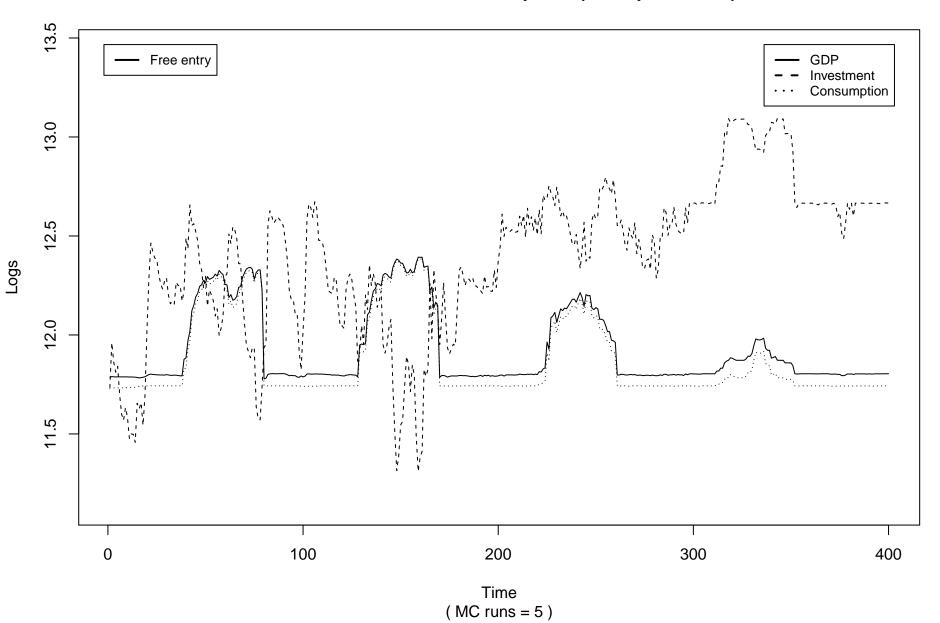
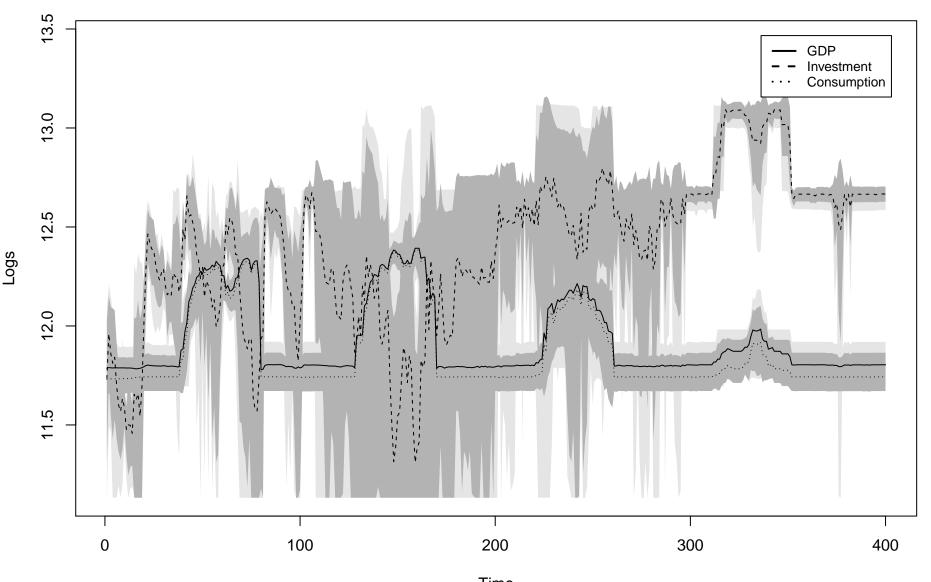
GDP, investment and consumption (all experiments)

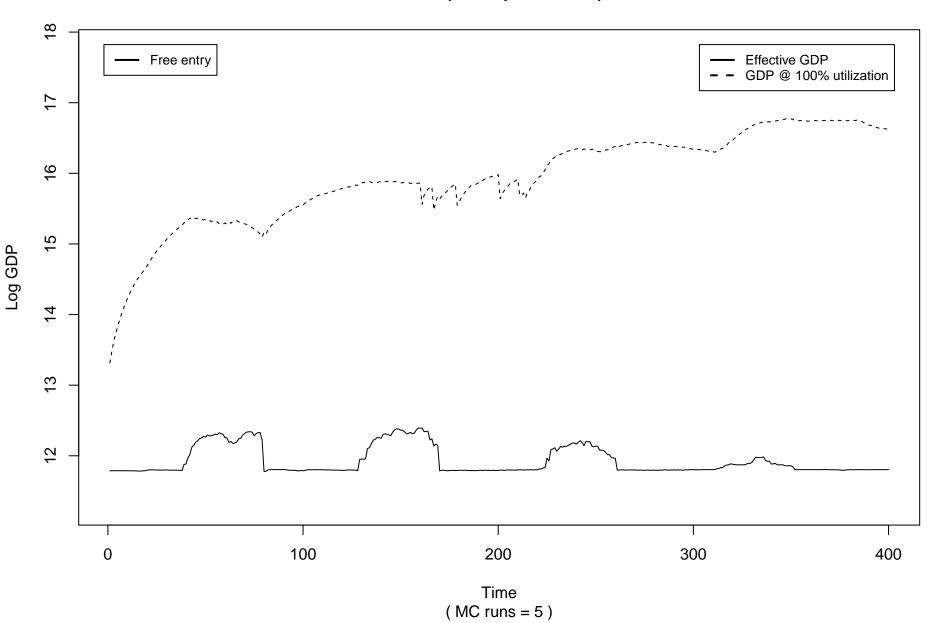


GDP, investment and consumption (Free entry)

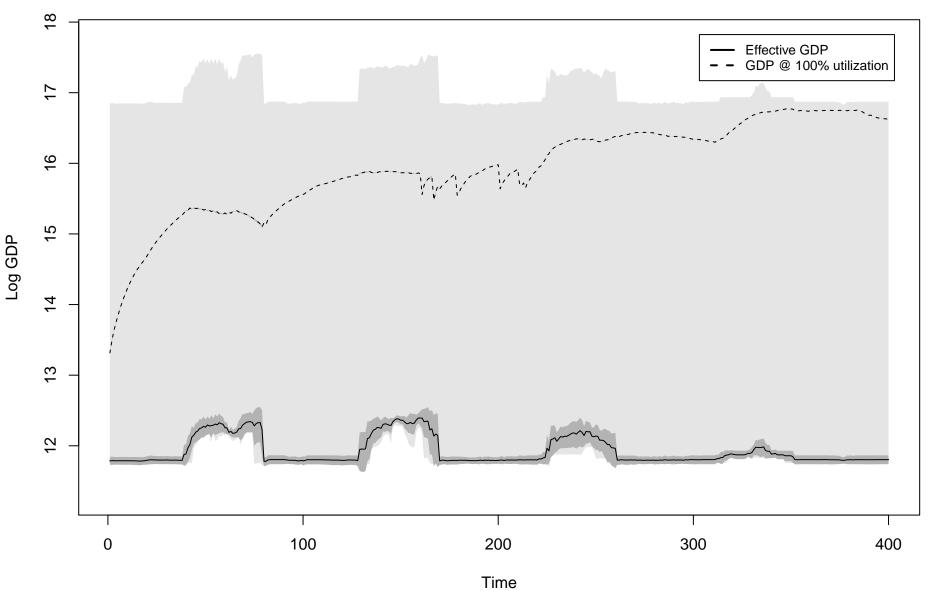


Time (95% confidence band in gray, min/max values in light gray / MC runs = 5)

GDP (all experiments)

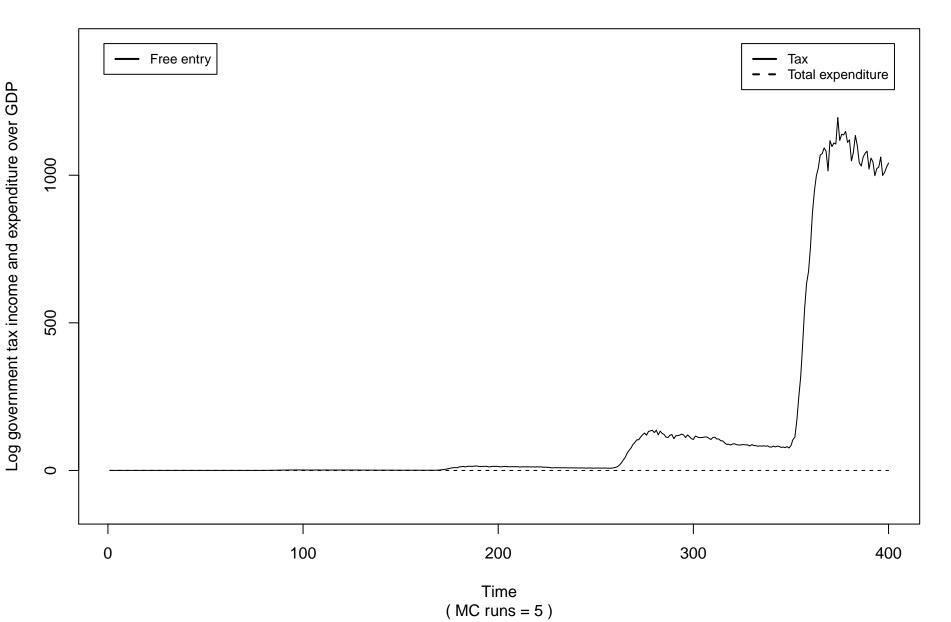


GDP (Free entry)

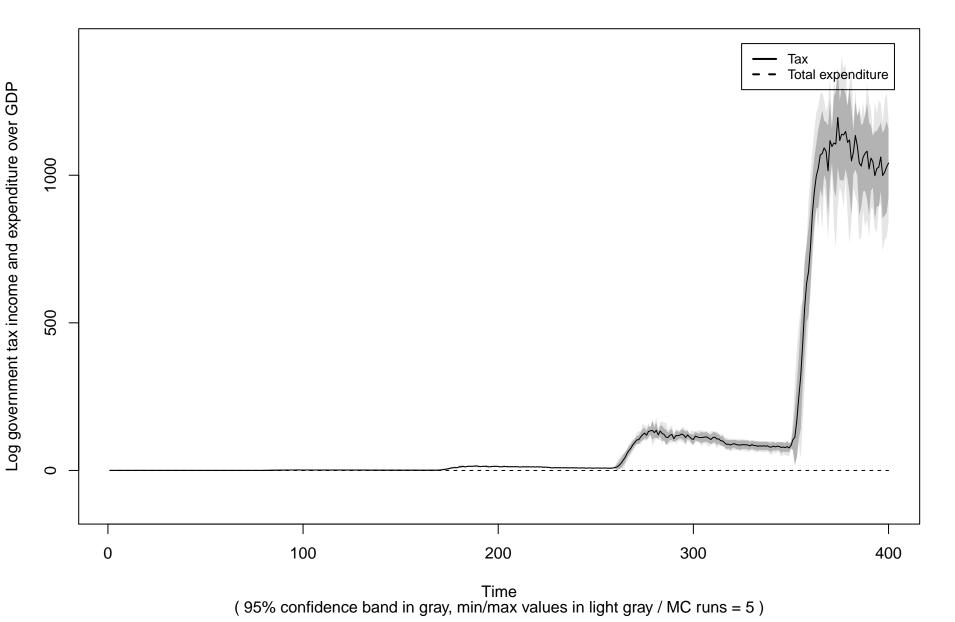


Time (95% confidence band in gray, min/max values in light gray / MC runs = 5)

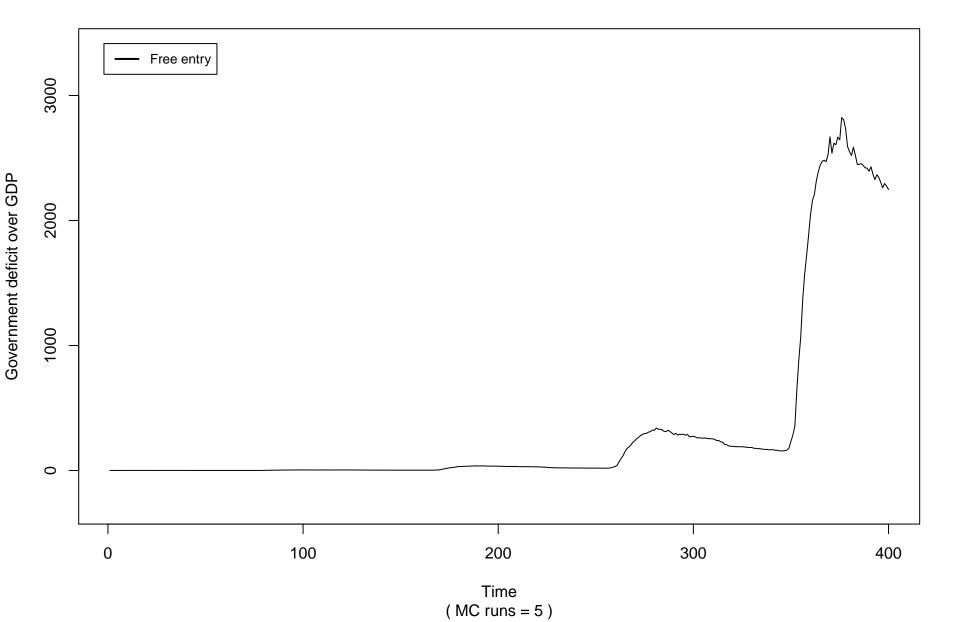
Government income and expenditure on GDP (all experiments)



