984	.0978784
expersq	-.0022812	.0003166	-7.20	0.000	-.0029021	-.0016604
black	-.199895	.0182391	-10.96	0.000	-.2356574	-.1641326
smsa	.1530055	.0158862	9.63	0.000	.1218565	.1841544
south	-.1449271	.0258863	-5.60	0.000	-.1956838	-.0941703
reg661	-.1196782	.0388267	-3.08	0.002	-.1958078	-.0435485
reg662	-.0226807	.0282592	-0.80	0.422	-.0780901	.0327287
reg663	.0249193	.027357	0.91	0.362	-.0287212	.0785597
reg664	-.0696294	.0353943	-1.97	0.049	-.1390289	-.0002299
reg665	.0023894	.0357407	0.07	0.947	-.0676893	.0724682
reg666	.0112651	.0393145	0.29	0.774	-.0658209	.0883512
reg667	-.0065039	.0391399	-0.17	0.868	-.0832477	.0702399
reg668	-.1760208	.0463396	-3.80	0.000	-.2668815	-.0851601
_cons	4.744876	.0714218	66.43	0.000	4.604835	4.884917

. reg lwage educ exper expersq black smsa south reg661-reg668,robust

Linear regression

Number of obs = 3010  
 F( 14, 2995) = 97.71  
 Prob > F = 0.0000  
 R-squared = 0.2994  
 Root MSE = .37233

lwage	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
educ	.0748085	.0036469	20.51	0.000	.0676579	.0819591
exper	.0848884	.0067528	12.57	0.000	.0716479	.098129
expersq	-.0022812	.0003195	-7.14	0.000	-.0029076	-.0016549
black	-.199895	.0181608	-11.01	0.000	-.2355039	-.1642861
smsa	.1530055	.0152713	10.02	0.000	.1230621	.1829488
south	-.1449271	.027837	-5.21	0.000	-.1995086	-.0903455
reg661	-.1196782	.0387619	-3.09	0.002	-.1956808	-.0436755
reg662	-.0226807	.0299024	-0.76	0.448	-.0813119	.0359506
reg663	.0249193	.028429	0.88	0.381	-.030823	.0806616
reg664	-.0696294	.0365776	-1.90	0.057	-.1413491	.0020903
reg665	.0023894	.0382367	0.06	0.950	-.0725834	.0773623
reg666	.0112651	.0403494	0.28	0.780	-.0678502	.0903804
reg667	-.0065039	.0411359	-0.16	0.874	-.0871614	.0741535
reg668	-.1760208	.0469981	-3.75	0.000	-.2681727	-.0838689
_cons	4.744876	.0745911	63.61	0.000	4.598621	4.891131

.  
 .  
 . /\* 3. Usare i test IQ/KWW per controllare per l'abilità non osservata \*/  
 .  
 . reg lwage educ exper expersq black smsa south reg661-reg668 IQ

Source	SS	df	MS	Number of obs =	2061
Model	84.8712766	15	5.65808511	F( 15, 2045) =	42.11
Residual	274.749983	2045	.13435207	Prob > F =	0.0000
				R-squared =	0.2360
				Adj R-squared =	0.2304
Total	359.62126	2060	.174573427	Root MSE =	.36654

lwage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	.0698899	.0048613	14.38	0.000	.0603562	.0794235
exper	.0943435	.0095017	9.93	0.000	.0757094	.1129775
expersq	-.0026931	.0004901	-5.50	0.000	-.0036542	-.0017321
black	-.1464741	.0265229	-5.52	0.000	-.1984888	-.0944594
smsa	.1450325	.0192299	7.54	0.000	.1073202	.1827448
south	-.0999171	.0318179	-3.14	0.002	-.1623159	-.0375183
reg661	-.1233729	.0441751	-2.79	0.005	-.2100058	-.0367401
reg662	-.0200627	.0317789	-0.63	0.528	-.0823852	.0422597
reg663	.0021024	.0309489	0.07	0.946	-.0585922	.062797
reg664	-.0823199	.0396372	-2.08	0.038	-.1600535	-.0045864
reg665	-.0034308	.042643	-0.08	0.936	-.087059	.0801974
reg666	.0276218	.0505745	0.55	0.585	-.0715611	.1268048
reg667	-.0365934	.0473832	-0.77	0.440	-.1295177	.056331
reg668	-.1709237	.0516894	-3.31	0.001	-.2722931	-.0695544
IQ	.0024997	.0006766	3.69	0.000	.0011728	.0038265
_cons	4.509589	.1058512	42.60	0.000	4.302001	4.717176

. corr educ IQ  
 (obs=2061)

	educ	IQ
educ	1.0000	
IQ	0.5103	1.0000

. reg educ IQ

Source	SS	df	MS			
Model	2774.09596	1	2774.09596	Number of obs =	2061	
Residual	7879.48288	2059	3.82684938	F( 1, 2059) =	724.90	
				Prob > F =	0.0000	
				R-squared =	0.2604	
				Adj R-squared =	0.2600	
Total	10653.5788	2060	5.17164022	Root MSE =	1.9562	

  

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
IQ	.075238	.0027945	26.92	0.000	.0697577	.0807182
_cons	6.214256	.2895159	21.46	0.000	5.646481	6.78203

. ivregress 2sls lwage educ exper expersq black smsa south reg661-reg668 (IQ=KWW)

Instrumental variables (2SLS) regression

Number of obs = 2040  
Wald chi2(15) = 570.54  
Prob > chi2 = 0.0000  
R-squared = 0.1373  
Root MSE = .38794

