## Overview

**The code in this replication package constructs the analysis file from the Bloom, Draca and Van Reenen (2020) “A Reply to Campbell and Mau” using Stata.**

**Note that CM\_Response\_Revised\_v2.do** creates all the outputs.

It creates **CM\_Response\_Revised\_v2.log** andthe excel files **Tab1 and TabA1**

One master file run all of the code to generate the data for the 1 table in the paper and 1 in the appendix. The replicator should expect the code to run for about one hour.

## Data Availability and Provenance Statements

All data is included in the replication package (including the original 2016 data). The secondary data is **extra\_vars.dta and** **titc\_bdvr\_pat.dta (**the latter was also in the original 2016 paper (Bloom, Draca and Van Reenen 2016a) and replication file(Bloom, Draca and Van Reenen 2016b).

### Statement about Rights

* ☐x I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.

### Summary of Availability

* ☐x All data **are** publicly available.
* ☐ Some data **cannot be made** publicly available.
* ☐ **No data can be made** publicly available.

### Details on each Data Source

### The data is extra\_vars.dta, and titc\_bdvr\_pat.dta

## Dataset list

|  |  |  |  |
| --- | --- | --- | --- |
| Data file | Source | Notes | Provided |
| **extra\_vars.dta** | PATSTAT, ORBIS, UNCOMTRADE, PRODCOM | Confidential | Yes |
| **titc\_bdvr\_pat.dta** | PATSTAT, ORBIS, UNCOMTRADE, PRODCOM | Confidential | Yes |

## Please see references for data sources.

## Computational requirements

Basic PC

### Software Requirements

* Stata (code was last run with version 15.1)
  + estout and estab are installed at line 7 of **CM\_Response\_Revised\_v2.do** (currently commented out – take out comment if you have not installed them)

#### Summary

Approximate time needed to reproduce the analyses on a standard (CURRENT YEAR) desktop machine:

* ☐ <10 minutes
* ☐x 10-60 minutes
* ☐ 1-8 hours
* ☐ 8-24 hours
* ☐ 1-3 days
* ☐ 3-14 days
* ☐ > 14 days
* ☐ Not feasible to run on a desktop machine, as described below.

#### Details

The code was last run on a 4-core Intel-based laptop with Windows version 10.

## Description of programs/code

**CM\_Response\_Revised\_v2.do** creates all the outputs.

It creates **CM\_Response\_Revised\_v2.log** andthe excel files **Tab1 and TabA1**

## Instructions to Replicators

* Edit line global dir "C:\Users\vanreene\Dropbox (WMS)\TITC\_2019\\_November2020\Replication\"programs/config.do to adjust the default path
* Run **CM\_Response\_Revised\_v2.do**

## List of tables and programs

The provided code reproduces:

* ☐x All numbers provided in text in the paper
* ☐ All tables and figures in the paper
* ☐ Selected tables and figures in the paper, as explained and justified below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Figure/Table # | Program | Line Number | Output file | Note |
| Table 1 | **CM\_Response\_Revised\_v2.do** | 51 | Tab1.xls |  |
| Table A1 | **CM\_Response\_Revised\_v2.do** | 66 | TabA1.xls |  |

**References**

Bloom, Nicholas, Draca, Mirko and Van Reenen, John (2016a), “Trade induced technical change? The Impact of Chinese Imports on Innovation, IT and Productivity, Review of Economic Studies 83(1), 87-117.

Bloom, Nicholas, Mirko Draca, and John Van Reenen. (2016b). "Supplementary data for: Trade Induced Technical Change? The Impact of Chinese imports on innovation, IT and productivity." [dataset] Retrieved from <https://doi.org/10.1093/restud/rdv039>

Bloom, Nicholas, Mirko Draca and John Van Reenen, (2020) “A Reply to Campbell and Mau”

Bureau Van Dijk (2020) Company Account Statistics (ORBIS) [dataset] Retrieved from <https://www.bvdinfo.com/en-gb/our-products/data/international/orbis>

Campbell, Douglas and Karsten Mau (2020) “On Trade Induced Technical Change: The impact of Chinese Imports on Innovation, IT and Productivity”, mimeo

European Patent Office (2020) Patent Statistics (PATSTAT) [dataset] Retrieved from <https://www.epo.org/searching-for-patents/business/patstat.html>

Eurostat (2020) Statistics on the production of manufactured goods (PRODCOM). [Data set] Retrieved from <https://ec.europa.eu/eurostat/web/prodcom/data/database>

United Nations (2020) Statistics on trade (COMTRADE) [Data set] Retrieved from <https://comtrade.un.org/>