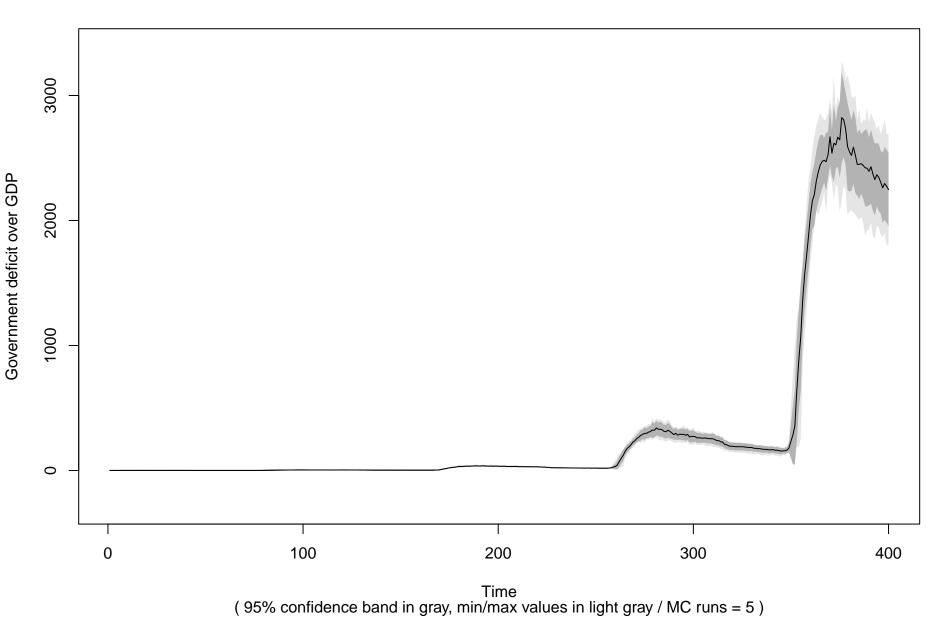
Government income and expenditure on GDP (Free entry)



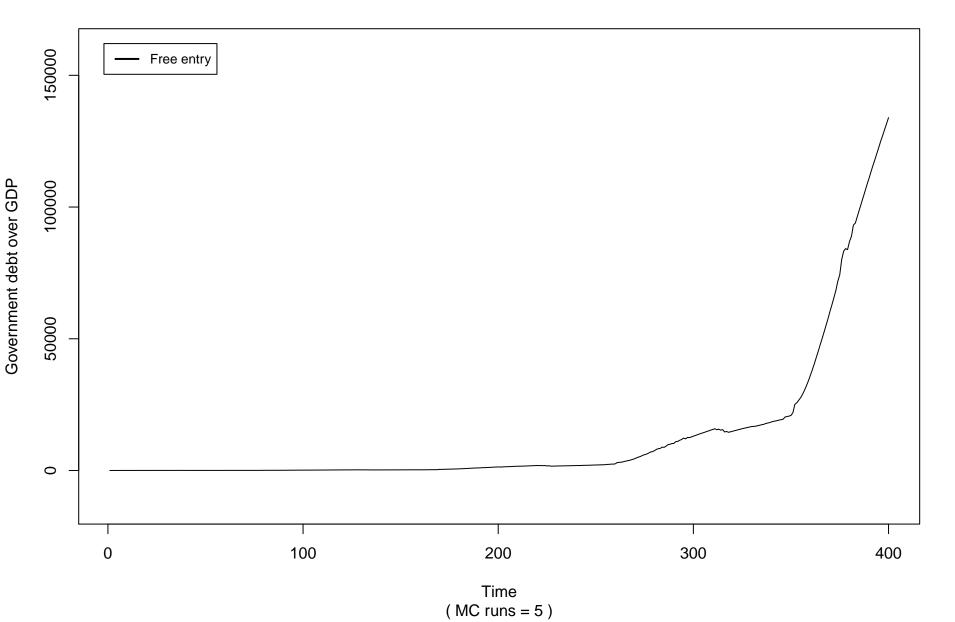
Government deficit on GDP (all experiments)



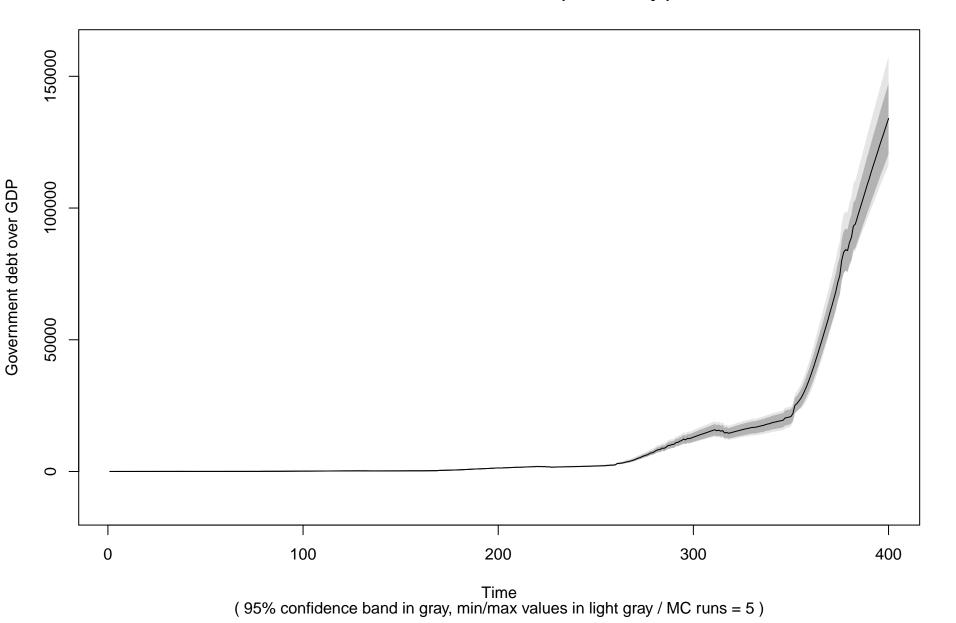
Government deficit on GDP (Free entry)



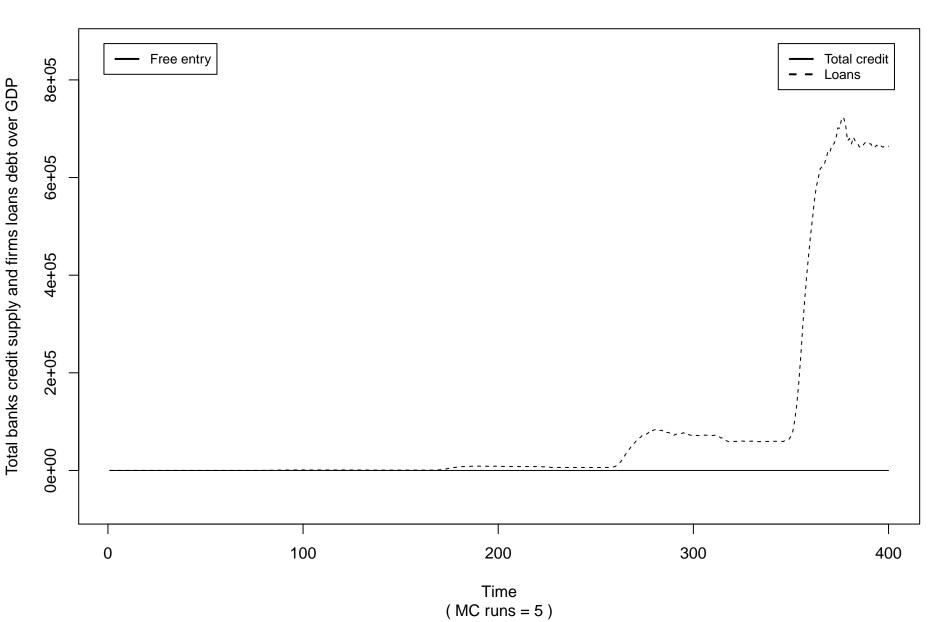
Government debt on GDP (all experiments)



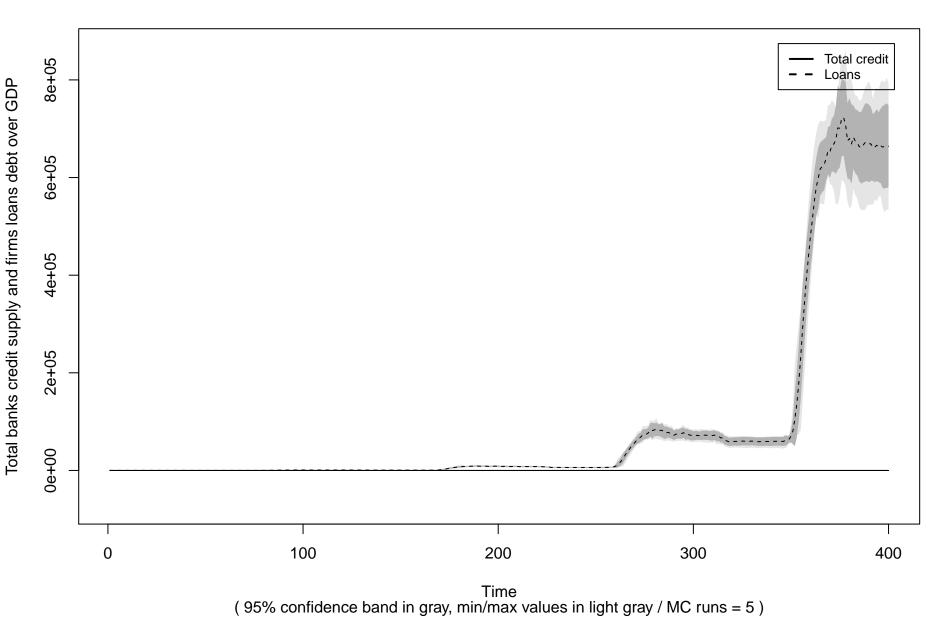
Government debt on GDP (Free entry)



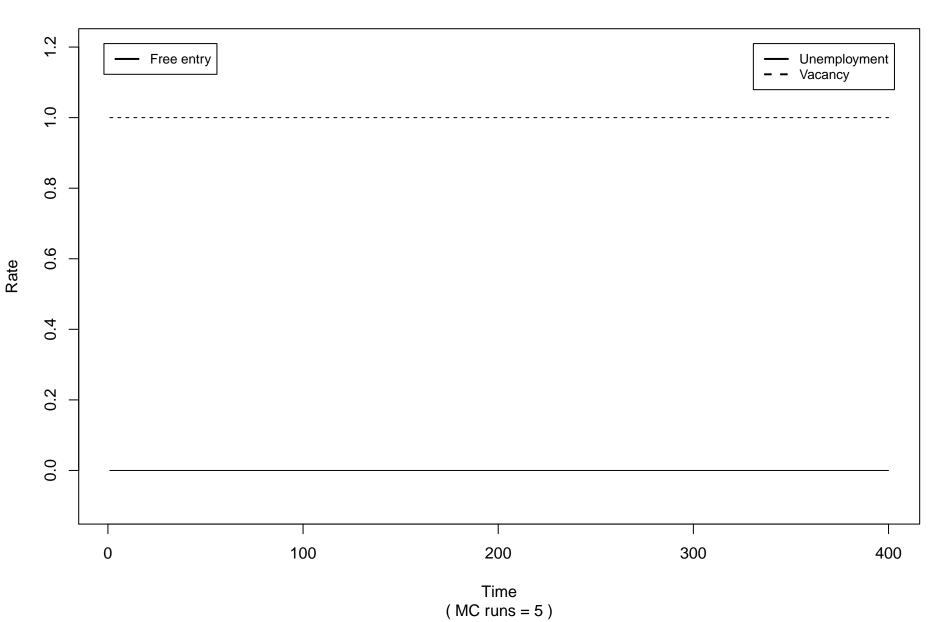
Total credit supply and loans on GDP (all experiments)



