



```

name: <unnamed>
log: C:\Users\labnegocios10\Documents\proyectofinal.smcl
log type: smcl
opened on: 24 Nov 2021, 17:53:51

```

```

1 . *(4 variables, 120 observations pasted into data editor)
2 . generate ID=(pais >0)
3 . xtset ID year, yearly
   panel variable: ID (strongly balanced)
   time variable: year, 1961 to 2020
                 delta: 1 year
4 . codebook pib fempart pais year

```

pib (unlabeled)

```

type: numeric (double)
range: [6.500e+11,2.000e+13] units: 1.000e+10
unique values: 69 missing.: 0/120
mean: 6.9e+12
std. dev: 5.3e+12
percentiles: 10% 25% 50% 75% 90%
              1.8e+12 3.5e+12 4.4e+12 9.8e+12 1.6e+13

```

fempart (unlabeled)

```

type: numeric (float)
range: [.379,.6003] units: .0001
unique values: 101 missing.: 0/120
mean: .511748
std. dev: .055595
percentiles: 10% 25% 50% 75% 90%
              .443 .4825 .5015 .5674 .59225

```

pais (unlabeled)

```

type: numeric (byte)
range: [0,1] units: 1
unique values: 2 missing.: 0/120
tabulation: Freq. Value
              60 0
              60 1

```

year (unlabeled)

```

type: numeric yearly date (int)
range: [1961,2020] units: 1
or equivalently: [1961,2020] units: years
unique values: 60 missing.: 0/120

```

mean: 1990.5 = 1990 (+ 3 months)
 std. dev: 17.3907

percentiles: 10% 25% 50% 75% 90%
 1966.5 1975.5 1990.5 2005.5 2014.5
 1966 1975 1990 2005 2014

5 . de pib fempart

variable name	storage type	display format	value label	variable label
pib	double	%8.0g		
fempart	float	%8.0g		

6 . summ fempart pib

Variable	Obs	Mean	Std. Dev.	Min	Max
fempart	120	.5117483	.0555951	.379	.6003
pib	120	6.90e+12	5.34e+12	6.50e+11	2.00e+13

7 . varsoc pib fempart if ID==0

Selection-order criteria
 Sample: 1965 - 2020

Number of obs = 56

lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	-1614.15				4.0e+22	57.7195	57.7475	57.7918
1	-1334.2	559.9	4	0.000	2.1e+18	47.8642	47.9483	48.0812
2	-1318.68	31.04*	4	0.000	1.4e+18*	47.4528*	47.593*	47.8144*
3	-1317.04	3.2672	4	0.514	1.5e+18	47.5373	47.7336	48.0436
4	-1314.95	4.1863	4	0.381	1.6e+18	47.6054	47.8578	48.2564

Endogenous: pib fempart
 Exogenous: _cons

8 . varsoc pib fempart if ID==1

Selection-order criteria
 Sample: 1965 - 2020

Number of obs = 56

lag	LL	LR	df	p	FPE	AIC	HQIC	SBIC
0	-1478.27				3.1e+20	52.8667	52.8947	52.939
1	-1268.27	420	4	0.000	2.0e+17	45.5096	45.5937	45.7266*
2	-1260.69	15.149*	4	0.004	1.8e+17*	45.3819*	45.5221*	45.7436
3	-1260.29	.81464	4	0.936	2.0e+17	45.5102	45.7065	46.0165
4	-1259.8	.96789	4	0.915	2.3e+17	45.6358	45.8882	46.2868

Endogenous: pib fempart
 Exogenous: _cons

9 . xtunitroot llc pib

Levin-Lin-Chu unit-root test for **pib**

Ho: Panels contain unit roots
 Ha: Panels are stationary

Number of panels = 2
 Number of periods = 60

AR parameter: Common
 Panel means: Included
 Time trend: Not included

Asymptotics: N/T -> 0

ADF regressions: 1 lag
 LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-1.3035	
Adjusted t*	-1.0208	0.1537

