The main code is written in Julia, to compute the steady state and the projected model. The dynamics uses DYNARE, which is running with Matlab.

You can directly run “Dynare\_ramsey.mod” using DYNARE. We know explain how this file is constructed (to perform other simulations for the initial Bewley model)

1. The code “MainUI.ipynb” is a Julia code (Jupyter notebook, which can be run with standard package). It computes the steady state, it computes the truncated equilibriums (the xsis), and it iterates on the UI benefits to find the optimal one,

This code saves a file « todynare.mat », which is the projected model which will be used to simulate the model.

This main code uses

* “parameters.jl” : parameters of the model
* “Aiyagari\_solve.jl" : computes the steady state of the Bewley model
* "projection\_explicit.jl” computes the projection of the Bewley model

1. Then, run “writedynare.m”

This matlab code uses “todynare.mat”, to write the DYNARE file “Dynare\_ramsey.mod”

1. Then run this last file, “Dynare\_ramsey.mod”, using DYNARE to get the output

The model is the model with optima time-varying unemployment benefits.