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
IQ	.0135233	.0026949	5.02	0.000	.0082414	.0188053
educ	.0416377	.0085007	4.90	0.000	.0249766	.0582988
exper	.1036692	.010326	10.04	0.000	.0834306	.1239079
expersq	-.0029621	.0005236	-5.66	0.000	-.0039884	-.0019358
black	.0124777	.0469659	0.27	0.790	-.0795737	.1045292
smsa	.1275404	.0208317	6.12	0.000	.0867111	.1683698
south	-.1008459	.0338025	-2.98	0.003	-.1670977	-.0345942
reg661	-.1610316	.0480263	-3.35	0.001	-.2551614	-.0669017
reg662	-.0543146	.0350294	-1.55	0.121	-.1229709	.0143418
reg663	-.0196881	.0336434	-0.59	0.558	-.085628	.0462518
reg664	-.108312	.0428255	-2.53	0.011	-.1922485	-.0243755
reg665	.006201	.0453076	0.14	0.891	-.0826003	.0950023
reg666	.042319	.0538681	0.79	0.432	-.0632606	.1478986
reg667	-.0171336	.0504061	-0.34	0.734	-.1159278	.0816605
reg668	-.1480997	.0549194	-2.70	0.007	-.2557397	-.0404597
_cons	3.717398	.215949	17.21	0.000	3.294146	4.14065

Instrumented: IQ  
Instruments: educ exper expersq black smsa south reg661 reg662 reg663  
reg664 reg665 reg666 reg667 reg668 KWW

. reg IQ KWW educ exper expersq black smsa south reg661-reg668

Source	SS	df	MS			
Model	216206.941	15	14413.796	Number of obs =	2040	
Residual	269395.02	2024	133.100306	F( 15, 2024) =	108.29	
				Prob > F =	0.0000	
				R-squared =	0.4452	
				Adj R-squared =	0.4411	
Total	485601.96	2039	238.15692	Root MSE =	11.537	

  

IQ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
KWW	.5392749	.0432196	12.48	0.000	.4545155	.6240344
educ	1.481811	.1689768	8.77	0.000	1.150424	1.813198
exper	-1.736104	.3072207	-5.65	0.000	-2.338606	-1.133603
expersq	.04454	.0155166	2.87	0.004	.0141099	.0749702
black	-11.35339	.820367	-13.84	0.000	-12.96224	-9.744539
smsa	.8689006	.6096389	1.43	0.154	-.3266847	2.064486
south	-.1079391	1.005186	-0.11	0.914	-2.079246	1.863368
reg661	2.373755	1.399579	1.70	0.090	-.3710103	5.118521

reg662	2.979055	1.002418	2.97	0.003	1.013176	4.944933
reg663	1.927618	.9799799	1.97	0.049	.0057431	3.849492
reg664	2.441654	1.254259	1.95	0.052	-.0181188	4.901428
reg665	-.4697596	1.347798	-0.35	0.727	-3.112977	2.173457
reg666	-1.053535	1.602777	-0.66	0.511	-4.1968	2.089729
reg667	-1.100317	1.496159	-0.74	0.462	-4.03449	1.833855
reg668	-2.085107	1.629118	-1.28	0.201	-5.28003	1.109816
_cons	73.55572	2.99119	24.59	0.000	67.68959	79.42186

. ivregress 2sls lwage educ exper expersq black smsa south reg661-reg668 (IQ=KWW),first

First-stage regressions

Number of obs = 2040  
F( 15, 2024) = 108.29  
Prob > F = 0.0000  
R-squared = 0.4452  
Adj R-squared = 0.4411  
Root MSE = 11.5369

IQ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	1.481811	.1689768	8.77	0.000	1.150424	1.813198
exper	-1.736104	.3072207	-5.65	0.000	-2.338606	-1.133603
expersq	.04454	.0155166	2.87	0.004	.0141099	.0749702
black	-11.35339	.820367	-13.84	0.000	-12.96224	-9.744539
smsa	.8689006	.6096389	1.43	0.154	-.3266847	2.064486
south	-.1079391	1.005186	-0.11	0.914	-2.079246	1.863368
reg661	2.373755	1.399579	1.70	0.090	-.3710103	5.118521
reg662	2.979055	1.002418	2.97	0.003	1.013176	4.944933
reg663	1.927618	.9799799	1.97	0.049	.0057431	3.849492
reg664	2.441654	1.254259	1.95	0.052	-.0181188	4.901428
reg665	-.4697596	1.347798	-0.35	0.727	-3.112977	2.173457
reg666	-1.053535	1.602777	-0.66	0.511	-4.1968	2.089729
reg667	-1.100317	1.496159	-0.74	0.462	-4.03449	1.833855
reg668	-2.085107	1.629118	-1.28	0.201	-5.28003	1.109816
KWW	.5392749	.0432196	12.48	0.000	.4545155	.6240344
_cons	73.55572	2.99119	24.59	0.000	67.68959	79.42186

Instrumental variables (2SLS) regression

Number of obs = 2040  
Wald chi2(15) = 570.54  
Prob > chi2 = 0.0000  
R-squared = 0.1373  
Root MSE = .38794

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
IQ	.0135233	.0026949	5.02	0.000	.0082414	.0188053
educ	.0416377	.0085007	4.90	0.000	.0249766	.0582988
exper	.1036692	.010326	10.04	0.000	.0834306	.1239079
expersq	-.0029621	.0005236	-5.66	0.000	-.0039884	-.0019358
black	.0124777	.0469659	0.27	0.790	-.0795737	.1045292
smsa	.1275404	.0208317	6.12	0.000	.0867111	.1683698
south	-.1008459	.0338025	-2.98	0.003	-.1670977	-.0345942
reg661	-.1610316	.0480263	-3.35	0.001	-.2551614	-.0669017
reg662	-.0543146	.0350294	-1.55	0.121	-.1229709	.0143418
reg663	-.0196881	.0336434	-0.59	0.558	-.085628	.0462518
reg664	-.108312	.0428255	-2.53	0.011	-.1922485	-.0243755
reg665	.006201	.0453076	0.14	0.891	-.0826003	.0950023
reg666	.042319	.0538681	0.79	0.432	-.0632606	.1478986
reg667	-.0171336	.0504061	-0.34	0.734	-.1159278	.0816605
reg668	-.1480997	.0549194	-2.70	0.007	-.2557397	-.0404597
_cons	3.717398	.215949	17.21	0.000	3.294146	4.14065

```
-----
Instrumented: IQ
Instruments: educ exper expersq black smsa south reg661 reg662 reg663
              reg664 reg665 reg666 reg667 reg668 KWW
```

```
. estat firststage
```

```
Instrumental variables (2SLS) regression
```

