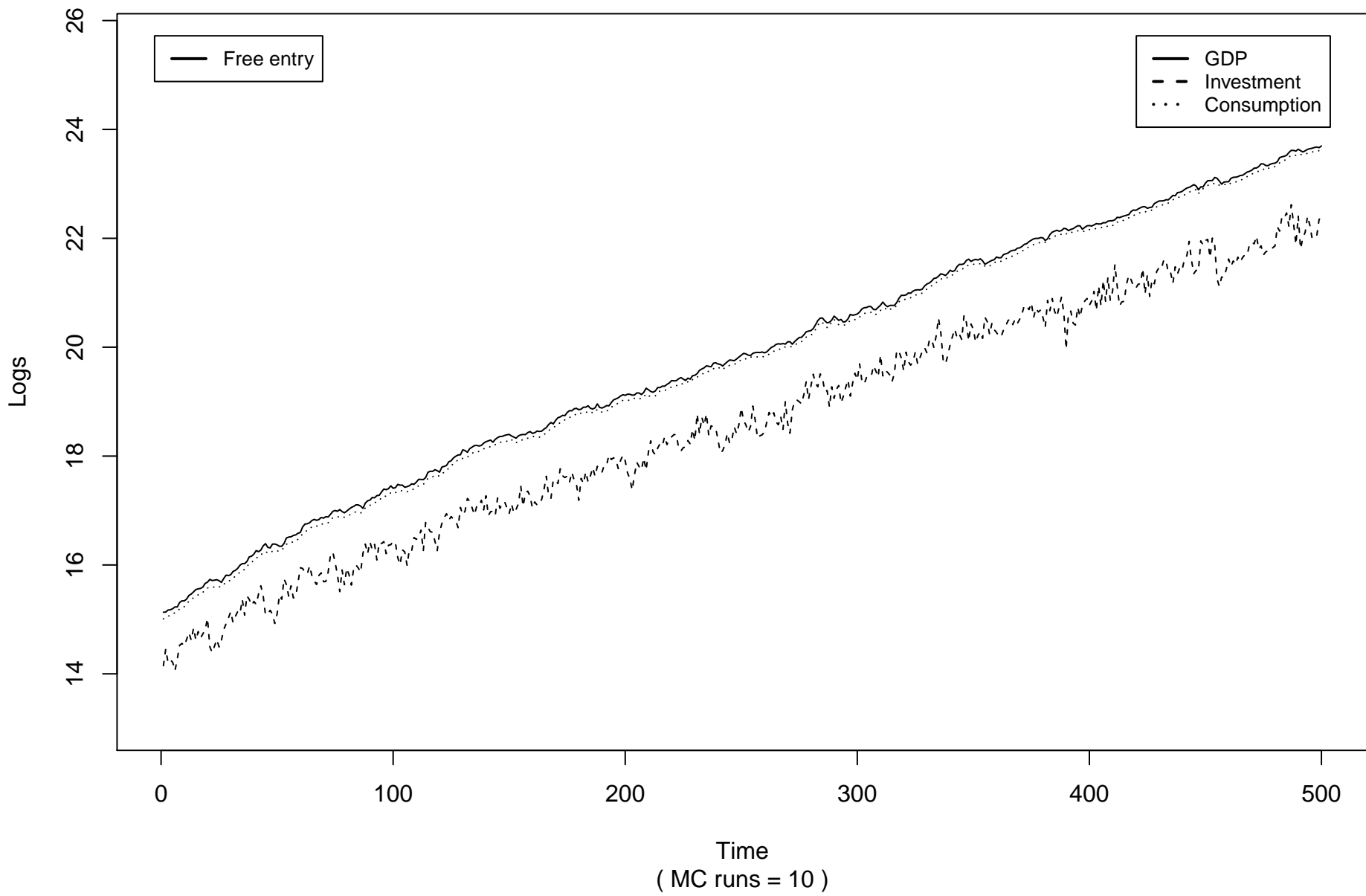
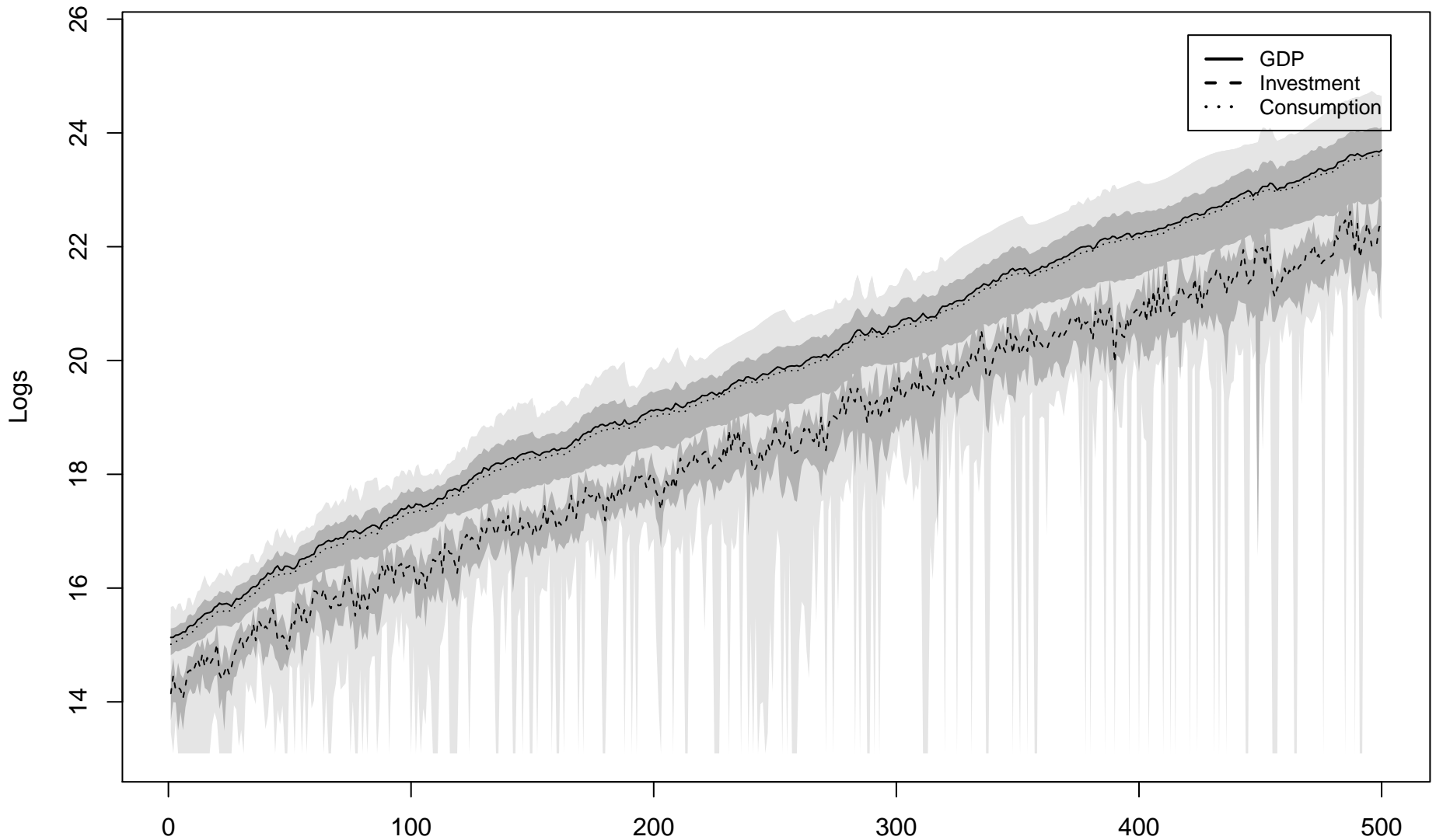


GDP, investment and consumption (all experiments)

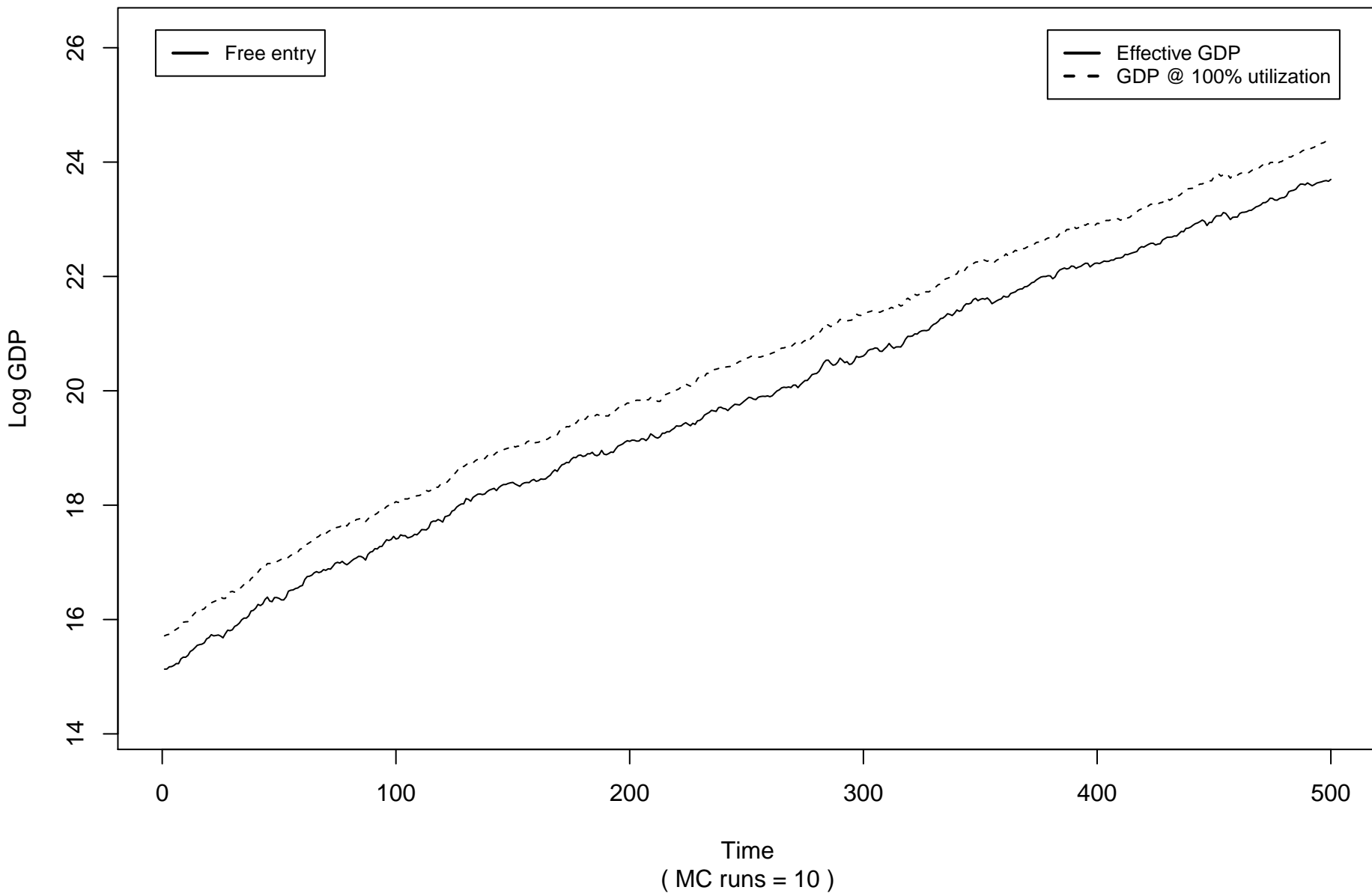


GDP, investment and consumption (Free entry)