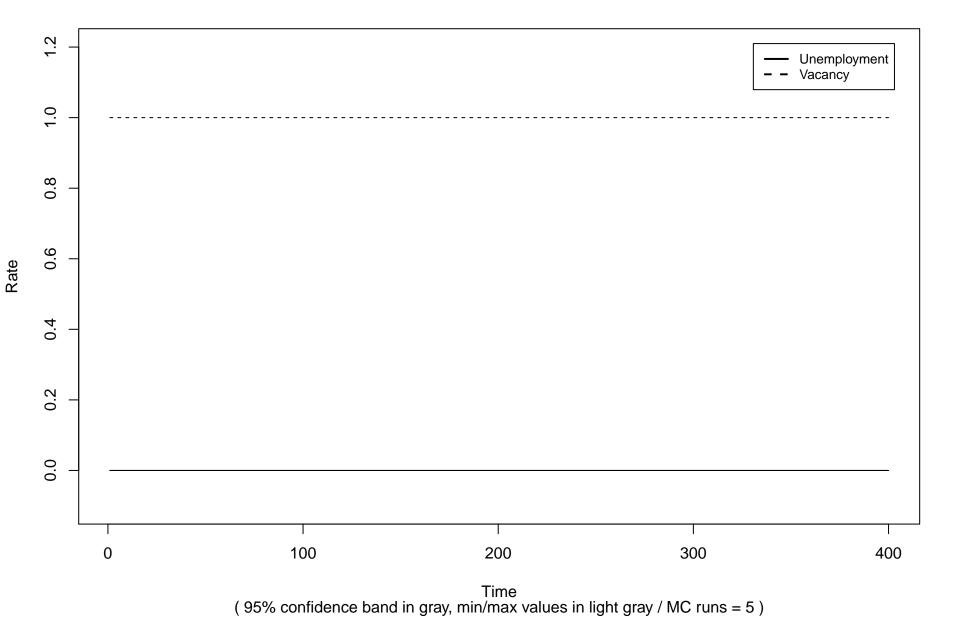
Total credit supply and loans on GDP (Free entry)



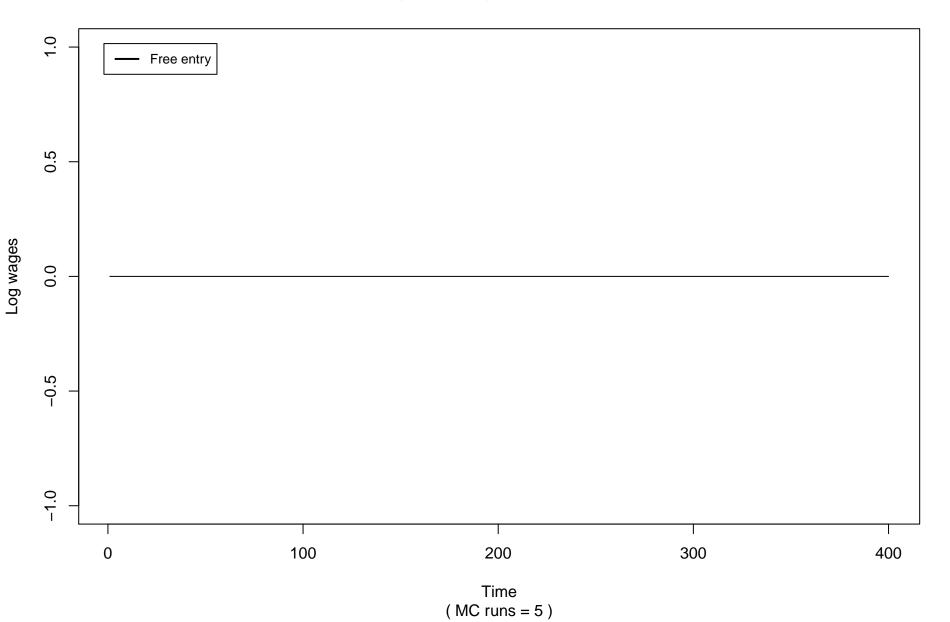
Unemployment and vacancy rates (all experiments)



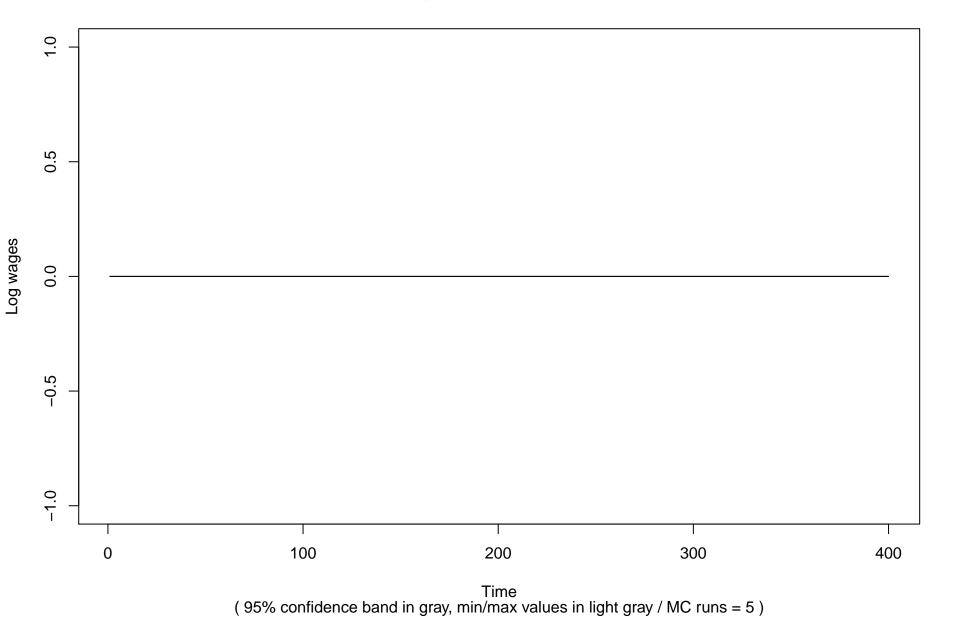
Unemployment and vacancy rates (Free entry)



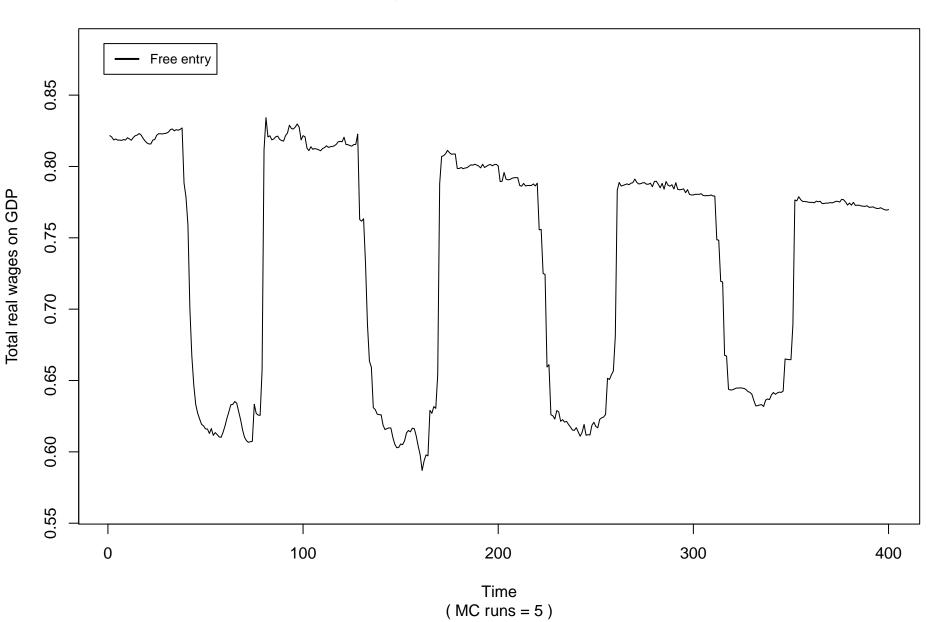
Real wages average (all experiments)



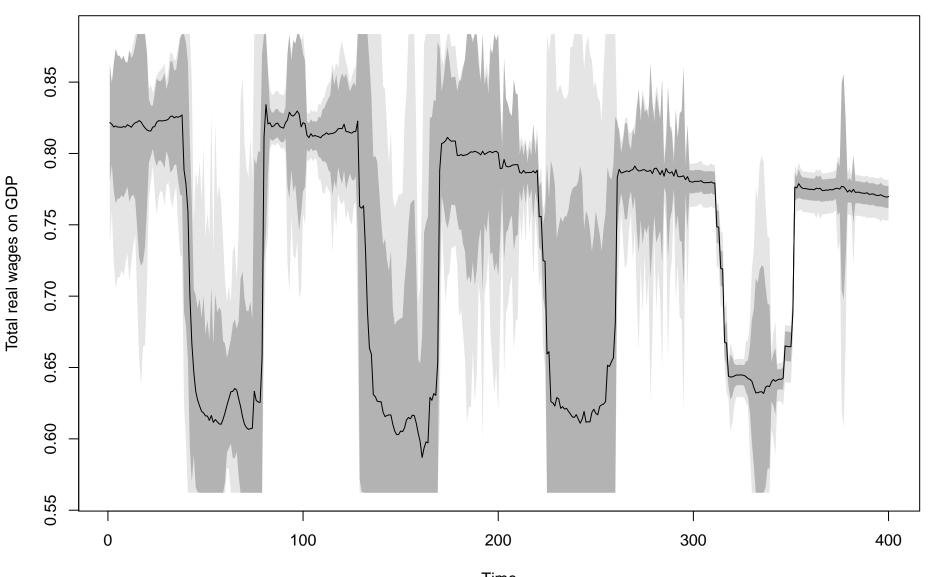
Real wages average (Free entry)



Wage share (all experiments)

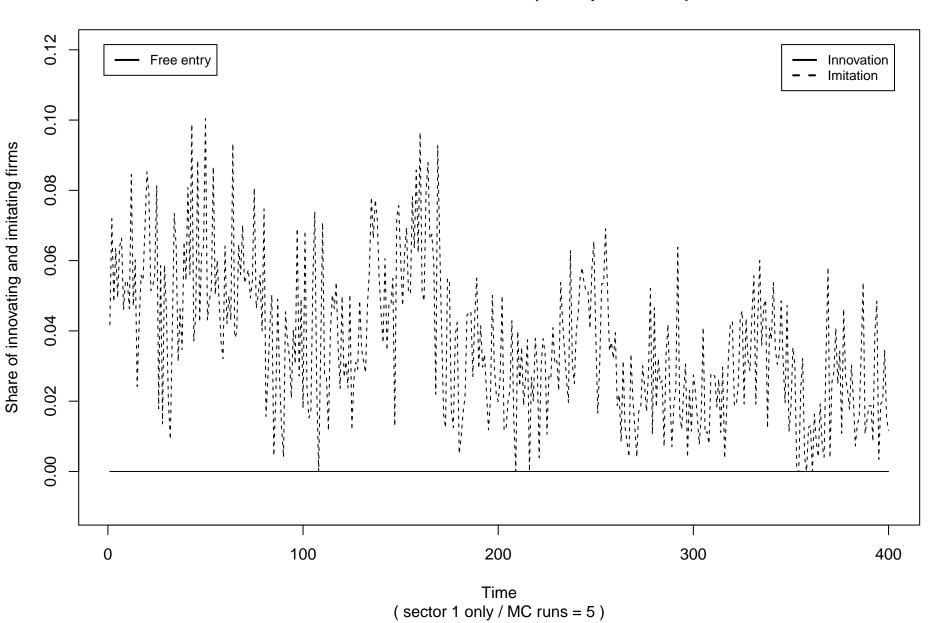


Wage share (Free entry)

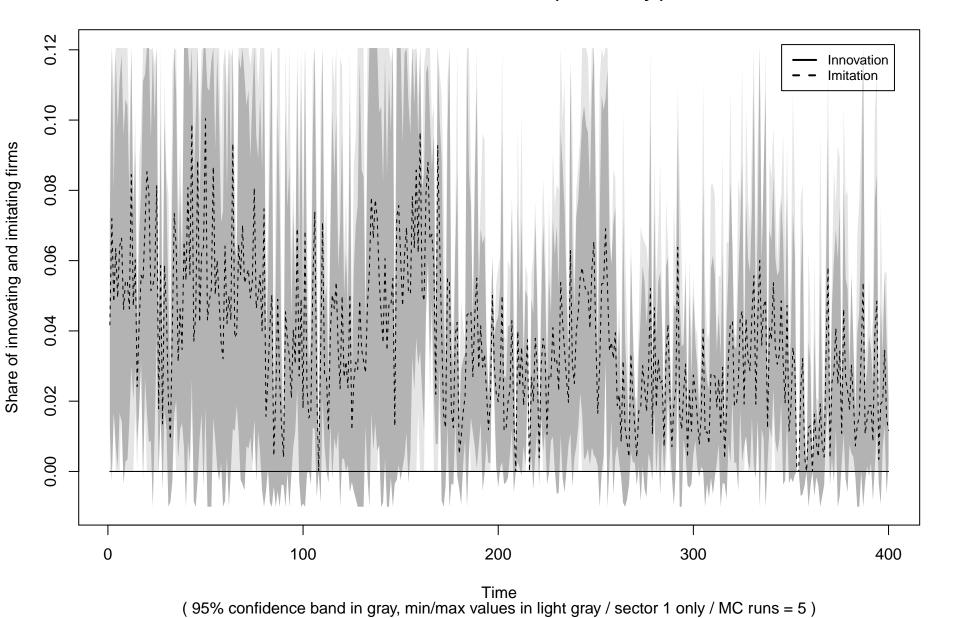


Time (95% confidence band in gray, min/max values in light gray / MC runs = 5)