Source	SS	df	MS	Number of obs =	2040
Model	216206.941	15	14413.796	F( 15, 2024) =	108.29
Residual	269395.02	2024	133.100306	Prob > F =	0.0000
				R-squared =	0.4452
				Adj R-squared =	0.4411
Total	485601.96	2039	238.15692	Root MSE =	11.537

IQ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	1.481811	.1689768	8.77	0.000	1.150424	1.813198
exper	-1.736104	.3072207	-5.65	0.000	-2.338606	-1.133603
expersq	.04454	.0155166	2.87	0.004	.0141099	.0749702
black	-11.35339	.820367	-13.84	0.000	-12.96224	-9.744539
smsa	.8689006	.6096389	1.43	0.154	-.3266847	2.064486
south	-.1079391	1.005186	-0.11	0.914	-2.079246	1.863368
reg661	2.373755	1.399579	1.70	0.090	-.3710103	5.118521
reg662	2.979055	1.002418	2.97	0.003	1.013176	4.944933
reg663	1.927618	.9799799	1.97	0.049	.0057431	3.849492
reg664	2.441654	1.254259	1.95	0.052	-.0181188	4.901428
reg665	-.4697596	1.347798	-0.35	0.727	-3.112977	2.173457
reg666	-1.053535	1.602777	-0.66	0.511	-4.1968	2.089729
reg667	-1.100317	1.496159	-0.74	0.462	-4.03449	1.833855
reg668	-2.085107	1.629118	-1.28	0.201	-5.28003	1.109816
KWW	.5392749	.0432196	12.48	0.000	.4545155	.6240344
_cons	73.55572	2.99119	24.59	0.000	67.68959	79.42186

```
(no endogenous regressors)
```

```
( 1) KWW = 0
```

```
F( 1, 2024) = 155.69
Prob > F = 0.0000
```

```
First-stage regression summary statistics
```

Variable	R-sq.	Adjusted R-sq.	Partial R-sq.	F(1,2024)	Prob > F
IQ	0.4452	0.4411	0.0714	155.69	0.0000

```
Minimum eigenvalue statistic = 155.69
```

```
Critical Values # of endogenous regressors: 1
Ho: Instruments are weak # of excluded instruments: 1
```

	5%	10%	20%	30%
2SLS relative bias	(not available)			
2SLS Size of nominal 5% Wald test	16.38	8.96	6.66	5.53
LIML Size of nominal 5% Wald test	16.38	8.96	6.66	5.53

```
. capture estat overid
```

```
. /* 4. Usare la distanza dall'università come strumento per l'istruzione */
```

```
. table nearc4,c(m educ)
```

```
-----
=1 if |
near 4 yr |
college, | mean(educ)
1966 |
-----+-----
      0 |    12.69801
      1 |    13.52703
-----
```

```
. table nearc2,c(m educ)
```

```
-----
=1 if |
near 2 yr |
college, | mean(educ)
1966 |
-----+-----
      0 |    13.15092
      1 |    13.40618
-----
```

```
. table nearc4,c(m wage)
```

```
-----
=1 if |
near 4 yr |
college, | mean(wage)
1966 |
-----+-----
      0 |    516.4567
      1 |    605.6362
-----
```

```
. table nearc2,c(m wage)
```

```
-----
=1 if |
near 2 yr |
college, | mean(wage)
1966 |
-----+-----
      0 |    550.2733
      1 |    611.5373
-----
```

```
. ivregress 2sls lwage exper expersq black smsa south reg661-reg668 (educ=nearc4),first
```

```
First-stage regressions
```

```
-----
Number of obs =      3010
F( 14, 2995) =    195.20
Prob > F =      0.0000
R-squared =      0.4771
Adj R-squared =    0.4747
Root MSE =      1.9402
-----
```

```
-----
educ |      Coef.   Std. Err.      t    P>|t|     [95% Conf. Interval]
-----+-----
exper |   -.4125245   .0336943   -12.24  0.000   -.4785909   -.3464582
expersq |  .0008743   .0016499     0.53  0.596   -.0023608   .0041095
black |  -.9367145   .0935907   -10.01  0.000   -1.120223   -.7532059
-----
```

smsa	.4164757	.0863879	4.82	0.000	.24709	.5858614
south	-.0488006	.1349033	-0.36	0.718	-.3133131	.2157118
reg661	-.2116759	.202341	-1.05	0.296	-.6084173	.1850654
reg662	-.2897803	.1472718	-1.97	0.049	-.5785443	-.0010162
reg663	-.2388597	.1425878	-1.68	0.094	-.5184395	.0407202
reg664	-.0984752	.184605	-0.53	0.594	-.4604405	.2634902
reg665	-.4887188	.1865946	-2.62	0.009	-.8545853	-.1228523
reg666	-.5213427	.2067818	-2.52	0.012	-.9267914	-.1158939
reg667	-.4313861	.2048134	-2.11	0.035	-.8329752	-.0297969
reg668	.3133879	.241634	1.30	0.195	-.1603975	.7871732
nearc4	.3259587	.0841731	3.87	0.000	.1609158	.4910015
_cons	16.85243	.2104656	80.07	0.000	16.43976	17.2651

Instrumental variables (2SLS) regression

Number of obs = 3010  
Wald chi2(14) = 736.22  
Prob > chi2 = 0.0000  
R-squared = 0.2051  
Root MSE = .3956