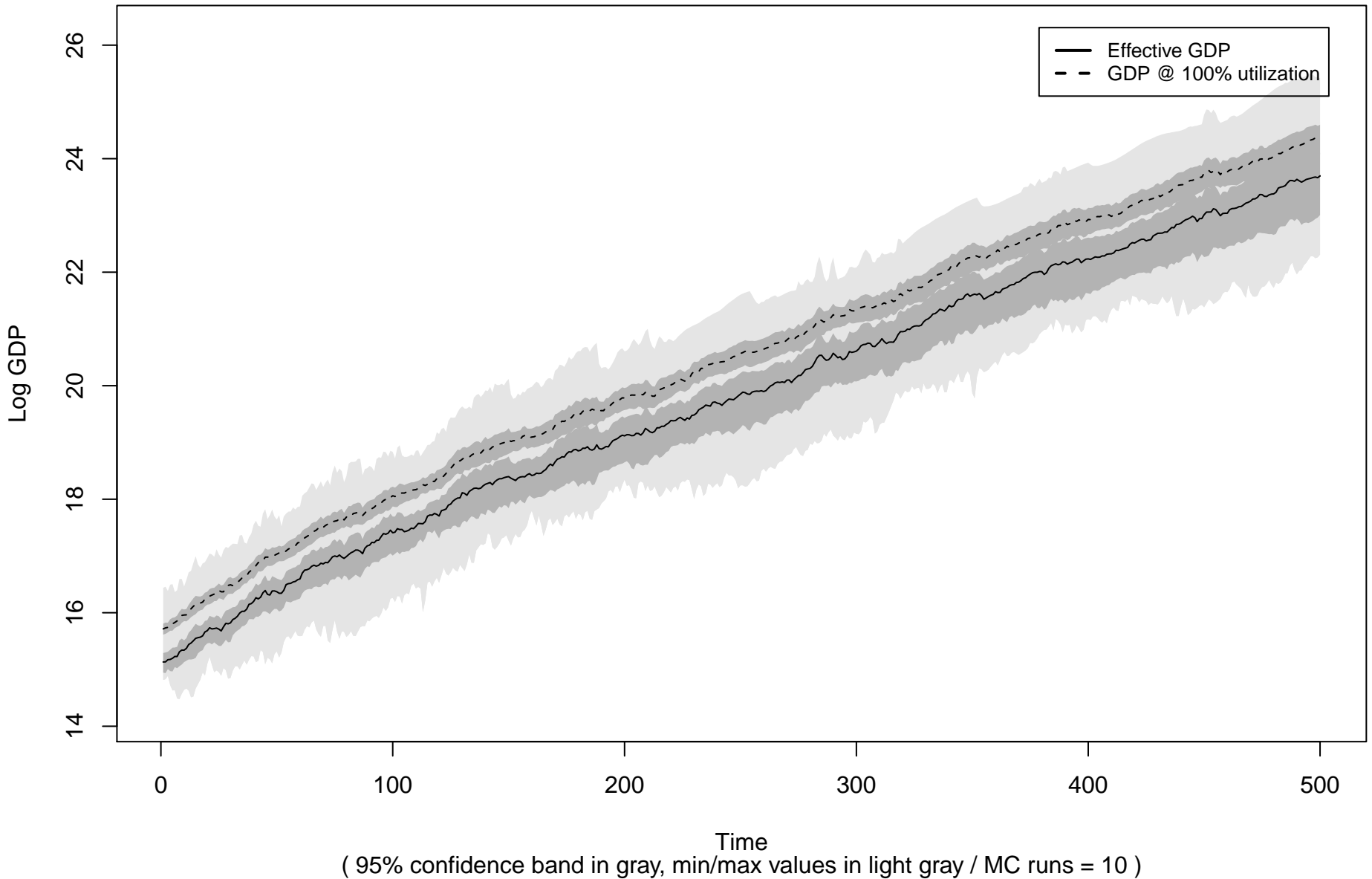


Time
(95% confidence band in gray, min/max values in light gray / MC runs = 10)

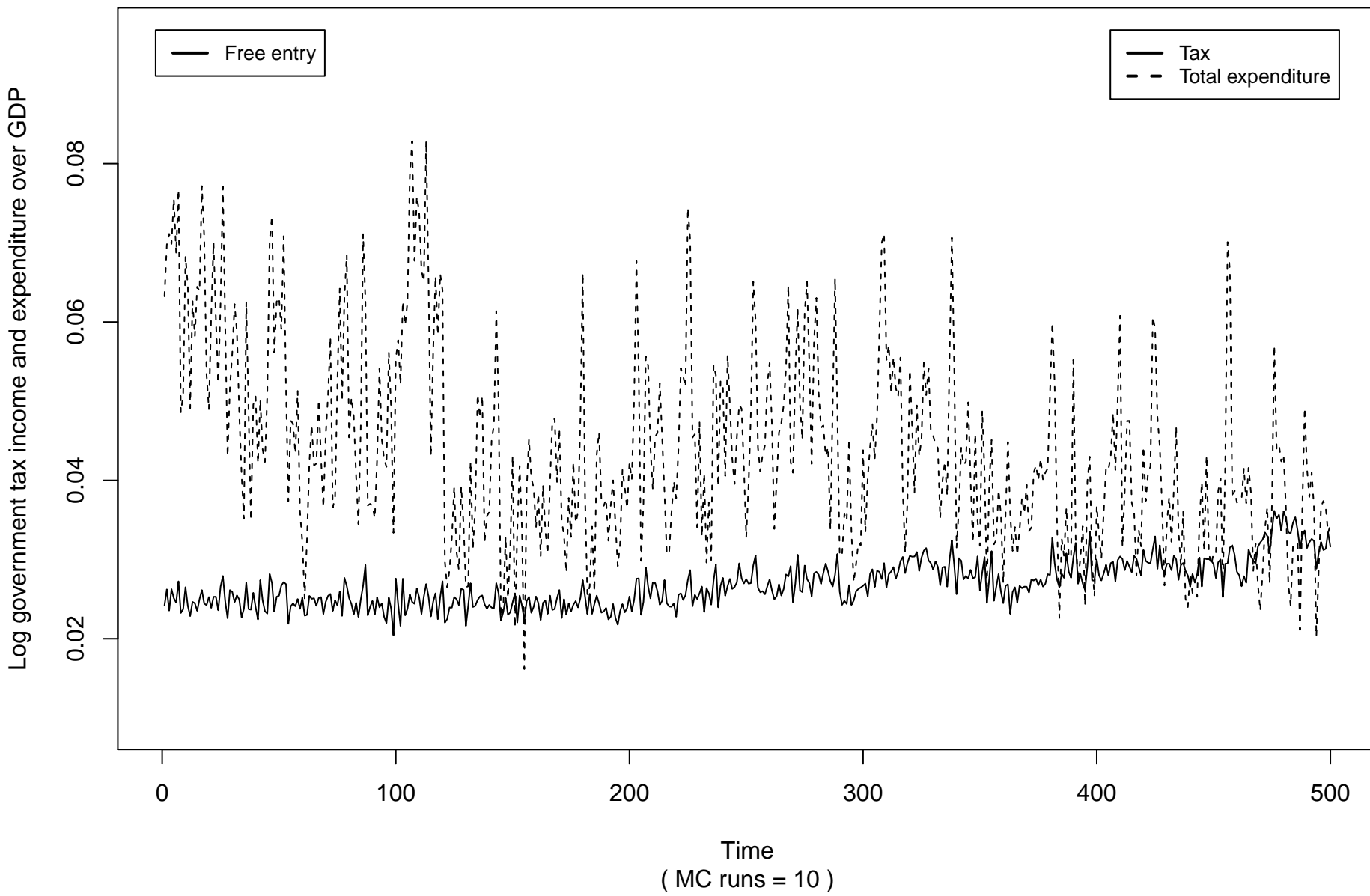
GDP (all experiments)



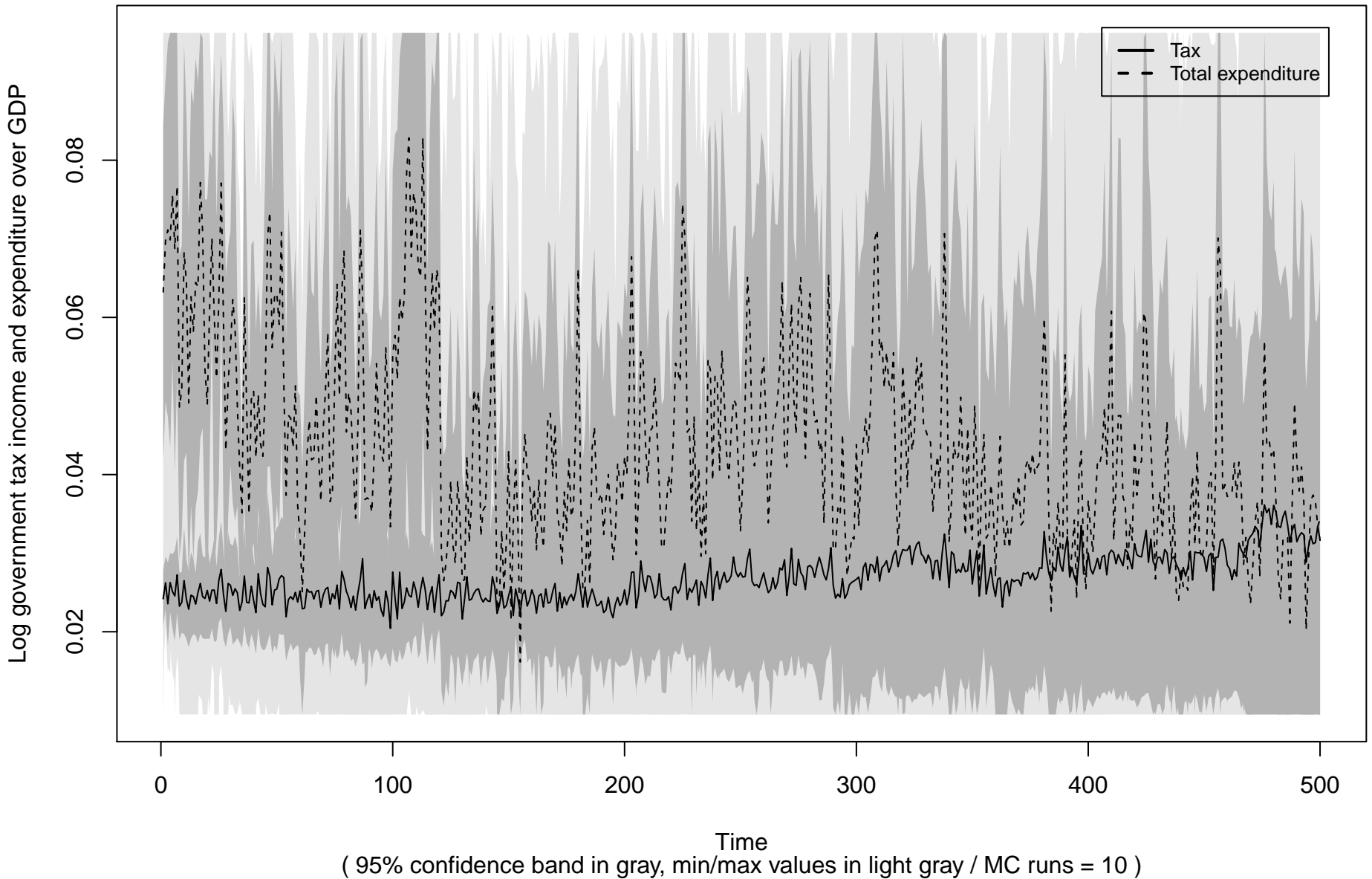
GDP (Free entry)



