Replication files for the paper

Measuring the output gap with large datasets

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The results in our paper are replicated by three different main files, which are described below. All the other files are auxiliary files necessary to run the main files. The three main files provide the results for the whole paper but the real-time exercise. Because the real-time exercise requires lots of data to be run, it was too complicated to share. If you are interested in the real-time exercise, or in some other results in the complementary appendix, just send us an email.

(1) **`BL_OutpuGap_REStat_1`** produces Figures 1, 4, 5, and 7 and Table 2

- Note that this file computes the bootstrap confidence bands. It takes quite some time to do that and the code exploit the parallel toolbox. If you do not have the parallel toolbox you have to substitute the `parfor` with a normal `for`.
- Because it takes some time to run the code, we had a switch variable (`SALVA`) that, when equal to 1, saves the results. This is necessary to do the confidence bands for Figure 6.
- The code saves two files:
  - `RestatBenchmarkALL.mat`, which contains the whole bootstrap distribution. This is a pretty big file and it is not used by the other files.
  - `RestatBenchmark2.mat`, which contains confidence bands for selected variables. This file is used in the file `BL_OutpuGap_REStat_3`.
- If you have previously saved the results, there is another switch variable (`STIMA`) that, when equal to 0, skips the estimation step.
- Note also that, if you want, you can estimate the model bypassing the estimation of the confidence bands. To do so, you have to comment the `parfor` loop and then adjust accordingly the graphs

(2) **`BL_OutpuGap_REStat_2`** produces Figures 2 and 3, and Table 1

- This file uses the variable `RestatSetting`, which contains a number of settings. This variable is constructed in the file `BL_OutpuGap_REStat_1`.

(3) **`BL_OutpuGap_REStat_3`** that produces Figures 6

- This file uses the variable `RestatSetting`, which contains a number of settings. This variable is constructed in the file `BL_OutpuGap_REStat_1`.
- This file uses load `RestatBenchmark2`, which contains the confidence bands. This variable is constructed in the file `BL_OutpuGap_REStat_1`. You can bypass this by commenting the lines of code that use this variable and by adjusting the graphs accordingly.