Decellie: 20:27 Stoly avov BEC193

1. $y = \beta_0 + \beta_1 \cdot S + \beta_2 \cdot EDUC + \beta_3 \cdot [S \cdot EDUC]$ So tivstly I awote it must be some function y(EDUC), that's why I decided to choose 9 and EDUC. Since ing goal is to estimate us this regression to different genders. I added duminist Stocker (it II be a part of intercept Po, it S=1% (there we only 2 genders, I hope also sax can influence earnings in SEPUC (product of S and EDUC), to reach my goal # Some (I should've Hart

As I use dumines to a 2 new coets

With dunny, it's available to provide

Chow Test we can do it like thes:

Take two regressions (for sex=1 and sex=0)

serarentely estimate to count ESS for them,

Then count enrestrict pooled regression

and find F-Stat-irred

F(k, n-2k) = PSSp-[FSS,+FSSz]/k) then

(RSS,+FSSz)/(n-2k)

compare it with F=crit if there F=Fer,1, then

any I conclude there is no significant difference.

7 - , n-k = 100 - 3 elit Cost 21,91 Cout int: € 3,14-0,301,98 = F= € 3,1+0,3-1,9d 2,506 5 Pg 5 3,694 Xz, cont. int: interpret. 0,4-0,1.1,985,5250,4+0,1.1,92 0,202 (P2 (0,59 d). as o is not in interval, then the estimator coef is significant the level of see. 1 model : Seco thas to places minoris.

Indercepta: Seco than logg=005

3,1 Log X.: It X. incurrices. 3,1 Log X1: it X, increases by 1% then y increases by 3,1% O,4 X2 if tog X2 increases by a (additional way) to 9 increases by 40%. intercept: it proal other tactors are 0, 13's Model Z: then they g = -8,5 are 0, to but D=1, then will when all factors are 0, to but D=1, then the sit we all twence when all factors ove axie if PD=0, then increasing in X, by 1 causes increasing in X, by 1 causes 2X1+2,1XiD: 17 D-1, then increasing in X1 by 1 causes in evensing on 9 by 4,1
3,1x2 - it x2 increases by 1, then 9 increases

3. 11:300 GPAI= Po + BICLASS + Ei 1) In case of endogenuite problem 1) In case of equal inclusiblent best of estimators become inclusiblent best and the estimate bias, so the period with have bias, so the period with attendency of is too related with attendency of classes (it's have to get to year classes when you live tou from university, so T distance 'Lattendancy => & talent (as reæserchen thinks). So distance to his distance has marker elation with talent put bruse I won't be correlated with distern - Dance term, that's what we is seather fer! Ih Hus case, it can be used A like instrumental variable for talent. G-Q test: F(47,47 = RSS2 = 250 = 1,25 ne don't reject rull-hap and there is exp signif. Forit 47,97 = 1,6" (2,50 1,75<1,8 C= 0 878 ub, c Ulute Lest: > we don't rains 11 R2 = 1000 2000 ~ /2 1/4-1= 2 1/2 ex it = 3 por that The

ways to fight heterockadosticity:

get 10 1) make logarythmic models

2) divide our equation by Gu::

5: \$\frac{1}{5} \tau \frac{1}{5} \tau \f