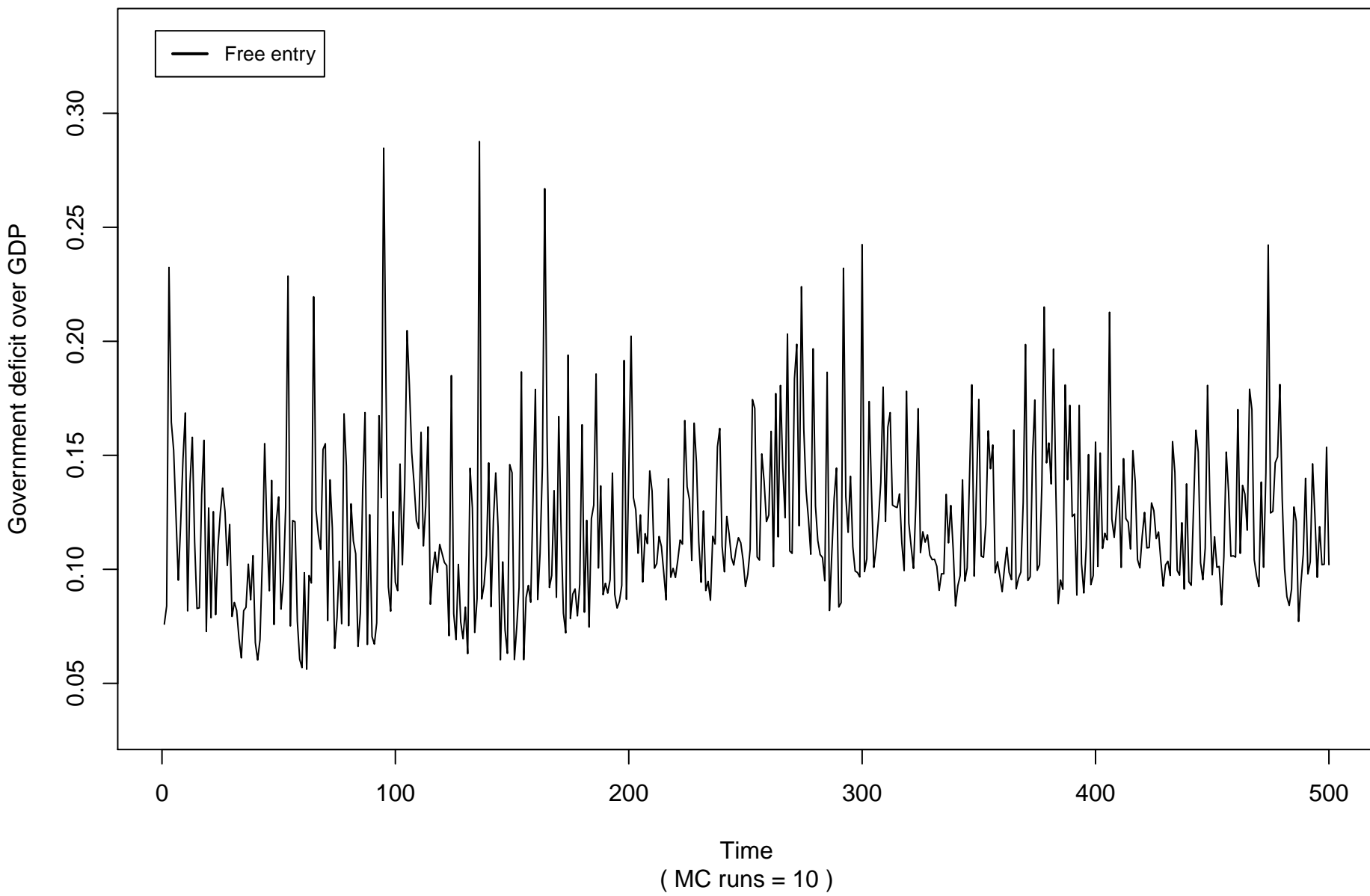
Government income and expenditure on GDP (all experiments)



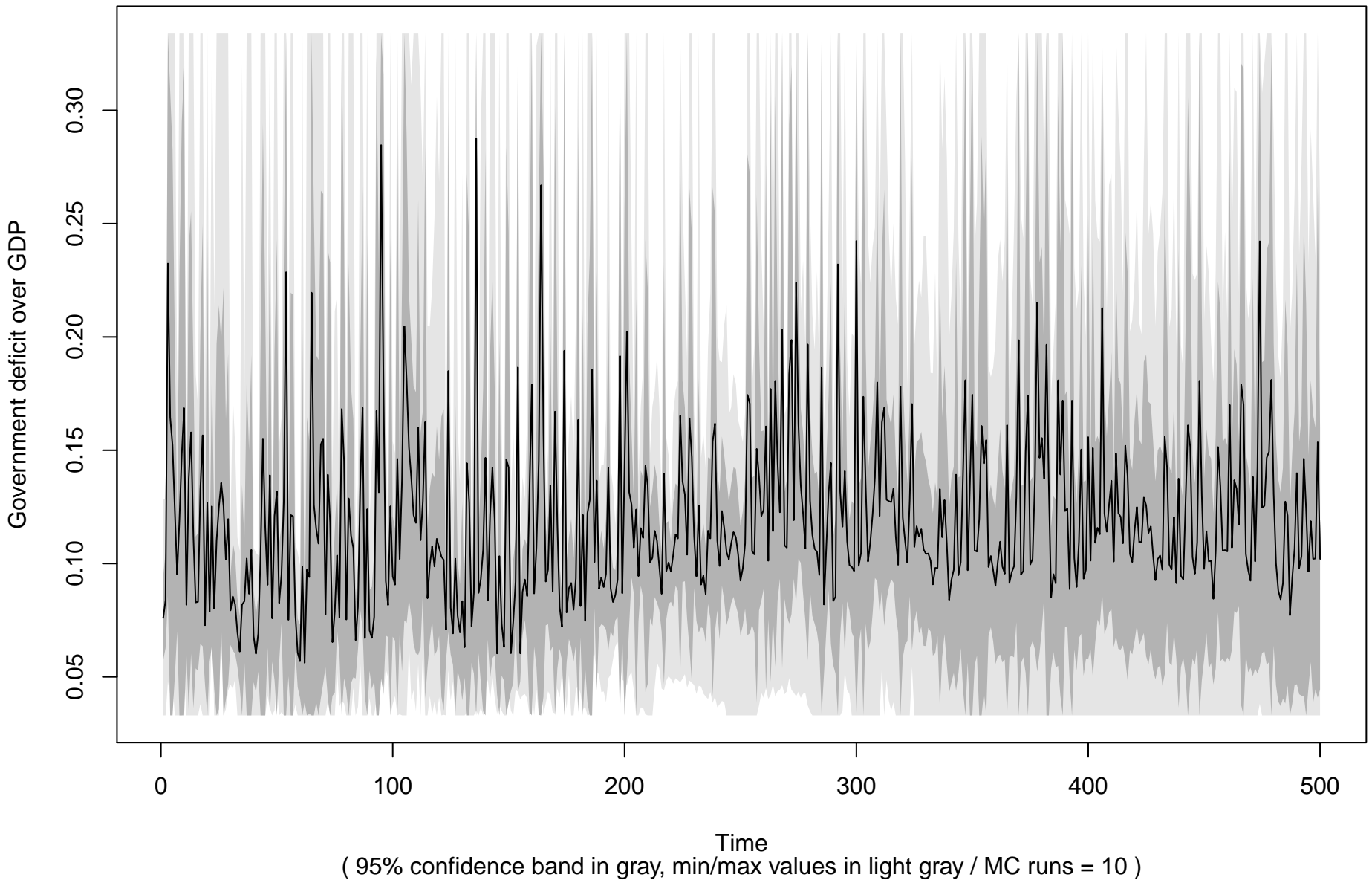
Government income and expenditure on GDP (Free entry)