10. xtunitroot llc fempart

Levin-Lin-Chu unit-root test for **fempart**

Ho: Panels contain unit roots Number of panels = 2
 Ha: Panels are stationary Number of periods = 60

 AR parameter: **Common** Asymptotics: **N/T -> 0**
 Panel means: **Included**
 Time trend: **Not included**

ADF regressions: 1 lag
 LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-3.6096	
Adjusted t*	-2.8035	0.0025

11. xtunitroot llc fempart, lags(5)

Levin-Lin-Chu unit-root test for **fempart**

Ho: Panels contain unit roots Number of panels = 2
 Ha: Panels are stationary Number of periods = 60

 AR parameter: **Common** Asymptotics: **N/T -> 0**
 Panel means: **Included**
 Time trend: **Not included**

ADF regressions: 5 lags
 LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-2.6951	
Adjusted t*	-1.1981	0.1154

12. xtunitroot llc pib, lags(5)

Levin-Lin-Chu unit-root test for **pib**

Ho: Panels contain unit roots Number of panels = 2
 Ha: Panels are stationary Number of periods = 60

 AR parameter: **Common** Asymptotics: **N/T -> 0**
 Panel means: **Included**
 Time trend: **Not included**

ADF regressions: 5 lags
 LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-1.4706	
Adjusted t*	-1.1054	0.1345

```

13. gen lnfempart=ln(fempart)
14. gen ln_pib=ln(pib)
15. xtline fempart
16. xtline pib
17. ac fempart
    sample may not include multiple panels
    r(459);
18. ac fempart if ID==0
19. ac fempart if ID==1
20. pac fempart if ID==0
21. pac fempart if ID==1
22. xtline lnfempart
23. xtline ln_pib
24. ac lnfempart if ID==0
25. ac lnfempart if ID==1
26. pac lnfempart if ID==0
27. pac lnfempart if ID==1
28. xtunitroot llc lnfempart , lags(5)

```

Levin-Lin-Chu unit-root test for **lnfempart**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	60
AR parameter: Common	Asymptotics: N/T -> 0	
Panel means: Included		
Time trend: Not included		

ADF regressions: **5** lags
 LR variance: **Bartlett** kernel, **12.00** lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-2.7534	
Adjusted t*	-1.0359	0.1501

```

29. xtunitroot llc ln_pib , lags(5)

```

Levin-Lin-Chu unit-root test for **ln_pib**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	60
AR parameter: Common	Asymptotics: N/T -> 0	
Panel means: Included		
Time trend: Not included		

ADF regressions: **5** lags
 LR variance: **Bartlett** kernel, **12.00** lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-3.6320	
Adjusted t*	-3.0379	0.0012

30. xtunitroot llc ln_pib

Levin-Lin-Chu unit-root test for **ln_pib**

Ho: Panels contain unit roots
Ha: Panels are stationary

Number of panels = 2
Number of periods = 60

AR parameter: **Common**
Panel means: **Included**
Time trend: **Not included**

Asymptotics: **N/T -> 0**

ADF regressions: 1 lag

LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-5.4288	
Adjusted t*	-5.6760	0.0000

31. ac pib if ID==1

32. ac pib if ID==0

33. ac ln_pib if ID==1

34. ac ln_pib if ID==0

35. pac ln_pib if ID==1

36. pac ln_pib if ID==0

37. gen diflnfempart=d.lnfempart
(2 missing values generated)

38. gen difln_pib=d.ln_pib
(2 missing values generated)

39. gen dif2lnfempart=d2.lnfempart
(4 missing values generated)

40. gen dif2ln_pib=d2.ln_pib
(4 missing values generated)

41. ac diflnfempart if ID==0

42. ac diflnfempart if ID==1

43. ac diflnfempart if ID==1, LAGS(58)
option LAGS() not allowed
r(198);

44. ac diflnfempart if ID==1, lags(58)

45. xtunitroot llc diflnfempart

Levin-Lin-Chu unit-root test for **diflnfempart**

Ho: Panels contain unit roots
Ha: Panels are stationary

Number of panels = 2
Number of periods = 59

AR parameter: **Common**
Panel means: **Included**
Time trend: **Not included**

Asymptotics: **N/T -> 0**

ADF regressions: 1 lag

LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-3.9228	
Adjusted t*	-1.6502	0.0495

