Paper by Gautier and Le Saout, " The Dynamics of Gasoline Prices: Evidence from Daily French Micro Data": Documentation for the programs

The access to micro data on gasoline prices used in the paper is warranted by a specific contract between the Ministry of economy and finance and the authors of the paper. Data are not publicly available. Rotterdam prices are coming from the U.S. Energy Information Administration Website (<http://www.eia.gov/>).

Descriptive statistics and data set construction were run using SAS software.

All regressions and simulation exercises were run using the Gauss software (except some regressions in Appendix where Stata programs were used).

**MAIN TEXT**

**Descriptive statistics (Table1 + Figures 1 and 2)**

Prepare data set for statistics: Dataset\_construction.sas (restrict the sample, correct for beta differences…)

Table1: Frequency\_and\_size\_by\_gas\_stations.sas computes the average frequency ad size for every gas stations and Table1.sas computes basic statistics.

Figure 1: Hazard\_rates.sas

Figure 2: Figure2.sas

**Estimation of parameter estimates (Tables 2 & 3 + Figure 3)**

Estimation programs and estimated parameters are then saved: random\_mc\_duration.gss

Compute statistics in Tables 2 & 3: STAT\_DESc\_param\_var\_mc\_duration.gss

**In sample simulation of models (Table 4)**

“simul\_insample\_main.gss” is the main program that calls for different models simulation :

“simul\_insample\_var\_mc\_duration.gss » for our baseline case

“simul\_insample\_fixed\_mc\_duration.gss” for our baseline model without idiosyncratic shock

“simul\_insample\_mc.gss” for menu cost model

“simul\_insample\_calvo.gss” for Calvo model

Those programs help to save simulated data set then the following program compute the statistics reported in Table 4 “STAT\_simul\_insample.gss”

**“Out of sample” simulations (Table 5 +Figure 4)**

simul\_outsample\_var\_mc\_duration\_main.gsscalls for program “simul\_outsample\_var\_mc\_duration.gss” for our baseline model

“simul\_outsample\_calvo \_main” and “simul\_outsample\_calvo.gss” for Calvo model

“simul\_outsample\_mc\_main” for fixed menu cost model

Other programs use data set simulated by previous programs to compute simple statistics or IRF graphs

Figure 4 & Table 5: IRF\_inflation.gss computes the Figure 4 and statistics of Table 5

For Figure4, IRF\_vecm.do computes the IRG for aggregate VECM regressions (prix\_gaz\_jour.txt and prix\_sp\_jour.txt are data sets used to compute the VECM model)

Figure 5: distribution\_adjustment\_duration.gss

**Test of asymmetry (Table 6)**

test\_asym\_var\_mc.gss

**APPENDIX**

Figure B1 reports the simple average of price excluding taxes on our data set and average price of gasoline is calculated by the Ministry of Environment (<http://www.developpement-durable.gouv.fr/Prix-de-vente-moyens-des,10724.html>). Rotterdam prices are coming from the U.S. Energy Information Administration Website (<http://www.eia.gov/>).

Figure C1: Dataset\_figureC.sas prepares the data set then FigureC.sas computes the figure

Table D1: TableD1.sas computes statistics reported in Table D1.

**Gas stations regression relating competition indicators to our estimated parameters (Table E1 & E2)**

Individual\_gas\_stations\_characteristics.do

**In sample simulation of models (appendix Tables F1, F2 and F3)**

“fixed\_mc\_duration.gss” and “STAT\_DESc\_param\_var\_mc\_fixed.gss”

“MC.gss” and “STAT\_DESC\_param\_mc.gss”

“Calvo.gss” and “STAT\_DESC\_param\_calvo.gss”