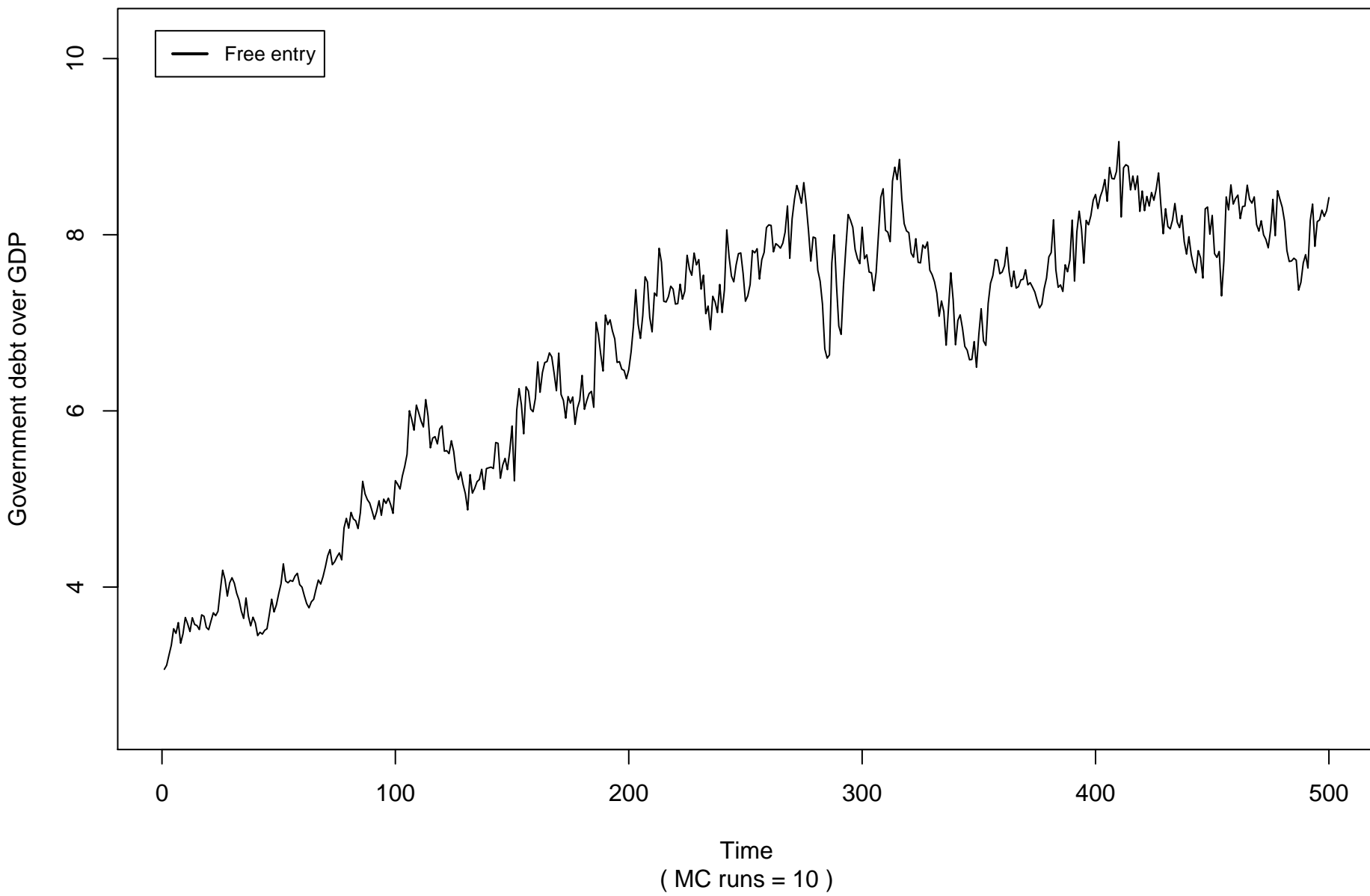
Government deficit on GDP (all experiments)



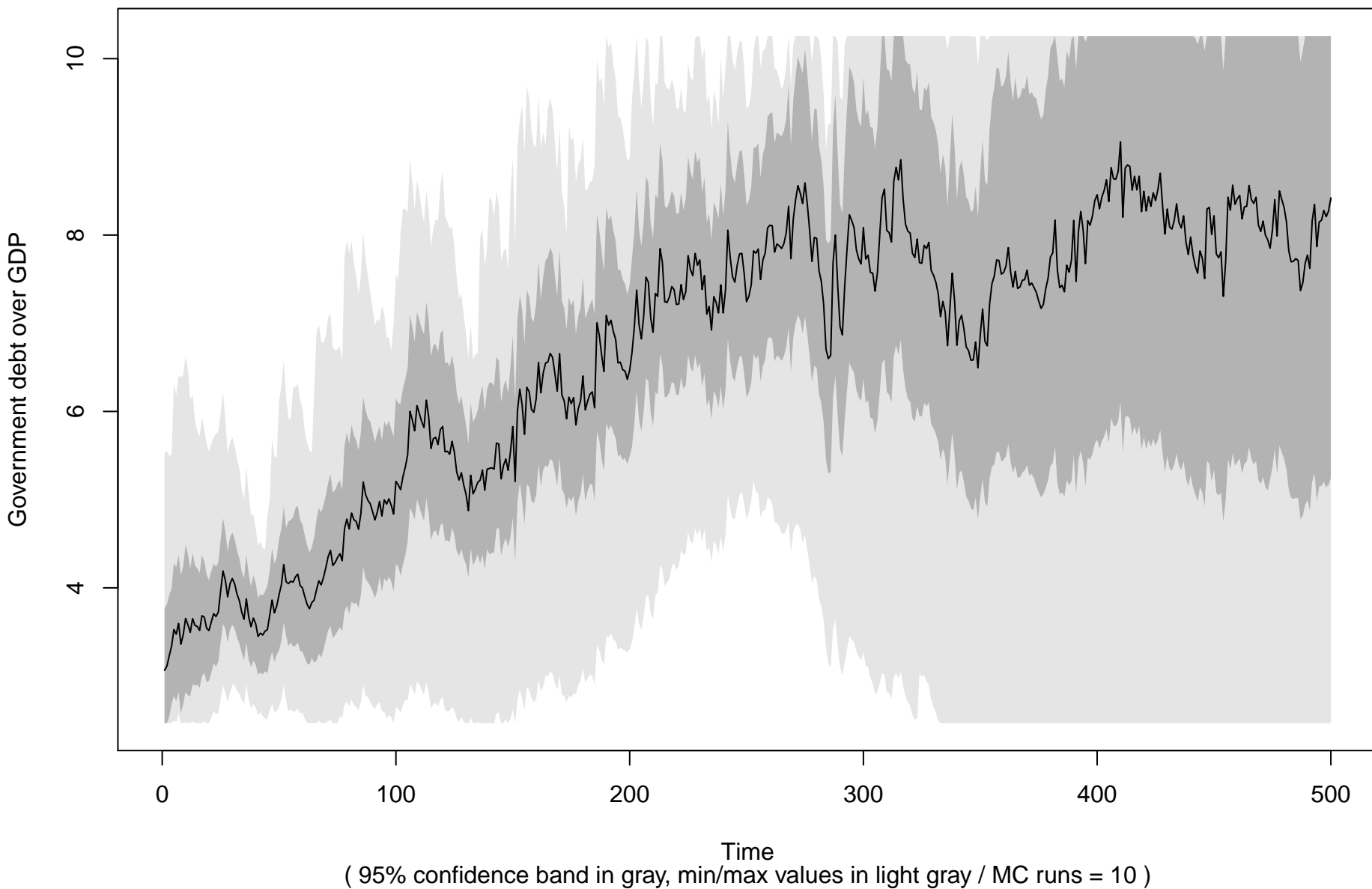
Government deficit on GDP (Free entry)



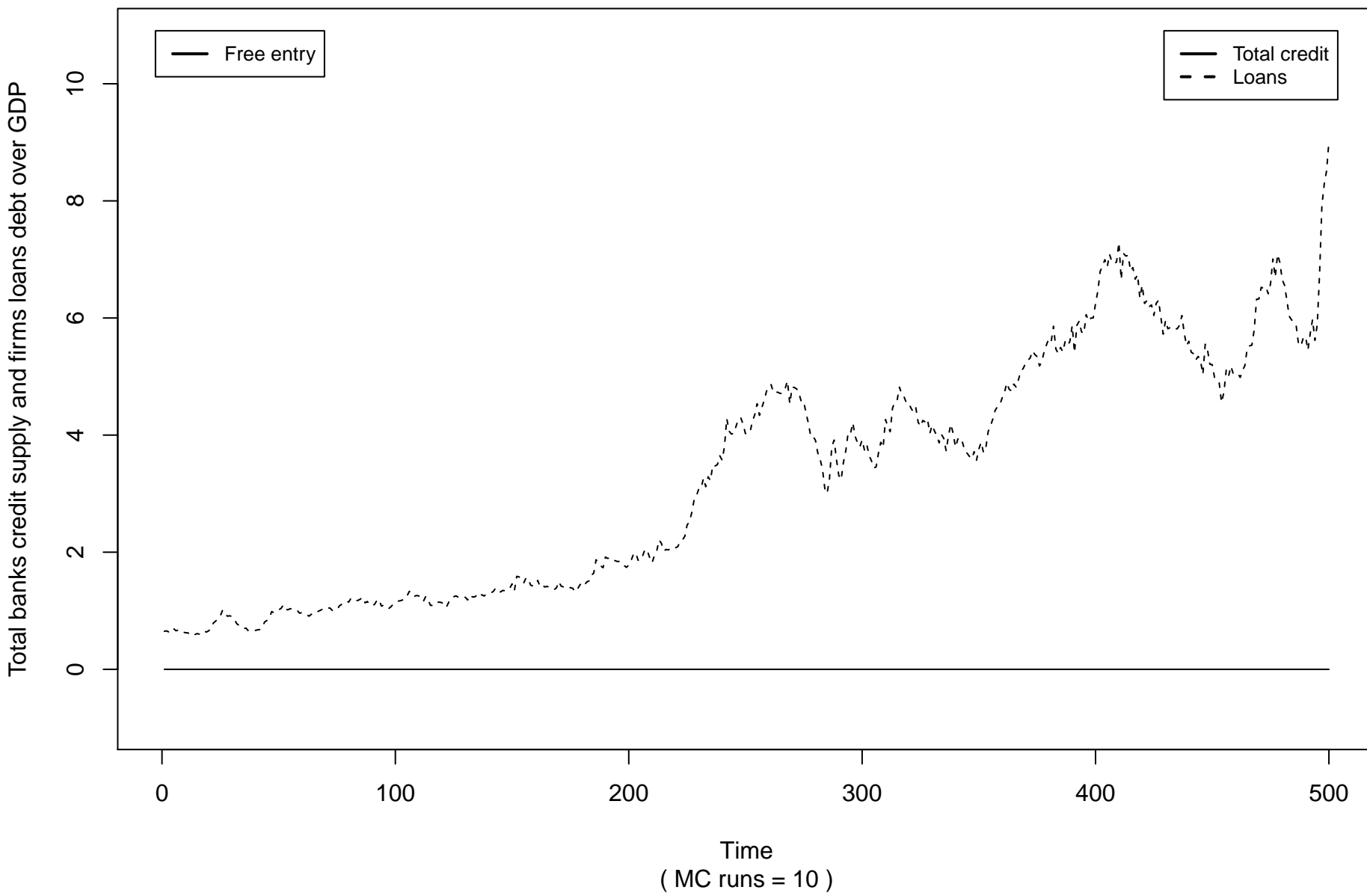
Government debt on GDP (all experiments)



