

Table 5: Estimation results of β_{MN}

N			M						
			6	7	8	9	10	11	12
6	linear	0.255	0.184	0.168	0.127	0.116	0.097	0.082	
		(0.171)	(0.139)	(0.116)	(0.101)	(0.090)	(0.080)	(0.073)	
		Semi log	1.698	1.772	1.854	1.964	2.015	2.074	2.151
			(0.137)	(0.129)	(0.123)	(0.120)	(0.117)	(0.113)	(0.110)
		Double log	0.526	0.512	0.495	0.479	0.477	0.470	0.463
			(0.049)	(0.045)	(0.042)	(0.040)	(0.038)	(0.036)	(0.034)
	Semi Box Cox	0.712	0.667	0.631	0.645	0.636	0.639	0.644	
		(0.094)	(0.083)	(0.074)	(0.067)	(0.062)	(0.058)	(0.056)	
	Double Box-Cox	0.562	0.568	0.586	0.630	0.648	0.670	0.687	
		(0.059)	(0.054)	(0.047)	(0.045)	(0.041)	(0.038)	(0.037)	
	7	linear	0.224	0.143	0.138	0.104	0.095	0.072	0.053
			(0.223)	(0.176)	(0.148)	(0.129)	(0.115)	(0.102)	(0.093)
		Semi log	1.990	2.069	2.172	2.304	2.376	2.456	2.559
			(0.148)	(0.138)	(0.132)	(0.128)	(0.125)	(0.122)	(0.119)
		Double log	0.621	0.612	0.594	0.577	0.573	0.565	0.558
			(0.055)	(0.049)	(0.046)	(0.043)	(0.041)	(0.039)	(0.037)
	Semi Box Cox	0.845	0.789	0.751	0.768	0.763	0.769	0.778	
		(0.104)	(0.089)	(0.079)	(0.072)	(0.067)	(0.063)	(0.061)	
	Double Box-Cox	0.636	0.655	0.683	0.735	0.755	0.783	0.808	
		(0.064)	(0.057)	(0.050)	(0.047)	(0.044)	(0.041)	(0.040)	
	8	linear	0.231	0.120	0.104	0.075	0.072	0.050	0.026
			(0.283)	(0.224)	(0.183)	(0.159)	(0.142)	(0.127)	(0.116)
		Semi log	2.311	2.408	2.502	2.661	2.757	2.861	2.989
			(0.160)	(0.150)	(0.142)	(0.138)	(0.134)	(0.132)	(0.129)
Double log		0.732	0.717	0.700	0.682	0.677	0.668	0.660	
		(0.060)	(0.054)	(0.050)	(0.047)	(0.045)	(0.042)	(0.040)	
Semi Box Cox	1.006	0.933	0.878	0.902	0.901	0.911	0.924		
	(0.118)	(0.099)	(0.085)	(0.078)	(0.073)	(0.069)	(0.066)		
Double Box-Cox	0.742	0.753	0.776	0.842	0.868	0.901	0.933		
	(0.070)	(0.061)	(0.053)	(0.050)	(0.046)	(0.044)	(0.043)		
9	linear	0.183	0.054	0.049	0.011	0.015	-0.003	-0.023	
		(0.348)	(0.275)	(0.224)	(0.190)	(0.169)	(0.152)	(0.138)	
	Semi log	2.649	2.775	2.891	3.031	3.156	3.289	3.446	
		(0.174)	(0.164)	(0.156)	(0.149)	(0.146)	(0.142)	(0.140)	
	Double log	0.852	0.834	0.810	0.793	0.790	0.780	0.770	
		(0.066)	(0.060)	(0.055)	(0.051)	(0.049)	(0.046)	(0.044)	
Semi Box Cox	1.163	1.083	1.016	1.031	1.045	1.060	1.079		
	(0.135)	(0.113)	(0.095)	(0.085)	(0.079)	(0.075)	(0.073)		
Double Box-Cox	0.835	0.846	0.860	0.932	0.979	1.019	1.059		
	(0.080)	(0.070)	(0.060)	(0.054)	(0.050)	(0.047)	(0.047)		
10	linear	0.177	-0.010	-0.019	-0.060	-0.053	-0.063	-0.076	
		(0.723)	(0.571)	(0.466)	(0.395)	(0.340)	(0.304)	(0.276)	
	Semi log	2.977	3.109	3.251	3.403	3.568	3.732	3.923	
		(0.190)	(0.179)	(0.170)	(0.163)	(0.157)	(0.154)	(0.151)	
	Double log	0.998	0.979	0.953	0.928	0.908	0.899	0.889	
		(0.073)	(0.066)	(0.061)	(0.057)	(0.053)	(0.050)	(0.048)	
Semi Box Cox	1.323	1.229	1.145	1.152	1.185	1.208	1.236		
	(0.153)	(0.128)	(0.108)	(0.095)	(0.086)	(0.082)	(0.079)		
Double Box-Cox	0.929	0.935	0.943	1.009	1.076	1.132	1.180		
	(0.091)	(0.079)	(0.067)	(0.060)	(0.054)	(0.051)	(0.050)		
11	linear	0.394	0.074	0.012	-0.045	-0.037	-0.048	-0.066	
		(2.577)	(2.051)	(1.682)	(1.416)	(1.217)	(1.059)	(0.960)	
	Semi log	3.340	3.480	3.635	3.819	4.000	4.185	4.412	
		(0.205)	(0.193)	(0.184)	(0.178)	(0.171)	(0.164)	(0.162)	
	Double log	1.140	1.123	1.101	1.073	1.043	1.023	1.014	
		(0.080)	(0.072)	(0.067)	(0.062)	(0.058)	(0.054)	(0.051)	
Semi Box Cox	1.531	1.417	1.312	1.313	1.340	1.354	1.396		
	(0.170)	(0.143)	(0.121)	(0.106)	(0.095)	(0.088)	(0.085)		
Double Box-Cox	1.055	1.048	1.044	1.120	1.177	1.235	1.299		
	(0.101)	(0.088)	(0.076)	(0.067)	(0.060)	(0.055)	(0.054)		
12	linear	-1.956	-1.779	-1.480	-1.241	-1.021	-0.869	-0.752	
		(7.256)	(5.702)	(4.634)	(3.863)	(3.281)	(2.831)	(2.477)	
	Semi log	3.725	3.888	4.059	4.264	4.481	4.688	4.911	
		(0.218)	(0.207)	(0.198)	(0.192)	(0.185)	(0.178)	(0.172)	
	Double log	1.309	1.285	1.263	1.235	1.201	1.170	1.143	
		(0.086)	(0.079)	(0.073)	(0.068)	(0.063)	(0.059)	(0.055)	
Semi Box Cox	1.747	1.608	1.480	1.480	1.511	1.520	1.558		
	(0.189)	(0.159)	(0.135)	(0.118)	(0.106)	(0.097)	(0.091)		
Double Box-Cox	1.187	1.173	1.154	1.234	1.300	1.345	1.413		
	(0.113)	(0.098)	(0.084)	(0.074)	(0.066)	(0.061)	(0.058)		

notes:

1. Estimates in above table is β_{MN} at equation : $d_{mn} = \alpha_{MN} + \beta_{MN}m + \epsilon$.
2. Standard errors(Heteroskedastic-consistent estimates) are in parentheses.

