

# FINAL CONSIDERATIONS ON PANEL OF countries

## SYSTEM MODEL

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### method = "3SLS" for panel of countries

```
imp_fun <- "dif_tech_imp ~ lag_inc      + lag_rprices      + lag_tech_imp  +
dif_income  + dif_rprices"
exp_fun <- "dif_tech_exp ~ lag_finc     + lag_rprices      + lag_tech_exp  +
dif_fincome + dif_rprices"
inst_imp <- "              ~ lag_consum + lag_rprices      + lag_tech_imp  +
dif_consum  + dif_rprices"
control_system <- systemfit.control(
  maxiter = 200,
)
```

- method = "3SLS" IV Result: 0.0312934 (uniterated exp and imp)
  - method = "3SLS" GLS Result: 0.04442432 (uniterated exp and imp)
  - method = "3SLS" Schmidt Result: 0.04900415
  - method = "3SLS" Eviews Result: 0.02933175 (uniterated exp and imp)
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### method = "3SLS" for panel of countries with dummies

```
imp_fun <- "dif_tech_imp ~ lag_inc      + lag_rprices      + lag_tech_imp  +
dif_income  + dif_rprices + dummy"
exp_fun <- "dif_tech_exp ~ lag_finc     + lag_rprices      + lag_tech_exp  +
dif_fincome + dif_rprices + dummy"
inst_imp <- "              ~ lag_consum + lag_rprices      + lag_tech_imp  +
dif_consum  + dif_rprices + dummy"
control_system <- systemfit.control(
  maxiter = 200
)
```

- method = "3SLS" IV Result: 0.03295616 (uniterated exp and imp)
  - method = "3SLS" GLS Result: 0.04525895 (uniterated exp and imp)
  - method = "3SLS" Schmidt Result: 0.04957134
  - method = "3SLS" Eviews Result: 0.03110354 (uniterated exp and imp)
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### method = "3SLS" for panel of countries no lag dep both EXP IMP

```
imp_fun <- "dif_tech_imp ~ lag_inc      + lag_rprices + dif_income +  
dif_rprices + dummy"  
exp_fun <- "dif_tech_exp ~ lag_finc     + lag_rprices + dif_fincome +  
dif_rprices + dummy"  
inst_imp <- "              ~ lag_consum + lag_rprices + dif_consum +  
dif_rprices + dummy"  
control_system <- systemfit.control(  
  maxiter = 200  
)
```

- method = "3SLS" IV Result: 0.04023409 (uniterated exp and imp)
- method = "3SLS" GLS Result: 0.1020534 (uniterated exp and imp)
- **method = "3SLS" Schmidt Result: 0.02596946**
- method = "3SLS" Eviews Result: 0.0348883 (uniterated exp and imp)