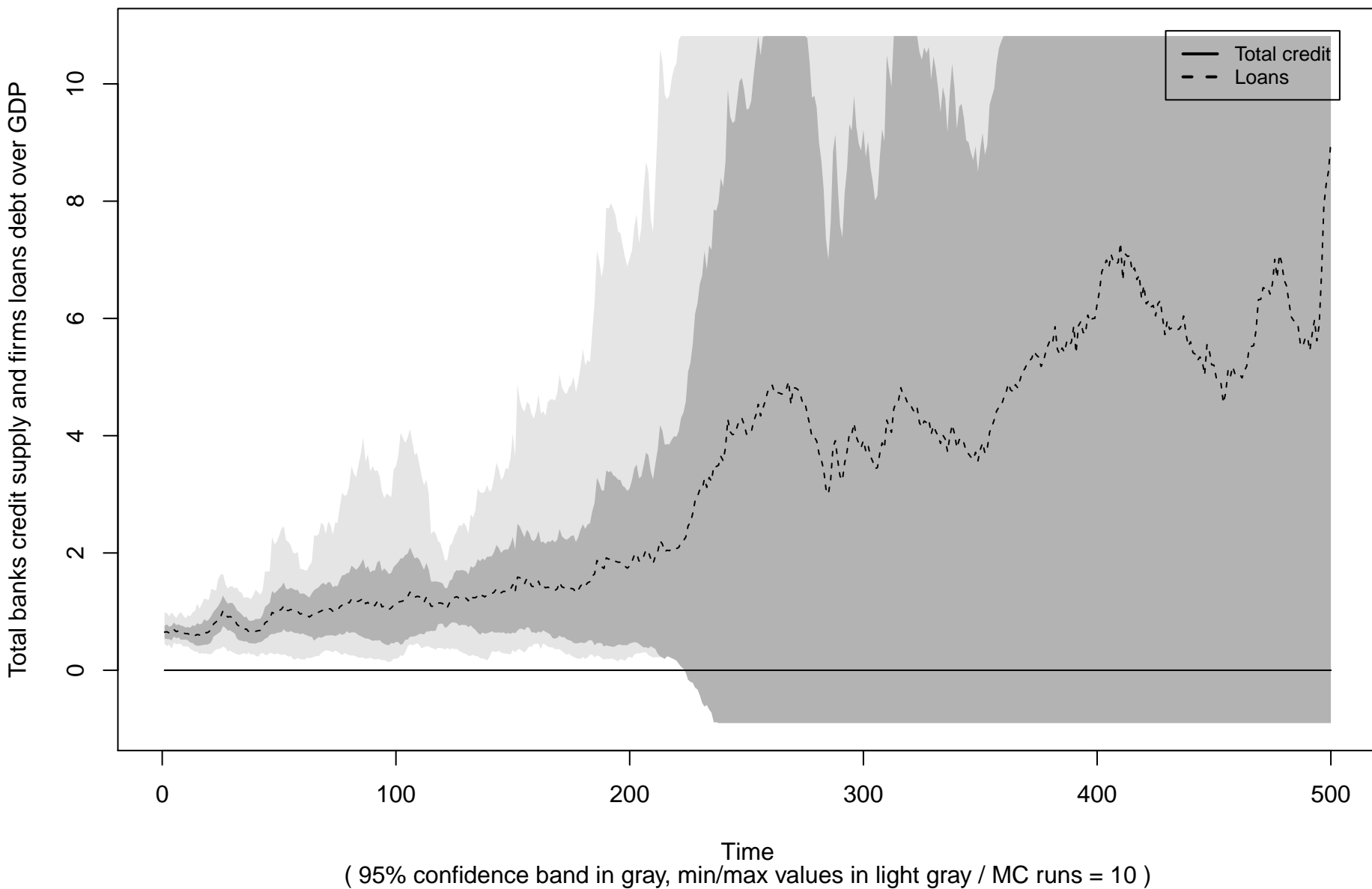
Government debt on GDP (Free entry)



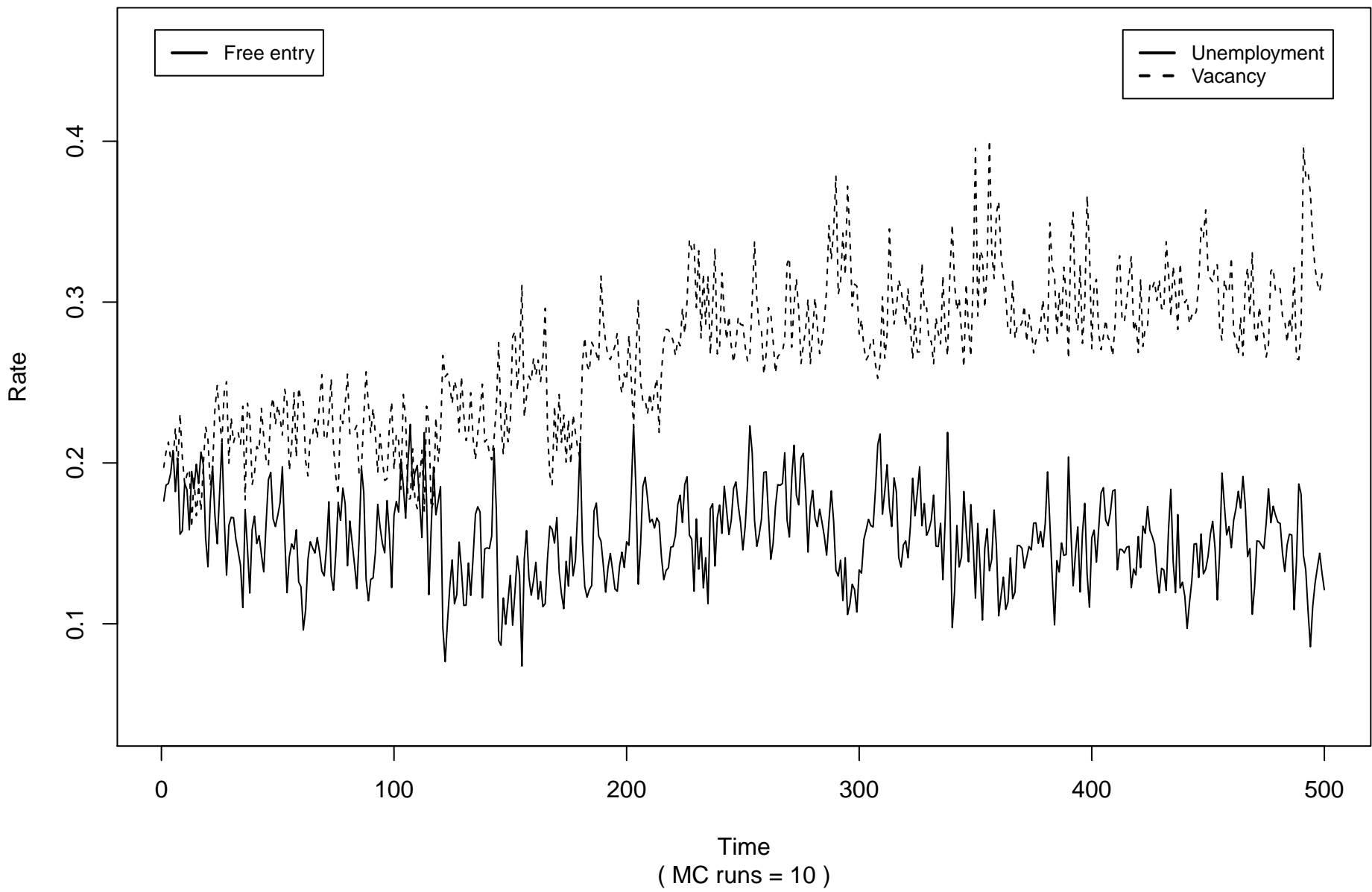
Total credit supply and loans on GDP (all experiments)



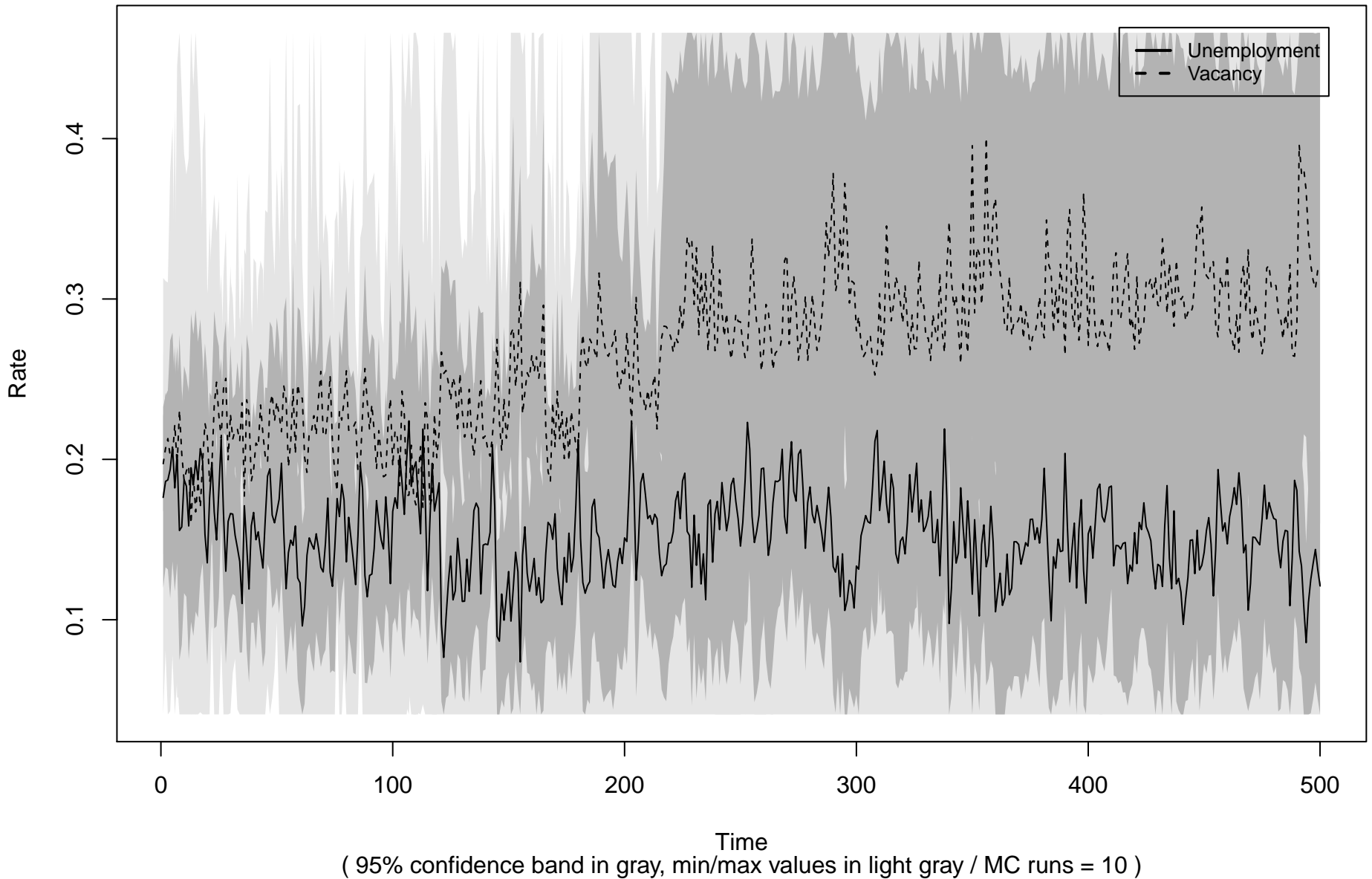
Total credit supply and loans on GDP (Free entry)



