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## Graphs

Iter: 2,

Iter: 3,

Iter: 4,

```
dynare simple model kl 2
```

```
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[mex] Sylvester equation solution.
[mex] Kronecker products.
[mex] Sparse kronecker products.
[mex] Local state space iteration (second order).
[mex] Bytecode evaluation.
[mex] k-order perturbation solver.
[mex] k-order solution simulation.
[mex] Quasi Monte-Carlo sequence (Sobol).
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Using 64-bit preprocessor
Starting Dynare (version 4.5.7).
Starting preprocessing of the model file ...
Found 6 equation(s).
Evaluating expressions...done
Computing static model derivatives:
- order 1
Computing dynamic model derivatives:
- order 1
Processing outputs ...
done
Preprocessing completed.
EIGENVALUES:
        Modulus
                            Real
                                       Imaginary
          0.9798
                          0.9798
                                                  0
          1.109
                           1.109
                                                  0
There are 1 eigenvalue(s) larger than 1 in modulus
for 1 forward-looking variable(s)
The rank condition is verified.
MODEL SIMULATION:
             err. = 2384.5164, time = 0.021
err. = 632.9656, time = 0.004
Iter: 1,
```

Total time of simulation: 0.041

err. = 0.036943, time = 0.004 err. = 8.9286e-08, time = 0.004

time = 0.004

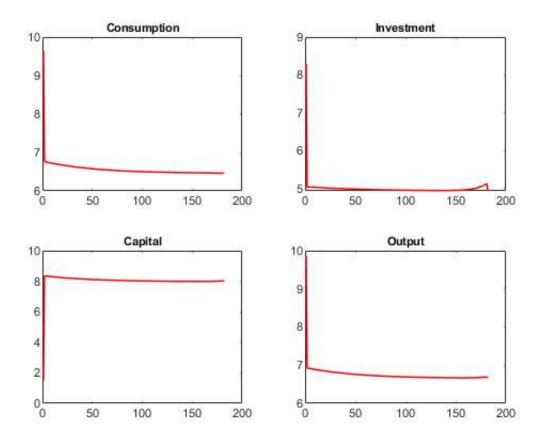
err. = 23.6302,

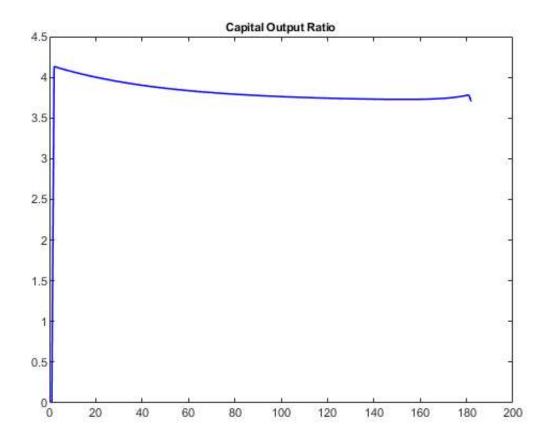
```
MODEL SIMULATION:
              err. = 2384.5164, time = 0.004 err. = 632.9656, time = 0.003
Iter: 1,
Iter: 2,
Iter: 3,
                err. = 23.6302,
                                          time = 0.004
                err. = 0.036943, time = 0.003
err. = 8.9286e-08, time = 0.004
Iter: 4,
Iter: 5,
Total time of simulation: 0.023
Perfect foresight solution found.
Residuals of the static equations:
Equation number 1 : 0 : Aggregate Output
Equation number 2 : 0 : Euler Equation
Equation number 3 : 0 : Budget Constrain
Equation number 4: 0: low-tech capital
Equation number 5 : 0 : total capital
Equation number 6 : 0
Total computing time : 0h00m00s
```

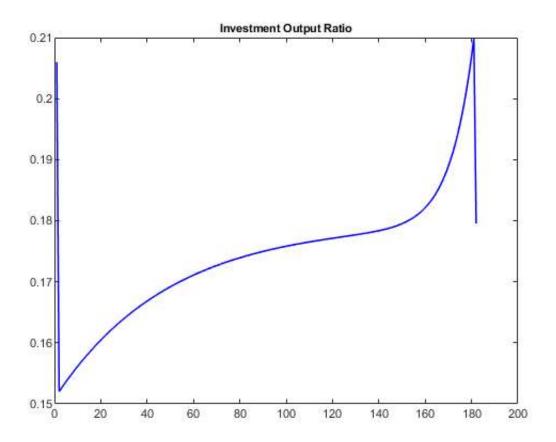
## **Graphs**

```
figure;
set(gcf, 'Color', [1,1,1]);
subplot(2,2,1);
plot(c,'r-','LineWidth',1);
set(gca, 'Fontsize', 8);
%xlim([2003 2017]);
title(['Consumption'],'FontSize',8,'FontWeight','bold');
subplot(2,2,2);
plot(i,'r-','LineWidth',1);
set(gca,'Fontsize',8);
%xlim([2003 2017]);
title(['Investment'], 'FontSize', 8, 'FontWeight', 'bold');
subplot(2,2,3);
plot(k,'r-','LineWidth',1);
set(gca, 'Fontsize', 8);
%xlim([2003 2017]);
title(['Capital'],'FontSize',8,'FontWeight','bold');
subplot(2,2,4);
plot(y,'r-','LineWidth',1);
```

```
set(gca,'Fontsize',8);
%xlim([2003 2017]);
title(['Output'],'FontSize',8,'FontWeight','bold');
%suptitle(['all wedges']);
snapnow
% The k/y its not compatible with the values from the inventory capital
% measure -- too high
figure;
plot(exp(k)./exp(y),'b-','LineWidth',1);
set(gca,'Fontsize',8);
%xlim([2003 2017]);
title(['Capital Output Ratio'], 'FontSize', 8, 'FontWeight', 'bold');
snapnow
% The results are far away from the observed values
% the i/y is ok
figure;
plot(exp(i)./exp(y), 'b-', 'LineWidth', 1);
set(gca,'Fontsize',8);
%xlim([2003 2017]);
title(['Investment Output Ratio'], 'FontSize', 8, 'FontWeight', 'bold');
snapnow
[c(2)-9.63 y(2)-9.87 i(2)-8.28]
[c(end)-9.60 y(end)-9.77 i(end)-7.9]
```







ans =

ans =

-3.1435 -3.1156 -2.9629

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