

- **1998-2000** -

()

1997

가

가

가

가

(, 20001).

가

1990

가

가

1990

, 2001).

1998 2000』

, 1998

2000

가

가

가?

가 , 가 가? 가?
 , 가 가 가?
 , Juhn Murphy (1993) . Juhn Murphy
 1970 1990 30 1990

가 , 가
 () 가

. 1)

가
 , Juhn Murphy 가 30
 3 . 3

가 가

가

1998 - 2000 3

가 ,

1) Juhn Murphy

(2000)

1.

가
 1980 1990 , 1980 1990
 , 1990 가
 가 가
 , Kim & Topel(1995), (1998)
 1980 1990
 『 Kim & Topel(1995) 1980 가
 가 (1998) 1980
 가가
 (2001) 『 가 』 가 가
 가 ,
 Juhn
 Murphy 가 가

2. Juhn Murphy

Juhn Murphy 가
 (percentiles differential)
 ()
 가 가
 가 가
 가 가

Juhn Murphy

가

가

3.

『 』 1998-2000 3
 , 40
 . -1

, 1999 2000 1998
 가

-1 1998 2000 (: , , , , %)

	1998	1999	2000	1998-2000
	121	113	117	-4
	7	6	6.5	-0.5
	36.5	40	40	0.5
	54	54	54	0
	66.4	63.5	63.0	-2.6

)
 1) :
 2) : +

. 1998 2000 : .

1.

가

. < -1>

1998 2000

, < -1>

가 .

, ,

, 20-30

1-2%

, , 20

, 20

가

가

- 1.

1998-2000^a

	(%)			1998-2000
	1998	1999	2000	
:	65.76 34.24	63.55 36.45	62.98 37.02	- 2.78 2.78
:	17.53 42.32	20.17 41.50	20.30 42.49	2.77 0.17
(2)	11.22	11.48	12.05	0.83
(4)	24.47 4.45	22.92 3.93	21.28 3.87	- 3.19 0.58
:				
15-20	2.78	3.51	3.33	0.56
21-30	32.10	29.60	28.95	3.15
31-40	31.85	31.44	32.43	0.58
41-50	21.70	22.99	22.91	0.21
51-60	9.16	10.05	9.95	0.79
60	2.42	2.40	2.42	0
:				
21-30	5.08	3.97	3.57	- 1.51
31-40	22.36	20.52	22.64	0.28
41-50	39.23	41.90	40.82	1.58
21-30	34.60	31.27	29.56	- 5.04
31-40	32.66	33.45	33.13	0.97
41-50	20.03	21.21	22.32	2.29
21-30	37.99	37.63	37.59	- 0.4
31-40	35.37	36.57	39.80	4.43
41-50	17.61	16.39	14.46	- 3.16

)

l) a:

(efficiency units)

×

2. .

1998 2000 , 20 ,
가

가?

$$X_t = D(W_t, Z_t)$$

X_t t $K \times 1$,

W_t t $K \times 1$ 가 ,

Z_t t $m \times 1$.

$$dX_t = D_w dW_t + D_z dZ_t$$

$$dW_t'(dX_t - D_z dZ_t) = dW_t' D_w dW_t = 0$$

$$(Z_t) dW_t' dX_t = 0$$

1998 2000 가 ,

(X_t, W_t) , t=1998, 1999, 2000.

$$(W_t - W_{t-1})' (X_t - X_{t-1}) = 0$$

$$(W_t - W_{t-1})' (X_t - X_{t-1}) = 0$$

, 1998 2000 가

-2. $(W_t - W_{t-1})' (X_t - X_{t-1})$:

	1998	1999
1999	0.018	
2000	0.139	0.372

$$1998 \ 2000 \ (W_t - W_{t-1})' (X_t - X_{t-1}) \ (+)$$

3. : /

1998 2000 / .

16 9 .

9 4 .