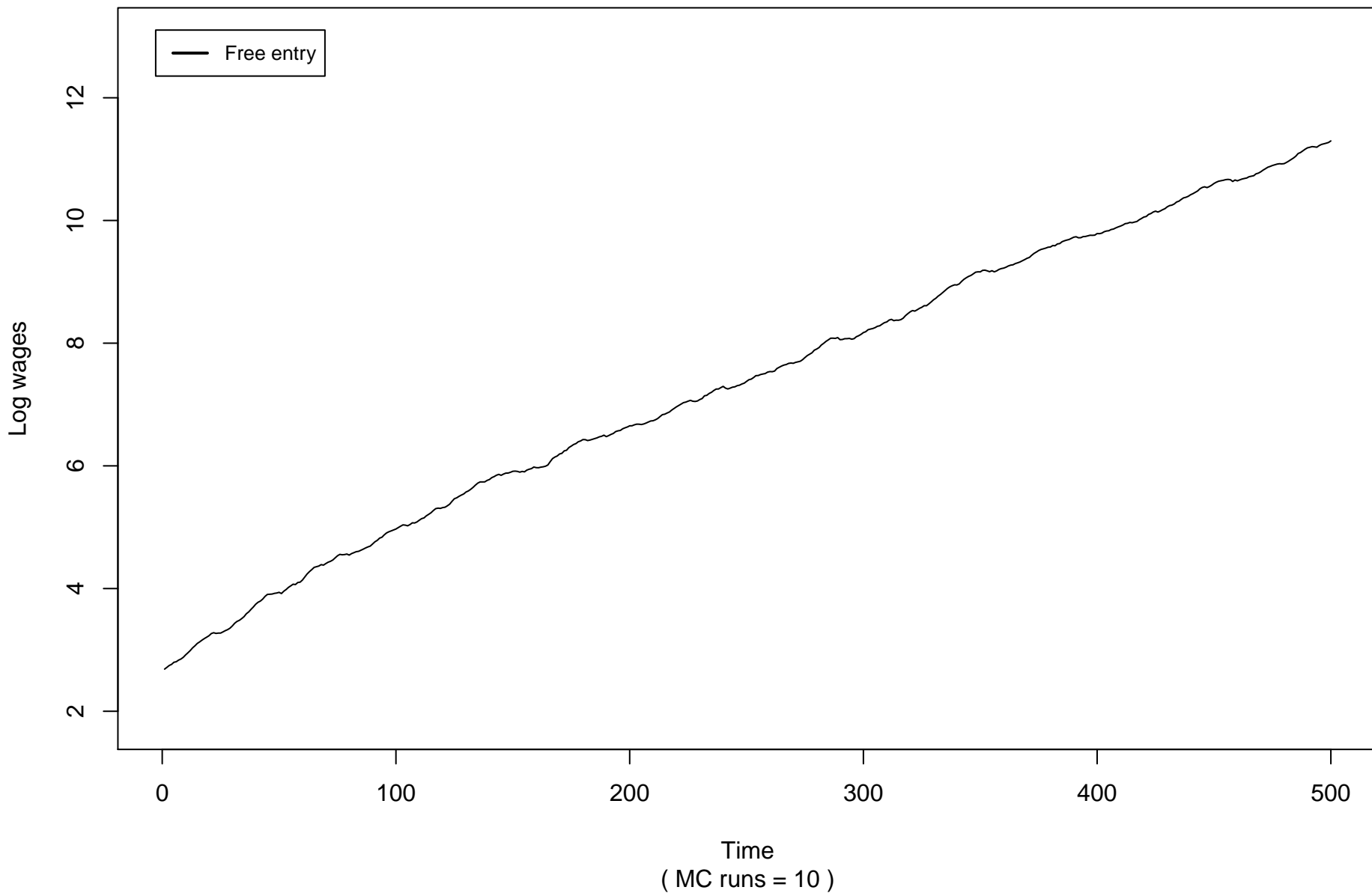
Unemployment and vacancy rates (all experiments)



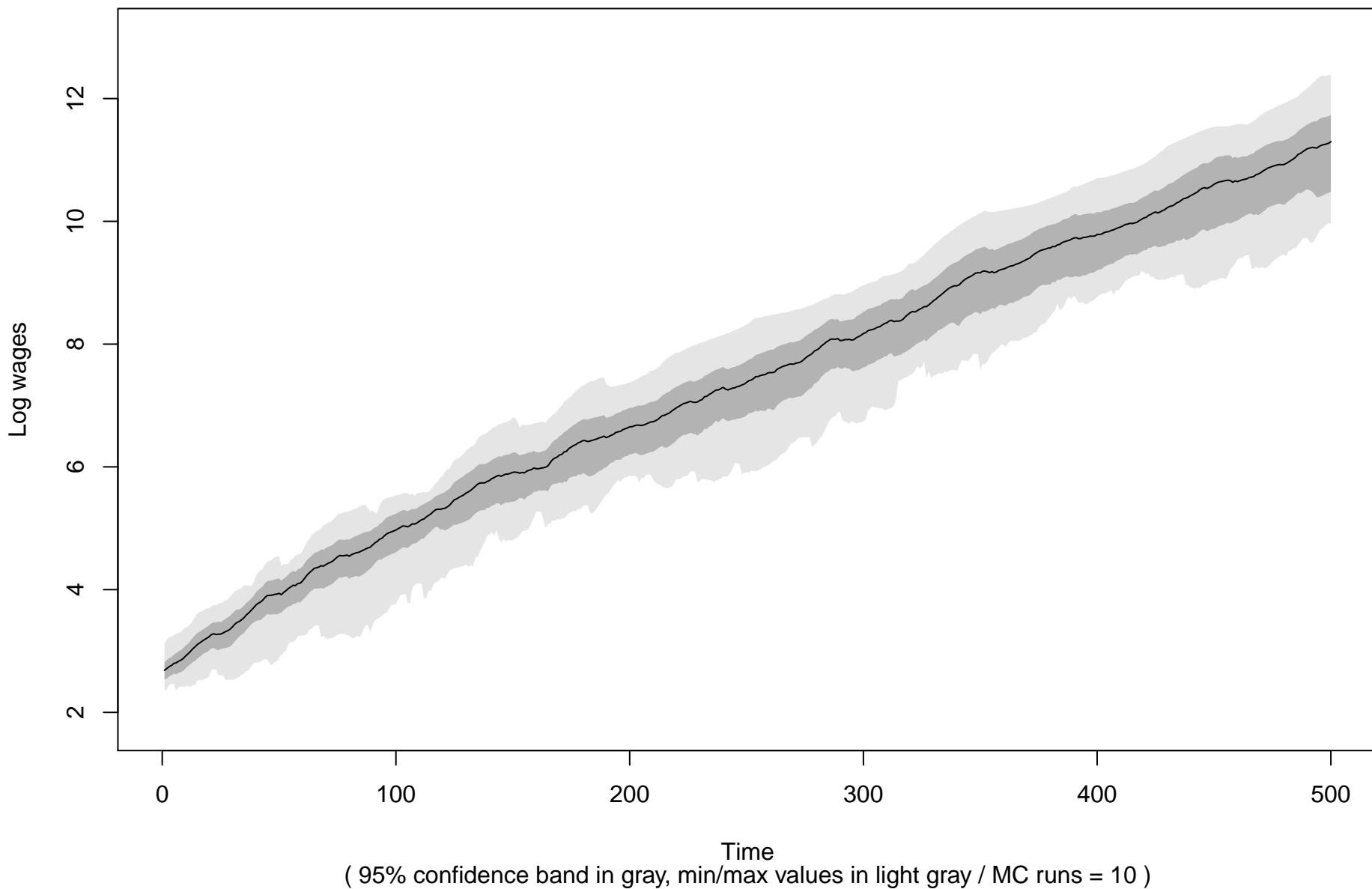
Unemployment and vacancy rates (Free entry)