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
educ	.1450241	.0526518	2.75	0.006	.0418284 .2482197
exper	.113855	.0227814	5.00	0.000	.0692043 .1585057
expersq	-.0023426	.0003395	-6.90	0.000	-.0030081 -.0016771
black	-.1349735	.0522845	-2.58	0.010	-.2374493 -.0324977
smsa	.1165724	.0320554	3.64	0.000	.0537451 .1793998
south	-.1419667	.0275931	-5.15	0.000	-.1960481 -.0878852
reg661	-.1059741	.0425076	-2.49	0.013	-.1892875 -.0226607
reg662	-.0037634	.0331924	-0.11	0.910	-.0688193 .0612925
reg663	.0432015	.0321228	1.34	0.179	-.0197581 .1061611
reg664	-.0605029	.0382208	-1.58	0.113	-.1354143 .0144085
reg665	.0408244	.0476293	0.86	0.391	-.0525273 .134176
reg666	.0561324	.053583	1.05	0.295	-.0488884 .1611532
reg667	.0294651	.0495302	0.59	0.552	-.0676123 .1265426
reg668	-.1952974	.0513034	-3.81	0.000	-.2958503 -.0947445
_cons	3.548957	.8977478	3.95	0.000	1.789403 5.30851

Instrumented: educ

Instruments: exper expersq black smsa south reg661 reg662 reg663 reg664  
reg665 reg666 reg667 reg668 nearc4

. estat firststage

Instrumental variables (2SLS) regression

Source	SS	df	MS	Number of obs = 3010
Model	10287.3994	14	734.81424	F( 14, 2995) = 195.20
Residual	11274.6807	2995	3.76450107	Prob > F = 0.0000
Total	21562.0801	3009	7.16586243	R-squared = 0.4771
				Adj R-squared = 0.4747
				Root MSE = 1.9402

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
exper	-.4125245	.0336943	-12.24	0.000	-.4785909 -.3464582
expersq	.0008743	.0016499	0.53	0.596	-.0023608 .0041095
black	-.9367145	.0935907	-10.01	0.000	-1.120223 -.7532059
smsa	.4164757	.0863879	4.82	0.000	.24709 .5858614
south	-.0488006	.1349033	-0.36	0.718	-.3133131 .2157118
reg661	-.2116759	.202341	-1.05	0.296	-.6084173 .1850654
reg662	-.2897803	.1472718	-1.97	0.049	-.5785443 -.0010162
reg663	-.2388597	.1425878	-1.68	0.094	-.5184395 .0407202
reg664	-.0984752	.184605	-0.53	0.594	-.4604405 .2634902
reg665	-.4887188	.1865946	-2.62	0.009	-.8545853 -.1228523
reg666	-.5213427	.2067818	-2.52	0.012	-.9267914 -.1158939

reg667	-.4313861	.2048134	-2.11	0.035	-.8329752	-.0297969
reg668	.3133879	.241634	1.30	0.195	-.1603975	.7871732
nearc4	.3259587	.0841731	3.87	0.000	.1609158	.4910015
_cons	16.85243	.2104656	80.07	0.000	16.43976	17.2651

(no endogenous regressors)

( 1) nearc4 = 0

F( 1, 2995) = 15.00  
 Prob > F = 0.0001

First-stage regression summary statistics

Variable	R-sq.	Adjusted R-sq.	Partial R-sq.	F(1,2995)	Prob > F
educ	0.4771	0.4747	0.0050	14.9961	0.0001

Minimum eigenvalue statistic = 14.9961

Critical Values # of endogenous regressors: 1  
 Ho: Instruments are weak # of excluded instruments: 1

	5%	10%	20%	30%
2SLS relative bias	(not available)			
2SLS Size of nominal 5% Wald test	16.38	8.96	6.66	5.53
LIML Size of nominal 5% Wald test	16.38	8.96	6.66	5.53

. ivregress 2sls lwage exper expersq black smsa south reg661-reg668 (educ=nearc2),first

First-stage regressions

Number of obs = 3010  
 F( 14, 2995) = 193.58  
 Prob > F = 0.0000  
 R-squared = 0.4750  
 Adj R-squared = 0.4726  
 Root MSE = 1.9441

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
exper	-.4122819	.0337615	-12.21	0.000	-.47848 - .3460838
expersq	.0008447	.0016533	0.51	0.609	-.002397 .0040865
black	-.9340767	.0938794	-9.95	0.000	-1.118151 -.750002
smsa	.5005579	.0830629	6.03	0.000	.3376918 .663424
south	-.0347358	.1352264	-0.26	0.797	-.2998818 .2304102
reg661	-.1485539	.2044304	-0.73	0.467	-.549392 .2522842
reg662	-.2470892	.1480177	-1.67	0.095	-.5373158 .0431374
reg663	-.2067733	.1459919	-1.42	0.157	-.4930278 .0794812
reg664	-.0629668	.1886945	-0.33	0.739	-.4329508 .3070172
reg665	-.4899278	.1892012	-2.59	0.010	-.8609053 -.1189503
reg666	-.6159944	.2053623	-3.00	0.003	-1.01866 - .213329
reg667	-.4519167	.2070254	-2.18	0.029	-.857843 -.0459904
reg668	.3502897	.245725	1.43	0.154	-.1315172 .8320966
nearc2	.134544	.0766545	1.76	0.079	-.0157569 .2848448
_cons	16.94207	.2119949	79.92	0.000	16.5264 17.35774

