

## Econometric estimation

### Params

### Pooled estimator

### Random effects estimator

### Fixed effects estimator

```
phptest(exports_ree, exports_fee)
```

### Hausman test

```
##  
## Hausman Test  
##  
## data: formula_exports  
## chisq = 792.72, df = 4, p-value < 2.2e-16  
## alternative hypothesis: one model is inconsistent
```

```
phptest(imports_ree, imports_fee)
```

```
##  
## Hausman Test  
##  
## data: formula_imports  
## chisq = 3.3932, df = 4, p-value = 0.4943  
## alternative hypothesis: one model is inconsistent
```

## **Poisson pseudo maximum likelihood**

Alternative approach: [https://cran.r-project.org/web/packages/fixest/vignettes/fixest\\_walkthrough.html](https://cran.r-project.org/web/packages/fixest/vignettes/fixest_walkthrough.html)

## **Params**

## **Estimation**

## **Results**

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Table 1:

	OLS (1)	REE (2)	FEE (3)	PPML (4)
Suma bilateral del producto interno bruto	1.663*** (0.183)	1.659*** (0.189)	1.354** (0.582)	—0.170 (0.171)
Diferencia en la dotación relativa de factores	—0.283 (0.435)	—0.281 (0.442)	—0.442 (0.477)	0.312** (0.151)
Similitud en el tamaño de las economías	4.781*** (1.496)	4.768*** (1.498)	0.751 (2.053)	0.566 (0.622)
Distancia entre principales centros urbanos	—2.445*** (0.372)	—2.445*** (0.373)		
Fronteras en común	—1.711** (0.668)	—1.705** (0.670)		
Lenguaje en común	1.081 (0.861)	1.070 (0.864)		
Colonizador en común	—1.069* (0.647)	—1.052 (0.660)		
Índice de similitud en creencias religiosas	—1.376 (1.068)	—1.374 (1.068)		
Acuerdos comerciales regionales	1.174** (0.479)	1.169** (0.483)	—0.151 (0.203)	0.148** (0.072)
Constante	—7.412 (4.511)	—7.309 (4.665)		
<i>N</i>	780	780	780	780
<i>R</i> <sup>2</sup>	0.747	0.745	0.011	
Adjusted <i>R</i> <sup>2</sup>	0.744	0.742	—0.069	
F Statistic	252.951*** (df = 9; 770)	2,247.490***	1.959* (df = 4; 721)	

Notes:

\*\*\* Significant at the 1 percent level.

\*\* Significant at the 5 percent level.

\* Significant at the 10 percent level.

Table 2:

	OLS (1)	REE (2)	FEE (3)	PPML (4)
Suma bilateral del producto interno bruto	3.193*** (0.421)	3.193*** (0.421)	1.745 (1.763)	−1.469*** (0.328)
Diferencia en la dotación relativa de factores	1.152* (0.644)	1.152* (0.644)	0.580 (1.188)	1.566*** (0.304)
Similitud en el tamaño de las economías	18.038*** (3.361)	18.038*** (3.361)	8.299 (6.293)	1.478** (0.717)
Distancia entre principales centros urbanos	−1.738*** (0.556)	−1.738*** (0.556)		
Fronteras en común	0.206 (1.328)	0.206 (1.328)		
Lenguaje en común	6.746*** (1.257)	6.746*** (1.257)		
Colonizador en común	−3.570** (1.559)	−3.570** (1.559)		
Índice de similitud en creencias religiosas	−2.607 (2.511)	−2.607 (2.511)		
Acuerdos comerciales regionales	−0.016 (0.707)	−0.016 (0.707)	−0.440 (0.341)	−0.115** (0.050)
Constante	−58.644*** (12.556)	−58.644*** (12.556)		
<i>N</i>	780	780	780	780
<i>R</i> <sup>2</sup>	0.778	0.778	0.030	
Adjusted <i>R</i> <sup>2</sup>	0.776	0.776	−0.048	
F Statistic	300.181*** (df = 9; 770)	2,701.625***	5.641*** (df = 4; 721)	

Notes:

\*\*\* Significant at the 1 percent level.

\*\* Significant at the 5 percent level.

\* Significant at the 10 percent level.