A Coefficient Estimates and p-values

Table 6: linear : values of coefficients

period		const.	CPU clock	HDD	RAM	TFT size
from	to	α	β_{11}	β_{12}	β_{21}	β_{22}
1999/2	2000/1	-31662.63	471.20	9143.19	146.77	5872.35
1999/3	2000/2	-33531.61	450.22	7549.61	169.71	5848.15
1999/4	2000/3	-86988.71	472.18	6352.30	286.62	5866.24
1999/5	2000/4	-63392.39	435.04	5239.08	427.96	5995.42
1999/6	2000/5	-8025.41	372.74	3922.93	775.95	5752.33
1999/7	2000/6	-29632.97	368.21	2907.08	829.54	6139.33
1999/8	2000/7	-48824.20	370.97	2523.45	767.97	6565.09
1999/9	2000/8	-89796.15	391.76	2010.78	655.48	6364.76
1999/10	2000/9	-57378.47	386.25	2053.53	649.12	6408.50
1999/11	2000/10	-60530.09	360.48	1236.20	619.11	6549.73
1999/12	2000/11	-9456.21	377.37	1184.69	534.23	6478.42
2000/1	2000/12	-60870.63	333.22	1200.88	591.11	6463.48
2000/2	2001/1	-20763.72	268.59	1199.40	610.79	5948.93
2000/3	2001/2	-47681.45	259.69	1091.66	593.78	5887.93
2000/4	2001/3	-60239.56	263.55	875.75	589.48	6024.19
2000/5	2001/4	-50058.61	259.94	914.44	570.93	6025.36
2000/6	2001/5	-38946.08	258.49	917.67	514.11	6016.87
2000/7	2001/6	-34688.86	206.75	1079.20	523.01	5672.22
2000/8	2001/7	-50790.45	194.85	1110.42	413.97	5457.39
2000/9	2001/8	-28633.18	191.53	1070.73	325.28	5399.82
2000/10	2001/9	-14555.37	191.79	1108.67	254.04	5256.35
2000/11	2001/10	-26149.88	184.12	1091.41	176.36	4969.37
2000/12	2001/11	-9423.30	155.29	1238.90	-20.88	4985.88
2001/1	2001/12	5939.23	150.41	1295.20	-72.73	5028.04
2001/2	2002/1	17236.39	128.27	1301.29	-17.87	4634.56
2001/3	2002/2	54999.85	126.31	1209.77	-33.03	4277.19
2001/4	2002/3	39202.86	123.33	1294.54	-46.28	3930.75
2001/5	2002/4	16247.42	123.78	1268.87	-71.85	3784.25
2001/6	2002/5	14548.71	120.52	1248.44	-64.29	3686.46
2001/7	2002/6	-24829.30	96.82	1247.31	28.87	3276.50
2001/8	2002/7	-27402.94	95.40	1190.87	39.92	3356.80
2001/9	2002/8	8504.57	93.36	1239.05	65.97	3425.26
2001/10	2002/9	39675.45	92.54	1210.20	73.04	3608.55
2001/11	2002/10	-23193.58	92.71	1155.22	86.02	3644.03
2001/12	2002/11	-28854.76	85.94	1056.03	106.16	3872.27
2002/1	2002/12	-52661.76	83.12	1064.87	112.64	3781.11
2002/2	2003/1	-34193.68	81.26	902.74	128.39	4038.19
2002/3	2003/2	-69557.98	72.52	949.07	127.76	4279.00
2002/4	2003/3	-40861.66	71.65	965.49	127.47	4396.50
2002/5	2003/4	-63600.75	69.35	961.89	151.34	4500.13
2002/6	2003/5	-39358.92	77.39	887.70	120.52	4517.98
2002/7	2003/6	-76925.10	76.39	734.16	113.65	4148.55
2002/8	2003/7	-52522.78	78.21	719.80	111.76	4328.55
2002/9	2003/8	-89967.88	76.77	691.72	109.48	4216.21
2002/10	2003/9	-72208.07	76.21	691.24	117.70	4176.04
2002/11	2003/10	-42858.89	73.35	604.99	116.53	4393.24
2002/12	2003/11	-102808.64	79.94	596.50	84.62	4196.99
2003/1	2003/12	-86720.83	82.67	584.69	83.59	4199.87

Estimated model:

$$p_t = \alpha + \sum_{i=1}^n \beta_{1i} z_{1i} + \sum_{i=1}^m \beta_{2i} z_{2i} + \sum_i^{11} T_i$$

- p price of product
- z_{11} CPU clock
- z_{12} HDD capacity
- z_{21} RAM capacity
- z_{22} TFT monitor size \times dummy
- T_i time dummy(monthly)