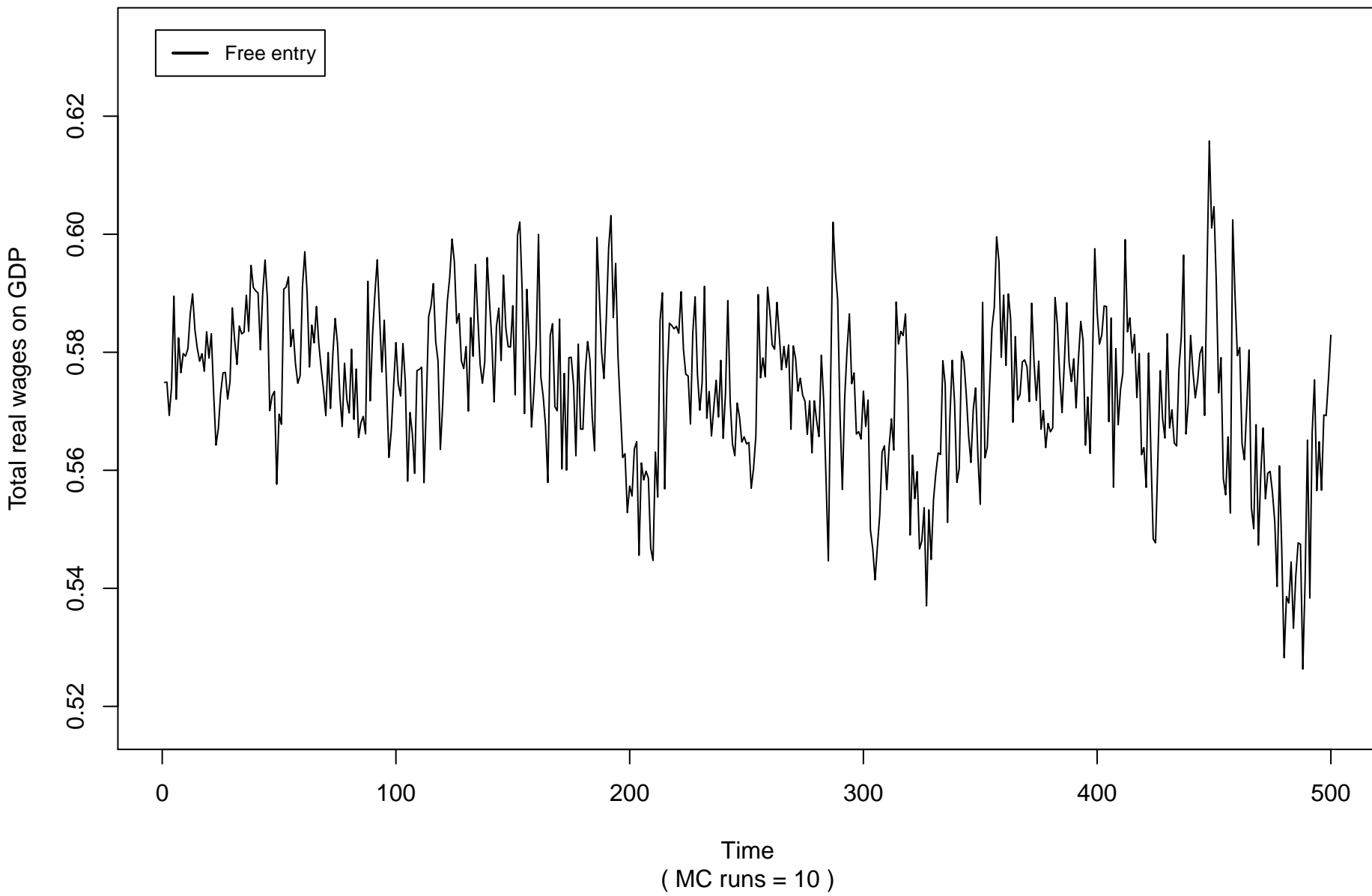
Real wages average (all experiments)



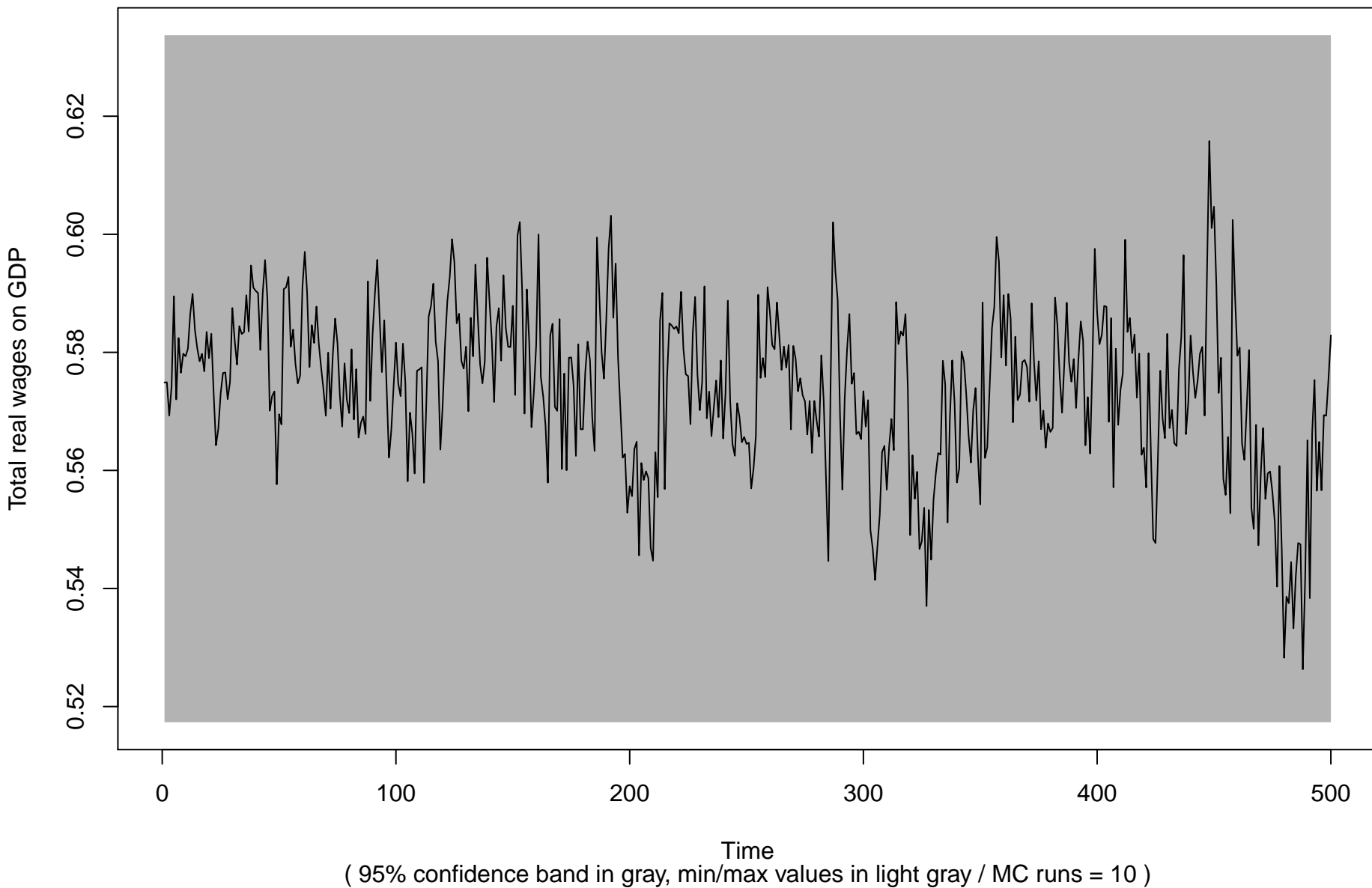
Real wages average (Free entry)



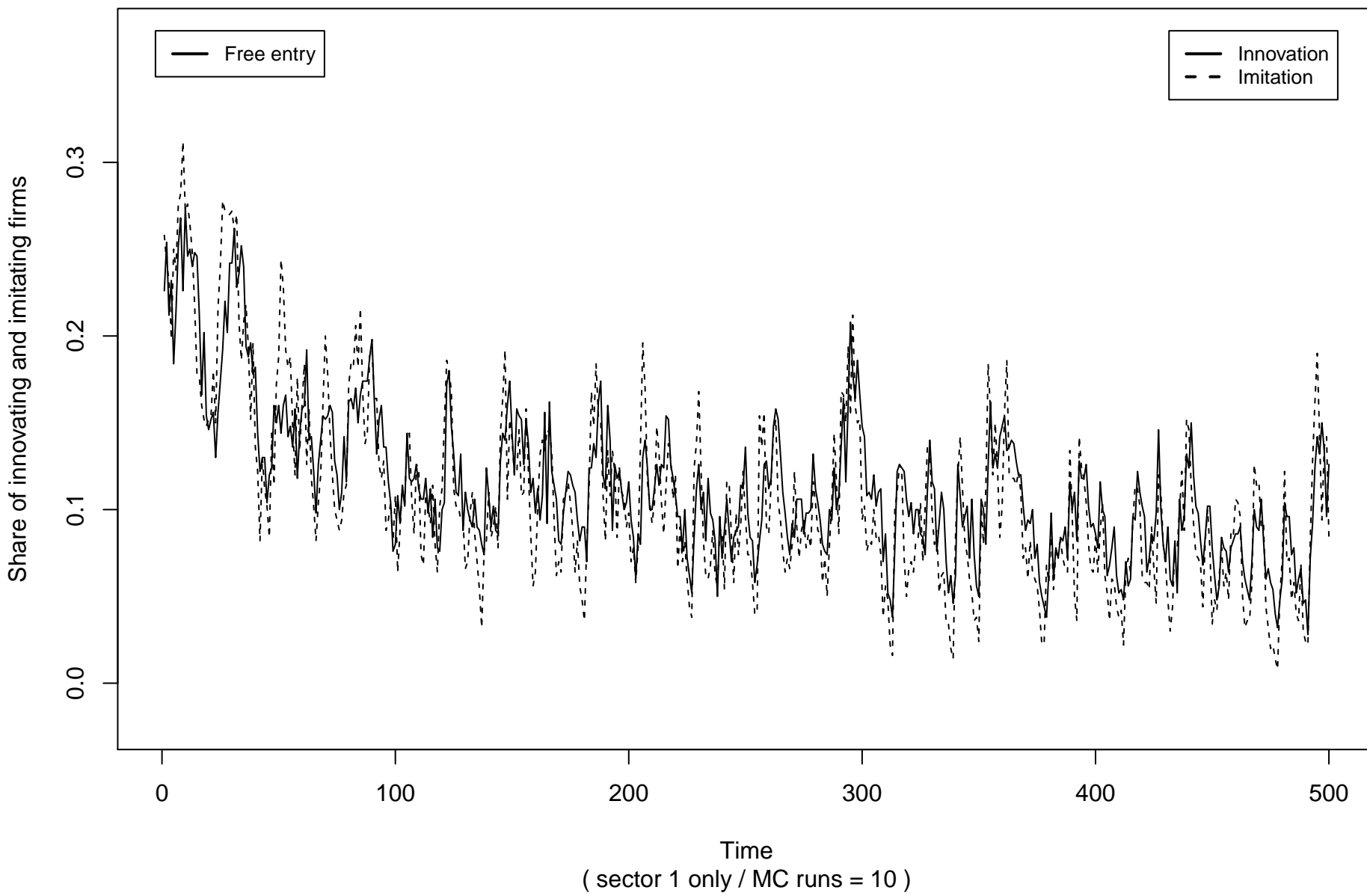
Wage share (all experiments)