가 1999 가 2000

가 . 1999 가

. , 가가 ,

1998 2000 , . 가 . ,

. , 가 , . . ,

. , .

가 ,

가 .

가 가 가

가 .

-3.

/

1998-2000

	* (%)		
	1998-1999	1999-2000	1998-2000
:			
1.	0.06	0.05	0.11
2.	-2.98	0.26	-2.72
3. . 가 .	-0.08	0.17	0.09
4.	3.00	0.27	3.27
5. .	0.20	0.34	0.54
6. .	1.48	0.16	1.64
7. * .	-0.24	-0.19	-0.43
8. .	-0.76	0.31	-0.45
9. .	-0.14	-0.05	-0.19
10. . . .	0.24	-1.07	-0.83
11.	-0.80	-0.17	-0.97
12. .	0.13	-0.47	-0.34
13. . . .	-0.35	0.10	-0.25
14.가	0.38	0.17	0.55
15.	-0.04	0.11	0.07
16.	-0.11	0.01	-0.10
:			
	1.61	-0.81	0.8
	-2.59	1.38	-3.59
	-5.15	1.08	-4.07
	6.12	-0.03	6.09

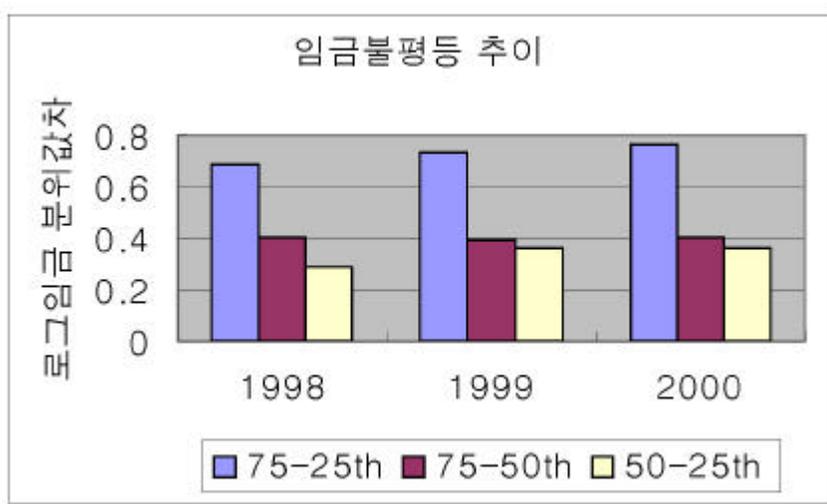
)
 1) a.
 2) :
 :
 : /
 : /
 : , /

1.

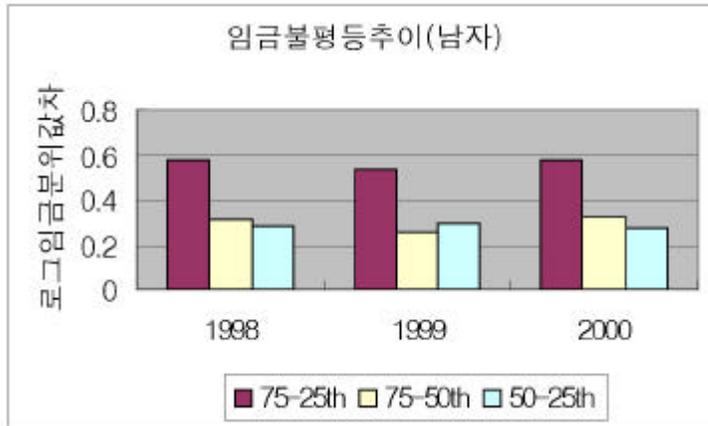
25th , 75th 75th
 가 25th
 3-4%

75-25th 75-50th 50-25th , 75-50th
 가 , 50-25th 가 1998
 75-50th 3 50-25th

- 1. ()



- 2. , 75 25th
 1999 가, 2000 1998 가
 75-50th 50-25th , 75-50th 1999
 가 2000 , 50th-25th 1999
 가 2000 가 75-50th 50-25th
 , 75-50th 가 50-25th



가

가
50th 가
(, 2000).