Table 7: linear : p-values

period		constant	clock	RAM capacity	HDD capacity	TFT monitor size
from	to					
1999/2	2000/1	0.16	0.00	0.40	0.00	0.00
1999/3	2000/2	0.23	0.00	0.29	0.00	0.00
1999/4	2000/3	0.04	0.00	0.04	0.00	0.00
1999/5	2000/4	0.00	0.00	0.00	0.00	0.00
1999/6	2000/5	0.64	0.00	0.00	0.00	0.00
1999/7	2000/6	0.04	0.00	0.00	0.00	0.00
1999/8	2000/7	0.01	0.00	0.00	0.00	0.00
1999/9	2000/8	0.00	0.00	0.00	0.00	0.00
1999/10	2000/9	0.00	0.00	0.00	0.00	0.00
1999/11	2000/10	0.00	0.00	0.00	0.00	0.00
1999/12	2000/11	0.68	0.00	0.00	0.00	0.00
2000/1	2000/12	0.00	0.00	0.00	0.00	0.00
2000/2	2001/1	0.07	0.00	0.00	0.00	0.00
2000/3	2001/2	0.00	0.00	0.00	0.00	0.00
2000/4	2001/3	0.00	0.00	0.00	0.00	0.00
2000/5	2001/4	0.00	0.00	0.00	0.00	0.00
2000/6	2001/5	0.00	0.00	0.00	0.00	0.00
2000/7	2001/6	0.00	0.00	0.00	0.00	0.00
2000/8	2001/7	0.00	0.00	0.00	0.00	0.00
2000/9	2001/8	0.01	0.00	0.00	0.00	0.00
2000/10	2001/9	0.13	0.00	0.00	0.00	0.00
2000/11	2001/10	0.02	0.00	0.02	0.00	0.00
2000/12	2001/11	0.37	0.00	0.76	0.00	0.00
2001/1	2001/12	0.55	0.00	0.29	0.00	0.00
2001/2	2002/1	0.14	0.00	0.76	0.00	0.00
2001/3	2002/2	0.00	0.00	0.51	0.00	0.00
2001/4	2002/3	0.00	0.00	0.34	0.00	0.00
2001/5	2002/4	0.38	0.00	0.13	0.00	0.00
2001/6	2002/5	0.13	0.00	0.17	0.00	0.00
2001/7	2002/6	0.04	0.00	0.46	0.00	0.00
2001/8	2002/7	0.04	0.00	0.31	0.00	0.00
2001/9	2002/8	0.58	0.00	0.10	0.00	0.00
2001/10	2002/9	0.15	0.00	0.07	0.00	0.00
2001/11	2002/10	0.03	0.00	0.02	0.00	0.00
2001/12	2002/11	0.07	0.00	0.00	0.00	0.00
2002/1	2002/12	0.00	0.00	0.00	0.00	0.00
2002/2	2003/1	0.01	0.00	0.00	0.00	0.00
2002/3	2003/2	0.00	0.00	0.00	0.00	0.00
2002/4	2003/3	0.01	0.00	0.00	0.00	0.00
2002/5	2003/4	0.00	0.00	0.00	0.00	0.00
2002/6	2003/5	0.00	0.00	0.00	0.00	0.00
2002/7	2003/6	0.00	0.00	0.00	0.00	0.00
2002/8	2003/7	0.00	0.00	0.00	0.00	0.00
2002/9	2003/8	0.00	0.00	0.00	0.00	0.00
2002/10	2003/9	0.00	0.00	0.00	0.00	0.00
2002/11	2003/10	0.00	0.00	0.00	0.00	0.00
2002/12	2003/11	0.00	0.00	0.00	0.00	0.00
2003/1	2003/12	0.00	0.00	0.00	0.00	0.00

Table 8: semi log : coefficient estimates

period		const.	CPU clock	HDD	RAM	TFT size
from	to	α	β_{11}	β_{12}	β_{21}	β_{22}
1999/2	2000/1	11.36	0.001565	0.04447	-0.000225	0.02675
1999/3	2000/2	11.54	0.001404	0.03637	0.000284	0.02733
1999/4	2000/3	10.83	0.001824	0.02823	0.001467	0.02813
1999/5	2000/4	11.01	0.001815	0.02304	0.002123	0.02913
1999/6	2000/5	11.17	0.001700	0.01811	0.003273	0.02855
1999/7	2000/6	11.10	0.001641	0.01487	0.003727	0.03059
1999/8	2000/7	10.98	0.001735	0.01346	0.003506	0.03374
1999/9	2000/8	10.70	0.001889	0.01094	0.002998	0.03332
1999/10	2000/9	10.82	0.001901	0.01112	0.002997	0.03381
1999/11	2000/10	10.75	0.001860	0.00678	0.002956	0.03470
1999/12	2000/11	10.91	0.002014	0.00622	0.002413	0.03479
2000/1	2000/12	10.70	0.001849	0.00644	0.002675	0.03487
2000/2	2001/1	10.87	0.001520	0.00670	0.002918	0.03265
2000/3	2001/2	10.79	0.001414	0.00626	0.003007	0.03222
2000/4	2001/3	10.72	0.001430	0.00501	0.002928	0.03283
2000/5	2001/4	10.77	0.001409	0.00517	0.002814	0.03237
2000/6	2001/5	10.80	0.001391	0.00511	0.002655	0.03226
2000/7	2001/6	10.86	0.001040	0.00573	0.002984	0.02985
2000/8	2001/7	10.79	0.000979	0.00585	0.002595	0.02868
2000/9	2001/8	10.90	0.000953	0.00564	0.002274	0.02806
2000/10	2001/9	10.97	0.000949	0.00582	0.001899	0.02695
2000/11	2001/10	10.89	0.000898	0.00576	0.001652	0.02557
2000/12	2001/11	11.03	0.000693	0.00629	0.000699	0.02486
2001/1	2001/12	11.15	0.000649	0.00653	0.000421	0.02483
2001/2	2002/1	11.22	0.000541	0.00667	0.000536	0.02267
2001/3	2002/2	11.45	0.000562	0.00601	0.000127	0.02097
2001/4	2002/3	11.36	0.000548	0.00659	0.000060	0.01935
2001/5	2002/4	11.27	0.000556	0.00647	-0.000089	0.01877
2001/6	2002/5	11.23	0.000542	0.00634	-0.000049	0.01841
2001/7	2002/6	11.01	0.000450	0.00615	0.000222	0.01752
2001/8	2002/7	11.01	0.000442	0.00583	0.000250	0.01791
2001/9	2002/8	11.28	0.000434	0.00600	0.000268	0.01769
2001/10	2002/9	11.42	0.000430	0.00594	0.000283	0.01878
2001/11	2002/10	11.07	0.000436	0.00565	0.000349	0.01933
2001/12	2002/11	11.08	0.000419	0.00484	0.000355	0.02117
2002/1	2002/12	10.93	0.000415	0.00480	0.000398	0.02128
2002/2	2003/1	11.06	0.000405	0.00369	0.000434	0.02305
2002/3	2003/2	10.85	0.000364	0.00379	0.000418	0.02476
2002/4	2003/3	11.06	0.000356	0.00384	0.000423	0.02536
2002/5	2003/4	10.91	0.000391	0.00338	0.000605	0.02647
2002/6	2003/5	10.89	0.000439	0.00316	0.000459	0.02786
2002/7	2003/6	10.77	0.000436	0.00266	0.000350	0.02642
2002/8	2003/7	10.78	0.000443	0.00258	0.000353	0.02712
2002/9	2003/8	10.66	0.000443	0.00234	0.000369	0.02753
2002/10	2003/9	10.73	0.000430	0.00249	0.000396	0.02620
2002/11	2003/10	10.89	0.000411	0.00197	0.000418	0.02767
2002/12	2003/11	10.55	0.000456	0.00209	0.000252	0.02663
2003/1	2003/12	10.72	0.000453	0.00212	0.000246	0.02552