46. xtunitroot llc diflnfempart, lags(5)

Levin-Lin-Chu unit-root test for **diflnfempart**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	59

AR parameter: Common	Asymptotics: N/T -> 0
Panel means: Included	
Time trend: Not included	

ADF regressions: 5 lags

LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-1.8491	
Adjusted t*	1.5194	0.9357

47. pac diflnfempart if ID==0

48. pac diflnfempart if ID==1

49. ac difln_pib if ID==0

50. ac difln_pib if ID==0, lags(50)

51. xtunitroot llc diflnfempart, lags(5)

Levin-Lin-Chu unit-root test for **diflnfempart**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	59

AR parameter: Common	Asymptotics: N/T -> 0
Panel means: Included	
Time trend: Not included	

ADF regressions: 5 lags

LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-1.8491	
Adjusted t*	1.5194	0.9357

52. xtunitroot llc difln_pib , lags(5)

Levin-Lin-Chu unit-root test for **difln_pib**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	59

AR parameter: Common	Asymptotics: N/T -> 0
Panel means: Included	
Time trend: Not included	

ADF regressions: 5 lags

LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-2.4669	
Adjusted t*	1.3427	0.9103

53. ac difln_pib if ID==1

54. ac diflnfempart if ID==1

55. pac difln_pib if ID==1

56. pac difln_pib if ID==0

57. ac dif2lnfempart if ID=0

=exp not allowed

r(101);

58. ac dif2lnfempart if ID=0

=exp not allowed

r(101);

59. ac dif2lnfempart if ID==0

60. ac dif2lnfempart if ID==0, LAGS(58)

option LAGS() not allowed

r(198);

61. ac dif2lnfempart if ID==0, lags(58)

lags() too large; must be less than 58

r(498);

62. ac dif2lnfempart if ID==0, lags(50)

63. ac dif2lnfempart if ID==1, lags(50)

64. Pac dif2lnfempart if ID==0, lags(50)

command Pac not defined by Pac.ado

r(199);

65. pac dif2lnfempart if ID==0, lags(50)

lags() too large; must be less than 27

r(498);

66. pac dif2lnfempart if ID==0, lags(25)

67. pac dif2lnfempart if ID==1, lags(25)

68. xtunitroot llc dif2lnfempart , lags(5)

Levin-Lin-Chu unit-root test for **dif2lnfempart**

Ho: Panels contain unit roots

Number of panels = **2**

Ha: Panels are stationary

Number of periods = **58**

AR parameter: **Common**

Asymptotics: **N/T -> 0**

Panel means: **Included**

Time trend: **Not included**

ADF regressions: 5 lags

LR variance: **Bartlett** kernel, 12.00 lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-6.4297	
Adjusted t*	9.7170	1.0000

69. xtunitroot llc dif2lnfempart

Levin-Lin-Chu unit-root test for **dif2lnfempart**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	58

AR parameter: Common	Asymptotics: N/T -> 0
Panel means: Included	
Time trend: Not included	

ADF regressions: **1** lag
 LR variance: **Bartlett** kernel, **12.00** lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-10.4963	
Adjusted t*	-6.2956	0.0000

70. ac dif2ln_pib if ID==0, lags(50)

71. ac dif2ln_pib if ID==1, lags(50)

72. pac dif2ln_pib if ID==0, lags(50)
lags() too large; must be less than 27
r(498);

73. pac dif2ln_pib if ID==0, lags(25)

74. pac dif2ln_pib if ID==1, lags(25)

75. xtunitroot llc difln_pib

Levin-Lin-Chu unit-root test for **difln_pib**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	59

AR parameter: Common	Asymptotics: N/T -> 0
Panel means: Included	
Time trend: Not included	

ADF regressions: **1** lag
 LR variance: **Bartlett** kernel, **12.00** lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-4.3015	
Adjusted t*	-1.6378	0.0507