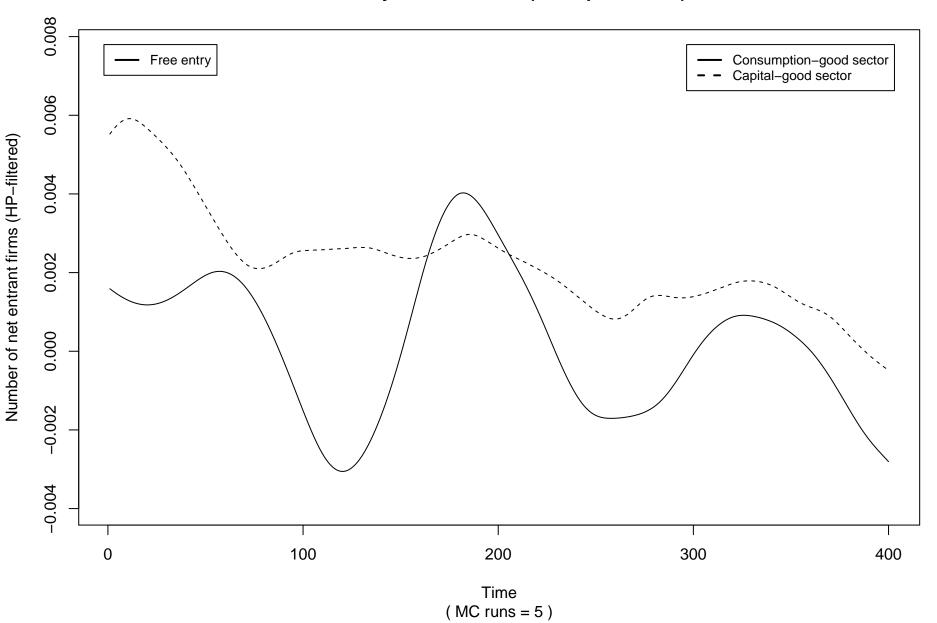
Innovation and imitation (all experiments)



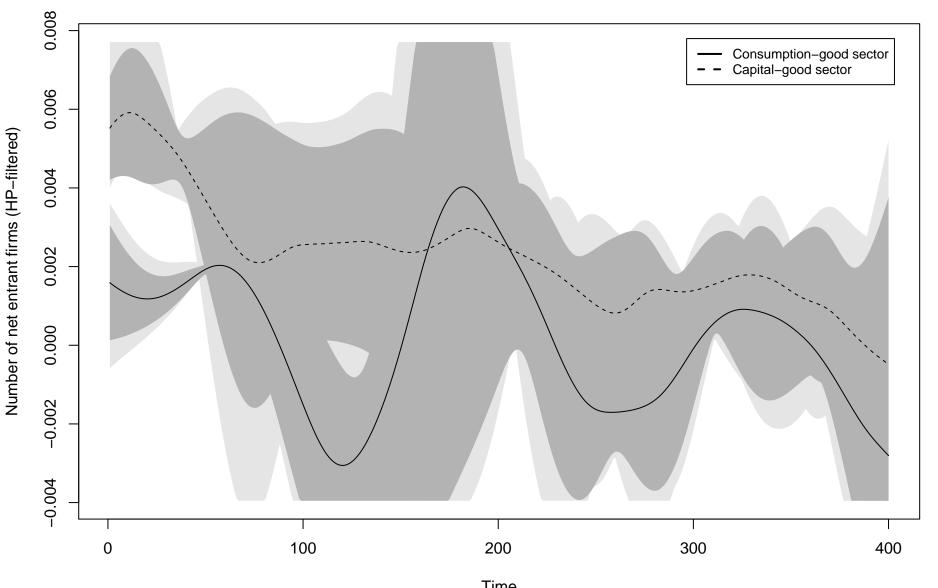
Innovation and imitation (Free entry)



Net entry of firms trend (all experiments)

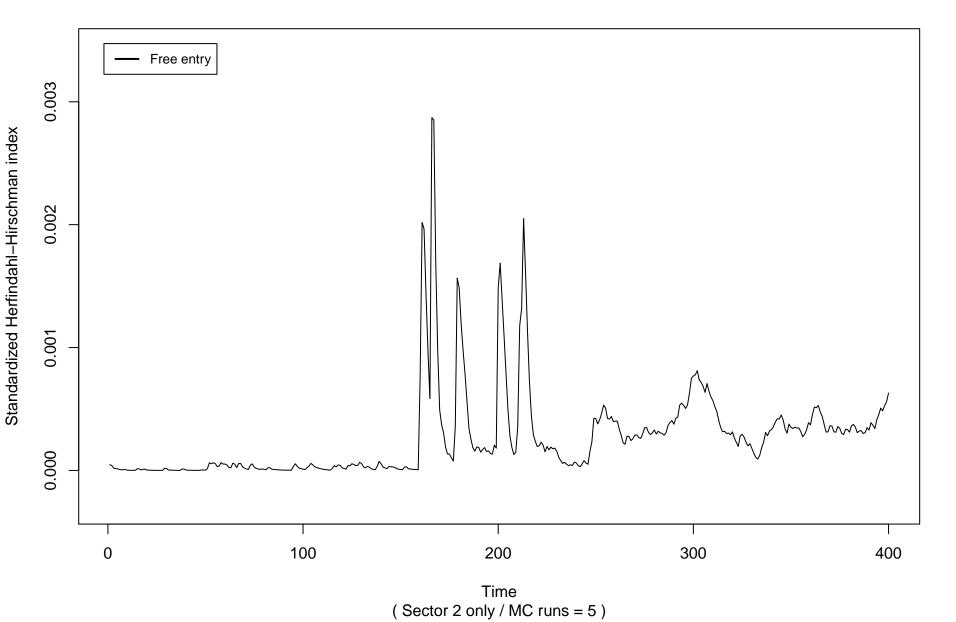


Net entry of firms trend (Free entry)

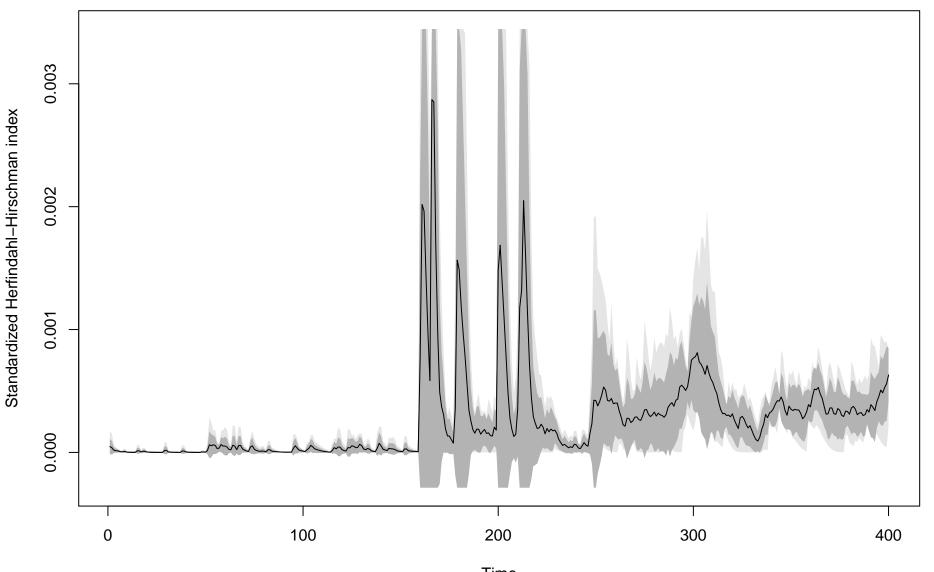


Time (95% confidence band in gray, min/max values in light gray / MC runs = 5)

Market concentration (all experiments)

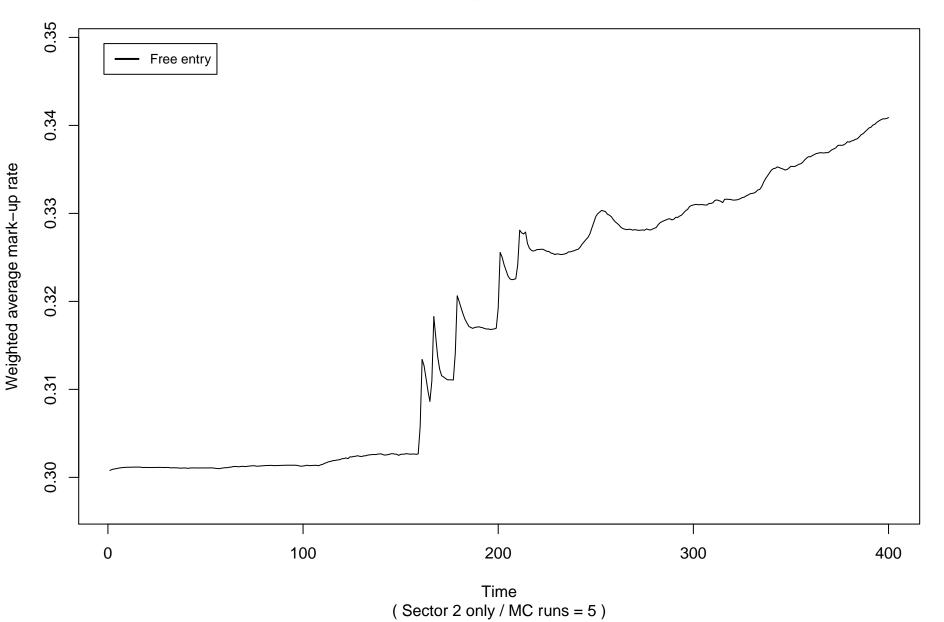


Market concentration (Free entry)

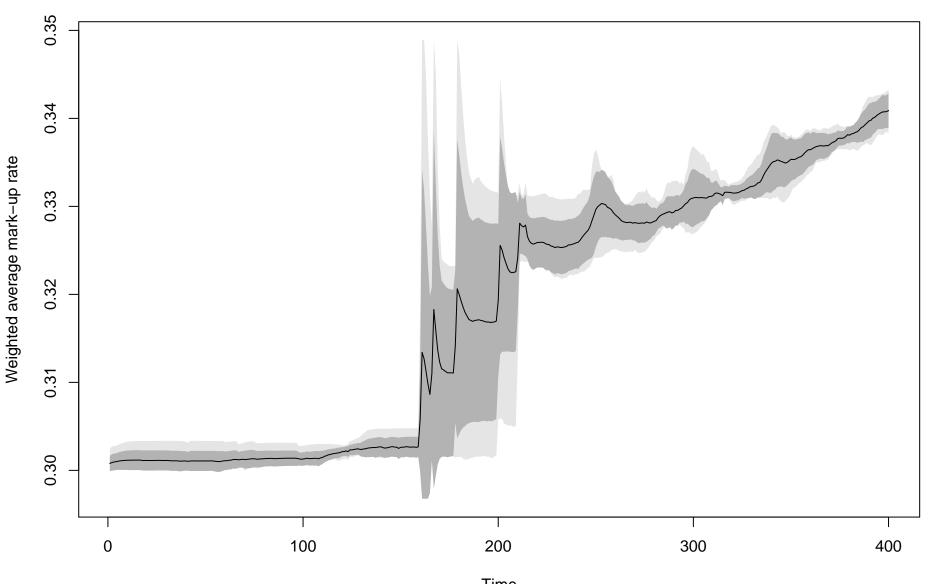


Time (95% confidence band in gray, min/max values in light gray / Sector 2 only / MC runs = 5)

Mark-up average (all experiments)

