

2001. 5

LG

가

< >

, , , 가

, , .

, 가 .

4가

가 가 .

, , , 가 , , .

가

가

가 , .

가

가

가

, . , .

가

가 가

, , 가 가 .

, 가 , , 가, , , 가

6

가

.

6

10 가 , 10

가 12

	(:)				
	1	6	12		
10	27.4	58.2	52.4	가	
1%	8.9	33.8	33.9		
가 1%	32.4	28.2	31.5	가	
1%p	14.9	28.7	28.6		
(M1) 1%	2.5	4.1	4.1		
1%	-0.15	-3.9	-3.9		
(M1) 1%	5.9	-3.5	-4.6		
0.25%p	-2.7	-5.6	-5.4		
100p	-1	-5.8	-6.1	가	가
10	-4.4	-8.1	-8.4	가	가
10	-7.9	-12.8	-11.4	가	
100p	-4	-15.9	-16.7	가	가
10	-0.4	-15.9	-26.7	가	
가 1%	-34.1	-30.8	-35.6	가	
가 100p	-13.6	-54.8	-58.5	가	가

: 1992 1 2001 3 , 가 ,

, , 가

가 100p 12 가 (-58.5), (-16.7), (-6.1) , 가 (-21.4), (-11.8) , (-7.0)

< >

< >

. .1

. .2

1. .2

2. .5

. .9

1. < 1> .9

2. < 2> 가 .18

3. < 3> .20

4. < 4> 가 .23

. .28

< 1> . 30

< 2> . 33

1. VAR (1) .33

2. 가 VAR (2) .34

3. VAR (3) .35

4. VAR (4-1) .36

5. VAR (4-2) .37

6. 가 VAR (4-3) .38

7. VAR (4-4) .39

< >.40

< . >

< 1>	.8		
< 2>			.29
< 3>	.31		
< 4>		ADF	.32
< II-1>			.5
< II-2>	가	가	.6
< II-3>			.7
< II-4>	가		.7
< III-1>		1%	.10
< III-2>		0.25%p	.12
< III-3>		1%	.13
< III-4>		1%	.14
< III-5>		1%p	.16
< III-6>		1%	.17
< III-7>		가 1%	.19
< III-8>		가 1%	.19
< III-9>		10	.21
< III-10>		10	.22
< III-11>		10	.23
< III-12>		100p	.24
< III-13>		100p	.25
< III-14>	가	100p	.26
< III-15>		10	
	.27		

2000 1 10 1,100~1,130 11
 2001 4 1,360
 2001 5 1,300

가

가

가

가

,
 가

, , , 가

가 VAR , 가 , , 가 4
 , , , 가 , , 가 ,

1.

1

1970

가

가

가

² 가

3

가

¹ (1998), pp250~296

² Frankel(1980)

가

³ Frankel(1980)

가

Frankel(1983)

Frenkel(1976, 1977, 1980), Mussa(1976), Girton Roper(1977), Hodrick(1978), Bilson(1978a, 1978b), Dornbusch(1976, 1980)

가 가 가 가 가
 가 가 가 가 가
 가 가 가 가 가
 가 가 가 가 가

$$(1) S_t = \frac{P_t}{P_t^*}$$

S_t ,
 P_t 가 ,
 P_t^* 가

(2) (3)
 , P_t, P_t^* (1) S_t
 (4)

$$(2) P_t Y_t = M_t V_t$$

$$(3) P_t^* Y_t^* = M_t^* V_t^*$$

$$(4) S_t = \frac{Y_t^*}{Y_t} \frac{M_t}{M_t^*} \frac{V_t}{V_t^*}$$

$$\begin{aligned}
 M_t, M_t^* & \\
 Y_t, Y_t^* & \\
 V_t, V_t^* &
 \end{aligned}$$

(5) 가 ,
(6)

$$(5) V_t = Y_t^{l+1} e^{qi}$$

$$(6) V_t^* = Y_t^{*l+1} e^{qi^*}$$

$$\begin{aligned}
 l & \\
 q & \\
 i & \\
 i^* &
 \end{aligned}$$

(5) (6) (4) (7)
(8)

$$(7) S_t = \left(\frac{Y_t^*}{Y_t} \right)^l \frac{M_t}{M_t^*} e^{q(i_t - i_t^*)}$$

$$(8) s_t = (m_t - m_t^*) - l(y_t - y_t^*) + q(i_t - i_t^*)$$

가 .⁴
가
가 가
가 가

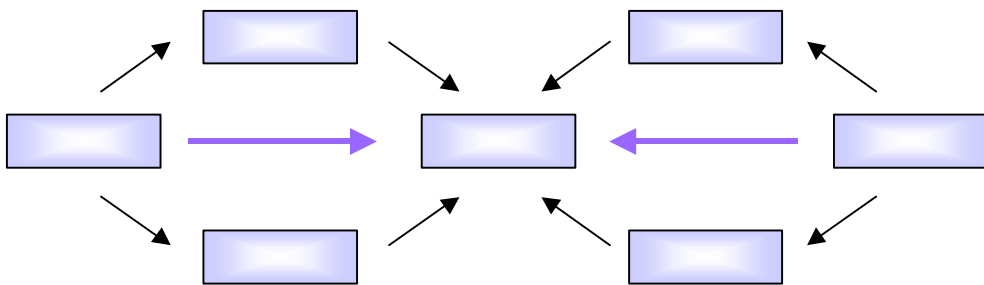
⁴ (1998), p.273

가
 , 가 가
 , 가 가

2.

가 VAR
 , ,
 가
 가 , , , 가
 가
 VAR ,
 , , , , ,
 .

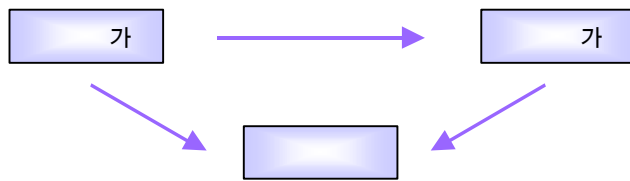
< II-1 >



) (, ,)

가 ,
 가 .
 가 ,
 가 .
 가 ,
 가 ,
 가 .
 가 ,
 가 ,
 가 .
 가 ,
 가 .

< II-2> 가 가

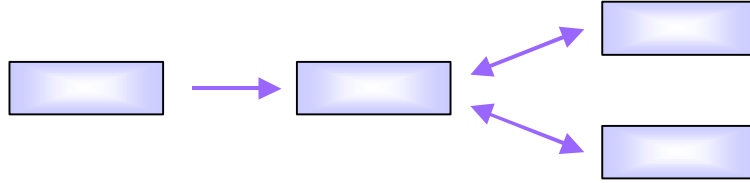


가

가

가

< II-3>



가

, , 가 ,

가

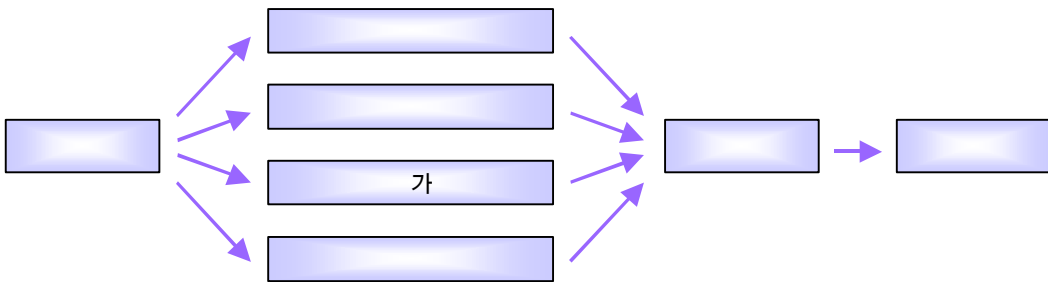
가

,

가

, 가 , 가 , 가

< 2-4> 가



VAR < 1> .