Instrumental variables (2SLS) regression

Number of obs = 3010  
 Wald chi2(14) = 367.90

Prob > chi2 = 0.0000  
R-squared = .  
Root MSE = .55912

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
educ	.2902169	.1638565	1.77	0.077	-.0309359	.6113697
exper	.1737524	.0682907	2.54	0.011	.0399051	.3075996
expersq	-.0024694	.0004965	-4.97	0.000	-.0034426	-.0014962
black	-.0007278	.1538813	-0.00	0.996	-.3023297	.3008741
smsa	.0412356	.0882622	0.47	0.640	-.1317551	.2142264
south	-.1358451	.0394813	-3.44	0.001	-.213227	-.0584632
reg661	-.0776366	.0664918	-1.17	0.243	-.207958	.0526849
reg662	.035354	.0612182	0.58	0.564	-.0846314	.1553395
reg663	.0810057	.0592115	1.37	0.171	-.0350467	.1970581
reg664	-.0416309	.0572549	-0.73	0.467	-.1538484	.0705866
reg665	.1203007	.1044847	1.15	0.250	-.0844855	.3250869
reg666	.1489096	.1201537	1.24	0.215	-.0865873	.3844064
reg667	.1038425	.1024349	1.01	0.311	-.0969262	.3046112
reg668	-.2351579	.0828484	-2.84	0.005	-.3975377	-.0727781
_cons	1.076016	2.791449	0.39	0.700	-4.395123	6.547155

Instrumented: educ  
Instruments: exper expersq black smsa south reg661 reg662 reg663 reg664  
reg665 reg666 reg667 reg668 nearc2

. estat firststage

Instrumental variables (2SLS) regression

Source	SS	df	MS	Number of obs = 3010	
Model	10242.5899	14	731.613568	F( 14, 2995) =	193.58
Residual	11319.4901	2995	3.77946248	Prob > F =	0.0000
Total	21562.0801	3009	7.16586243	R-squared =	0.4750
				Adj R-squared =	0.4726
				Root MSE =	1.9441

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
exper	-.4122819	.0337615	-12.21	0.000	-.47848	-.3460838
expersq	.0008447	.0016533	0.51	0.609	-.002397	.0040865
black	-.9340767	.0938794	-9.95	0.000	-1.118151	-.750002
smsa	.5005579	.0830629	6.03	0.000	.3376918	.663424
south	-.0347358	.1352264	-0.26	0.797	-.2998818	.2304102
reg661	-.1485539	.2044304	-0.73	0.467	-.549392	.2522842
reg662	-.2470892	.1480177	-1.67	0.095	-.5373158	.0431374
reg663	-.2067733	.1459919	-1.42	0.157	-.4930278	.0794812
reg664	-.0629668	.1886945	-0.33	0.739	-.4329508	.3070172
reg665	-.4899278	.1892012	-2.59	0.010	-.8609053	-.1189503
reg666	-.6159944	.2053623	-3.00	0.003	-1.01866	-.213329
reg667	-.4519167	.2070254	-2.18	0.029	-.857843	-.0459904
reg668	.3502897	.245725	1.43	0.154	-.1315172	.8320966
nearc2	.134544	.0766545	1.76	0.079	-.0157569	.2848448
_cons	16.94207	.2119949	79.92	0.000	16.5264	17.35774

(no endogenous regressors)

( 1) nearc2 = 0

F( 1, 2995) = 3.08  
Prob > F = 0.0793

First-stage regression summary statistics

Variable	R-sq.	Adjusted R-sq.	Partial R-sq.	F(1,2995)	Prob > F
educ					



reg661	-.1014153	.0442295	-2.29	0.022	-.1881034	-.0147271
reg662	.0025296	.0342178	0.07	0.941	-.064536	.0695952
reg663	.0492832	.0331164	1.49	0.137	-.0156238	.1141902
reg664	-.0574669	.0398466	-1.44	0.149	-.1355648	.0206311
reg665	.0536101	.048416	1.11	0.268	-.0412835	.1485037
reg666	.0710579	.0543492	1.31	0.191	-.0354647	.1775804
reg667	.0414306	.0506196	0.82	0.413	-.057782	.1406432
reg668	-.20171	.0532987	-3.78	0.000	-.3061736	-.0972464
_cons	3.151123	.8666924	3.64	0.000	1.452437	4.849809

Instrumented: educ

Instruments: exper expersq black smsa south reg661 reg662 reg663 reg664  
reg665 reg666 reg667 reg668 nearc4 nearc2

. estat firststage

Instrumental variables (2SLS) regression

Source	SS	df	MS	Number of obs =	3010
Model	10297.1164	15	686.474426	F( 15, 2994) =	182.45
Residual	11264.9637	2994	3.76251292	Prob > F =	0.0000
Total	21562.0801	3009	7.16586243	R-squared =	0.4776
				Adj R-squared =	0.4749
				Root MSE =	1.9397

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
exper	-.4122915	.0336857	-12.24	0.000	-.478341 - .346242
expersq	.0008479	.0016496	0.51	0.607	-.0023865 .0040824
black	-.9451771	.0937141	-10.09	0.000	-1.128928 -.7614267
smsa	.4014136	.0868722	4.62	0.000	.2310784 .5717489
south	-.0419024	.1349359	-0.31	0.756	-.306479 .2226741
reg661	-.1687842	.2040407	-0.83	0.408	-.5688583 .2312899
reg662	-.2690322	.1477978	-1.82	0.069	-.5588278 .0207634
reg663	-.1902101	.1457291	-1.31	0.192	-.4759494 .0955292
reg664	-.0377274	.1883876	-0.20	0.841	-.4071097 .3316549
reg665	-.437153	.1892848	-2.31	0.021	-.8082945 -.0660115
reg666	-.5022505	.2070683	-2.43	0.015	-.9082611 -.09624
reg667	-.3775412	.2074825	-1.82	0.069	-.7843639 .0292816
reg668	.3820083	.2453149	1.56	0.120	-.0989946 .8630112
nearc4	.3206001	.0842169	3.81	0.000	.1554713 .4857289
nearc2	.1230071	.0765425	1.61	0.108	-.0270741 .2730882
_cons	16.77307	.2161279	77.61	0.000	16.34929 17.19684

(no endogenous regressors)

- ( 1) nearc4 = 0
- ( 2) nearc2 = 0

F( 2, 2994) = 8.79  
Prob > F = 0.0002

First-stage regression summary statistics

Variable	R-sq.	Adjusted R-sq.	Partial R-sq.	F(2,2994)	Prob > F
educ	0.4776	0.4749	0.0058	8.79331	0.0002

Minimum eigenvalue statistic = 8.79331

Critical Values # of endogenous regressors: 1  
Ho: Instruments are weak # of excluded instruments: 2

2SLS relative bias | 5% 10% 20% 30%  
| (not available)

	10%	15%	20%	25%
2SLS Size of nominal 5% Wald test	19.93	11.59	8.75	7.25
LIML Size of nominal 5% Wald test	8.68	5.33	4.42	3.92

. estat overid

Tests of overidentifying restrictions:

Sargan (score) chi2(1) = 1.22725 (p = 0.2679)  
 Basmann chi2(1) = 1.22123 (p = 0.2691)

.

