MP - Parallel Edition

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Single-user 8-core Stata perpetual license:

Serial number: 10699393 Licensed to: ibm

Notes:

 Unicode is supported; see <u>help unicode advice</u>.
 More than 2 billion observations are allowed; see 3. Maximum number of variables is set to 5000; see

help obs_advice . help set maxvar .

1 . doedit "D:\THU\Sophomore\Econometrics\PS4\ps4-7.do"

2 . do "D:\THU\Sophomore\Econometrics\PS4\ps4-7.do"

3 . cd "D:\THU\Sophomore\Econometrics\PS4"

D:\THU\Sophomore\Econometrics\PS4

4 . clear

6 . log using "2022011545-7.log", replace

name: <unnamed>

D:\THU\Sophomore\Econometrics\PS4\2022011545-7.log log:

log type: text

opened on: 21 May 2024, 21:59:21

8 . use card, clear

10 . **(a)

11 . gen exper2 = exper \star exper

12 . reg lwage educ exper exper2 smsa motheduc, robust

Linear regression

Number of obs 2,657 F(5, 2651) 167.71 Prob > F 0.0000 R-squared 0.2354 Root MSE .38866

| lwage | Coef. | Robust Std. Err. | t | P> t | [95% Conf. Ir | nterval] |
|-------------------------------------|----------------------------------|----------------------------------|-------------------------|-------------------------|---------------------------------|----------------------------------|
| educ exper | .0813949 .0879387 0022682 | .0041776 .0074636 | 19.48 11.78 -6.15 | 0.000 0.000 0.000 | .0732033 .0733035 0029911 | .0895866 .1025739 |
| exper2 smsa motheduc _cons | .1724038 .0143374 4.352978 | .0167888 .0027643 .0724876 | 10.27 5.19 60.05 | 0.000 0.000 0.000 | .1394833 .0089169 4.21084 | .2053243 .0197578 4.495116 |

13 . 14 . **(b) 15 . reg educ nearc4, robust

Linear regression

| Number of obs | = | 3,010 |
|---------------|----|--------|
| F(1, 3008) | = | 60.37 |
| Prob > F | =. | 0.0000 |
| R-squared | = | 0.0208 |
| Root MSE | = | 2.6494 |

| educ | Coef. | Robust Std. Err. | t | P> t | [95% Conf. Interval] | |
|--------|----------|---------------------|--------|-------|----------------------|----------|
| nearc4 | .829019 | .1066941 | 7.77 | 0.000 | .6198182 | 1.03822 |
| _cons | 12.69801 | .0902199 | 140.75 | | 12.52112 | 12.87491 |

| 16 . 17 . **(c) 18 . ivreg lwage (educ = nearc4) exper exper2 smsa motheduc, robust | | | |
|---|---|---|--------|
| Instrumental variables (2SLS) regression Number of obs | = | | 2,657 |
| F(5, 2651) | | = | 73.80 |
| Prob > F | | = | 0.0000 |
| R-squared | | = | 0.0895 |
| Root MSE | | = | .42413 |

| lwage | Coef. | Robust Std. Err. | t | P> t | [95% Conf. Interval] | |
|----------|----------|---------------------|-------|-------|----------------------|----------|
| educ | .1703064 | .0511423 | 3.33 | 0.001 | .0700234 | .2705893 |
| exper | .1212062 | .0210194 | 5.77 | 0.000 | .0799902 | .1624222 |
| exper2 | 0023351 | .0004198 | -5.56 | 0.000 | 0031582 | 001512 |
| smsa | .1355772 | .0281664 | 4.81 | 0.000 | .0803469 | .1908075 |
| motheduc | 0050222 | .0114884 | -0.44 | 0.662 | 0275495 | .017505 |
| _cons | 3.10564 | .7194474 | 4.32 | 0.000 | 1.694905 | 4.516375 |

Instrumented: educ
Instruments: exper exper2 smsa motheduc nearc4

19 .

20 . log close

name: <unnamed>
log: D:\THU\Sophomore\Econometrics\PS4\2022011545-7.log
log type: text

closed on: 21 May 2024, 21:59:22

end of do-file

22 .