< 1>

VAR
1()
2(가) 가 가
3()
4-1(가)
4-2(가)
4-3(가) 가
4-4(가)

1. < 1 >

VAR

M1

M2 ⁵

M1 ⁶

가 1992 1 2001 3

1998 1 2001 3

가

VAR < III-1 > 가

1% 가 1 5.90

, 6 3.50 , 12 4.60

⁵ (M2)가 1979 1997 , 가

⁶ Frankel(1997), p.84, p.107

가 11

가 1
가 가

➤	1998 1	2001 3	가가
-	12	33.40	1% 가 1 5.50 , 6 33.40 ,
		6	

1998 1 2001 3 가가

33.40 , 12 33.40 1% 가 1 5.50 , 6 6

VAR

< III-2>

0.25%p 1 2.70 , 3

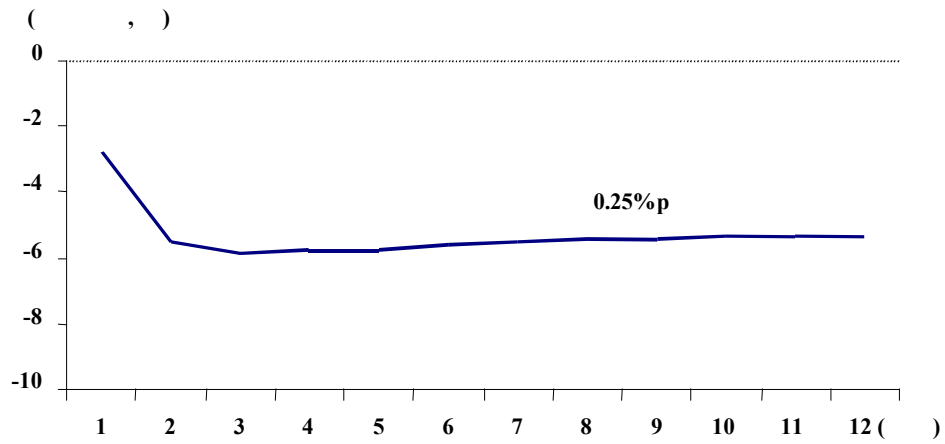
5.90 , 6 5.60 , 12 5.40

가 ,

11 < 2-3>

3 2

< III-2> 0.25%p



: 1. (M1) FFR (M1) VAR
 2. VAR Schwarz 1
 3. 1992:1~2001:3
 4. % (1 =845)

12, 가 14, 가

1998 1	2001 3	가
16.50 , 6	7.30 , 12	0.25%p
	5.00	1 6.50 , 3

¹² < 2-1> 4 2 .
¹³ < 2-1> 5 2 .
¹⁴ < 2-1> 6 2 .

가

VAR

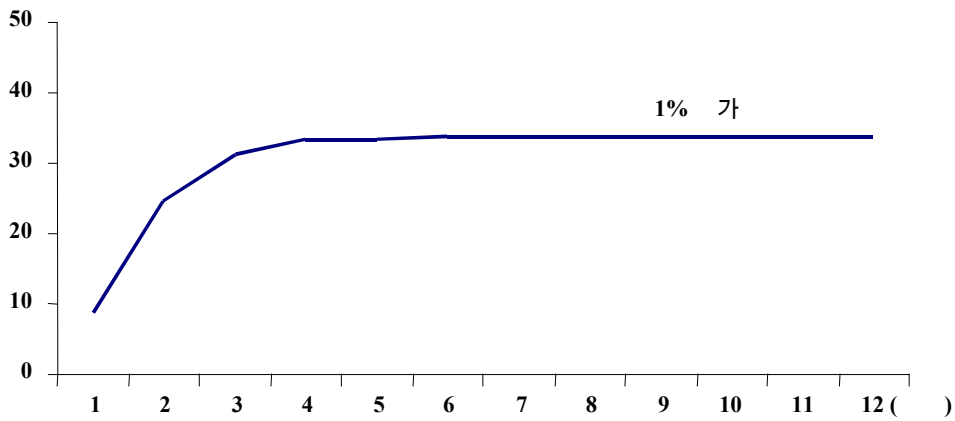
< III-3>

33.80 , 12 1% 33.90 1 8.90 , 6
6

< III-3>

1%

(,)



1. (M1) FFR

(M1)
VAR

2. VAR

Schwarz

1

3. 1992:1~2001:3

4. %

(1 =845)

가

가

가

가¹⁷

가¹⁵,

16,

¹⁵ < 2-1>

4 3

¹⁶ < 2-1>

5 3

¹⁷ < 2-1>

6 3

가 , .

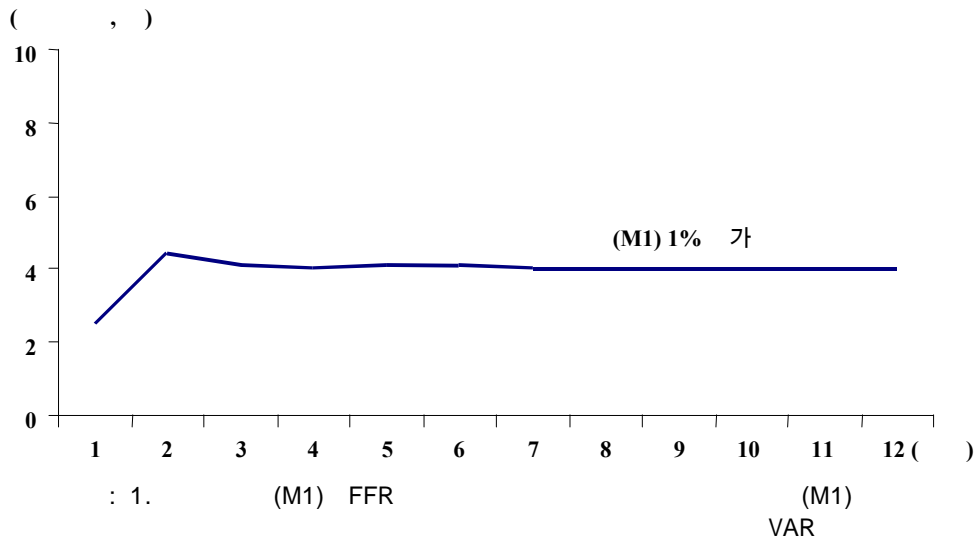
➤	1998	1	2001	3
-	20.60	,6	12.70	,12
			13.40	
			1%	1
				11.10 , 2

가

VAR 가

< III-4 > .

< III-4 > (M1) 1% 가



- 1. (M1) FFR (M1) VAR
- 2. VAR Schwarz 1
- 3. 1992:1~2001:3
- 4. % (1 =845)

(M1) 1% 가 1 2.50 , 2
4.50 , 6 4.10 , 12

4.10 6 .

가 가 ,

가 가 가

18

19

➤	1998 1	2001 3	가
-	10.10 , 6	9.90 , 12	가 1% 1 2.50 , 4
		9.80	6

VAR

< III-5>

28.70 , 12 1%p 28.60 1 14.90 , 6 6

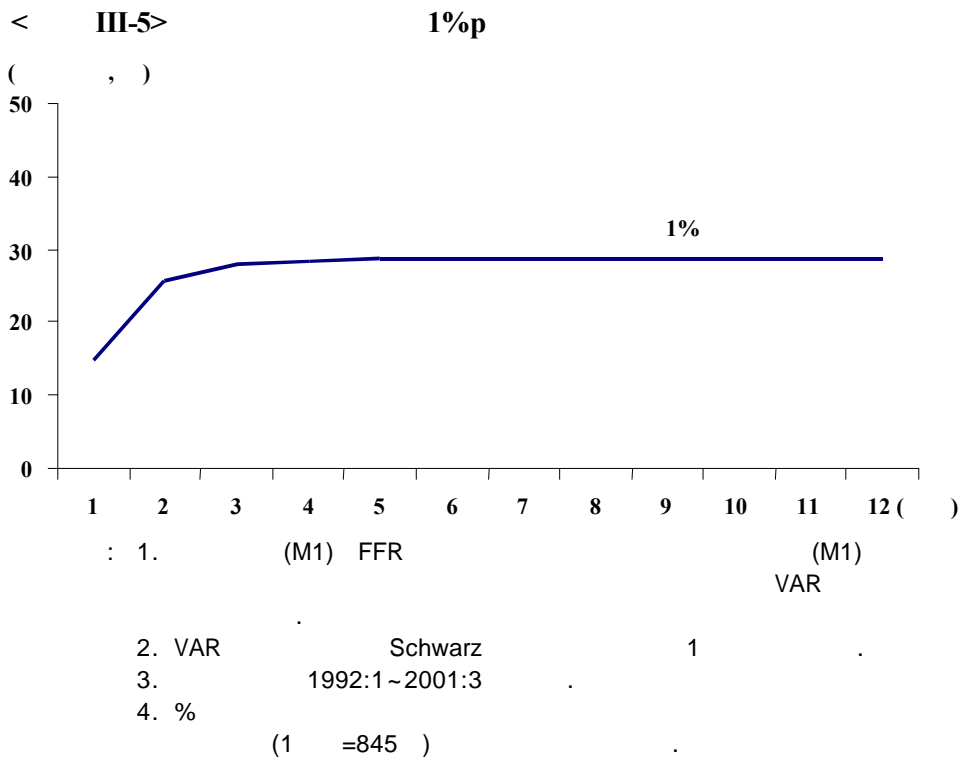
가

¹⁸ < 2-1>

5 4

¹⁹ < 2-1>

6 4



1998	1	2001	3
22.60	, 6	20.40	, 12
		20.30	
		1%p	
			12.90 , 2
			6

가

(1997)²⁰

가
가
가

VAR

, GARCH

1995

²⁰

1992.1.3~1996.12.31
2~3

VAR

(1997)²¹

M1

M2

가

(1999)²²

가

(ECM)