Estimated model:

$$\ln p_t = \alpha + \sum_{i=1}^n \beta_{1i} z_{1i} + \sum_{i=1}^m \beta_{2i} z_{2i} + \sum_i^{11} T_i$$

- p price of product
- z_{11} CPU clock
- z_{12} HDD capacity
- z_{21} RAM capacity
- z_{22} TFT monitor size \times dummy
- T_i time dummy(monthly)

Table 9: semi-log form : p-values

estimation period		const.	CPU clock	RAM	HDD	TFT size
start	end					
1999/2	2000/1	0.00	0.00	0.77	0.00	0.00
1999/3	2000/2	0.00	0.00	0.71	0.00	0.00
1999/4	2000/3	0.00	0.00	0.03	0.00	0.00
1999/5	2000/4	0.00	0.00	0.00	0.00	0.00
1999/6	2000/5	0.00	0.00	0.00	0.00	0.00
1999/7	2000/6	0.00	0.00	0.00	0.00	0.00
1999/8	2000/7	0.00	0.00	0.00	0.00	0.00
1999/9	2000/8	0.00	0.00	0.00	0.00	0.00
1999/10	2000/9	0.00	0.00	0.00	0.00	0.00
1999/11	2000/10	0.00	0.00	0.00	0.00	0.00
1999/12	2000/11	0.00	0.00	0.00	0.00	0.00
2000/1	2000/12	0.00	0.00	0.00	0.00	0.00
2000/2	2001/1	0.00	0.00	0.00	0.00	0.00
2000/3	2001/2	0.00	0.00	0.00	0.00	0.00
2000/4	2001/3	0.00	0.00	0.00	0.00	0.00
2000/5	2001/4	0.00	0.00	0.00	0.00	0.00
2000/6	2001/5	0.00	0.00	0.00	0.00	0.00
2000/7	2001/6	0.00	0.00	0.00	0.00	0.00
2000/8	2001/7	0.00	0.00	0.00	0.00	0.00
2000/9	2001/8	0.00	0.00	0.00	0.00	0.00
2000/10	2001/9	0.00	0.00	0.00	0.00	0.00
2000/11	2001/10	0.00	0.00	0.00	0.00	0.00
2000/12	2001/11	0.00	0.00	0.05	0.00	0.00
2001/1	2001/12	0.00	0.00	0.23	0.00	0.00
2001/2	2002/1	0.00	0.00	0.06	0.00	0.00
2001/3	2002/2	0.00	0.00	0.59	0.00	0.00
2001/4	2002/3	0.00	0.00	0.79	0.00	0.00
2001/5	2002/4	0.00	0.00	0.69	0.00	0.00
2001/6	2002/5	0.00	0.00	0.83	0.00	0.00
2001/7	2002/6	0.00	0.00	0.25	0.00	0.00
2001/8	2002/7	0.00	0.00	0.19	0.00	0.00
2001/9	2002/8	0.00	0.00	0.16	0.00	0.00
2001/10	2002/9	0.00	0.00	0.14	0.00	0.00
2001/11	2002/10	0.00	0.00	0.04	0.00	0.00
2001/12	2002/11	0.00	0.00	0.03	0.00	0.00
2002/1	2002/12	0.00	0.00	0.01	0.00	0.00
2002/2	2003/1	0.00	0.00	0.01	0.00	0.00
2002/3	2003/2	0.00	0.00	0.01	0.00	0.00
2002/4	2003/3	0.00	0.00	0.01	0.00	0.00
2002/5	2003/4	0.00	0.00	0.00	0.00	0.00
2002/6	2003/5	0.00	0.00	0.00	0.00	0.00
2002/7	2003/6	0.00	0.00	0.00	0.00	0.00
2002/8	2003/7	0.00	0.00	0.00	0.00	0.00
2002/9	2003/8	0.00	0.00	0.00	0.00	0.00
2002/10	2003/9	0.00	0.00	0.00	0.00	0.00
2002/11	2003/10	0.00	0.00	0.00	0.00	0.00
2002/12	2003/11	0.00	0.00	0.00	0.00	0.00
2003/1	2003/12	0.00	0.00	0.01	0.00	0.00