/\* 5. Test di sovraidentificazione in presenza di più strumenti (con storie diverse)  
 > \*/

\* con 2 misure di distanza:

. ivregress 2sls lwage exper expersq black smsa south reg661-reg668 (educ=nearc4 nearc2  
 m  
 > otheduc)

Instrumental variables (2SLS) regression

Number of obs =	2657
Wald chi2(14) =	731.59
Prob > chi2 =	0.0000
R-squared =	0.2793
Root MSE =	.37691

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
educ	.1053494	.0133209	7.91	0.000	.0792409 .1314579
exper	.0971806	.0088803	10.94	0.000	.0797755 .1145858
expersq	-.0022461	.0003498	-6.42	0.000	-.0029317 -.0015604
black	-.1729388	.0234333	-7.38	0.000	-.2188671 -.1270104
smsa	.1359925	.0183419	7.41	0.000	.100043 .1719419
south	-.1260178	.028535	-4.42	0.000	-.1819453 -.0700903
reg661	-.0923294	.0425224	-2.17	0.030	-.1756719 -.008987
reg662	.0006075	.030124	0.02	0.984	-.0584345 .0596495
reg663	.0446669	.0293764	1.52	0.128	-.0129097 .1022435
reg664	-.0574305	.0378392	-1.52	0.129	-.131594 .0167329
reg665	.0066763	.0390654	0.17	0.864	-.0698906 .0832432
reg666	.0158252	.0438071	0.36	0.718	-.0700351 .1016855
reg667	.003463	.0425394	0.08	0.935	-.0799126 .0868386
reg668	-.1680448	.049129	-3.42	0.001	-.2643359 -.0717537
_cons	4.209771	.2316056	18.18	0.000	3.755832 4.66371

Instrumented: educ  
 Instruments: exper expersq black smsa south reg661 reg662 reg663 reg664  
 reg665 reg666 reg667 reg668 nearc4 nearc2 motheduc

. estat firststage

Instrumental variables (2SLS) regression

Source	SS	df	MS	Number of obs =	2657
Model	9249.11223	16	578.069514	F( 16, 2640) =	162.91
Residual	9367.62243	2640	3.54834183	Prob > F =	0.0000
Total	18616.7347	2656	7.00931275	R-squared =	0.4968
				Adj R-squared =	0.4938
				Root MSE =	1.8837

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
exper	-.3801641	.0350173	-10.86	0.000	-.4488282 -.3115

```

expersq | .001184 .0017481 0.68 0.498 -.0022439 .0046118
black | -.5798078 .1035967 -5.60 0.000 -.7829468 -.3766689
smsa | .2783067 .0905591 3.07 0.002 .1007327 .4558808
south | -.0833514 .1425477 -0.58 0.559 -.3628678 .1961651
reg661 | -.2329213 .2143628 -1.09 0.277 -.6532574 .1874148
reg662 | -.3129518 .1498239 -2.09 0.037 -.606736 -.0191675
reg663 | -.2872556 .1487132 -1.93 0.054 -.5788617 .0043505
reg664 | -.0709016 .193396 -0.37 0.714 -.4501247 .3083216
reg665 | -.2849402 .1962296 -1.45 0.147 -.6697196 .0998393
reg666 | -.4114599 .2184479 -1.88 0.060 -.8398064 .0168866
reg667 | -.2249332 .2136483 -1.05 0.293 -.6438683 .1940019
reg668 | .2294939 .2489762 0.92 0.357 -.2587143 .7177022
nearc4 | .3099393 .0880413 3.52 0.000 .1373024 .4825762
nearc2 | .075961 .0795363 0.96 0.340 -.0799988 .2319207
motheduc | .186555 .0128949 14.47 0.000 .1612699 .2118402
_cons | 14.60342 .2698468 54.12 0.000 14.07429 15.13256

```

-----  
(no endogenous regressors)

```

( 1) nearc4 = 0
( 2) nearc2 = 0
( 3) motheduc = 0

```

```

F( 3, 2640) = 75.21
Prob > F = 0.0000

```

First-stage regression summary statistics

```

-----
Variable | Adjusted Partial
          | R-sq.   R-sq.   R-sq.   F(3,2640) Prob > F
-----+-----
educ | 0.4968  0.4938  0.0787  75.2056  0.0000
-----

```

Minimum eigenvalue statistic = 75.2056

```

Critical Values          # of endogenous regressors: 1
Ho: Instruments are weak # of excluded instruments: 3

```

```

-----
2SLS relative bias | 5% 10% 20% 30%
                   | 13.91 9.08 6.46 5.39
-----+-----
2SLS Size of nominal 5% Wald test | 10% 15% 20% 25%
LIML Size of nominal 5% Wald test | 22.30 12.83 9.54 7.80
LIML Size of nominal 5% Wald test | 6.46 4.36 3.69 3.32
-----

```

. estat overid

Tests of overidentifying restrictions:

```

Sargan (score) chi2(2) = 3.54156 (p = 0.1702)
Basman chi2(2) = 3.5236 (p = 0.1717)

```

```

. ivregress 2sls lwage exper expersq black smsa south reg661-reg668 motheduc
(educ=nearc4
> nearc2),first