가

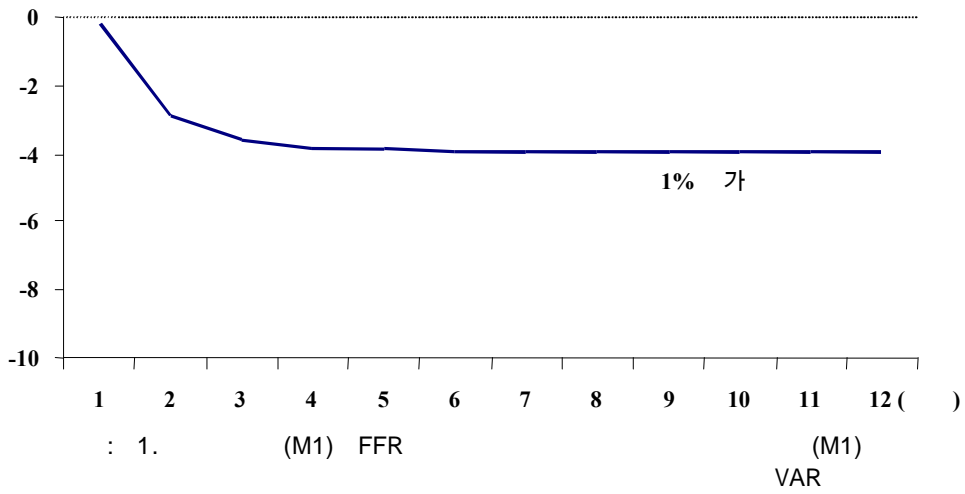
VAR

< III-6 >

< III-6 >

1%

(,)



2. VAR

Schwarz

1

3.

1992:1~2001:3

4. %

(1 =845)

²¹

가

, GDP deflator

1960~1995

M2

²²

1980.1~1999.6

(M1)

ECM

,3

3.60 ,12 1% 1 0.15 , 3
 3.90 .
 가 가
 가 , 가

➤	1998 1	2001 3	가
			가
		1%	1 1.00 , 6
	3.00 ,12 2.90		

2. < 2> 가

가 가 , 가 ,
 VAR .

가 1992 1 2001 3

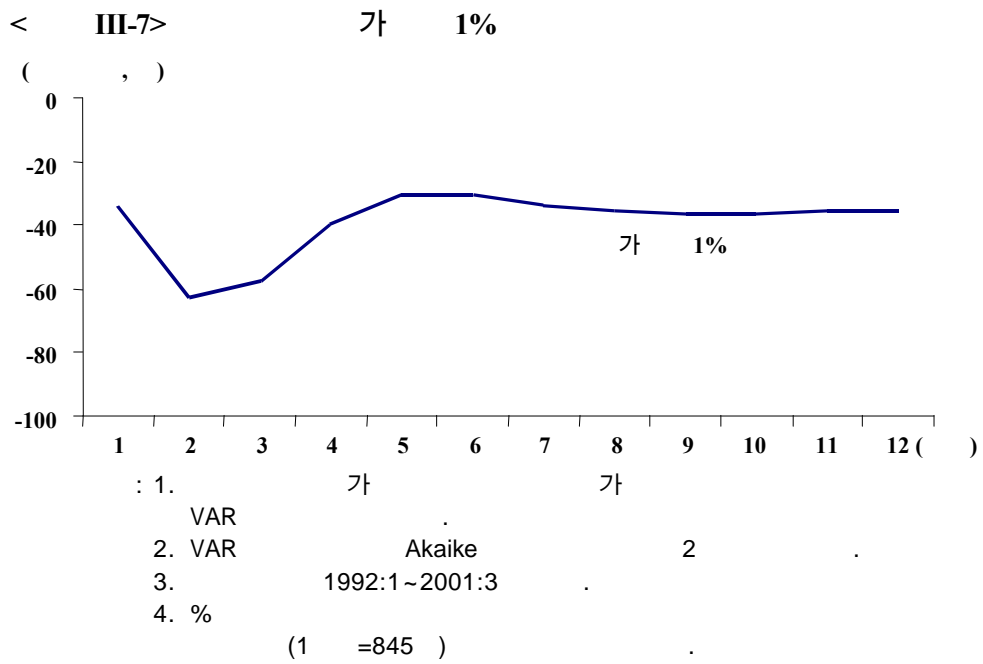
가

가 VAR

< III-7> .

가 1% 1 34.10 , 2
 62.90 , 6 30.80 , 12
 35.60 .

가 가 가 가
 ,
 가 .

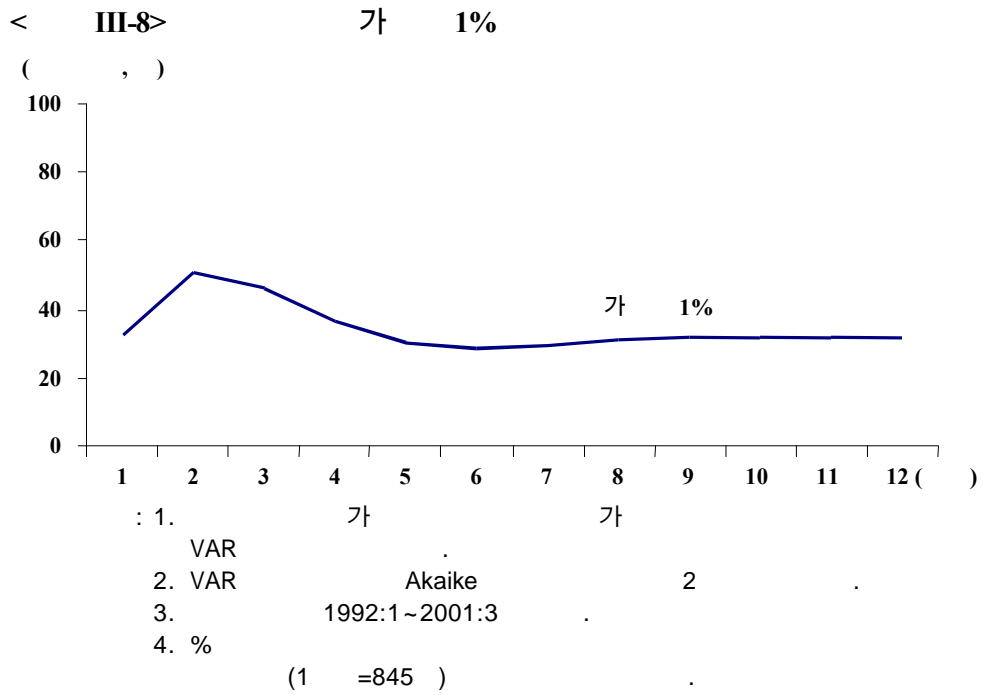


가

가 VAR

가

< III-8> .



가 1%

1 32.40 , 2

50.70 , 6 28.20 , 12
31.50 .