Table 10: double log : coefficients estimates

estimation period		const.	CPU clock	HDD	RAM	TFT size
start	end	α	β_{11}	β_{12}	β_{21}	β_{22}
1999/2	2000/1	8.1933	0.4620	0.5562	0.0633	0.0273
1999/3	2000/2	7.1744	0.6053	0.5349	0.1072	0.0269
1999/4	2000/3	5.5449	0.7998	0.4185	0.2101	0.0277
1999/5	2000/4	5.0611	0.8879	0.3179	0.2466	0.0291
1999/6	2000/5	4.9489	0.8926	0.2732	0.3145	0.0288
1999/7	2000/6	4.3259	0.9697	0.2275	0.3553	0.0306
1999/8	2000/7	3.6115	1.0858	0.2032	0.3496	0.0335
1999/9	2000/8	3.0048	1.1894	0.1781	0.2946	0.0327
1999/10	2000/9	3.0332	1.1926	0.1822	0.2947	0.0333
1999/11	2000/10	3.0507	1.1832	0.1565	0.2932	0.0340
1999/12	2000/11	2.7622	1.2899	0.1482	0.2385	0.0343
2000/1	2000/12	2.7463	1.2372	0.1476	0.2550	0.0345
2000/2	2001/1	3.0900	1.1900	0.1431	0.2485	0.0324
2000/3	2001/2	3.0210	1.1856	0.1397	0.2477	0.0319
2000/4	2001/3	2.9441	1.1929	0.1273	0.2394	0.0321
2000/5	2001/4	3.0262	1.1752	0.1444	0.2315	0.0312
2000/6	2001/5	3.0353	1.1892	0.1482	0.2043	0.0314
2000/7	2001/6	3.6591	1.0662	0.1675	0.2069	0.0294
2000/8	2001/7	3.8279	1.0360	0.1739	0.1772	0.0281
2000/9	2001/8	4.0492	0.9908	0.1796	0.1937	0.0277
2000/10	2001/9	4.1275	0.9894	0.1808	0.1748	0.0265
2000/11	2001/10	4.1950	0.9609	0.1786	0.1757	0.0252
2000/12	2001/11	5.1475	0.7977	0.2095	0.1691	0.0233
2001/1	2001/12	5.4173	0.7628	0.2335	0.1443	0.0229
2001/2	2002/1	5.8010	0.6617	0.2983	0.1410	0.0217
2001/3	2002/2	6.2762	0.6918	0.2823	0.0657	0.0203
2001/4	2002/3	6.0944	0.6852	0.3222	0.0428	0.0185
2001/5	2002/4	6.0759	0.7009	0.3199	0.0042	0.0180
2001/6	2002/5	6.0775	0.6943	0.3194	-0.0007	0.0177
2001/7	2002/6	6.0181	0.6271	0.3513	0.0316	0.0166
2001/8	2002/7	5.9665	0.6321	0.3380	0.0372	0.0173
2001/9	2002/8	6.1407	0.6241	0.3549	0.0479	0.0175
2001/10	2002/9	6.5565	0.6160	0.3496	0.0558	0.0184
2001/11	2002/10	5.5716	0.6420	0.3512	0.0922	0.0185
2001/12	2002/11	5.1299	0.6790	0.3264	0.1370	0.0191
2002/1	2002/12	4.7825	0.6926	0.3214	0.1545	0.0192
2002/2	2003/1	4.8213	0.7182	0.2791	0.1529	0.0207
2002/3	2003/2	4.6460	0.6623	0.3100	0.1961	0.0211
2002/4	2003/3	4.8348	0.6517	0.3345	0.1857	0.0211
2002/5	2003/4	4.2392	0.6593	0.3191	0.2843	0.0211
2002/6	2003/5	3.8041	0.7808	0.3008	0.2144	0.0225
2002/7	2003/6	3.3393	0.8377	0.2746	0.1982	0.0218
2002/8	2003/7	3.3291	0.8529	0.2704	0.1939	0.0225
2002/9	2003/8	3.2131	0.8498	0.2591	0.1930	0.0227
2002/10	2003/9	3.1737	0.8428	0.2757	0.2186	0.0213
2002/11	2003/10	3.3377	0.8628	0.2203	0.2116	0.0242
2002/12	2003/11	2.4362	0.9770	0.2308	0.1641	0.0229
2003/1	2003/12	2.3277	1.0133	0.2190	0.1666	0.0230

Estimated model:

$$\ln p = \alpha + \sum_{i=1}^n \beta_{1i} \ln z_{1i} + \sum_{i=1}^m \beta_{2i} z_{2i} + \sum_i^{11} T_i$$

- p price of product
- z_{11} CPU clock
- z_{12} HDD capacity
- z_{21} RAM capacity
- z_{22} TFT monitor size \times dummy
- T_i time dummy(monthly)

Table 11: double log : p-values

estimation period		const.	CPU clock	RAM	HDD	TFT size
start	end					
1999/2	2000/1	0.00	0.00	0.36	0.00	0.00
1999/3	2000/2	0.00	0.00	0.10	0.00	0.00
1999/4	2000/3	0.00	0.00	0.00	0.00	0.00
1999/5	2000/4	0.00	0.00	0.00	0.00	0.00
1999/6	2000/5	0.00	0.00	0.00	0.00	0.00
1999/7	2000/6	0.00	0.00	0.00	0.00	0.00
1999/8	2000/7	0.00	0.00	0.00	0.00	0.00
1999/9	2000/8	0.00	0.00	0.00	0.00	0.00
1999/10	2000/9	0.00	0.00	0.00	0.00	0.00
1999/11	2000/10	0.00	0.00	0.00	0.00	0.00
1999/12	2000/11	0.00	0.00	0.00	0.00	0.00
2000/1	2000/12	0.00	0.00	0.00	0.00	0.00
2000/2	2001/1	0.00	0.00	0.00	0.00	0.00
2000/3	2001/2	0.00	0.00	0.00	0.00	0.00
2000/4	2001/3	0.00	0.00	0.00	0.00	0.00
2000/5	2001/4	0.00	0.00	0.00	0.00	0.00
2000/6	2001/5	0.00	0.00	0.00	0.00	0.00
2000/7	2001/6	0.00	0.00	0.00	0.00	0.00
2000/8	2001/7	0.00	0.00	0.00	0.00	0.00
2000/9	2001/8	0.00	0.00	0.00	0.00	0.00
2000/10	2001/9	0.00	0.00	0.00	0.00	0.00
2000/11	2001/10	0.00	0.00	0.00	0.00	0.00
2000/12	2001/11	0.00	0.00	0.00	0.00	0.00
2001/1	2001/12	0.00	0.00	0.00	0.00	0.00
2001/2	2002/1	0.00	0.00	0.00	0.00	0.00
2001/3	2002/2	0.00	0.00	0.17	0.00	0.00
2001/4	2002/3	0.00	0.00	0.35	0.00	0.00
2001/5	2002/4	0.00	0.00	0.93	0.00	0.00
2001/6	2002/5	0.00	0.00	0.99	0.00	0.00
2001/7	2002/6	0.00	0.00	0.49	0.00	0.00
2001/8	2002/7	0.00	0.00	0.43	0.00	0.00
2001/9	2002/8	0.00	0.00	0.33	0.00	0.00
2001/10	2002/9	0.00	0.00	0.26	0.00	0.00
2001/11	2002/10	0.00	0.00	0.04	0.00	0.00
2001/12	2002/11	0.00	0.00	0.00	0.00	0.00
2002/1	2002/12	0.00	0.00	0.00	0.00	0.00
2002/2	2003/1	0.00	0.00	0.00	0.00	0.00
2002/3	2003/2	0.00	0.00	0.00	0.00	0.00
2002/4	2003/3	0.00	0.00	0.00	0.00	0.00
2002/5	2003/4	0.00	0.00	0.00	0.00	0.00
2002/6	2003/5	0.00	0.00	0.00	0.00	0.00
2002/7	2003/6	0.00	0.00	0.00	0.00	0.00
2002/8	2003/7	0.00	0.00	0.00	0.00	0.00
2002/9	2003/8	0.00	0.00	0.00	0.00	0.00
2002/10	2003/9	0.00	0.00	0.00	0.00	0.00
2002/11	2003/10	0.00	0.00	0.00	0.00	0.00
2002/12	2003/11	0.00	0.00	0.00	0.00	0.00
2003/1	2003/12	0.00	0.00	0.00	0.00	0.00