76. xtunitroot llc dif2ln_pib

Levin-Lin-Chu unit-root test for **dif2ln_pib**

Ho: Panels contain unit roots	Number of panels =	2
Ha: Panels are stationary	Number of periods =	58

AR parameter: Common	Asymptotics: N/T -> 0
Panel means: Included	
Time trend: Not included	

ADF regressions: **1** lag
 LR variance: **Bartlett** kernel, **12.00** lags average (chosen by **LLC**)

	Statistic	p-value
Unadjusted t	-11.3199	
Adjusted t*	-7.5093	0.0000

77. pvar dif2lnfempart difln_pib

Panel vector autoregresssion

GMM Estimation

Final GMM Criterion Q(b) = **4.95e-34**

Initial weight matrix: **Identity**

GMM weight matrix: **Robust**

No. of obs = **112**
 No. of panels = **2**
 Ave. no. of T = **56.000**

	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
dif2lnfempart						
dif2lnfempart L1.	-.2804086	.1505683	-1.86	0.063	-.5755171	.0146999
difln_pib L1.	.0488294	.0369797	1.32	0.187	-.0236495	.1213082
difln_pib						
dif2lnfempart L1.	-.4162052	.3639909	-1.14	0.253	-1.129614	.2972039
difln_pib L1.	.4637817	.1141975	4.06	0.000	.2399587	.6876047

Instruments : **1(1/1).(dif2lnfempart difln_pib)**

78. pvargranger

panel VAR-Granger causality Wald test

Ho: Excluded variable does not Granger-cause Equation variable

Ha: Excluded variable Granger-causes Equation variable

Equation \ Excluded	chi2	df	Prob > chi2
dif2lnfempart			
difln_pib	1.744	1	0.187
ALL	1.744	1	0.187
difln_pib			
dif2lnfempart	1.307	1	0.253
ALL	1.307	1	0.253

79. pvar dif2lnfempart dif2ln_pib

Panel vector autoregresssion

GMM Estimation

Final GMM Criterion Q(b) = **1.25e-33**

Initial weight matrix: **Identity**

GMM weight matrix: **Robust**

No. of obs = **112**
 No. of panels = **2**
 Ave. no. of T = **56.000**

	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
dif2lnfempart dif2lnfempart L1.	-.2744078	.1468706	-1.87	0.062	-.5622688	.0134533
dif2ln_pib L1.	.0512427	.0269388	1.90	0.057	-.0015564	.1040417
dif2ln_pib dif2lnfempart L1.	-.4691159	.4579581	-1.02	0.306	-1.366697	.4284656
dif2ln_pib L1.	-.5877064	.0825598	-7.12	0.000	-.7495206	-.4258922

Instruments : 1(1/1).(dif2lnfempart dif2ln_pib)

80. pvargranger

panel VAR-Granger causality Wald test

Ho: Excluded variable does not Granger-cause Equation variable

Ha: Excluded variable Granger-causes Equation variable

Equation \ Excluded	chi2	df	Prob > chi2
dif2lnfempart			
dif2ln_pib	3.618	1	0.057
ALL	3.618	1	0.057
dif2ln_pib			
dif2lnfempart	1.049	1	0.306
ALL	1.049	1	0.306

81. bootstrap_irf

command bootstrap_irf is unrecognized

r(199);

82. bootstrap_pvarirf

command bootstrap_pvarirf is unrecognized

r(199);

83. pvarirf step (15), impulse(dif2lnfempart) response (dif2ln_pib), level(95)

varlist not allowed

r(101);

84. pvarirf impulse(dif2lnfempart) response (dif2ln_pib), level(95)

varlist not allowed

r(101);

85. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)

variable dif2ln_pib not found

(error in option response())

r(111);

86. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)

```

87. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib), level (95)
   invalid 'level'
   r(198);

88. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib), level(95)
   invalid 'level'
   r(198);

89. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib), mc(95)
   invalid 'mc'
   r(198);

90. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)

91. pvarirf, step(20) impulse(dif2ln_pib) response(dif2lnfempart)

92. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)

93. table
   varlist required
   r(100);

94. table pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)
   variable pvarirf not found
   r(111);

95. pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)

96. pvarirf impulse(dif2lnfempart) response(dif2ln_pib), level(95)
   varlist not allowed
   r(101);

97. pvarirf, impulse(dif2lnfempart) response(dif2ln_pib), level(95)
   invalid 'level'
   r(198);

98. pvarirf, impulse(dif2lnfempart) response(dif2ln_pib), oirf
   invalid 'oirf'
   r(198);

99. oirf impulse(dif2lnfempart) response(dif2ln_pib)
   command oirf is unrecognized
   r(199);

100 search pvarirf

101 pvarirf, [impulse(dif2lnfempart) response(dif2ln_pib), oirf]
   invalid 'oirf'
   r(198);

102 ssc install http://www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp:
   ssc install: "http://www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp:" not
> found at SSC, type //www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp:
(To find all packages at SSC that start with h, type ssc describe h)
   r(601);

103 http://www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp:
   command http is unrecognized
   r(199);

```

```

104 http://www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp
    command http is unrecognized
    r(199);

105 ssc install www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp:
    ssc install: "www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp:" not found a
    > t SSC, type {stata search www.stata-journal.com/software/sj16-3/st0455/pvarirf.sthlp
    > :}
    (To find all packages at SSC that start with w, type ssc describe w)
    r(601);

106 ssc install oirf
    ssc install: "oirf" not found at SSC, type search oirf
    (To find all packages at SSC that start with o, type ssc describe o)
    r(601);

107 search oirf

108 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)

109 pvarirf table pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)
    varlist not allowed
    r(101);

110 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib)

111 table
    varlist required
    r(100);

112 pvarirf table
    varlist not allowed
    r(101);

113 pvarirf table, dif2lnfempart dif2ln_pib
    varlist not allowed
    r(101);

114 search pvarirf

115 ssc install st0455/pvargranger.sthlp
    ssc install: "st0455/pvargranger.sthlp" not found at SSC, type search st0455/pvargrang
    > er.sthlp
    (To find all packages at SSC that start with s, type ssc describe s)
    r(601);

116 install st0455/pvargranger.sthlp
    command install is unrecognized
    r(199);

117 search st0455/pvargranger.sthlp

118 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) oirf

119 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) table

```

IRF

Response variable and Forecast horizon	Impulse variable dif2lnfempart
dif2ln_pib	
0	0
1	-.4691159
2	.4044314
3	-.2617342
4	.1506996
5	-.0814183

6	.0422657
7	-.0213503
8	.0105741
9	-.0051597
10	.0024887
11	-.0011894
12	.0005642
13	-.000266
14	.0001248
15	-.0000583
16	.0000271
17	-.0000126
18	5.82e-06
19	-2.69e-06
20	1.24e-06

```

120 pvarirf, step(15) impulse(dif2lnfempart) response(dif2ln_pib) level(95)
121 pvarirf, step(15) impulse(dif2lnfempart) response(dif2ln_pib) mc(50)
122 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) mc(50)
123 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) mc(50)
124 graph export "C:\Users\labnegocios10\Documents\irf.png", as(png) name("Graph")
    (file C:\Users\labnegocios10\Documents\irf.png written in PNG format)
125 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) mc(50) table

```

IRF

Response variable and Forecast horizon	Impulse variable dif2lnfempart
dif2ln_pib	
0	0
1	-.4691159
2	.4044314
3	-.2617342
4	.1506996
5	-.0814183
6	.0422657
7	-.0213503
8	.0105741
9	-.0051597
10	.0024887
11	-.0011894
12	.0005642
13	-.000266
14	.0001248
15	-.0000583
16	.0000271
17	-.0000126
18	5.82e-06
19	-2.69e-06
20	1.24e-06

```

126 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) mc(50) dots
    _____ 1 _____ 2 _____ 3 _____ 4 _____ 5
    ..... 50

127 pvarirf mc(50)
    varlist not allowed
    r(101);

128 pvarirf dif2lnfempart dif2ln_pib mc(50)
    varlist not allowed
    r(101);

129 pvarirfm dif2lnfempart dif2ln_pib mc(50)
    command pvarirfm is unrecognized
    r(199);

130 pvarirf, dif2lnfempart dif2ln_pib mc(50)
    option dif2lnfempart not allowed
    r(198);

131 pvarirf, mc(50)

132 pvarfevd