가 가 가 가

3. < 3 >

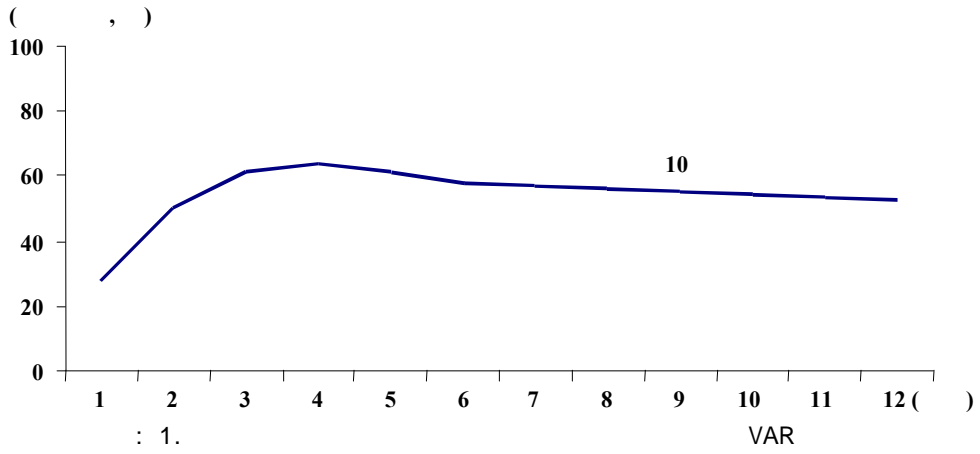
가
가

가 1992 1 2001 3

VAR

< III-9 >

< III-9> 10



2. VAR Akaike 2
 3. 1992:1~2001:3
 4. % (1 =845), (1 113)

10 1 27.40 , 4
 63.70 , 6 58.20 , 12 52.40

가 가

가

²³,

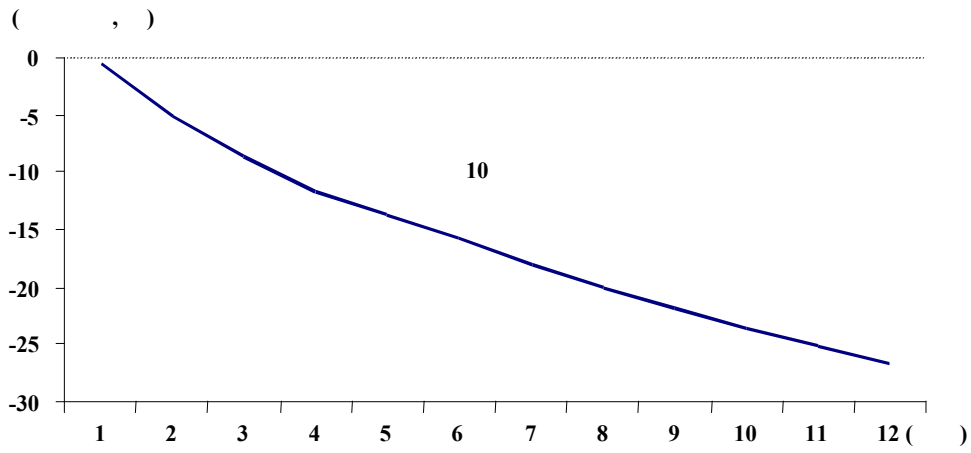
²⁴.

VAR

< III-10>

²³ < 2-3> 3 1 .
²⁴ < 2-3> 4 1 .

< III-10> 10



: 1. VAR

2. VAR Akaike 2

3. 1992:1~2001:3

4. % (1 =845)

10 1 0.40 , 3 8.60
 ,6 15.90 ,12 26.70

가 가

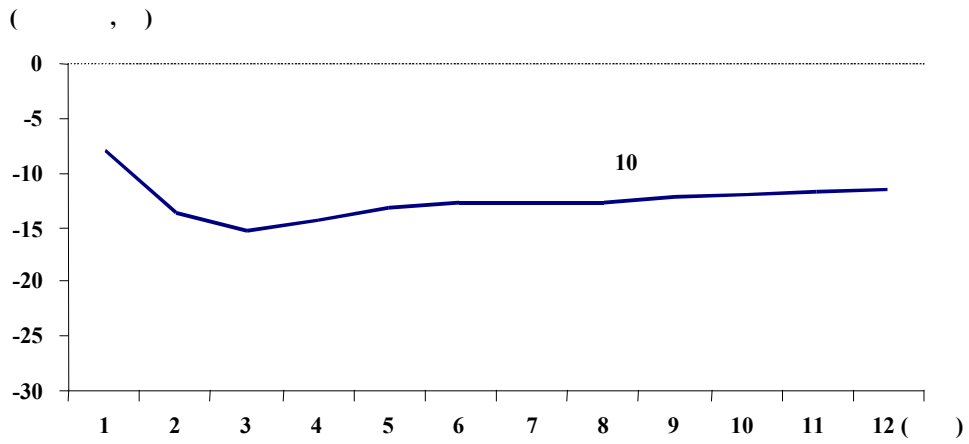
VAR

< III-11>

10 1 7.90 , 3
 15.30 , 6 12.80 , 12 11.40

가 가

< III-11> 10



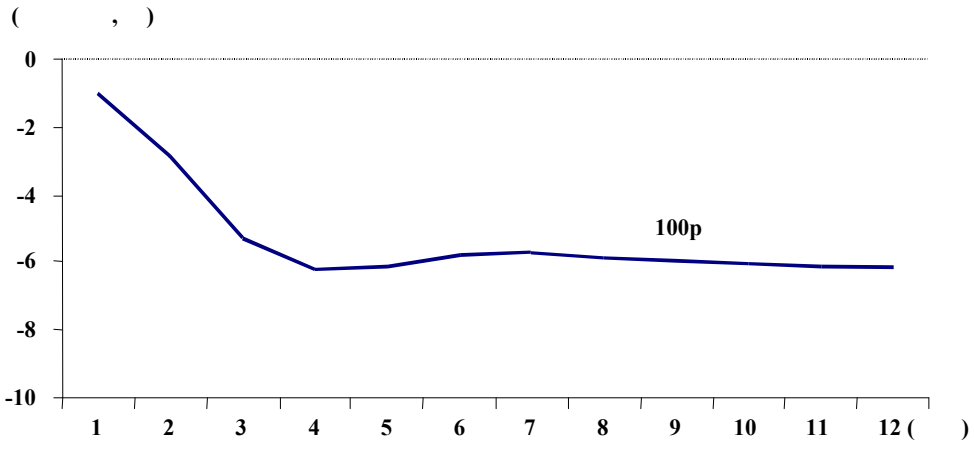
: 1. VAR
 2. VAR Akaike 2
 3. 1992:1~2001:3
 4. %
 (1 =845)

4.< 4> 가

VAR , 가 ,
 , 가 ,
 가 .
 가 1992 1 2001 3

< III-12> .

< III-12> 100p



- 1. VAR
- 2. VAR Akaike 2
- 3. 1992:1~2001:3
- 4. % (1 =845) (6568p)

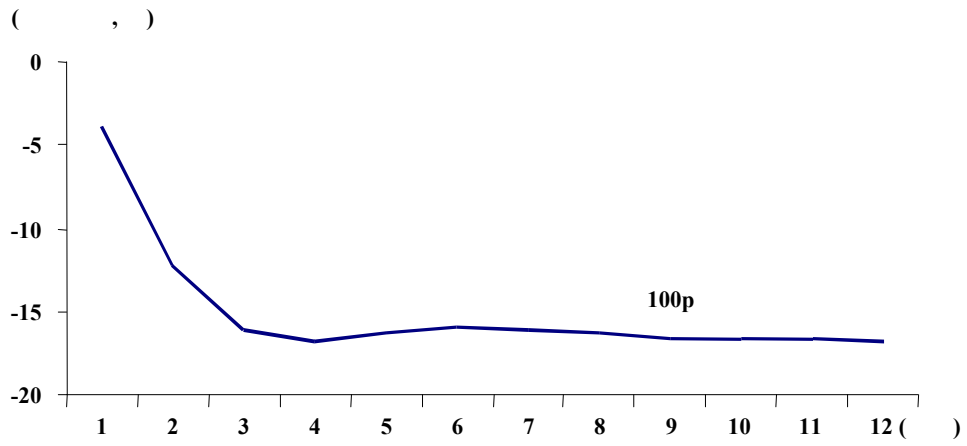
6.20 , 6 100p 5.80 , 12 6.10 1 1.00 , 4 4

가

➤	1998	1	2001	3	,	100p
	1	2.30 , 3	6.90 , 6	6.90 , 12		7.00

< III-13> .

< III-13> 100p



- 1. VAR
- 2. VAR Akaike 2
- 3. 1992:1~2001:3
- 4. % (1 =845) (1571p)

16.80 , 6 100p 1 4.00 4
 15.90 , 12 16.70 4

가

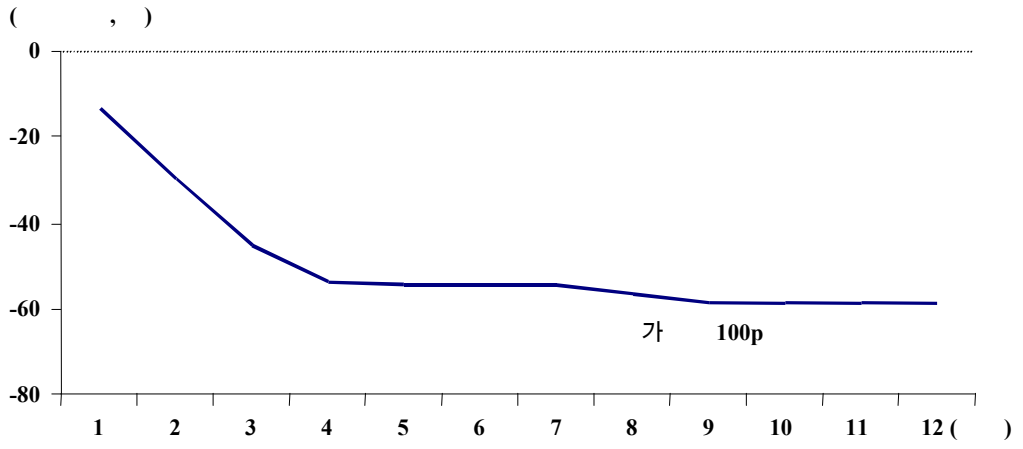
➤	1998	1	2001	3		100p
	1	2.70 , 4	11.70 , 6	11.70 , 12		11.80

가

가

< III-14> .

