Numerical analysis for "Reputation and Partial Default"

by Manuel Amador and Christopher Phelan.

This repository contains code that replicates the numerical results of "Reputation and Partial Default" by Manuel Amador and Christopher Phelan.

Software requirements

- Julia version 1.7.2.
- The file `Project.toml` lists all of the necessary packages.

Memory and runtime requirements

The main script takes less than 10 minutes to run in 4 core Intel machine (i7-1065G7 CPU @ 1.30GHz) with 16GB of RAM, on Windows 11.

Description of code

1. The directory `src` contains the main source code. The file `partial_default.jl` contains the code that runs the simulations.
2. The directory `scripts` contains the script that generates the figures shown in the paper.
3. The directory `output` contains the figures generated as an output to the scripts.

Instructions to replications

Make sure you have installed Julia (a version older than 1.7.2).

Navigate to the `scripts` subdirectory in the command line and run:

```
> julia paper_figures.jl
```

(Alternatively, you can run jupyter, and open and run the `paper_figure.ipynb` notebook.)

The script should download and precompile the necessary packages the first time it is run (This may take some time).

Output

The script runs the simulations and generates all of the figures in the paper.

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