가

가

- 1.

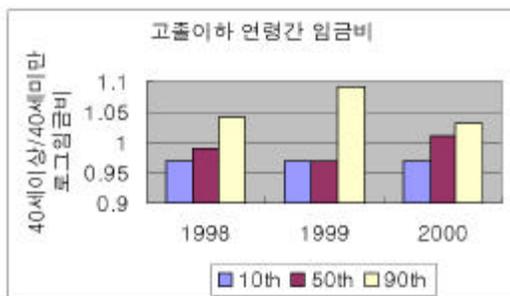
	A .		
	1998	1999	2000
	0.48	0.47	0.47
:			
90 - 10th	1.24	1.33	1.24
75 - 25th	0.69	0.73	0.76
90 - 50th	0.69	0.69	0.69
50 - 10th	0.55	0.64	0.55
75 - 50th	0.40	0.39	0.40
50 - 25th	0.29	0.36	0.36
	2,807	2,875	2,763
	B .		
	1998	1999	2000
	0.45	0.44	0.43
:			
90 - 10th	1.14	1.08	1.10
75 - 25th	0.58	0.54	0.58
90 - 50th	0.56	0.51	0.53
50 - 10th	0.58	0.57	0.57
75 - 50th	0.31	0.25	0.32
50 - 25th	0.28	0.29	0.27
	1,864	1,827	1,740

2. ()

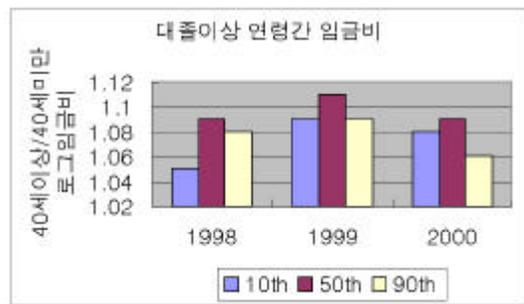
가
 . 1980 1990
 가 가 가
 (Kim & Topel, 1995). 1990 가 가
 (, , 1999).
 40

(40 40) , ,
 () ,

-3

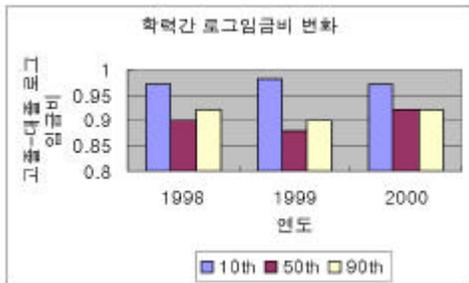


-4

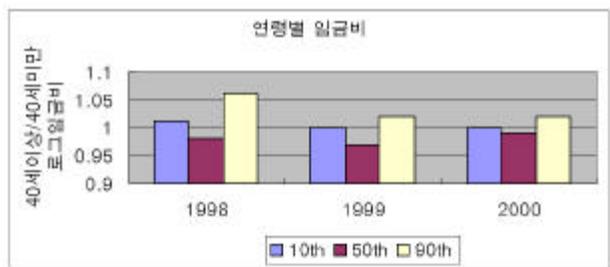


1998 2000
 10th 가
 50th 가
 90th
 1998 2000 10th 90th 40
 가 40 50th
 가

-5.



-6.



-3

-4

90th

가

()

가

2)

가

40

40

가 40

40 가

가

-4

1998

2000

-4.