< III-14> 가 100p



: 1. 가
 2. VAR Akaike 3
 3. 1992:1~2001:3
 4. %
 (1 =845) 가 (729p)

가 100p 1 13.60 , 3
 45.30 , 6 54.80 , 12 58.50 6

가 가 가

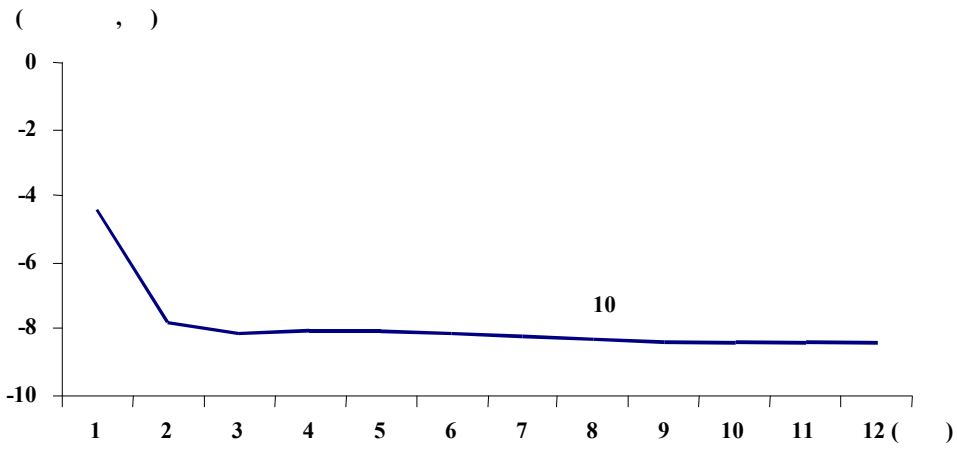
기간	1998 1	2001 3	가 100p
1	7.10 , 3	21.40 , 6	21.40 , 12 21.40

가 VAR

< III-15>

< III-15 >

10



: 1.

VAR
 2. VAR Akaike 2
 3. 1992:1~2001:3
 4.
 (1 =845) (16.71)

10 1 4.40 , 6
 8.10 , 12 8.40 6

➤	1998	1	2001	3		10
		1	3.50	, 6	12.20	, 12 12.20

.

4가

4가

가 가

.

가

가

가

가

가

가

가

가

가

가 가

가 가

가

가

가

6

가

6

10

10

가

가

< 2 >

	(:)				
	1	6	12		
10	27.4	58.2	52.4	가	
1%	8.9	33.8	33.9		
가 1%	32.4	28.2	31.5	가	
1%p	14.9	28.7	28.6		
(M1) 1%	2.5	4.1	4.1		
1%	-0.15	-3.9	-3.9		
(M1) 1%	5.9	-3.5	-4.6		
0.25%p	-2.7	-5.6	-5.4		
100p	-1	-5.8	-6.1	가	가
10	-4.4	-8.1	-8.4	가	가
10	-7.9	-12.8	-11.4	가	
100p	-4	-15.9	-16.7	가	가
10	-0.4	-15.9	-26.7	가	
가 1%	-34.1	-30.8	-35.6	가	
가 100p	-13.6	-54.8	-58.5	가	가

: 1992 1 2001 3 , 가 , , 가

가 100p 12 가 (-58.5), (-16.7), (-6.1), 가 (-21.4), (-11.8), (-7.0)

< 1 >

(1)

가 , , , 가,
가 .

: , , ,
가 ,

: , , , 가 ,

: , , 가 ,

1992 1 2001 3 .

가 , ARIMA-
X12 .

(2)

VAR 가
(bias) 가 가 .

ADF (Augmented Dickey-Fuller Test)

< 4 > .

(M1),

26가
(M1) (M1)

(3)

VAR < 3> 1
, 가 2 , 가
가 < 4-3> 3 ,
2
AIC , AIC 가
SIC
< 3>

		1	2	3	4	
		-25.53**	-24.60	-23.37	-22.06	1
가		-22.38	-22.43*	-22.43	-22.35	2
		24.92	24.68*	24.78	24.86	2
가	4-1	-5.51	-5.58*	-5.51	-5.27	2
가	4-2	-4.13	-4.23*	-4.22	-3.99	2
가	4-3	-3.87	-4.05	-4.08*	-4.01	3
가	4-4	-0.59	-0.69*	-0.68	-0.55	2