Table 12: semi Box-Cox : coefficients estimates

estimation period		const.	CPU clock	HDD	RAM	TFT size	Box-Cox parameter
start	end	α	β_{11}	β_{12}	β_{21}	β_{22}	λ
1999/2	2000/1	1032.714	2.87051	63.98628	0.48505	40.326	0.5960
1999/3	2000/2	3507.830	9.77770	183.50009	3.41349	141.901	0.6980
1999/4	2000/3	-613.466	24.13398	334.89650	15.83459	316.781	0.7624
1999/5	2000/4	954.424	7.10948	87.12875	7.48198	103.696	0.6693
1999/6	2000/5	808.153	1.88777	19.95057	3.81951	30.431	0.5719
1999/7	2000/6	1012.531	3.33715	27.71696	7.55082	58.414	0.6198
1999/8	2000/7	363.062	0.80001	5.78205	1.63894	14.927	0.5014
1999/9	2000/8	175.898	0.39734	2.17136	0.64746	6.802	0.4385
1999/10	2000/9	201.291	0.38247	2.13649	0.62262	6.642	0.4357
1999/11	2000/10	147.513	0.23438	0.82957	0.38706	4.356	0.3990
1999/12	2000/11	196.717	0.30643	0.94694	0.39606	5.308	0.4156
2000/1	2000/12	97.145	0.11565	0.40592	0.18069	2.213	0.3433
2000/2	2001/1	90.518	0.07038	0.31015	0.14315	1.533	0.3189
2000/3	2001/2	127.728	0.12832	0.55634	0.28198	2.934	0.3736
2000/4	2001/3	132.320	0.15134	0.51766	0.32241	3.487	0.3862
2000/5	2001/4	163.108	0.19798	0.71097	0.41353	4.590	0.4095
2000/6	2001/5	174.882	0.20707	0.74765	0.40641	4.840	0.4142
2000/7	2001/6	568.856	1.07546	5.71214	2.89122	30.215	0.5705
2000/8	2001/7	485.285	0.99941	5.77704	2.35698	28.620	0.5693
2000/9	2001/8	471.083	0.65872	3.75371	1.32675	18.998	0.5369
2000/10	2001/9	481.029	0.57885	3.41700	0.94940	16.170	0.5264
2000/11	2001/10	512.603	0.71488	4.36383	0.96156	19.808	0.5475
2000/12	2001/11	581.582	0.55695	4.66927	0.19703	18.816	0.5442
2001/1	2001/12	636.139	0.51401	4.69601	-0.00373	18.244	0.5412
2001/2	2002/1	205.794	0.07650	0.86272	0.03679	3.012	0.4009
2001/3	2002/2	172.637	0.05084	0.51711	0.00104	1.827	0.3664
2001/4	2002/3	108.355	0.02674	0.30574	-0.00192	0.913	0.3162
2001/5	2002/4	85.580	0.02012	0.22413	-0.00616	0.659	0.2922
2001/6	2002/5	86.097	0.02023	0.22663	-0.00500	0.665	0.2947
2001/7	2002/6	177.762	0.06052	0.80205	0.02407	2.226	0.4003
2001/8	2002/7	125.606	0.03466	0.44559	0.01724	1.338	0.3563
2001/9	2002/8	114.561	0.02425	0.32837	0.01525	0.954	0.3287
2001/10	2002/9	110.058	0.02060	0.27738	0.01409	0.868	0.3161
2001/11	2002/10	91.749	0.01985	0.25298	0.01622	0.849	0.3124
2001/12	2002/11	188.041	0.05802	0.68501	0.05629	2.809	0.4045
2002/1	2002/12	148.937	0.04608	0.55308	0.04962	2.264	0.3872
2002/2	2003/1	101.100	0.02152	0.20907	0.02581	1.175	0.3266
2002/3	2003/2	174.905	0.05969	0.68649	0.08069	3.840	0.4194
2002/4	2003/3	307.752	0.11193	1.34688	0.15815	7.461	0.4724
2002/5	2003/4	282.612	0.12687	1.40067	0.22719	8.474	0.4801
2002/6	2003/5	165.635	0.05460	0.48215	0.06591	3.385	0.4010
2002/7	2003/6	122.441	0.03996	0.29593	0.04091	2.349	0.3759
2002/8	2003/7	130.184	0.04195	0.29767	0.04203	2.497	0.3784
2002/9	2003/8	127.153	0.04984	0.33419	0.05172	2.991	0.3933
2002/10	2003/9	240.962	0.13766	1.01634	0.16355	8.057	0.4792
2002/11	2003/10	225.847	0.08617	0.54283	0.10803	5.586	0.4439
2002/12	2003/11	112.729	0.04881	0.27716	0.03562	2.770	0.3887
2003/1	2003/12	262.517	0.20310	1.19785	0.15502	10.982	0.5057

Estimated model:

$$\frac{p^\lambda - 1}{\lambda} = \alpha + \sum_{i=1}^n \beta_{1i} z_{1i} + \sum_{i=1}^m \beta_{2i} z_{2i} + \sum_i^{11} T_i$$

- p price of product
- z_{11} CPU clock
- z_{12} HDD capacity
- z_{21} RAM capacity
- z_{22} TFT monitor size \times dummy
- T_i time dummy(monthly)