```

First-stage regressions

```

-----
Number of obs = 2657
F( 16, 2640) = 162.91
Prob > F = 0.0000
R-squared = 0.4968
Adj R-squared = 0.4938
Root MSE = 1.8837

```

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
exper	-.3801641	.0350173	-10.86	0.000	-.4488282 - .3115
expersq	.001184	.0017481	0.68	0.498	-.0022439 .0046118
black	-.5798078	.1035967	-5.60	0.000	-.7829468 -.3766689
smsa	.2783067	.0905591	3.07	0.002	.1007327 .4558808
south	-.0833514	.1425477	-0.58	0.559	-.3628678 .1961651
reg661	-.2329213	.2143628	-1.09	0.277	-.6532574 .1874148
reg662	-.3129518	.1498239	-2.09	0.037	-.606736 -.0191675
reg663	-.2872556	.1487132	-1.93	0.054	-.5788617 .0043505
reg664	-.0709016	.193396	-0.37	0.714	-.4501247 .3083216
reg665	-.2849402	.1962296	-1.45	0.147	-.6697196 .0998393
reg666	-.4114599	.2184479	-1.88	0.060	-.8398064 .0168866
reg667	-.2249332	.2136483	-1.05	0.293	-.6438683 .1940019
reg668	.2294939	.2489762	0.92	0.357	-.2587143 .7177022
motheduc	.186555	.0128949	14.47	0.000	.1612699 .2118402
nearc4	.3099393	.0880413	3.52	0.000	.1373024 .4825762
nearc2	.075961	.0795363	0.96	0.340	-.0799988 .2319207
_cons	14.60342	.2698468	54.12	0.000	14.07429 15.13256

Instrumental variables (2SLS) regression

Number of obs = 2657  
Wald chi2(15) = 700.07  
Prob > chi2 = 0.0000  
R-squared = 0.2467  
Root MSE = .38534

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
educ	.1270653	.0552046	2.30	0.021	.0188662 .2352644
exper	.1053731	.0221307	4.76	0.000	.0619978 .1487484
expersq	-.0022713	.000363	-6.26	0.000	-.0029828 -.0015598
black	-.1613919	.0371909	-4.34	0.000	-.2342848 -.0884991
smsa	.1278264	.0275022	4.65	0.000	.073923 .1817298
south	-.1241392	.0295385	-4.20	0.000	-.1820336 -.0662447
reg661	-.0869427	.0454546	-1.91	0.056	-.1760322 .0021468
reg662	.0072179	.0348388	0.21	0.836	-.0610649 .0755007
reg663	.0520656	.0351321	1.48	0.138	-.0167921 .1209233
reg664	-.054263	.0394654	-1.37	0.169	-.1316138 .0230878
reg665	.0144992	.0443465	0.33	0.744	-.0724183 .1014167
reg666	.0275743	.0533265	0.52	0.605	-.0769438 .1320924
reg667	.0103582	.0466912	0.22	0.824	-.0811548 .1018712
reg668	-.1711957	.0508251	-3.37	0.001	-.270811 -.0715804
motheduc	-.0043348	.0106789	-0.41	0.685	-.025265 .0165955
_cons	3.891265	.8196055	4.75	0.000	2.284868 5.497663

Instrumented: educ

Instruments: exper expersq black smsa south reg661 reg662 reg663 reg664  
reg665 reg666 reg667 reg668 motheduc nearc4 nearc2

. \* con 1 misura di distanza:

. ivregress 2sls lwage exper expersq black smsa south reg661-reg668 (educ=nearc4  
motheduc  
> )

Instrumental variables (2SLS) regression

Number of obs = 2657  
Wald chi2(14) = 731.23  
Prob > chi2 = 0.0000  
R-squared = 0.2811  
Root MSE = .37645

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
-------	-------	-----------	---	------	----------------------

educ	.1037529	.0133319	7.78	0.000	.077623	.1298829
exper	.0965246	.0088765	10.87	0.000	.0791271	.1139222
expersq	-.002245	.0003494	-6.43	0.000	-.0029298	-.0015602
black	-.174384	.0234176	-7.45	0.000	-.2202817	-.1284862
smsa	.1367723	.0183245	7.46	0.000	.1008569	.1726877
south	-.1262125	.0285008	-4.43	0.000	-.1820731	-.070352
reg661	-.0925432	.0424715	-2.18	0.029	-.1757858	-.0093007
reg662	.0001072	.030089	0.00	0.997	-.0588661	.0590805
reg663	.0441621	.0293423	1.51	0.132	-.0133477	.1016719
reg664	-.0576356	.0377938	-1.53	0.127	-.1317102	.016439
reg665	.0060154	.03902	0.15	0.877	-.0704625	.0824932
reg666	.0148983	.0437572	0.34	0.733	-.0708642	.1006608
reg667	.0026906	.0424902	0.06	0.950	-.0805886	.0859699
reg668	-.1676439	.0490704	-3.42	0.001	-.2638201	-.0714677
_cons	4.237065	.2317806	18.28	0.000	3.782783	4.691346

Instrumented: educ

Instruments: exper expersq black smsa south reg661 reg662 reg663 reg664  
reg665 reg666 reg667 reg668 nearc4 motheduc

