

ECO 5365: Replication 1 results

Aleksandr Strekalov

March 13, 2025

1 Tables replication

1.1 Brief introduction

For the replication of the tables, I used Stata for data management and the regressions. Two different Stata do-files were generated during this replication - one for Table 2 replication, and another one for Table 3. Steps that sequence run the Stata files are discussed in the READ.ME file on GitHub.

One important thing to pay attention to, considering the fact that replication has been done for 2017 data, there was a completely different set of industries was observed within the OECD data. Despite that productivity data has the same industries that were observed within the paper, Table 3 represents results for only four industries based on the OECD industries:

- Agriculture, forestry and fishing [A]
- Manufacturing [C]
- Mining and quarrying [B]
- Electricity, gas, steam and air conditioning supply [D]

The following sources were used for data collection:

- OECD data on Research and Development: OECD Data Explorer
- OECD data on Trade values: OECD Trade Data
- PLD data on Productivity: PLD Productivity Database
- OECD data on Output for industries: OECD Output Data

Table 1: Cross-sectional results—baseline

Dependent variable	log (corrected exports)	log (exports)	log (corrected exports)	log (exports)
log (productivity based on producer prices)	0.716** (-0.261)	0.711** (-0.264)	9.616** (-2.996)	9.791** (-3.039)
Estimation method	OLS	OLS	IV	IV
Exporter \times importer fixed effects	YES	YES	YES	YES
Industry \times importer fixed effects	YES	YES	YES	YES
Observations	1504	1504	1269	1269
R ²	0.696	0.695	0.255	0.237

Table 2: Relative productivity levels, by country and industry

Country	Agriculture	Business	Construction	Real estate	Finance	Manufacturing	Mining	Other services	Utilities	Government	Transport	Trade
AUS	1.00	0.76	1.03	0.60	0.76	0.78	0.41	0.85	0.42	1.07	0.53	1.02
BEL	1.00	0.69	2.93	0.82	1.01	0.49	0.56	0.84	0.27	0.99	0.45	1.01
CZE	1.00	1.22	7.16	2.22	1.53	0.72	0.42	1.70	0.49	3.49	1.30	1.85
DEU	1.00	0.93	1.95	1.19	1.16	0.87	0.82	1.00	0.24	1.45	0.42	1.75
DNK	1.00	0.65	2.35	0.65	0.83	0.51	1.05	0.57	0.23	1.06	0.38	0.92
ESP	1.00	0.82	4.60	1.12	1.13	0.61	0.43	0.99	0.29	1.50	0.62	0.95
FIN	1.00	0.95	2.16	1.00	1.45	0.83	0.99	0.95	0.65	1.57	0.52	1.89
FRA	1.00	1.06	2.96	1.29	2.19	1.02	0.98	1.22	0.55	1.85	0.69	1.21
GBR	1.00	0.99	3.88	0.72	1.14	1.18	1.34	1.21	0.58	1.61	0.56	1.52
GRC	1.00	1.52	16.20	3.31	1.43	1.06	0.53	2.24	0.94	3.35	1.22	1.36
HUN	1.00	1.36	9.34	3.41	2.12	0.73	0.40	2.16	0.95	3.81	0.84	2.41
IRL	1.00	1.03	2.27	1.01	1.10	1.01	0.87	1.22	0.76	1.40	0.87	1.08
ITA	1.00	1.23	8.20	1.85	1.59	0.93	1.62	1.44	0.55	1.79	1.23	1.85
JPN	1.00	4.44	6.48	6.38	8.82	5.84	2.17	4.33	2.66	9.21	2.03	4.28
KOR	1.00	3.38	26.91	7.72	4.75	2.72	1.18	5.26	5.12	7.81	5.31	4.45
LUX	1.00	1.15	2.15	0.96	1.52	0.94	0.75	1.24	0.96	1.19	1.34	2.29
NLD	1.00	0.85	2.78	0.79	1.15	0.64	0.91	1.05	0.49	1.22	0.40	0.81
POL	1.00	1.42	6.27	6.26	1.41	0.82	0.34	1.91	0.57	3.60	1.01	1.27
PRT	1.00	1.00	11.79	1.81	1.24	0.54	0.47	1.35	0.30	2.01	0.65	1.55
SVK	1.00	1.11	6.82	1.75	1.28	0.63	0.52	1.61	0.61	3.47	1.18	1.52
SWE	1.00	0.83	1.72	1.22	1.11	0.75	0.53	0.70	0.56	1.40	0.48	1.00
USA	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00