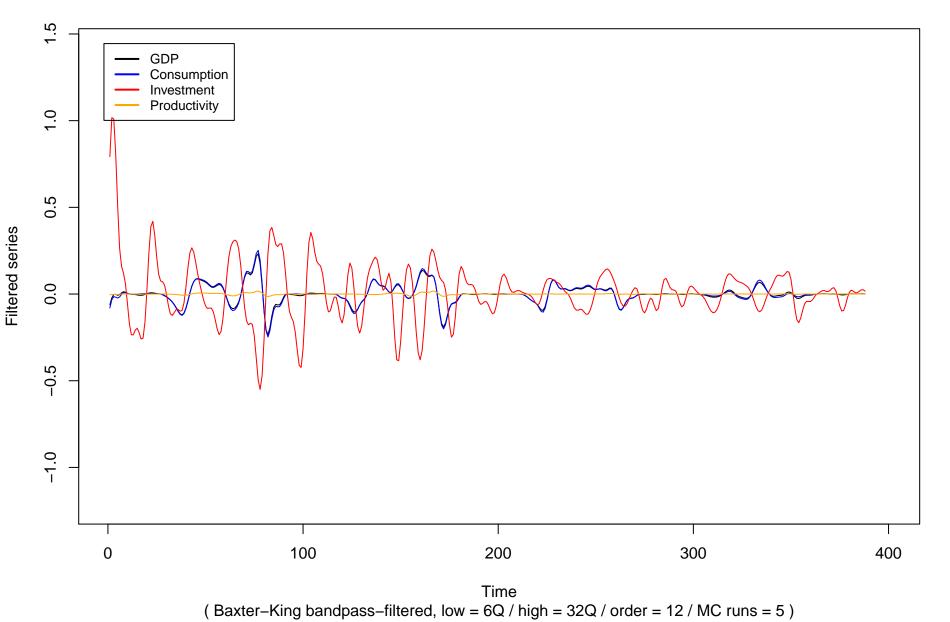


Mark-up average (Free entry)

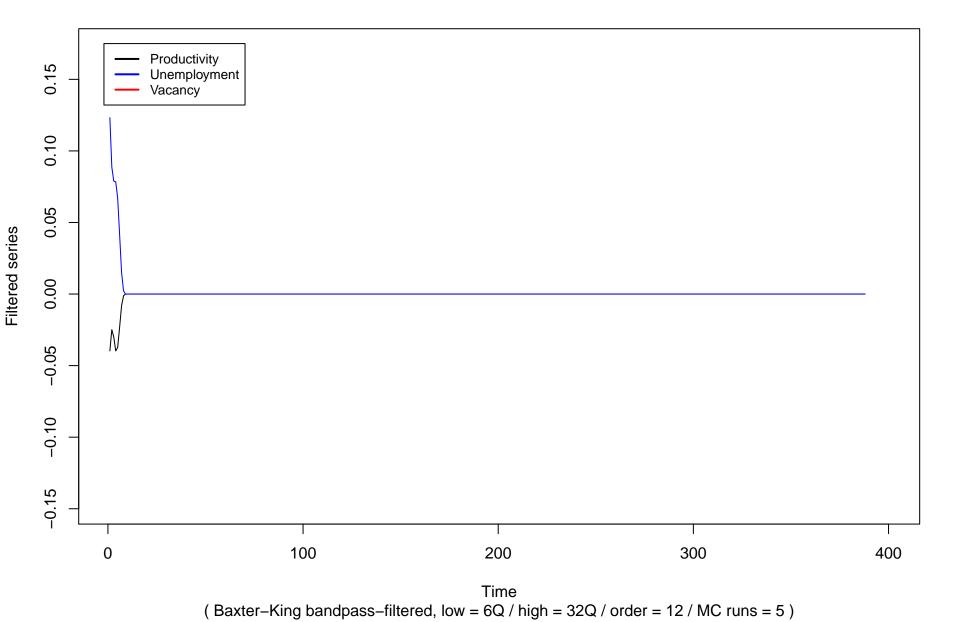


Time (95% confidence band in gray, min/max values in light gray / Sector 2 only / MC runs = 5)

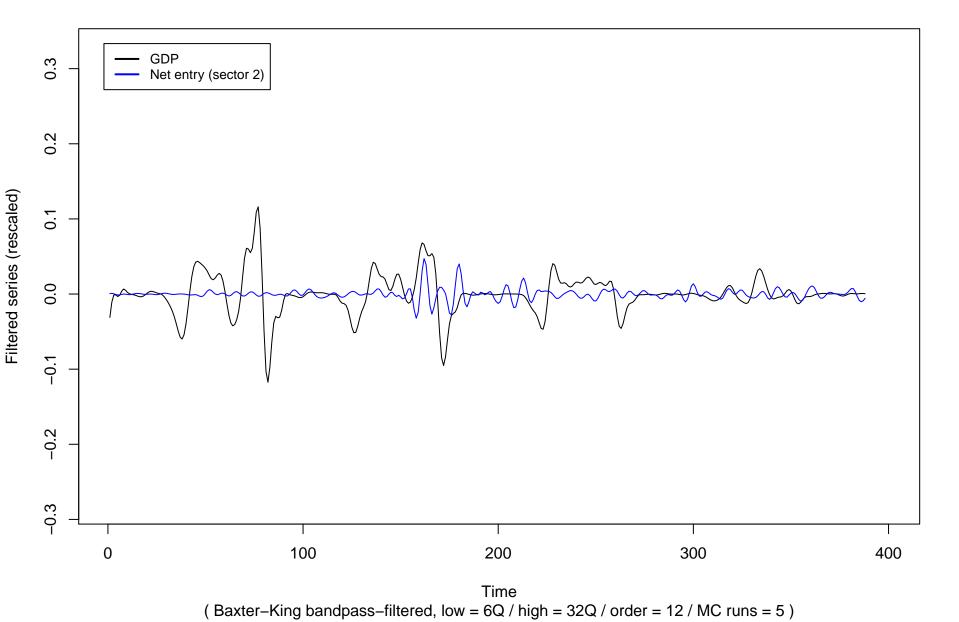
GDP cycles (Free entry)



Shimer puzzle (Free entry)



Net entry dynamics and business cycle (Free entry)



Key statistics and unit roots tests for cycles (Free entry)

	GDP (output)	Consumption	Investment	Product.	Real wage
avg. growth rate	3.22e-05	-3.01e-07	0.00269	1.698e-05	0
(s.e.)	2.451e-05	3.01e-07	0.002519	1.701e-05	0
ADF test (logs)	-2.791	-2.868	-2.704	-4.154	NaN
(s.e.)	0.2197	0.2145	0.3539	0.6292	NA
(p-val.)	0.2666	0.2379	0.3304	0.08041	NaN
(s.e.)	0.07454	0.0696	0.1083	0.04352	NA
ADF test (bpf)	-4.508	-4.582	-5.173	-5.384	NaN
(s.e.)	0.2482	0.2456	0.5371	0.2579	NA
(p-val.)	0.01191	0.01141	0.01	0.01	NaN
(s.e.)	0.001911	0.001405	0	0	NA
s.d. (bpf)	0.05089	0.05487	0.197	0.0009179	0
(s.e.)	0.01005	0.01215	0.02876	0.0005622	0
relative s.d. (GDP)	1	1.078	3.87	0.01804	0

Correlation structure for GDP (Free entry)

	-4	-3	-2	-1	0	1	2	3	4	
GDP (output)	0.1228	0.3778	0.6704	0.9081	1	0.9081	0.6704	0.3778	0.1228	
(s.e.)	0.06249	0.05518	0.03362	0.01012	2.483e-17	0.01012	0.03362	0.05518	0.06249	
(p-val.)	0.2218	0.003131	3.25e-05	6.939e-08	NA	6.939e-08	3.25e-05	0.003131	0.2218	
Consumption	0.1282	0.3743	0.6554	0.8855	0.9785	0.897	0.6748	0.3965	0.1498	
(s.e.)	0.05708	0.05407	0.03741	0.02034	0.01669	0.02008	0.03556	0.05284	0.05809	
(p–val.)	0.1841	0.003042	5.496e-05	1.261e-06	3.689e-07	1.133e-06	3.94e-05	0.002137	0.1559	
Investment	-0.01543	-0.03319	-0.07379	-0.1344	-0.2019	-0.2588	-0.2898	-0.288	-0.254	
(s.e.)	0.09739	0.1122	0.1366	0.168	0.1868	0.1779	0.1428	0.0987	0.07651	
(p–val.)	0.1296	0.02662	5.136e-05	0.01447	0.003738	0.0003248	0.00163	0.02791	0.04766	
Net investment	0.0226	0.08558	0.102	0.06149	-0.02277	-0.1243	-0.2148	-0.2736	-0.2877	
(s.e.)	0.09993	0.09148	0.08735	0.1033	0.13	0.1445	0.1368	0.1128	0.09456	
(p–val.)	0.1508	0.3195	0.08362	0.1091	0.1041	0.05299	0.05332	0.0873	0.05091	
Change in inventories	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
(s.e.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
(p–val.)	1	1	1	1	1	1	1	1	1	
Unemployment rate	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	
(s.e.)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
(p-val.)	1	1	1	1	1	1	1	1	1	
Productivity	0.06785	0.1264	0.1984	0.2586	0.2793	0.2481	0.1774	0.09516	0.02717	
(s.e.)	0.04971	0.07376	0.1054	0.1349	0.1504	0.143	0.1109	0.06196	0.01139	
(p-val.)	0.6447	0.2957	0.1616	0.128	0.1307	0.1558	0.2186	0.4368	0.997	
Mark-up (sector 2)	0.1331	0.07885	0.009634	-0.06826	-0.1435	-0.2027	-0.2359	-0.2442	-0.2364	
(s.e.)	0.1123	0.08689	0.06137	0.05211	0.06491	0.08377	0.1001	0.1109	0.1161	
(p-val.)	0.1506	0.2671	0.4693	0.4304	0.2191	0.1207	0.06668	0.0373	0.01595	
Total firm debt	-0.3744	-0.3469	-0.2752	-0.1714	-0.0571	0.04519	0.1203	0.1642	0.1815	
(s.e.)	0.1212	0.128	0.1289	0.1196	0.09946	0.07342	0.0507	0.03894	0.03607	
(p-val.)	0.03858	0.05637	0.1096	0.1889	0.1256	0.2152	0.2352	0.06044	0.02995	
Liquidity-to-sales ratio	-0.1251	-0.1288	-0.1242	-0.105	-0.06906	-0.02074	0.02972	0.07094	0.09565	
(s.e.)	0.04642	0.06775	0.08807	0.09894	0.09365	0.07169	0.04074	0.01807	0.02539	
(p-val.)	0.2324	0.279	0.2548	0.2793	0.3294	0.4108	0.7188	0.7963	0.3843	
Bankruptcy rate	0.1232	0.1489	0.1632	0.1498	0.1023	0.02961	-0.04607	-0.1063	-0.1454	
(s.e.)	0.06709	0.09536	0.1093	0.1003	0.07226	0.04624	0.0529	0.074	0.08777	
(p-val.)	0.2	0.06597	0.03851	0.03238	0.04528	0.6311	0.4989	0.4069	0.2734	.00)

(non-rate/ratio series are Baxter-King bandpass-filtered, low = 6Q / high = 32Q / order = 12 / MC runs = 5 / period = 301 - 500) (test H0: lag coefficient is not significant at 5% level)

Correlation structure for GDP (Free entry)

