

**Econometrics Final Exam Solutions**  
 Universidad Carlos III de Madrid  
 May 20th, 2015

Answer all questions in two hours and a half.

**QUESTION 1 (33 marks):** A researcher is considering two regression specifications to estimate the relationship between a variable  $X$  and a variable  $Y$ ,

$$\log Y = \beta_0 + \beta_1 \log X + U \quad (1)$$

$$\log \frac{Y}{X} = \alpha_0 + \alpha_1 \log X + V, \quad (2)$$

where the Greek letters refer to parameters and  $X$  and  $Y$  are two random variables for which we have a random sample of size  $n$ .

- a. (8 marks) Determine whether (2) can be expressed as a restricted version of (1). (2) can be rewritten as

$$\log Y = \alpha_1 + (\alpha_2 + 1) \log X + V$$

so this is a reparametrized version of (1) with  $\beta_1 = \alpha_1$  and  $\beta_2 = \alpha_2 + 1$ , but NOT a restricted version since it does not impose any restriction on the values of  $\beta_1$  or  $\beta_2$ .

- b. (7 marks) Using the same  $n$  observations of the variables  $Y$  and  $X$ , the researcher fits the two specifications using ordinary least squares (OLS). The fits are

$$\widehat{\log Y} = \hat{\beta}_1 + \hat{\beta}_2 \log X \quad (3)$$

$$\widehat{\log \frac{Y}{X}} = \hat{\alpha}_0 + \hat{\alpha}_1 \log X, \quad (4)$$

where the Greek letters with hats are the estimated values by OLS. Using the expressions for the estimates, write  $\hat{\beta}_2$  in terms of  $\hat{\alpha}_1$ .

Write

$$y = \log Y,$$

$$x = \log X,$$

$$z = \log \frac{Y}{X} = y - x,$$

so that

$$\begin{aligned} \hat{\alpha}_1 &= \frac{\sum (x_i - \bar{x})(z_i - \bar{z})}{\sum (x_i - \bar{x})^2} = \frac{\sum (x_i - \bar{x})(y_i - x_i - (y - x))}{\sum (x_i - \bar{x})^2} \\ &= \frac{\sum (x_i - \bar{x})(y_i - y)}{\sum (x_i - \bar{x})^2} = \hat{\beta}_2 - 1. \end{aligned}$$

# Econometrics Exam Questions And Solutions

**Terry C. Jones**



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