: 1. * Akaike Informatation Criteria
2. ** Schwarz Informatation Criteria

25

26

가

가

가

가

< 4 >

ADF

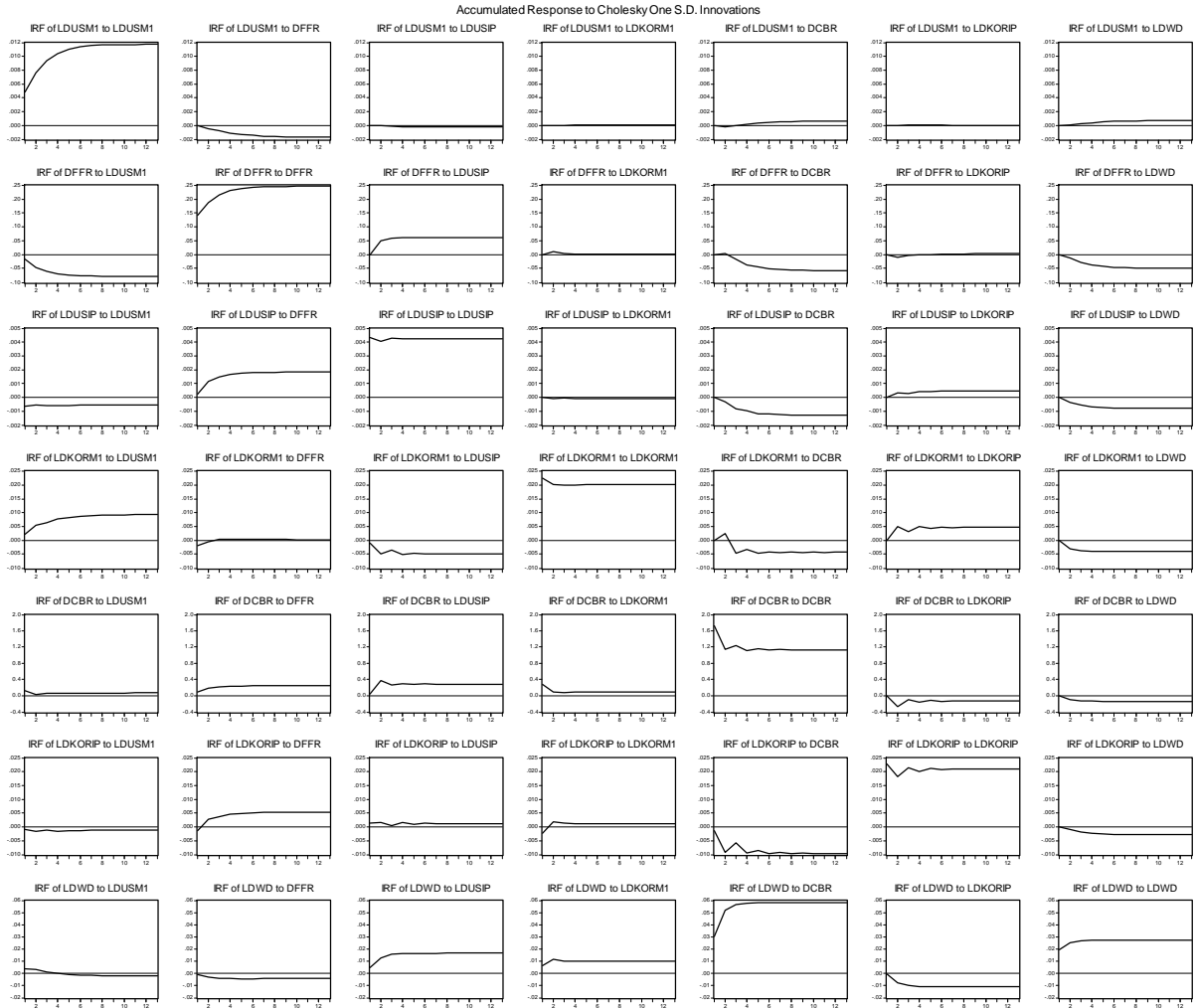
	1	2	3	4
(WD)	-2.0013	-1.1403	-1.2837	-1.1134
(LDWD)	-7.6662***	-5.7067***	-5.4994***	-4.3501***
(YD)	-2.2094	-2.1130	-2.2226	-1.8851
(LDYD)	-6.1393***	-4.9244***	-5.7504***	-5.4080***
가(USCPI)	1.0851	1.2992	1.1181	1.0771
(LDUSCPI)	-8.6997***	-5.1945***	-4.3440***	-3.6440***
가(KORCPI)	-0.7751	-0.7863	-0.7472	-0.7098
(LDKORCPI)	-5.9814***	-5.5247***	-4.7525***	-4.2261***
(USM1)	-3.9139***	-3.8254***	-3.3417**	-3.3310**
(LDUSM1)	-4.5489***	-3.0820**	-2.8536*	-2.4034
(KORM1)	-1.0635	-1.0262	-1.1725	-1.1219
(LDKORM1)	-7.0178***	-4.9317***	-3.6024***	-3.2847**
(FFR)	-1.3045	-1.7952	-2.3190	-2.3210
(DFFR)	-4.1184***	-2.8254*	-2.5703	-2.5987*
(CBR)	-2.4950	-2.4081	-2.4950	-2.5283
(DCBR)	-8.8394***	-6.4655***	-5.3963***	-4.5226***
(USIP)	-0.2707	-0.2054	-0.2732	-0.2688
(LDUSIP)	-6.7324***	-4.5886***	-4.3640***	-3.2633**
(KORIP)	0.5627	0.3008	0.0956	0.1012
(LDKORIP)	-7.6402***	-4.9751***	-4.3459***	-4.1863***
(DOW)	-0.4926	-0.4697	-0.3227	-0.2678
(LDDOW)	-7.6039***	-6.6102***	-6.0159***	-4.8422***
(NAS)	-1.2957	-1.3988	-1.3400	-1.4024
(LDNAS)	-6.1678***	-5.1203***	-4.1729***	-3.9845***
가(KOS)	-2.0743	-1.8335	-1.8372	-1.7343
(LDKOS)	-7.3211***	-6.1772***	-5.8750***	-4.7642***
(FSB)	-1.8890	-1.2692	-1.2251	-1.3789
(LDFSB)	-8.6745***	-6.8076***	-6.8184***	-7.2757***
(TA)	-1.6648	-1.3146	-1.5964	-1.4998
(CAA)	-4.3918***	-3.6193***	-3.4802**	-3.9901***

: ***, **, * Mackinnon

1%, 5%, 10%

< 2 >

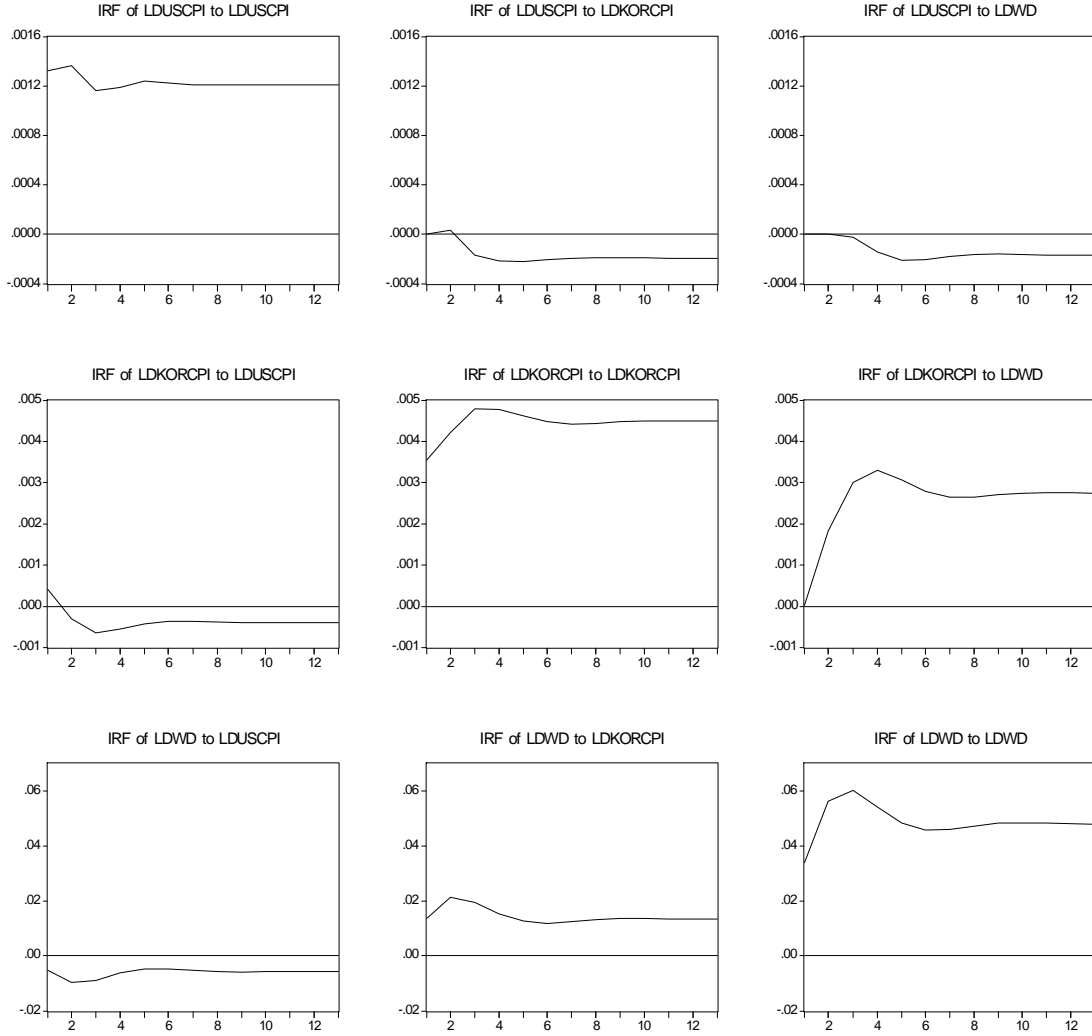
1. VAR (1)



: 1. VAR	(LDUSM1)	(DFFR)	(LDUSIP)
	(LDKORM1)	(DCBR)	(LDWD)
2.			
2-1 가		1	(i=1,2,3,4,5,6,7)
2-2 가		i	1
2-3 가	가	가	가

2. 가 VAR (2)