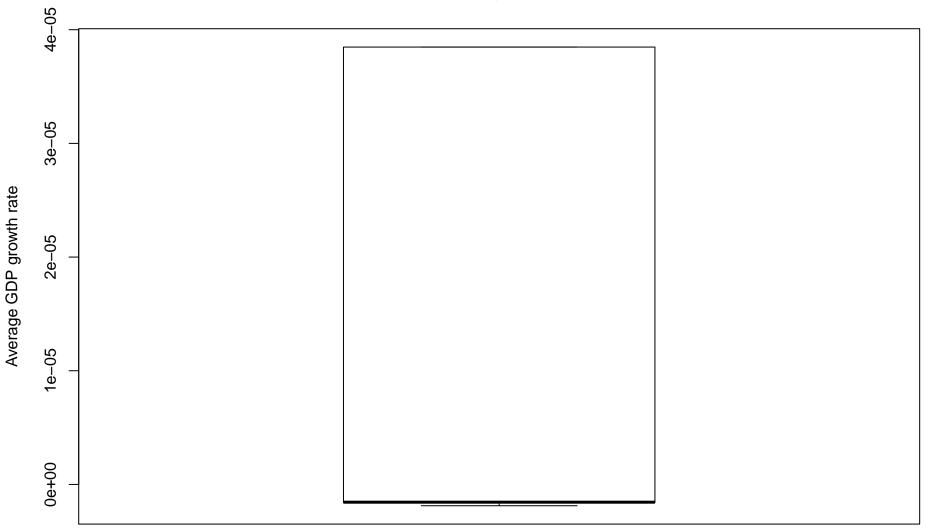
	-4	-3	-2	-1	0	1	2	3	4
GDP (output)	0.1228	0.3778	0.6704	0.9081	1	0.9081	0.6704	0.3778	0.1228
(s.e.)	0.06249	0.05518	0.03362	0.01012	2.483e-17	0.01012	0.03362	0.05518	0.06249
(p–val.)	0.2218	0.003131	3.25e-05	6.939e-08	NA	6.939e-08	3.25e-05	0.003131	0.2218
Consumption	0.1282	0.3743	0.6554	0.8855	0.9785	0.897	0.6748	0.3965	0.1498
(s.e.)	0.05708	0.05407	0.03741	0.02034	0.01669	0.02008	0.03556	0.05284	0.05809
(p-val.)	0.1841	0.003042	5.496e-05	1.261e-06	3.689e-07	1.133e-06	3.94e-05	0.002137	0.1559
Investment	-0.01543	-0.03319	-0.07379	-0.1344	-0.2019	-0.2588	-0.2898	-0.288	-0.254
(s.e.)	0.09739	0.1122	0.1366	0.168	0.1868	0.1779	0.1428	0.0987	0.07651
(p-val.)	0.1296	0.02662	5.136e-05	0.01447	0.003738	0.0003248	0.00163	0.02791	0.04766
Productivity	0.06785	0.1264	0.1984	0.2586	0.2793	0.2481	0.1774	0.09516	0.02717
(s.e.)	0.04971	0.07376	0.1054	0.1349	0.1504	0.143	0.1109	0.06196	0.01139
(p-val.)	0.6447	0.2957	0.1616	0.128	0.1307	0.1558	0.2186	0.4368	0.997
Net entry	-0.03818	-0.02633	-0.01042	-0.008344	-0.02298	-0.04032	-0.04121	-0.01925	0.01526
(s.e.)	0.0438	0.04098	0.04721	0.04027	0.0215	0.01506	0.02744	0.03972	0.04908
(p-val.)	0.6529	0.6995	0.6597	0.7867	0.9928	0.9826	0.9114	0.8274	0.6499
Entry	0.05601	0.07292	0.09183	0.08401	0.03976	-0.0236	-0.07411	-0.09212	-0.0819
(s.e.)	0.03433	0.03052	0.05359	0.0613	0.0452	0.02279	0.02561	0.03854	0.04567
(p–val.)	0.6932	0.6025	0.2065	0.2609	0.5862	0.9772	0.6876	0.4567	0.4624
Wage	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
(s.e.)	NA	NA	NA	NA	NA	NA	NA	NA	NA
(p–val.)	1	1	1	1	1	1	1	1	1
Unemployment rate	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
(s.e.)	NA	NA	NA	NA	NA	NA	NA	NA	NA
(p–val.)	1	1	1	1	1	1	1	1	1
Vacancy rate	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
(s.e.)	NA	NA	NA	NA	NA	NA	NA	NA	NA
(p-val.)	1	1	1	1	1	1	1	1	1

Stationarity, i.i.d. and ergodicity tests (Free entry)

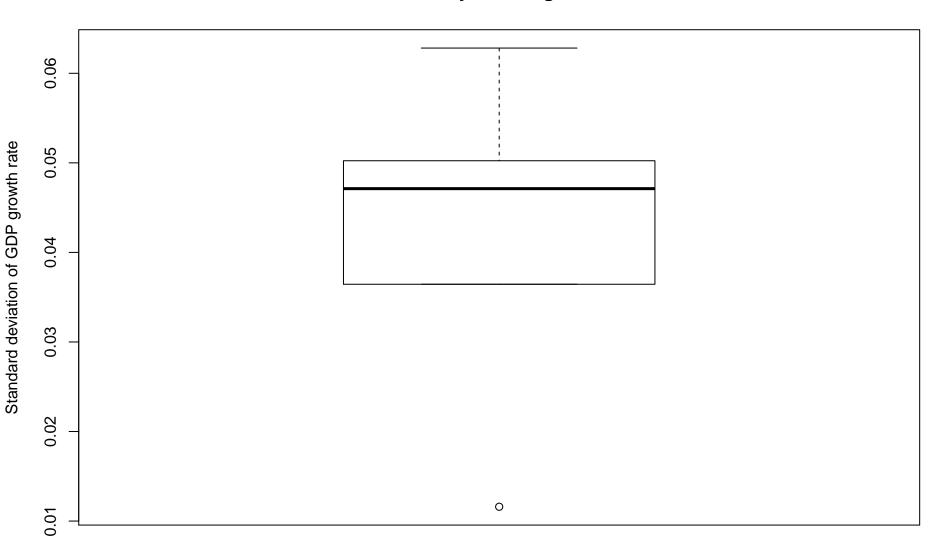
	avg.ADF	rej.ADF	avg.PP	rej.PP	avg.KPSS	rej.KPSS	avg.BDS	rej.BDS	avg.KS	rej.KS	AD	V
dGDP	0.01	1.00	0.01	1.00	0.10	0.00	0.09	0.60	0.23	0.40	0.01	C
dA	0.01	1.00	0.01	1.00	0.10	0.00	0.00	1.00	0.07	0.60	0.00	C
dw	0.01	1.00	0.01	1.00	0.10	0.00	0.00	1.00	0.05	0.70	0.00	C
V	NA	NA	NA	NA	0.10	0.00	NA	NA	1.00	0.00	NA	C
U	NA	NA	NA	NA	NA	NA	NA	NA	1.00	0.00	NA	C
mu2avg	0.35	0.40	0.33	0.40	0.01	1.00	0.00	1.00	0.00	1.00	0.00	C
HH1	0.25	0.40	0.02	1.00	0.02	1.00	0.00	1.00	0.20	0.40	0.00	C
HH2	0.12	0.80	0.11	0.60	0.06	0.40	0.00	1.00	0.18	0.50	0.00	C

(average p-values for testing H0 and rate of rejection of H0 / MC runs = 5 / period = 301 - 500) (ADF/PP H0: non-stationary, KPSS H0: stationary, BDS H0: i.i.d., KS/AD/WW H0: ergodic) (significance = 0.05)



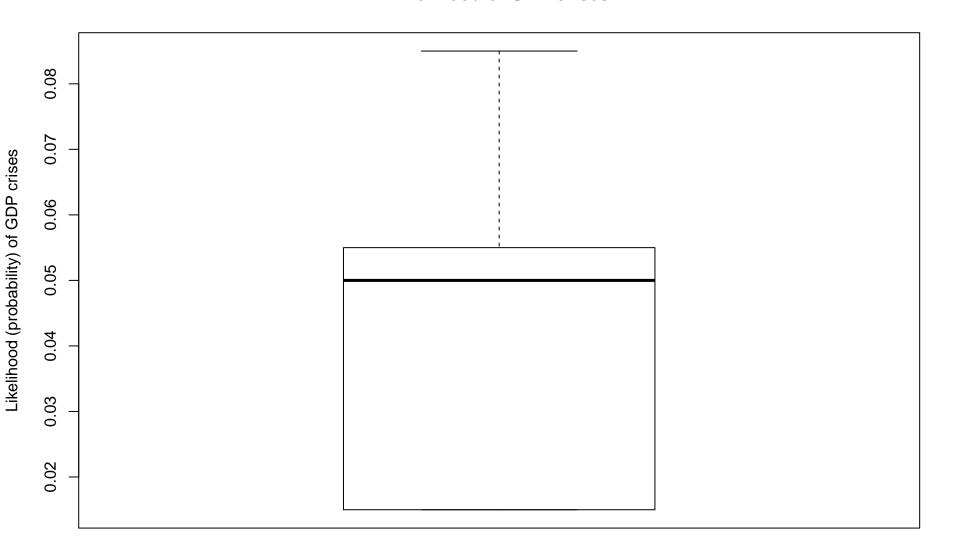


Volatility of GDP growth

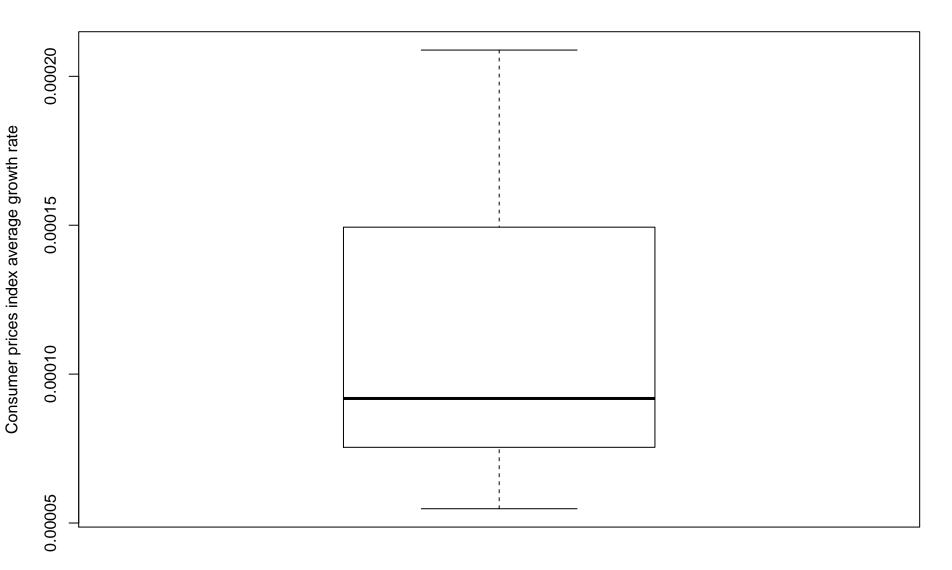


(bar: median / box: 2nd-3rd quartile / whiskers: max-min / points: outliers / MC runs = 5 / period = 301 - 500)

Likelihood of GDP crises

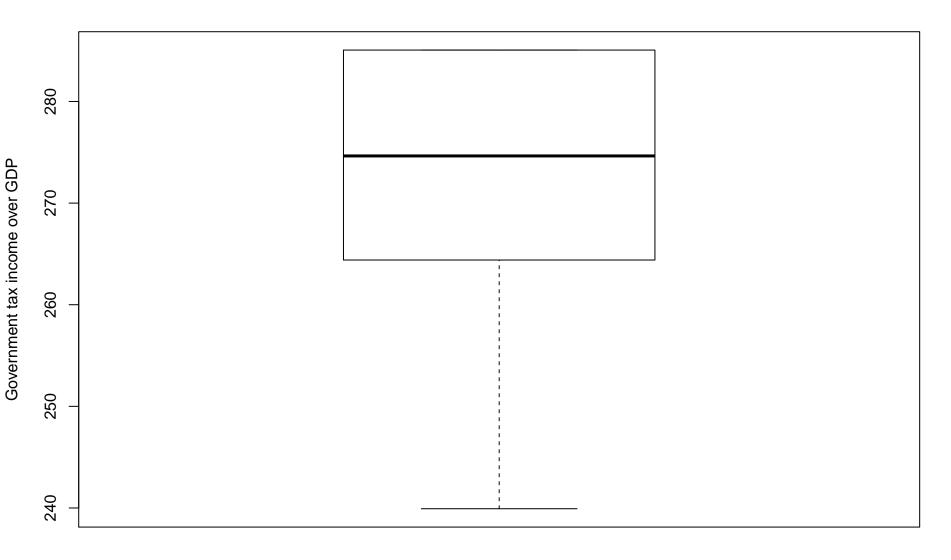




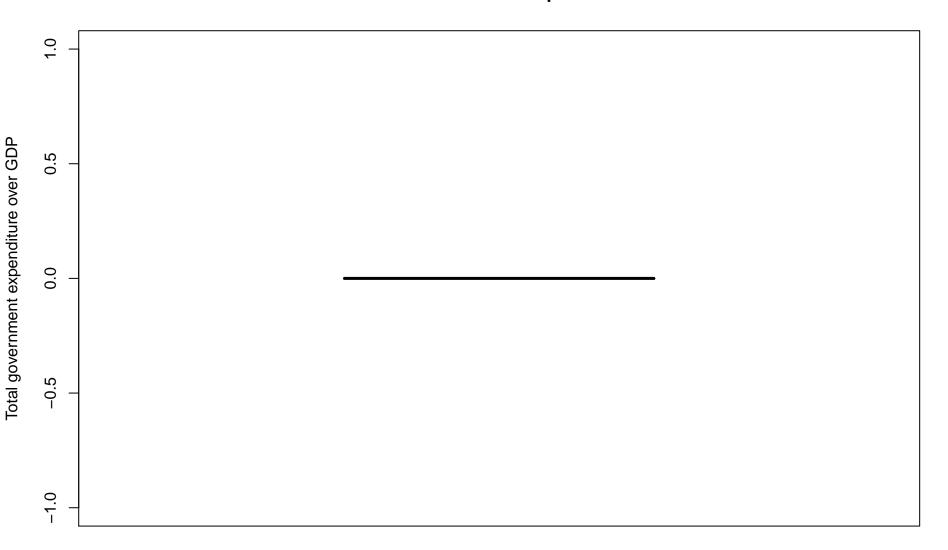


(bar: median / box: 2nd-3rd quartile / whiskers: max-min / points: outliers / MC runs = 5 / period = 301-500)