	A .		
	1998	1999	2000
	0.32	0.32	0.31
90 - 10th	0.81	0.83	0.82
75 - 25th	0.42	0.43	0.42
90 - 50th	0.40	0.41	0.39
50 - 10th	0.41	0.42	0.43
75 - 50th	0.21	0.21	0.21
50 - 25th	0.21	0.22	0.21
	2,807	2,875	2,763
	B .		
	1998	1999	2000
	0.32	0.33	0.32
90 - 10	0.80	0.84	0.80
75 - 25	0.42	0.43	0.42
90 - 50	0.40	0.41	0.39
50 - 10	0.40	0.43	0.41
75 - 50	0.21	0.22	0.21
50 - 25	0.21	0.21	0.21
	1,864	1,827	1,740

3.

1998 2000 - , 가 , -
 . 3 가
 가 가
 , 가 가

$$Y_{it} = X_{it}\beta_t + u_{it}^3)$$

Y_{it} t i X_{it}
 (, ,) u_{it}
 가 - , θ_{it} , ,
 $F_t(\cdot)$ - (cumulative distribution)

$$u_{it} = F_t^{-1}(\theta_{it}|X_{it})$$

$F_t^{-1}(\cdot | X_{it})$ t X_{it}
 (X), ,
 가 (β) , ,
 , $\bar{\beta}$ 가 , $\bar{F}(\cdot | X_{it})$

$$Y_{it} = X_{it}\bar{\beta} + X_{it}(\beta_t - \bar{\beta}) + \bar{F}^{-1}(\theta_{it}|X_{it}) + [F_t^{-1}(\theta_{it}|X_{it}) - \bar{F}^{-1}(\theta_{it}|X_{it})]$$

, 가

3)

가

$$Y_{it}^1 = X_{it} \bar{\beta} + \bar{F}^{-1}(\theta_{it}|X_{it})$$

$$Y_{it}^2 = X_{it} \beta + \bar{F}^{-1}(\theta_{it}|X_{it})$$

$$Y_{it}^3 = X_{it} \beta + F^{-1}(\theta_{it}|X_{it}) = X_{it} \beta_t + u_{it} = Y_{it} \quad (, u_{it} = F_t^{-1}(\theta_{it}|X_{it}))$$

가 Y_{it}^1 ‘ 가 Y_{it}^2 Y_{it}^1 가 Y_{it}^3 Y_{it}^2 가 ‘ ,

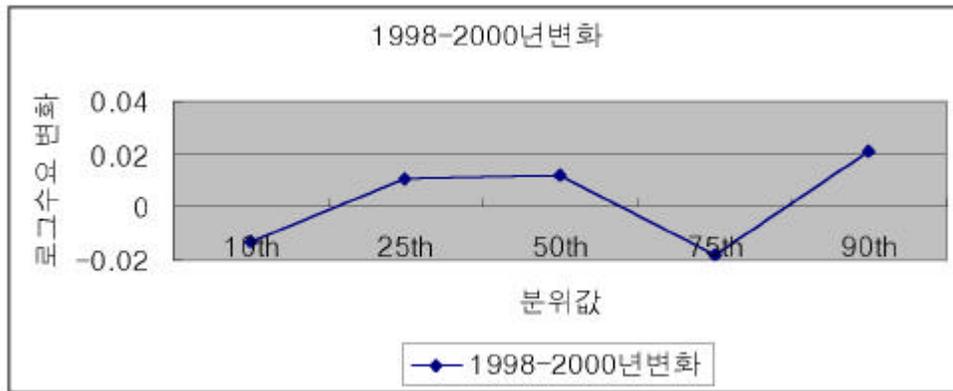
-5 , 1998-2000

			가	가
1998-2000				
75-25th	0.490	0.141	0.048	0.301
75-50th	0.145	0.020	0.015	0.110
50-25th	0.345	0.121	0.033	0.191
1997-1999	()			
90-10th	0.18793	0.3227	0.16049	-0.00483
90-50th	0.02631	0.2666	0.05591	-0.05626
50-10th	0.16162	0.00561	0.10458	0.05413