```

Forecast-error variance decomposition

Response variable and Forecast horizon	Impulse variable	
	dif2lnfempart	dif2ln_pib
dif2lnfempart		
0	0	0
1	1	0
2	.9686244	.0313756
3	.9465521	.0534479
4	.9376799	.0623201
5	.934816	.065184
6	.9339929	.0660071
7	.9337732	.0662268
8	.9337175	.0662825
9	.9337039	.0662961
10	.9337006	.0662994
dif2ln_pib		
0	0	0
1	.0802252	.9197748
2	.1177987	.8822013
3	.1332181	.8667819
4	.1385999	.8614001
5	.1402628	.8597372
6	.1407318	.8592682
7	.1408557	.8591443
8	.1408868	.8591132
9	.1408944	.8591056
10	.1408962	.8591039

```

133 pvarfevd, impulse(dif2lnfempart) response(dif2ln_pib)

```

Forecast-error variance decomposition

Response variable and Forecast horizon	Impulse variable dif2lnfempart
dif2ln_pib	
0	0
1	.0802252
2	.1177987
3	.1332181
4	.1385999
5	.1402628
6	.1407318
7	.1408557
8	.1408868
9	.1408944
10	.1408962

```

134 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) oirf mc(50)
135
136
137 graph export "C:\Users\labnegocios10\Documents\oirf.png", as(png) name("Graph")
    (file C:\Users\labnegocios10\Documents\oirf.png written in PNG format)
138 pvarirf, step(20) impulse(dif2lnfempart) response(dif2ln_pib) oirf mc(50) table
    Orthogonalized IRF

```

Response variable and Forecast horizon	Impulse variable dif2lnfempart
dif2ln_pib	
0	.0095339
1	-.0098142
2	.0066942
3	-.0039525
4	.002167
5	-.0011358
6	.0005776
7	-.0002875
8	.0001408
9	-.0000681
10	.0000326
11	-.0000155
12	7.32e-06
13	-3.44e-06
14	1.61e-06
15	-7.49e-07
16	3.48e-07
17	-1.61e-07
18	7.44e-08
19	-3.43e-08
20	1.58e-08

139 pvar dif2lnfempart dif2ln_pib

Panel vector autoregresssion

GMM Estimation

Final GMM Criterion Q(b) = **1.25e-33**

Initial weight matrix: **Identity**

GMM weight matrix: **Robust**

No. of obs = **112**
 No. of panels = **2**
 Ave. no. of T = **56.000**

	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
dif2lnfempart						
dif2lnfempart L1.	-.2744078	.1468706	-1.87	0.062	-.5622688	.0134533
dif2ln_pib L1.	.0512427	.0269388	1.90	0.057	-.0015564	.1040417
dif2ln_pib						
dif2lnfempart L1.	-.4691159	.4579581	-1.02	0.306	-1.366697	.4284656
dif2ln_pib L1.	-.5877064	.0825598	-7.12	0.000	-.7495206	-.4258922

Instruments : **1(1/1).(dif2lnfempart dif2ln_pib)**

140 tsappend, add(2)

(4 real changes made)

141 predict ln_PIBPC_hat , y

option y not allowed

r(198);

142 predict ln_PIBPC_hat, y

option y not allowed

r(198);

143 predict ln_PIBPC_hat

(8 missing values generated)

144 xtline (dif2ln_pib ln_PIBPC_hat)

145 xtline (ln_pib ln_PIBPC_hat)

146 log close

name: **<unnamed>**

log: **C:\Users\labnegocios10\Documents\proyectofinal.smcl**

log type: **smcl**

closed on: **24 Nov 2021, 18:59:15**