Replication files for "Slicing the Pie: Quantifying the Aggregate and Distributional Effects of Trade" by Simon Galle, Andrés Rodríguez-Clare, and Moises Yi

This folder contains the following:

./Data
This directory contains the main datasets used in the paper.

./Data/CBP
County business patterns (1990, 2000, 2007).

./Data/IPUMS
Decennial Censuses of Population (1980—2000) and annual ACS (2006—2008).

./Data/Crosswalks
Various industry and geographic crosswalks.

./Data/ADH
Select replication files from Autor, Dorn, Hansen (2013).

./Data/BHJ
Select replication files from Borusyak, Hull, Jaravel (2020).

./Data/Trade
Trade data from WIOD and Rodriguez-Clare, Ulate & Vasquez (2020), World Development Indicators, and an aggregation matrix.

./Code
This directory contains the Stata and MATLAB files that replicate the results of the paper.

./Code/master.do
This file executes most of the Stata code in the project. It builds the data and generates all tables that are not directly part of the simulation exercise. Final output is stored in the "./Tables" directory and intermediate output is stored in "./Intermediate." Note, before running this file you must specify the project directory at the top of the code.

To run our Stata code, please first install the following:

```
ssc install maptile
maptile_install using "http://files.michaelstepner.com/geo_cz1990.zip"

ssc install ftools
ssc install gtools
ssc install moremata
```

./Code/MATLAB

This directory contains MATLAB code for the simulation exercises:

- All files starting with "LoadData" prepare the data for the simulation analysis.
- All files starting with "Welfare" run various versions of the China shock or the return to autarky.
- All files starting with "ChinaShockCalibration" calibrate various versions of the China shock.

./Code/MATLAB/Master_GRY.m

This file executes all the Matlab code in the relevant order. It builds the simulation data, calibrates the China shocks for the different exercises, solves for the counterfactual equilibria for the various versions of the model, and creates the associated tables and figures. Final output is stored in the "./Tables" directory.

On our computer (Intel Core i9-10920X CPU @ 3.5 GHz, 12 cores, 24 logical processors; 256GB in RAM), the full execution of this master script takes approximately six days.

./Code/MATLAB/+MatlabAuxFiles

Background files for the simulations, including the Alvarez-Lucas algorithm that solves for the counterfactual equilibrium.

./Code/MATLAB/ChinaShocks

Stores the calibrated China shocks.

./Code/MATLAB/HelpScripts

Scripts that are executed after the counterfactual equilibrium has been found, e.g. to store results, create tables and figures.

./Code/MATLAB/ModelData

Stores the model-based data that are inputs in the counterfactuals.

./Code/MATLAB/Results

Stores the simulation results.

./Intermediate

This directory stores temporary and intermediate datasets as the code runs.

./Tables

This directory stores tabular output and figures as the code runs.