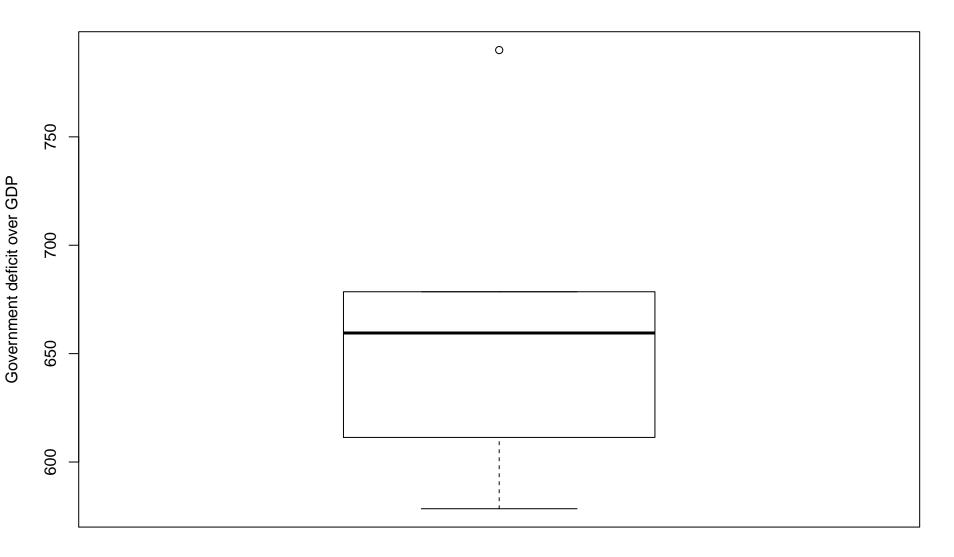




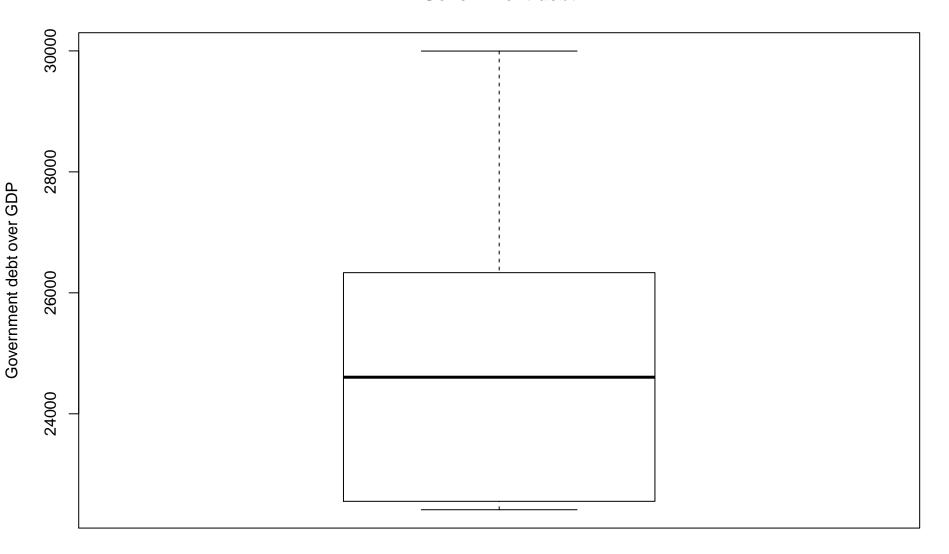
Government total expenditure



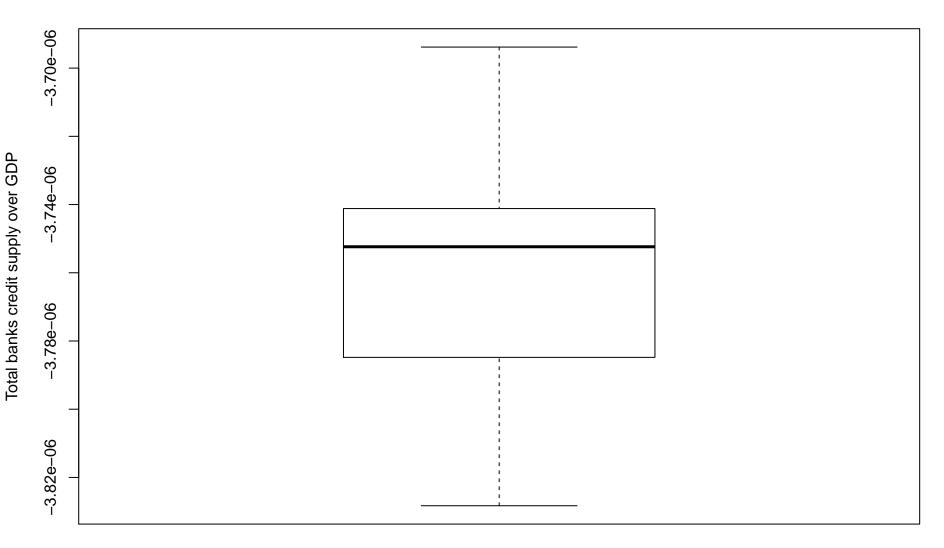
Government deficit



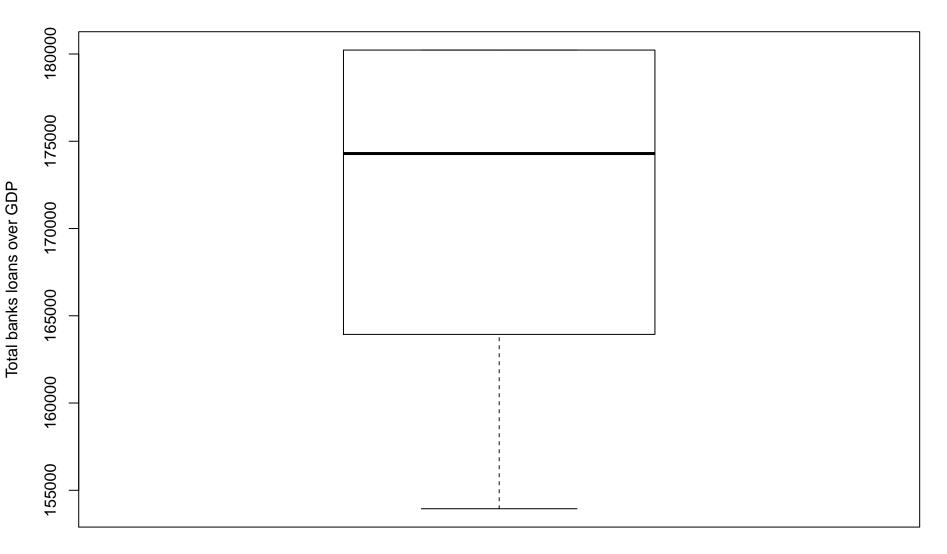
Government debt





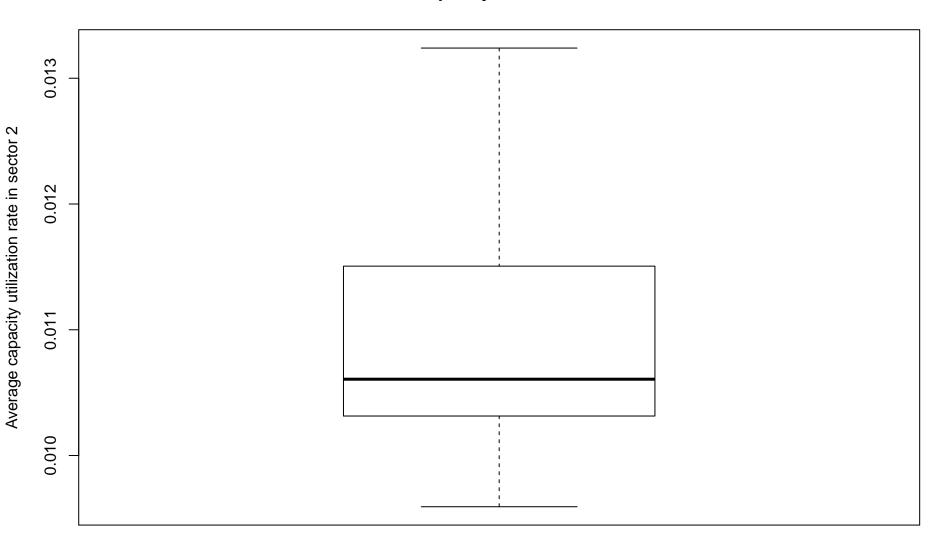




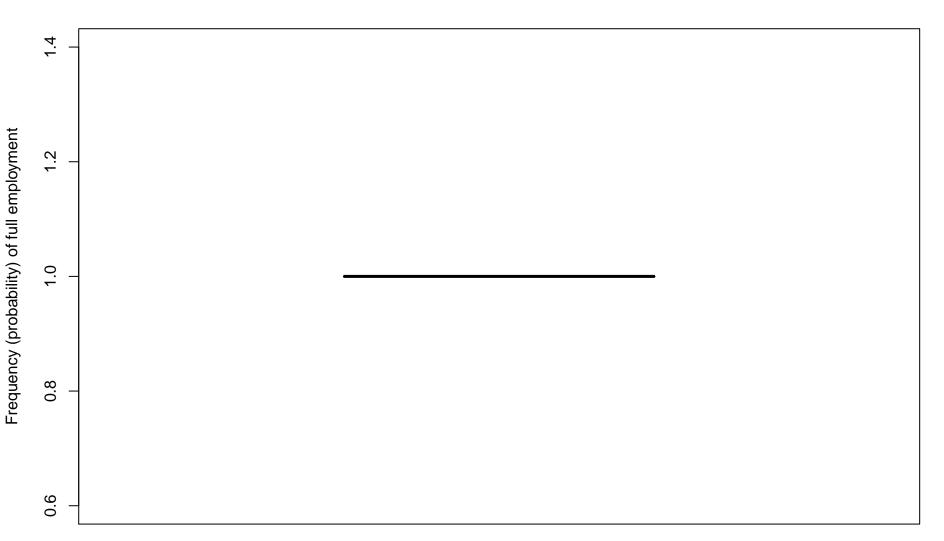


(bar: median / box: 2nd-3rd quartile / whiskers: max-min / points: outliers / MC runs = 5 / period = 301 - 500)