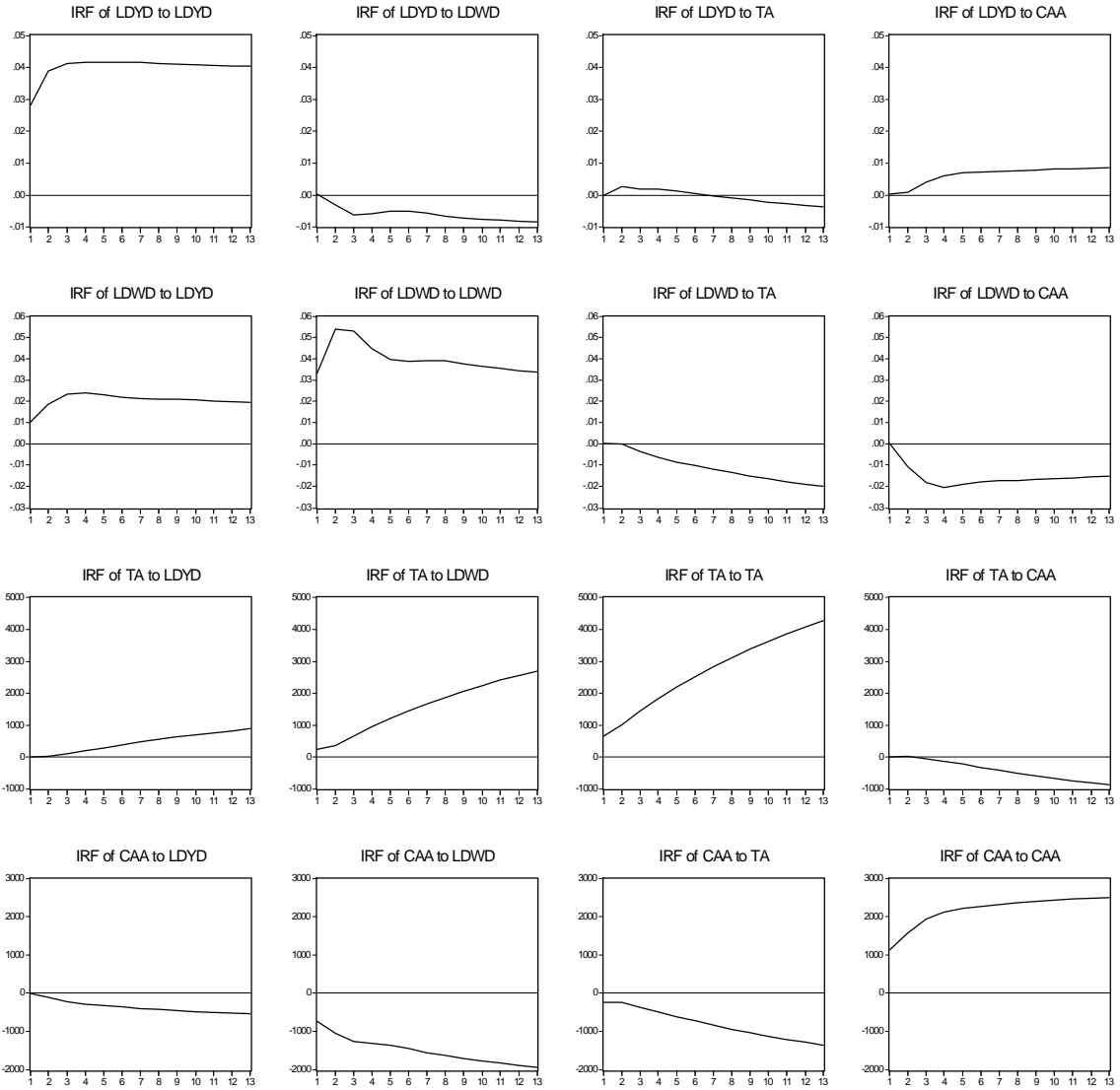
Accumulated Response to Cholesky One S.D. Innovations



1. VAR (LDWD) 가 (LDUS CPI) 가 (LDKOR CPI)
2. .
- 2-1 가 1 $i(i=1,2,3)$
 - 2-2 가 i 1
 - 2-3 가 가 가

3. VAR (3)

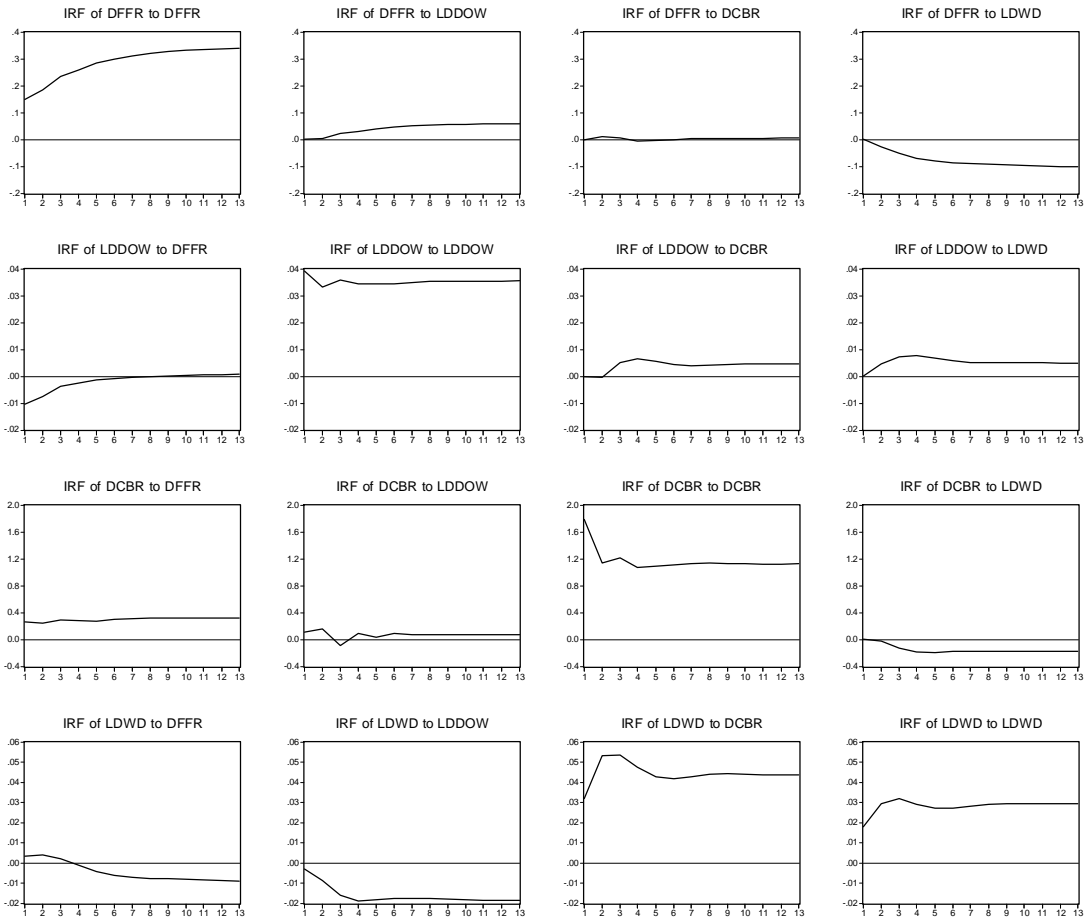
Accumulated Response to Cholesky One S.D. Innovations



: 1. VAR	(LDYD)	(LDWD)	(TA)	(CAA)
2.				
2-1 가		1		i(i=1,2,3,4)
2-2 가		i (i=1,2,3,4)	1	
2-3 가	가	가	가	

4. VAR (4-1)

Accumulated Response to Cholesky One S.D. Innovations

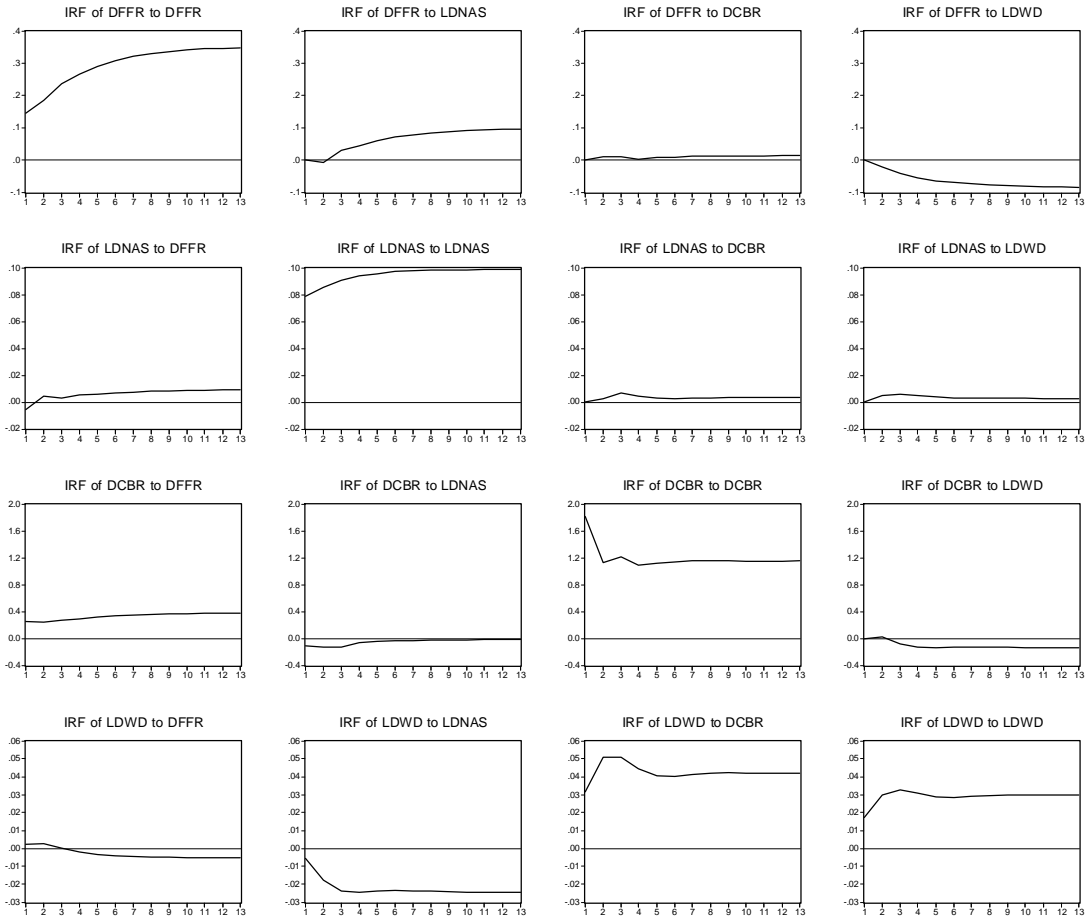


: 1. VAR	(DFFR)	(LDDOW)	(DCBR)
(LDWD)			
2.			
2-1 가		1	i(i=1,2,3,4)
2-2 가		i (i=1,2,3,4)	1
2-3 가	가	가	가

5.