. estat firststage

Instrumental variables (2SLS) regression

Source	SS	df	MS	Number of obs =	2657
Model	9245.87573	15	616.391715	F( 15, 2641) =	173.72
Residual	9370.85894	2641	3.54822376	Prob > F =	0.0000
Total	18616.7347	2656	7.00931275	R-squared =	0.4966
				Adj R-squared =	0.4938
				Root MSE =	1.8837

educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
exper	-.3798578	.0350152	-10.85	0.000	-.4485179 - .3111978
expersq	.0011853	.0017481	0.68	0.498	-.0022425 .0046131
black	-.5738859	.1034093	-5.55	0.000	-.7766572 - .3711145
smsa	.2875537	.0900386	3.19	0.001	.1110005 .4641069
south	-.0895529	.1423973	-0.63	0.529	-.3687745 .1896687
reg661	-.2596836	.2125199	-1.22	0.222	-.6764058 .1570387
reg662	-.325821	.1492143	-2.18	0.029	-.6184097 -.0332323
reg663	-.3168762	.1454407	-2.18	0.029	-.6020653 -.031687
reg664	-.1092387	.1891811	-0.58	0.564	-.4801969 .2617195
reg665	-.3143063	.1938024	-1.62	0.105	-.6943262 .0657135
reg666	-.4184049	.2183232	-1.92	0.055	-.8465068 .009697
reg667	-.2543464	.2114134	-1.20	0.229	-.668899 .1602063
reg668	.1886904	.245279	0.77	0.442	-.2922681 .6696488
nearc4	.3147152	.0878977	3.58	0.000	.1423599 .4870705
motheduc	.187172	.0128785	14.53	0.000	.1619189 .212425
_cons	14.64173	.2668451	54.87	0.000	14.11848 15.16497

(no endogenous regressors)

- ( 1) nearc4 = 0
- ( 2) motheduc = 0

F( 2, 2641) = 112.36  
Prob > F = 0.0000

First-stage regression summary statistics

Variable	Adjusted R-sq.	Partial R-sq.	F(2,2641)	Prob > F
educ	0.4966	0.4938	112.356	0.0000

Minimum eigenvalue statistic = 112.356

Critical Values	# of endogenous regressors:	1		
Ho: Instruments are weak	# of excluded instruments:	2		
-----				
2SLS relative bias	5%	10%	20%	30%
	(not available)			
-----				
2SLS Size of nominal 5% Wald test	10%	15%	20%	25%
LIML Size of nominal 5% Wald test	8.68	5.33	4.42	3.92
-----				

. estat overid

Tests of overidentifying restrictions:

Sargan (score) chi2(1) = .003325 (p = 0.9540)  
 Basman chi2(1) = .003305 (p = 0.9542)

. ivregress 2sls lwage exper expersq black smsa south reg661-reg668 motheduc  
 (educ=nearc4  
 > ),first

First-stage regressions

						Number of obs	=	2657
						F( 15, 2641)	=	173.72
						Prob > F	=	0.0000
						R-squared	=	0.4966
						Adj R-squared	=	0.4938
						Root MSE	=	1.8837
-----								
educ	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]			
exper	-.3798578	.0350152	-10.85	0.000	-.4485179	-.3111978		
expersq	.0011853	.0017481	0.68	0.498	-.0022425	.0046131		
black	-.5738859	.1034093	-5.55	0.000	-.7766572	-.3711145		
smsa	.2875537	.0900386	3.19	0.001	.1110005	.4641069		
south	-.0895529	.1423973	-0.63	0.529	-.3687745	.1896687		
reg661	-.2596836	.2125199	-1.22	0.222	-.6764058	.1570387		
reg662	-.325821	.1492143	-2.18	0.029	-.6184097	-.0332323		
reg663	-.3168762	.1454407	-2.18	0.029	-.6020653	-.031687		
reg664	-.1092387	.1891811	-0.58	0.564	-.4801969	.2617195		
reg665	-.3143063	.1938024	-1.62	0.105	-.6943262	.0657135		
reg666	-.4184049	.2183232	-1.92	0.055	-.8465068	.009697		
reg667	-.2543464	.2114134	-1.20	0.229	-.668899	.1602063		
reg668	.1886904	.245279	0.77	0.442	-.2922681	.6696488		
motheduc	.187172	.0128785	14.53	0.000	.1619189	.212425		
nearc4	.3147152	.0878977	3.58	0.000	.1423599	.4870705		
_cons	14.64173	.2668451	54.87	0.000	14.11848	15.16497		
-----								

Instrumental variables (2SLS) regression

Number of obs = 2657  
 Wald chi2(15) = 734.42  
 Prob > chi2 = 0.0000  
 R-squared = 0.2842  
 Root MSE = .37563

lwage	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
educ	.1006275	.0556954	1.81	0.071	-.0085334	.2097884
exper	.0953451	.0222496	4.29	0.000	.0517368	.1389535
expersq	-.0022414	.0003542	-6.33	0.000	-.0029357	-.0015471
black	-.1760506	.0371172	-4.74	0.000	-.248799	-.1033021

smsa	.137949	.0273669	5.04	0.000	.0843108	.1915872
south	-.1264834	.0288225	-4.39	0.000	-.1829743	-.0699924
reg661	-.0933171	.0444444	-2.10	0.036	-.1804265	-.0062076
reg662	-.0008443	.034242	-0.02	0.980	-.0679574	.0662688
reg663	.0430976	.0345914	1.25	0.213	-.0247003	.1108954
reg664	-.0580913	.0385272	-1.51	0.132	-.1336032	.0174207
reg665	.0048888	.043543	0.11	0.911	-.0804539	.0902315
reg666	.0132068	.0525651	0.25	0.802	-.0898188	.1162325
reg667	.0016962	.0457571	0.04	0.970	-.0879862	.0913785
reg668	-.1671891	.0495923	-3.37	0.001	-.2643882	-.0699899
motheduc	.0006213	.010752	0.06	0.954	-.0204522	.0216949
_cons	4.282936	.8267733	5.18	0.000	2.66249	5.903382

---

```
Instrumented: educ
Instruments: exper expersq black smsa south reg661 reg662 reg663 reg664
              reg665 reg666 reg667 reg668 motheduc nearc4
```

```
.
.
. /* 6. Operazioni di chiusura */
.
. save card_new.dta,replace
file card_new.dta saved

.
. log close
log:
C:\Documenti\TOMMASO\lezioni\bocconi\econometria\esercitazione_emp_4\Lezione
> _info_4.log
log type: text
closed on: 15 Dec 2008, 10:26:14
```

---