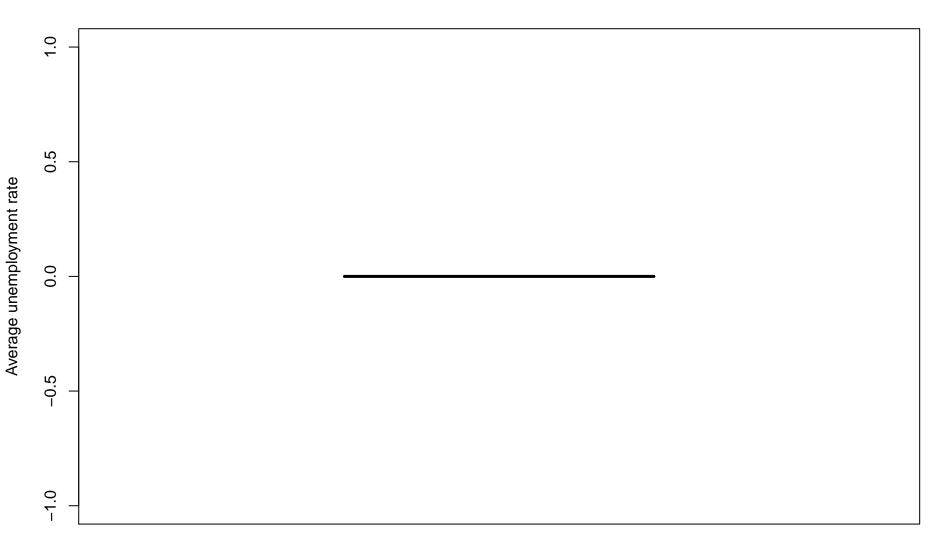
Capacity utilization



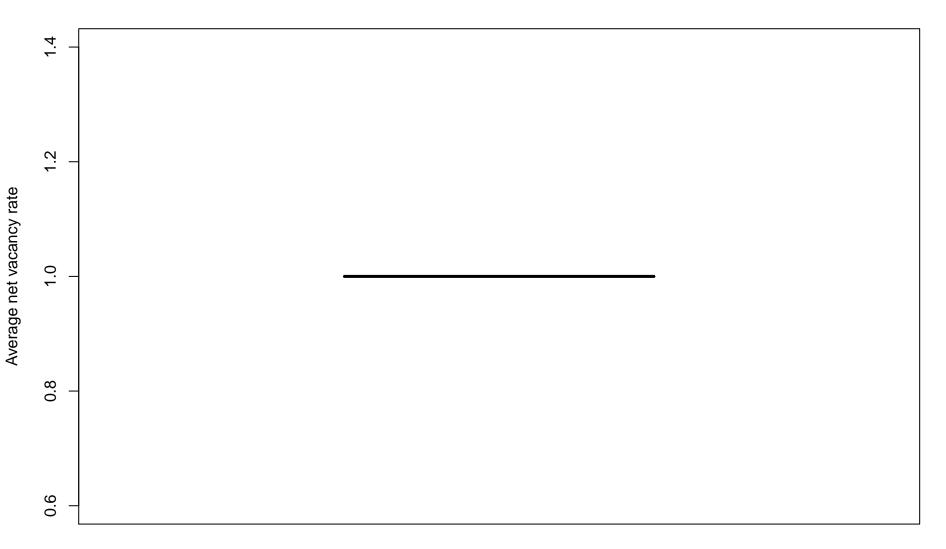




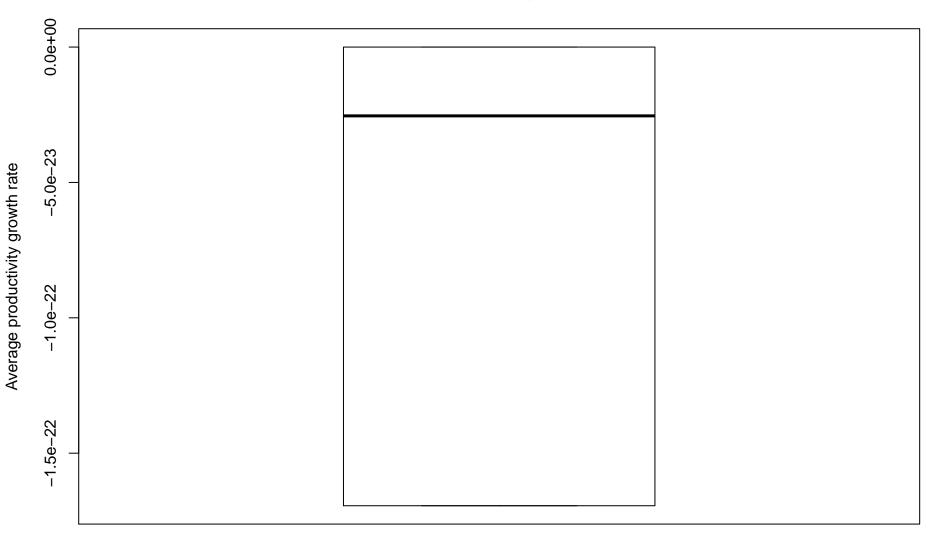




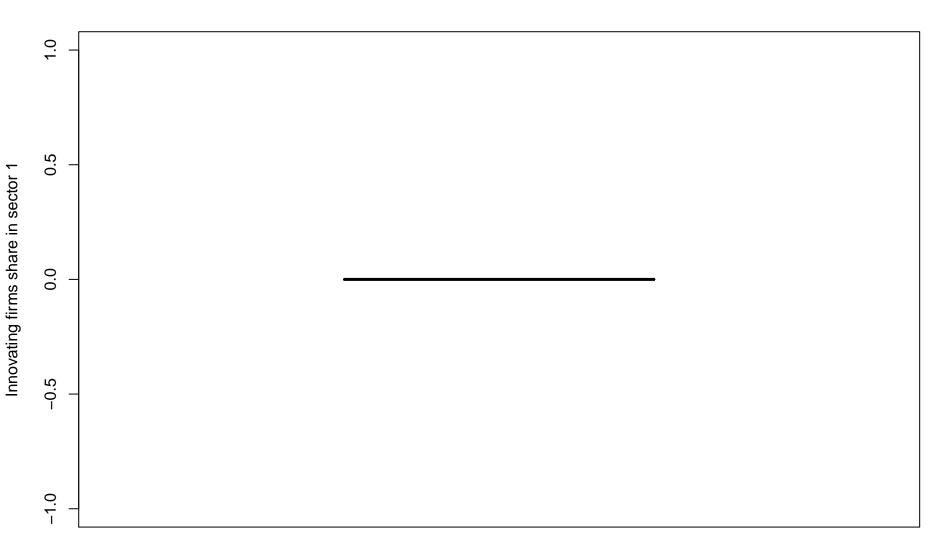




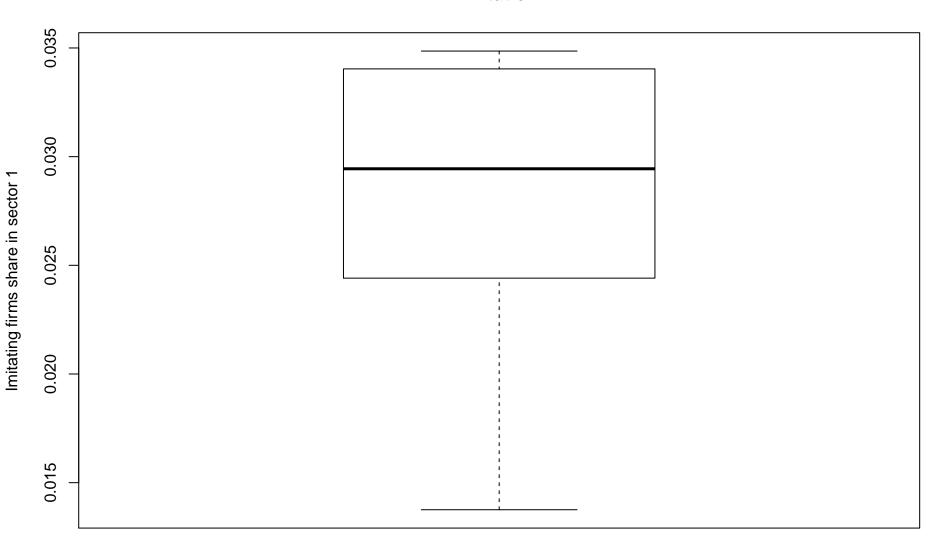






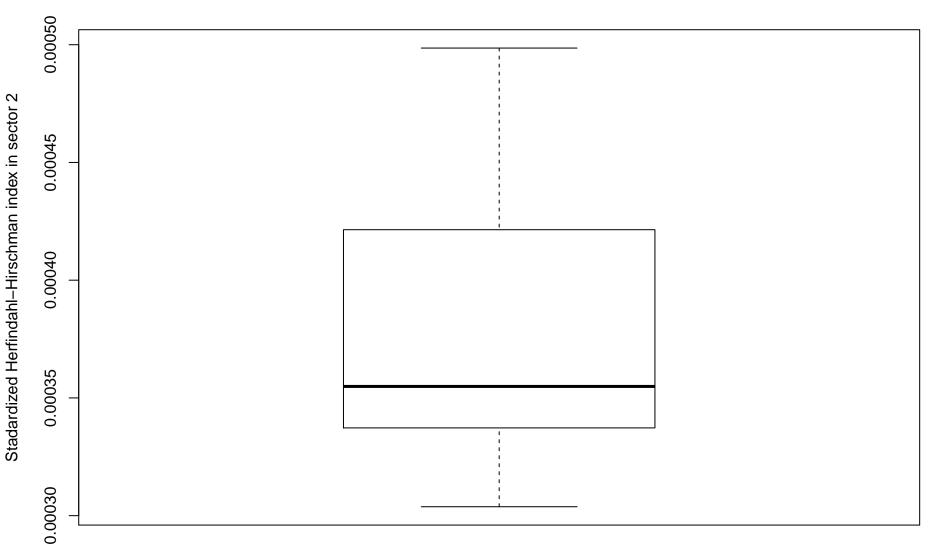






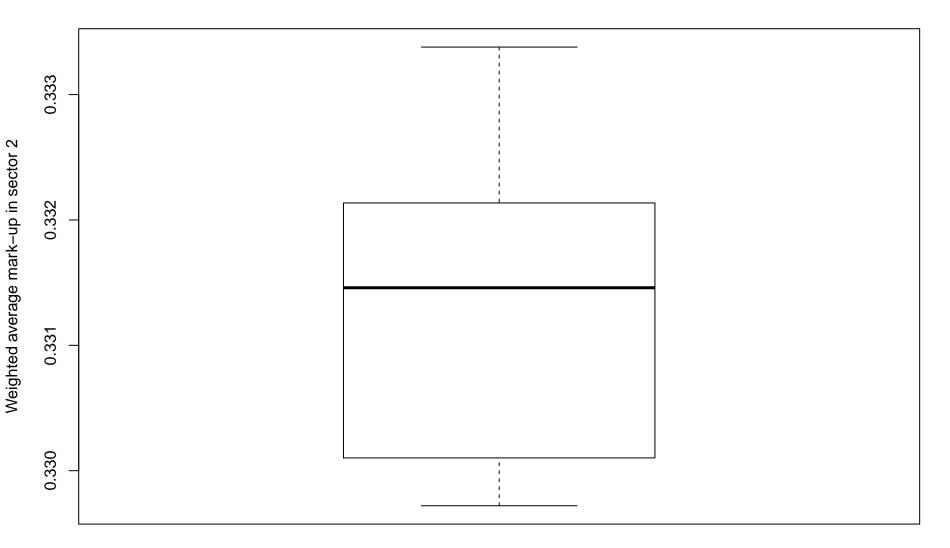
(bar: median / box: 2nd-3rd quartile / whiskers: max-min / points: outliers / MC runs = 5 / period = 301-500)





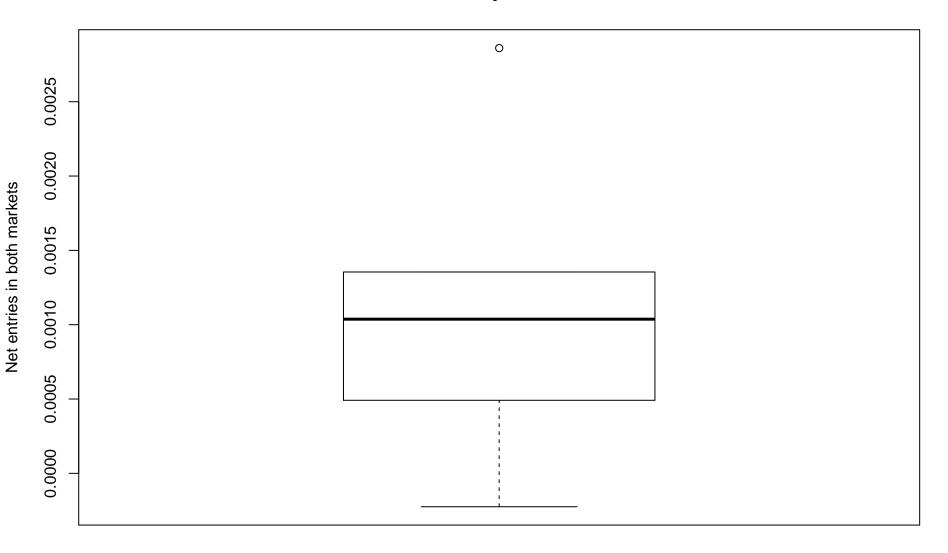
(bar: median / box: 2nd-3rd quartile / whiskers: max-min / points: outliers / MC runs = 5 / period = 301 - 500)





(bar: median / box: 2nd-3rd quartile / whiskers: max-min / points: outliers / MC runs = 5 / period = 301-500)

Net entry of firms



(bar: median / box: 2nd-3rd quartile / whiskers: max-min / points: outliers / MC runs = 5 / period = 301 - 500)

Monte Carlo descriptive statistics (all experiments)

	Avg[1]	SD[1]	Min[1]	Max[1]
GDP growth	4.849e-05	9.14e-05	-1.874e-06	0.000209
Volatility of GDP growth	0.04164	0.01925	0.0116	0.06282
Likelihood of GDP crises	0.044	0.02966	0.015	0.085
Inflation	0.000116	6.266e-05	5.48e-05	0.0002088
Tax	279.6	34.62	239.9	333.8
Government total expenditure	0	0	0	0
Government deficit	663.6	80.94	578.5	790
Government debt	2.518e+04	3139	2.241e+04	3e+04
Credit supply	-3.76e-06	5.017e-08	-3.828e-06	-3.694e-06
Loans	1.764e+05	2.114e+04	1.539e+05	2.097e+05
Capacity utilization	0.01105	0.001402	0.009593	0.01324
Full employment frequency	1	0	1	1
Unemployment	0	0	0	0
Vacancy	1	0	1	1
Productivity growth	-1.334e-07	2.982e-07	-6.668e-07	0
Innovation	0	0	0	0
Imitation	0.0273	0.008645	0.01375	0.03486
Market concentration	0.0003832	7.745e-05	0.0003038	0.0004986
Mark-ups	0.3314	0.001497	0.3297	0.3334
Net entry of firms	0.001104	0.001151	-0.0002246	0.002861

Experiments: [1] Free entry (numbers in brackets indicate the experiment number / MC runs = 5 / period = 301 - 500)