Table 13: semi Box-Cox : p-values

estimation period		const.	CPU clock	HDD	RAM	TFT size
start	end					
1999/2	2000/1	0.00	0.00	0.00	0.67	0.00
1999/3	2000/2	0.00	0.00	0.00	0.37	0.00
1999/4	2000/3	0.78	0.00	0.00	0.03	0.00
1999/5	2000/4	0.00	0.00	0.00	0.00	0.00
1999/6	2000/5	0.00	0.00	0.00	0.00	0.00
1999/7	2000/6	0.00	0.00	0.00	0.00	0.00
1999/8	2000/7	0.00	0.00	0.00	0.00	0.00
1999/9	2000/8	0.00	0.00	0.00	0.00	0.00
1999/10	2000/9	0.00	0.00	0.00	0.00	0.00
1999/11	2000/10	0.00	0.00	0.00	0.00	0.00
1999/12	2000/11	0.00	0.00	0.00	0.00	0.00
2000/1	2000/12	0.00	0.00	0.00	0.00	0.00
2000/2	2001/1	0.00	0.00	0.00	0.00	0.00
2000/3	2001/2	0.00	0.00	0.00	0.00	0.00
2000/4	2001/3	0.00	0.00	0.00	0.00	0.00
2000/5	2001/4	0.00	0.00	0.00	0.00	0.00
2000/6	2001/5	0.00	0.00	0.00	0.00	0.00
2000/7	2001/6	0.00	0.00	0.00	0.00	0.00
2000/8	2001/7	0.00	0.00	0.00	0.00	0.00
2000/9	2001/8	0.00	0.00	0.00	0.00	0.00
2000/10	2001/9	0.00	0.00	0.00	0.00	0.00
2000/11	2001/10	0.00	0.00	0.00	0.00	0.00
2000/12	2001/11	0.00	0.00	0.00	0.43	0.00
2001/1	2001/12	0.00	0.00	0.00	0.99	0.00
2001/2	2002/1	0.00	0.00	0.00	0.32	0.00
2001/3	2002/2	0.00	0.00	0.00	0.96	0.00
2001/4	2002/3	0.00	0.00	0.00	0.85	0.00
2001/5	2002/4	0.00	0.00	0.00	0.43	0.00
2001/6	2002/5	0.00	0.00	0.00	0.53	0.00
2001/7	2002/6	0.00	0.00	0.00	0.33	0.00
2001/8	2002/7	0.00	0.00	0.00	0.22	0.00
2001/9	2002/8	0.00	0.00	0.00	0.13	0.00
2001/10	2002/9	0.00	0.00	0.00	0.11	0.00
2001/11	2002/10	0.00	0.00	0.00	0.03	0.00
2001/12	2002/11	0.00	0.00	0.00	0.01	0.00
2002/1	2002/12	0.00	0.00	0.00	0.00	0.00
2002/2	2003/1	0.00	0.00	0.00	0.00	0.00
2002/3	2003/2	0.00	0.00	0.00	0.00	0.00
2002/4	2003/3	0.00	0.00	0.00	0.00	0.00
2002/5	2003/4	0.00	0.00	0.00	0.00	0.00
2002/6	2003/5	0.00	0.00	0.00	0.00	0.00
2002/7	2003/6	0.00	0.00	0.00	0.00	0.00
2002/8	2003/7	0.00	0.00	0.00	0.00	0.00
2002/9	2003/8	0.00	0.00	0.00	0.00	0.00
2002/10	2003/9	0.00	0.00	0.00	0.00	0.00
2002/11	2003/10	0.00	0.00	0.00	0.00	0.00
2002/12	2003/11	0.00	0.00	0.00	0.00	0.00
2003/1	2003/12	0.00	0.00	0.00	0.00	0.00

Table 14: double Box-Cox : coefficients estimates

estimation period		const.	CPU clock	HDD	RAM	TFT size	Box-Cox parameter		
start	end	α	β_{11}	β_{12}	β_{21}	β_{22}	λ_0	λ_1	λ_2
1999/2	2000/1	1058.80	0.00021946	309.68601	0.21780	32.85384	0.57931	2.50705	0.28967
1999/3	2000/2	1495.70	0.49068493	591.41274	2.23115	69.11438	0.64010	1.35865	0.31252
1999/4	2000/3	938.86	0.46448862	1018.41788	8.77589	162.49261	0.70838	1.51948	0.35331
1999/5	2000/4	652.68	4.12176117	205.10057	6.17102	81.45704	0.64967	1.04625	0.60005
1999/6	2000/5	579.77	0.79965526	90.03284	2.97700	23.82907	0.55169	1.09334	0.37675
1999/7	2000/6	1644.15	0.00935999	99.33551	7.43194	56.67111	0.61736	1.90592	0.56219
1999/8	2000/7	551.25	0.00274174	19.04480	1.72018	15.48797	0.50440	1.87885	0.62140
1999/9	2000/8	191.57	0.01995326	13.40486	0.52728	5.56781	0.42237	1.42852	0.32903
1999/10	2000/9	242.47	0.00592736	12.41894	0.56207	6.00110	0.42743	1.62379	0.38777
1999/11	2000/10	85.15	0.16341526	11.68312	0.22298	2.48434	0.35367	0.96440	-0.00191
1999/12	2000/11	153.09	0.04792108	8.64468	0.26729	3.50544	0.38164	1.21342	0.20972
2000/1	2000/12	34.11	1.10019593	2.33839	0.10469	1.29141	0.29952	0.57050	0.30527
2000/2	2001/1	-61.91	17.81284267	0.96445	0.05952	0.71064	0.25606	0.05654	0.39373
2000/3	2001/2	-66.31	17.36891429	1.14779	0.07147	0.84767	0.27185	0.08812	0.38732
2000/4	2001/3	-88.88	21.71101146	1.99517	0.07338	0.89641	0.27550	0.06251	0.17542
2000/5	2001/4	-83.81	21.55410095	3.34212	0.05615	0.69905	0.25675	0.02761	-0.03400
2000/6	2001/5	-90.96	23.48146178	3.47073	0.04908	0.69301	0.25568	0.01493	-0.04404
2000/7	2001/6	-476.68	122.68506527	5.01631	0.14797	2.02895	0.34923	-0.07540	0.23158
2000/8	2001/7	-392.63	82.65203154	4.54593	0.16494	2.59615	0.37319	0.02101	0.36609
2000/9	2001/8	-546.63	180.33058584	3.44156	0.06798	1.23494	0.31332	-0.20008	0.22490
2000/10	2001/9	-430.09	139.51911518	2.29093	0.04872	1.03484	0.30191	-0.18238	0.31172
2000/11	2001/10	-274.13	62.25919020	2.60719	0.07638	1.72794	0.34813	0.01181	0.44654
2000/12	2001/11	-798.23	251.01756250	1.07810	0.03108	2.17294	0.37002	-0.17266	0.80805
2001/1	2001/12	-2571.83	1023.90753241	0.80271	0.01486	3.32371	0.40513	-0.31453	1.00204
2001/2	2002/1	289.83	0.02137622	0.61208	0.05418	4.20809	0.42793	1.22492	1.16572
2001/3	2002/2	464.21	0.00005483	0.80245	-0.02341	5.38284	0.45331	2.09763	1.16035
2001/4	2002/3	161.77	0.00008031	0.67988	-0.00777	1.38198	0.34897	1.86309	0.90573
2001/5	2002/4	135.25	0.00003258	0.50221	-0.01427	1.09173	0.33208	1.96010	0.92503
2001/6	2002/5	105.03	0.00005872	0.56666	-0.00811	0.77928	0.30673	1.83141	0.81424
2001/7	2002/6	123.93	0.00003072	3.79456	0.01178	1.24086	0.35288	1.96507	0.47510
2001/8	2002/7	109.53	0.00001247	2.33565	0.01183	1.00245	0.33260	2.05108	0.51931
2001/9	2002/8	91.35	0.00000237	1.80558	0.00979	0.65954	0.29834	2.21774	0.48452
2001/10	2002/9	84.70	0.00000063	1.77588	0.00869	0.56694	0.28038	2.36645	0.42776
2001/11	2002/10	71.09	0.00003329	0.89130	0.00948	0.53546	0.27408	1.80744	0.58220
2001/12	2002/11	70.32	0.02396534	0.88958	0.01452	0.69347	0.29183	0.93532	0.62192
2002/1	2002/12	48.66	0.09141898	0.62479	0.01180	0.49426	0.26481	0.70784	0.62871
2002/2	2003/1	39.51	0.01346815	0.44929	0.00666	0.29340	0.21534	0.88330	0.52016
2002/3	2003/2	58.59	0.01822595	1.14750	0.01687	0.72733	0.28635	0.94336	0.52370
2002/4	2003/3	81.39	0.01702355	2.49597	0.02669	1.16288	0.32417	1.01125	0.46085
2002/5	2003/4	64.31	0.00073952	5.93903	0.02954	1.04358	0.31280	1.41537	0.21640
2002/6	2003/5	36.36	0.00038224	2.97631	0.00750	0.36950	0.22368	1.37166	0.10518
2002/7	2003/6	35.02	0.00000125	3.67541	0.00493	0.33703	0.21992	2.11021	0.02317
2002/8	2003/7	35.64	0.00000066	4.67444	0.00495	0.35540	0.22241	2.19858	-0.02635
2002/9	2003/8	44.73	0.00000019	6.24520	0.00820	0.59585	0.26503	2.42278	0.01719
2002/10	2003/9	201.96	0.00000060	8.87113	0.06732	3.95580	0.42391	2.51938	0.38830
2002/11	2003/10	497.46	0.00000001	1.14334	0.13760	9.00332	0.48007	3.20946	0.91761
2002/12	2003/11	195.46	0.00003503	0.38447	0.03983	3.68880	0.41057	1.97144	0.97879
2003/1	2003/12	703.20	0.00075821	0.73443	0.23571	19.08951	0.54865	1.78837	1.20649

