



# Reproducible Research Repository

## *Leveraging Growth Regressions for Country Analysis*

*Seventh Submission: PP\_WLD\_2024\_88*

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This review verifies the reproducibility of the exhibits included in the paper "*Leveraging Growth Regressions for Country Analysis*".

### **Contents in this review:**

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

### *Main findings*

1. The code was successfully executed on a new computer after:
  - Creating a main do-file with the global settings section of do-file *o\_WBPRWP\_datacr.do* that runs all other do-files in the reproducibility package following the order provided in the file names.
  - Installing the packages *coefplot*, *xtabond2*, and *domin*.
2. The output demonstrates consistent stability across multiple runs. Specifically, executing the code in two different computers yielded identical results.
3. The code takes approximately 2 days to run.
4. We conducted our reproducibility analysis based on the paper shared by the authors via email on February 25, 2024.
5. Every exhibit has been reproduced.
6. **Reproducibility Summary:**
  - **Data:** All data sources are publicly available but not all are included in the reproducibility package.
  - **Code:** All code files are included in the package.
  - **Outputs:** Some outputs are not generated by code (created manually in Excel) but instructions for producing these outputs are included in the README.
  - **Reproducibility verification:** Reviewers used data provided directly by the authors and downloaded from sources specified by the authors to conduct the reproducibility verification.

## List of exhibits and reproducibility status

### Results in the Main Section of the Paper

- **Table 1** Results reproduced, but table includes manual formatting. The exhibit was compared with the results of line 28 in the file *1\_WBPRWP\_analysis.do*.
- **Table 2** Results reproduced with minor discrepancies of  $\pm 0.002$  for some of the coefficients and standard errors. The exhibit was compared with the results of lines 34-45 in the file *1\_WBPRWP\_analysis.do*.
- **Figure 1** Results reproduced. The exhibit was compared with the results of lines 21-30 of the do-file *3\_Figure1.do*.
- **Figure 2** Results reproduced. The exhibit was compared with the results of line 68 in the file *1\_WBPRWP\_analysis.do*.
- **Figure 3** Results reproduced. The exhibit was compared with the results of line 85 in the file *1\_WBPRWP\_analysis.do*.
- **Table 3** Results reproduced with minor discrepancies of  $\pm 0.01$  for the row "+ period dummy". The table was recreated using the instructions of the README
- **Figure 4** Results reproduced, but the figure includes manual changes from code output. The figure was recreated using the instructions of the README. The output and the formulas for final values are in the file *WBgrowthpaper\_Fig4\_5.xlsx* (tab Fig4).
- **Figure 5** Results reproduced. The figure was recreated using the instructions of the README. The output and the formulas for final values are in the file *WBgrowthpaper\_Fig4\_5.xlsx* (tab Fig5).

### Results in the Annex

- **Table A.2** Results reproduced. The table was recreated using the instructions of the README.
- **Figure A.1** Results reproduced. The exhibit was compared with the results of lines 39-48 of the do-file *3\_Figure1.do*.
- **Figure A.2** Results reproduced. The exhibit was compared with the results of lines 93 and 98 in the file *1\_WBPRWP\_analysis.do*.
- **Table A.3** Results reproduced with minor discrepancies of  $\pm 0.003$  for some of the coefficients and standard errors. The exhibit was compared with the results of lines 94 (Column 1), 99 (column 4), 105 (Column 3), 106 (Column 2), 108 (Column 6), and 109 (Column 5) of the do-file *1\_WBPRWP\_analysis.do*.
- **Figure 4** Results reproduced. The exhibit was compared with the results of line 112 in the file *text1\_WBPRWP\_analysis.do*.
- **Table A.4** Results reproduced with minor discrepancies of  $\pm 0.004$  for some of the coefficients and standard error. The exhibit was compared with the results of lines 119-121 of the do-file *1\_WBPRWP\_analysis.do*.

*Reproduction Environment*

Paper exhibits were reproduced in two computers with the following specifications:

- Computer 1:
  - OS: Windows 10 Enterprise, version 21H2
  - Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz, 16 Core(s)
  - Memory available: 109 GB
  - Software version: Stata 17
- Computer 2:
  - OS: Windows 10 Enterprise, version 21H2
  - Processor: Intel(R) Xeon(R) Gold 6132 CPU @ 2.60GHz 2.60 GHz (2 processors)
  - Memory available: 128 GB
  - Software version: StataMP 18