-5 , 1998-2000 ‘ 가 ’ ‘ 가 ’ 가 ’ 가 ’ 가 ’ (2000) 가

	1998 - 1999			1999 - 2000			1998 - 2000		
	0- 10th	45- 55th	90- 100th	0- 10th	45- 55th	90- 100th	0- 10th	45- 55th	90- 100th
:									
1.	0.66	0.00	0.00	-0.28	0.25	0.00	0.38	0.25	0.00
2.	-8.41	1.81	7.83	8.23	0.23	1.6	-0.18	2.04	9.43
3. . 가 .	0.00	-0.29	0.9	0.00	0.06	1.30	0.00	-0.23	2.20
4.	0.42	7.26	-3.12	-0.32	-0.29	0.64	0.1	6.97	-2.48
5. .	-1.62	-3.97	4.78	1.87	-0.22	-3.74	0.25	-4.01	1.04
6. .	3.67	-0.04	-0.58	-2.02	1.08	-0.57	1.65	1.04	-1.15
7. . . .	-1.34	-1.37	-1.29	0.36	0.84	-1.03	-0.98	-0.53	-2.32
8. .	-0.57	-1.84	1.00	0.30	-0.31	0.43	-0.27	-2.15	1.43
9. .	-1.08	-0.55	0.68	1.01	-1.04	-0.31	-0.07	-1.59	0.37
10. . . .	8.00	-0.34	-3.46	-5.58	-0.49	-0.50	2.42	-0.83	-3.96
11.	0.50	-1.75	-4.50	-4.38	0.42	-0.56	-3.88	-1.33	-0.56
12. .	-2.63	0.89	-0.33	1.61	-0.57	1.79	-1.02	0.32	1.46
13. . . .	1.41	-0.58	-1.52	-0.93	0.62	0.45	0.48	0.04	-1.07
14.가	1.00	0.00	0.00	0.13	0.00	0.00	1.13	0.00	0.00
15.	0.00	-0.25	0.00	0.00	0.51	0.49	0.00	0.26	0.49
16.	0.00	0.10	-0.41	0.00	-0.35	0.00	0.00	-0.25	-0.41
:									
	1.5	-1.61	0.09	-1.28	4.16	3.12	0.22	2.55	3.21
	-2.82	-5.58	-4.83	0.35	1.94	-2.69	-2.47	-3.64	-7.52
	-5.39	-1.38	2.12	-1.51	-4.84	-1.08	-6.90	-6.22	1.04
	6.73	8.57	2.61	2.43	-1.27	0.65	9.16	7.3	3.26

-7.



10th -7 , 1998 2000 / , ,
75th 가 . 1999 2000
가

.

『 1998 2000
가

20
가

가

75th 25th
50th 25th

75-50th

, 50-25th 가

1998 2000

75th-50th

50-25th

90th 25th

, 75th

가
가

가

가

가

가

가

가

- (2000), 『 』, .
- (1999), 『 』 1- 『 』, .
- , 『 』 『 』, 『 』, 30 2, 2001, 2.
- (2000), 『 』 『 』, 『 』, 23 2
- , 61 79 .
- (2000), 『 』 『 』, .
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1.

	1998	1999	2000
	3.90(0.083)	3.86(0.081)	3.92(0.083)
(1, 2)	-0.34(0.014)	-0.35(0.013)	-0.36(0.013)
	0.11(0.007)	0.11(0.007)	0.11(0.006)
	-0.10(0.008)	-0.12(0.003)	-0.10(0.008)
	0.02(0.001)	0.02(0.001)	0.02(0.001)
	0.06(0.003)	0.05(0.003)	0.06(0.003)
	-0.0007(0.000)	-0.0006(0.000)	-0.0007(0.000)
R ²	0.57	0.55	0.55
	2,807	2,875	2,763

1) ()

2)

* : 1, 2

* : 1, 2 3, 4

* : 1 (. / 가 가)

2 (/ .)

3 (/ .)

4 (, / .)