Market Power ABM

Héctor Castillo

December 10, 2023

1 Introduction

With the intention of obtaining a framework that allows to execute ABM in Python, we present `market_power`, with the next elements:

- Auxiliary files:

  - `requirements.txt`: list of the necessary python packages
  - `util/statistics.py`: class for managing the output
  - `util/stats_array.py`: it contains the code to plot with pyplot, bokeh, grace and gretl.
  - `util/log.py`: class for managing the logging
  - `output/*`: the files generated (plots mainly)
  - `test/*`: unit tests

Start

$\forall t = 0 \dots T$

$L_t^s = \frac{A_{t-1}^b}{\alpha}$

$\forall firm_i$

$firm_i.gamma$

Stop