VAR (4-2)

Accumulated Response to Cholesky One S.D. Innovations



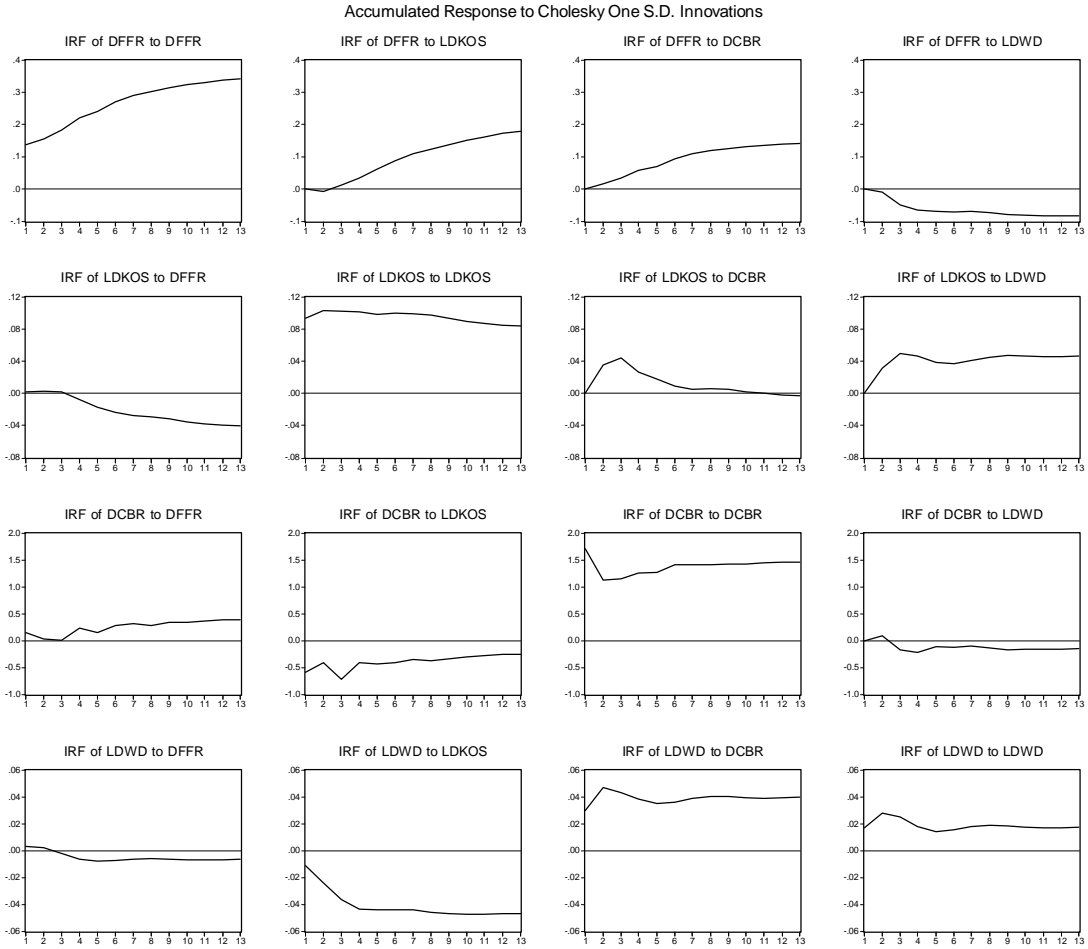
1. VAR (LDWD) : (DFFR) (LDNAS) (DCBR)

2. 2-1 가 1 i(i=1,2,3,4)

2-2 가 i (i=1,2,3,4) 1

2-3 가 가 가

6. 가 VAR (4-3)



1. VAR (DFFR) 가 (LDKOS) (DCBR) (LDWD) .

2. .

2-1 가 1 i(i=1,2,3,4)

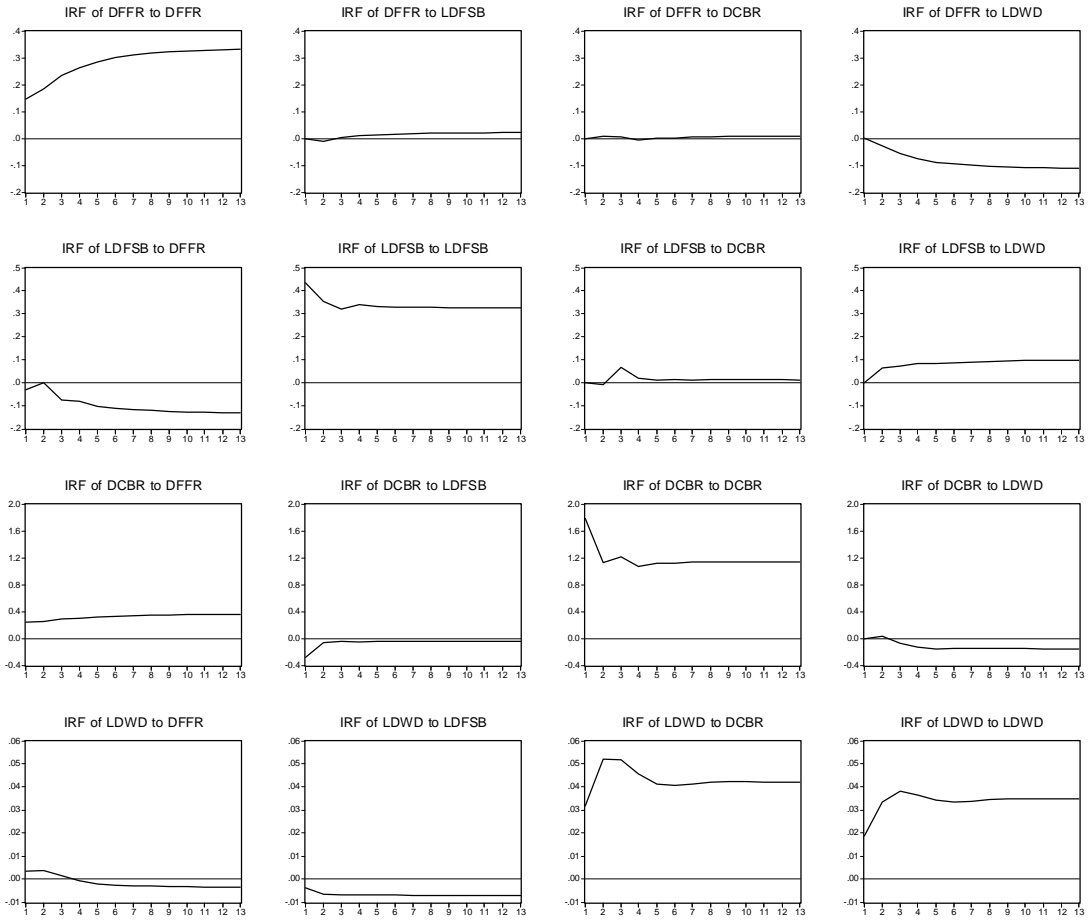
2-2 가 i (i=1,2,3,4) 1

2-3 가 가 가

7.

VAR (4-4)

Accumulated Response to Cholesky One S.D. Innovations



1. VAR (DFFR) (LDFSB) (DCBR) (LDWD)

2. 2-1 가 1 i(i=1,2,3,4)

2-2 가 i (i=1,2,3,4) 1

2-3 가 가 가 가

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