Estimated model:

$$\frac{p^{\lambda_0} - 1}{\lambda_0} = \alpha + \sum_{i=1}^2 \beta_{1i} \frac{z_{1i}^{\lambda_{1i}} - 1}{\lambda_{1i}} + \sum_{i=1}^2 \beta_{2i} z_{2i} + \sum_{i=1}^{11} T_i$$

- p price of product
- z_{11} CPU clock
- z_{12} HDD capacity
- z_{21} RAM capacity
- z_{22} TFT monitor size \times dummy
- T_i time dummy(monthly)

Table 15: double Box-Cox : p-values

estimation period		const.	CPU clock	HDD	RAM	TFT size
start	end					
1999/2	2000/1	0.00	0.00	0.00	0.81	0.00
1999/3	2000/2	0.00	0.00	0.00	0.21	0.00
1999/4	2000/3	0.38	0.00	0.00	0.02	0.00
1999/5	2000/4	0.00	0.00	0.00	0.00	0.00
1999/6	2000/5	0.00	0.00	0.00	0.00	0.00
1999/7	2000/6	0.00	0.00	0.00	0.00	0.00
1999/8	2000/7	0.00	0.00	0.00	0.00	0.00
1999/9	2000/8	0.00	0.00	0.00	0.00	0.00
1999/10	2000/9	0.00	0.00	0.00	0.00	0.00
1999/11	2000/10	0.00	0.00	0.00	0.00	0.00
1999/12	2000/11	0.00	0.00	0.00	0.00	0.00
2000/1	2000/12	0.00	0.00	0.00	0.00	0.00
2000/2	2001/1	0.00	0.00	0.00	0.00	0.00
2000/3	2001/2	0.00	0.00	0.00	0.00	0.00
2000/4	2001/3	0.00	0.00	0.00	0.00	0.00
2000/5	2001/4	0.00	0.00	0.00	0.00	0.00
2000/6	2001/5	0.00	0.00	0.00	0.00	0.00
2000/7	2001/6	0.00	0.00	0.00	0.00	0.00
2000/8	2001/7	0.00	0.00	0.00	0.00	0.00
2000/9	2001/8	0.00	0.00	0.00	0.00	0.00
2000/10	2001/9	0.00	0.00	0.00	0.00	0.00
2000/11	2001/10	0.00	0.00	0.00	0.00	0.00
2000/12	2001/11	0.00	0.00	0.00	0.29	0.00
2001/1	2001/12	0.00	0.00	0.00	0.74	0.00
2001/2	2002/1	0.00	0.00	0.00	0.29	0.00
2001/3	2002/2	0.00	0.00	0.00	0.69	0.00
2001/4	2002/3	0.00	0.00	0.00	0.62	0.00
2001/5	2002/4	0.00	0.00	0.00	0.26	0.00
2001/6	2002/5	0.00	0.00	0.00	0.38	0.00
2001/7	2002/6	0.00	0.00	0.00	0.39	0.00
2001/8	2002/7	0.00	0.00	0.00	0.26	0.00
2001/9	2002/8	0.00	0.00	0.00	0.16	0.00
2001/10	2002/9	0.00	0.00	0.00	0.12	0.00
2001/11	2002/10	0.00	0.00	0.00	0.04	0.00
2001/12	2002/11	0.00	0.00	0.00	0.01	0.00
2002/1	2002/12	0.00	0.00	0.00	0.00	0.00
2002/2	2003/1	0.00	0.00	0.00	0.00	0.00
2002/3	2003/2	0.00	0.00	0.00	0.00	0.00
2002/4	2003/3	0.00	0.00	0.00	0.00	0.00
2002/5	2003/4	0.00	0.00	0.00	0.00	0.00
2002/6	2003/5	0.00	0.00	0.00	0.00	0.00
2002/7	2003/6	0.00	0.00	0.00	0.00	0.00
2002/8	2003/7	0.00	0.00	0.00	0.00	0.00
2002/9	2003/8	0.00	0.00	0.00	0.00	0.00
2002/10	2003/9	0.00	0.00	0.00	0.00	0.00
2002/11	2003/10	0.00	0.00	0.00	0.00	0.00
2002/12	2003/11	0.00	0.00	0.00	0.00	0.00
2003/1	2003/12	0.00	0.00	0.00	0.00	0.00