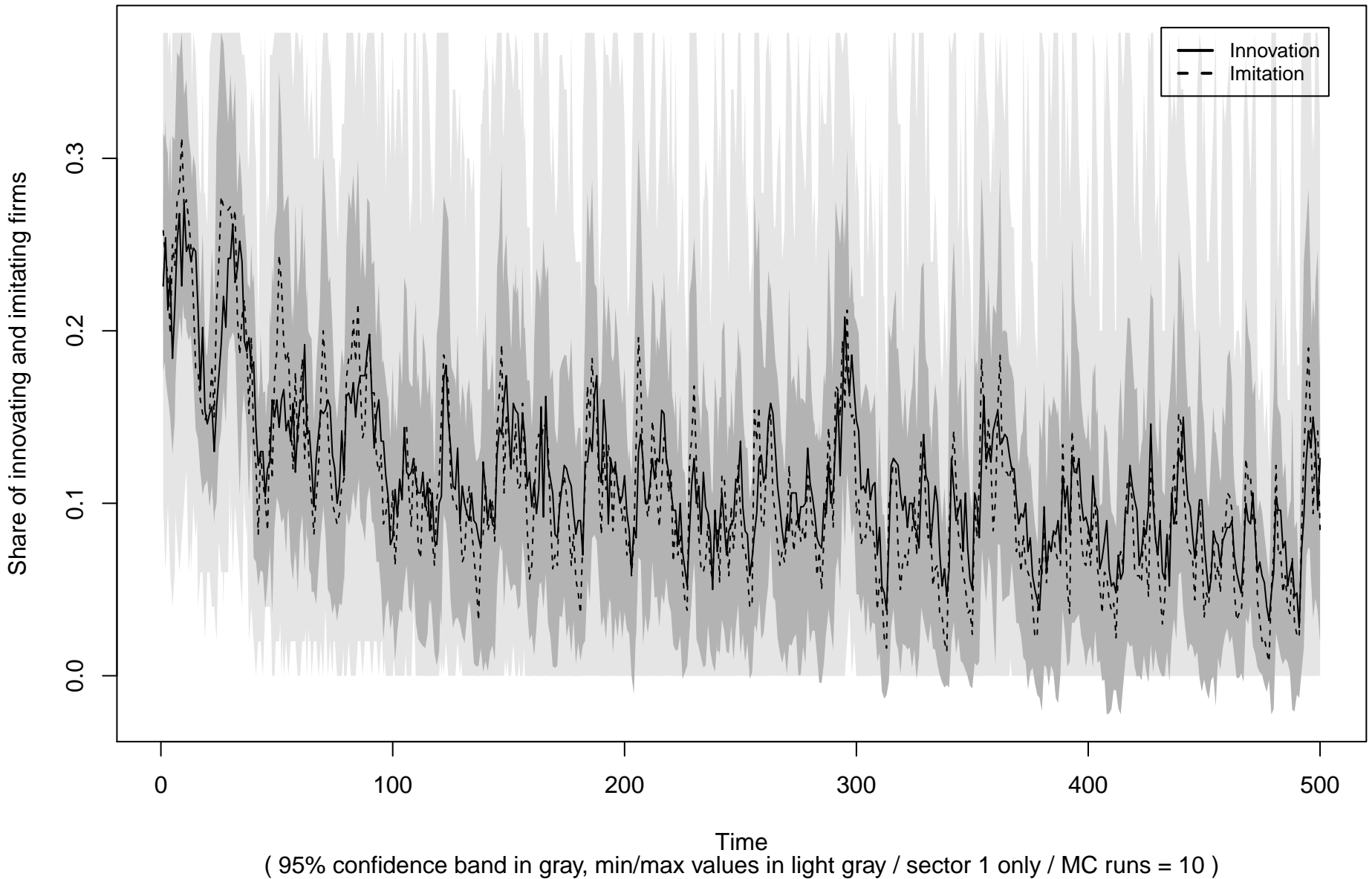
Wage share (Free entry)



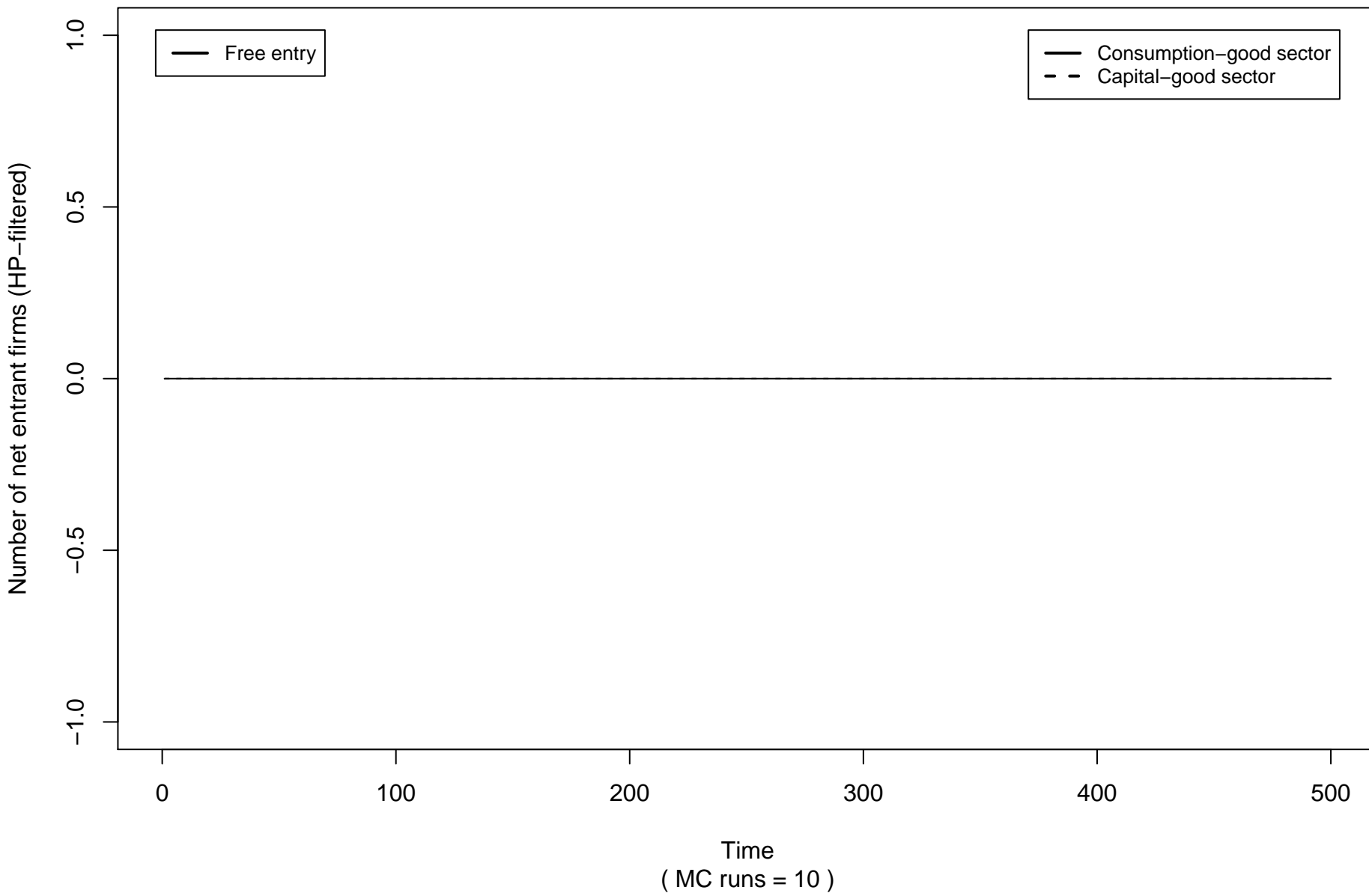
Innovation and imitation (all experiments)



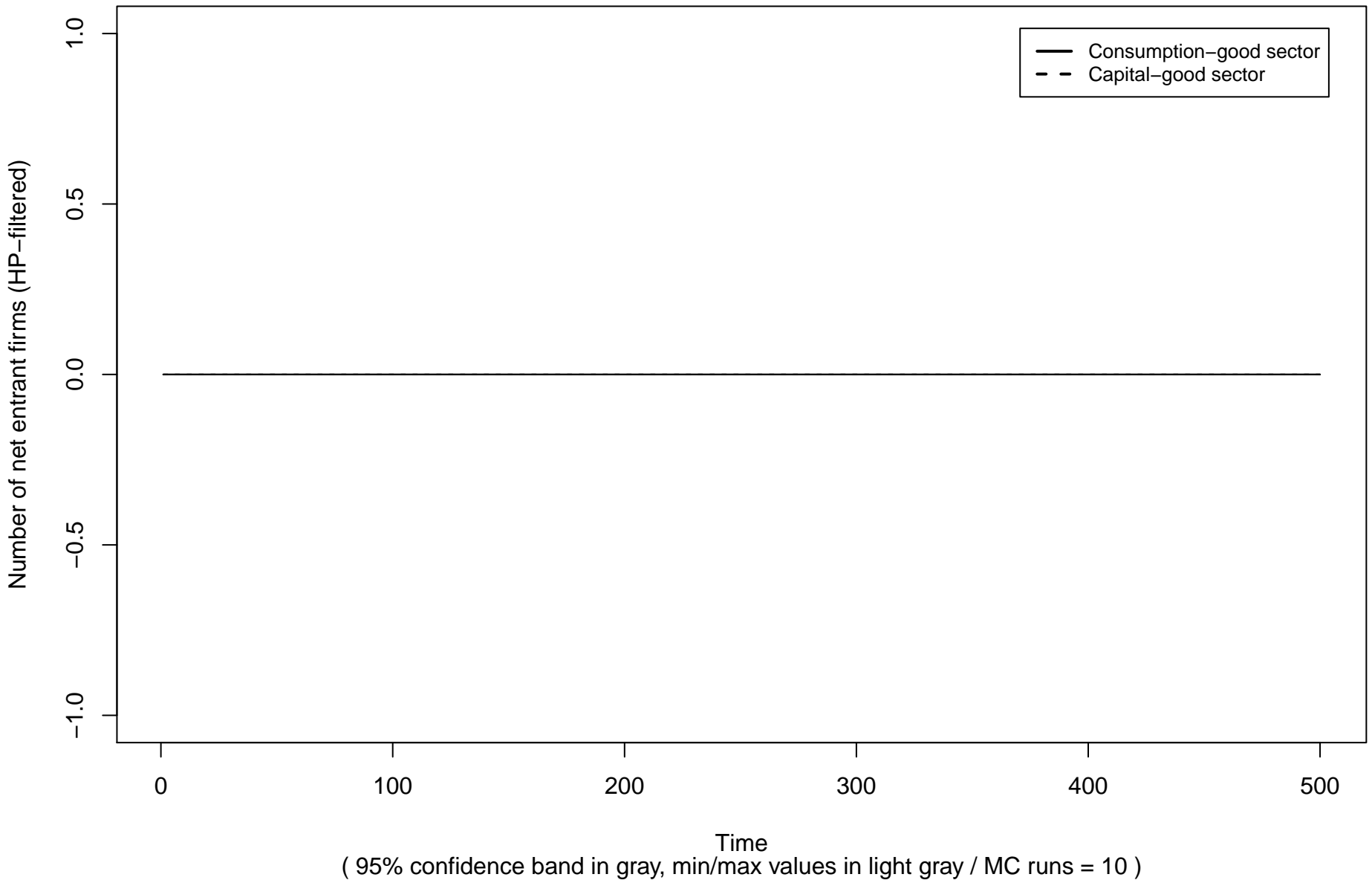
Innovation and imitation (Free entry)



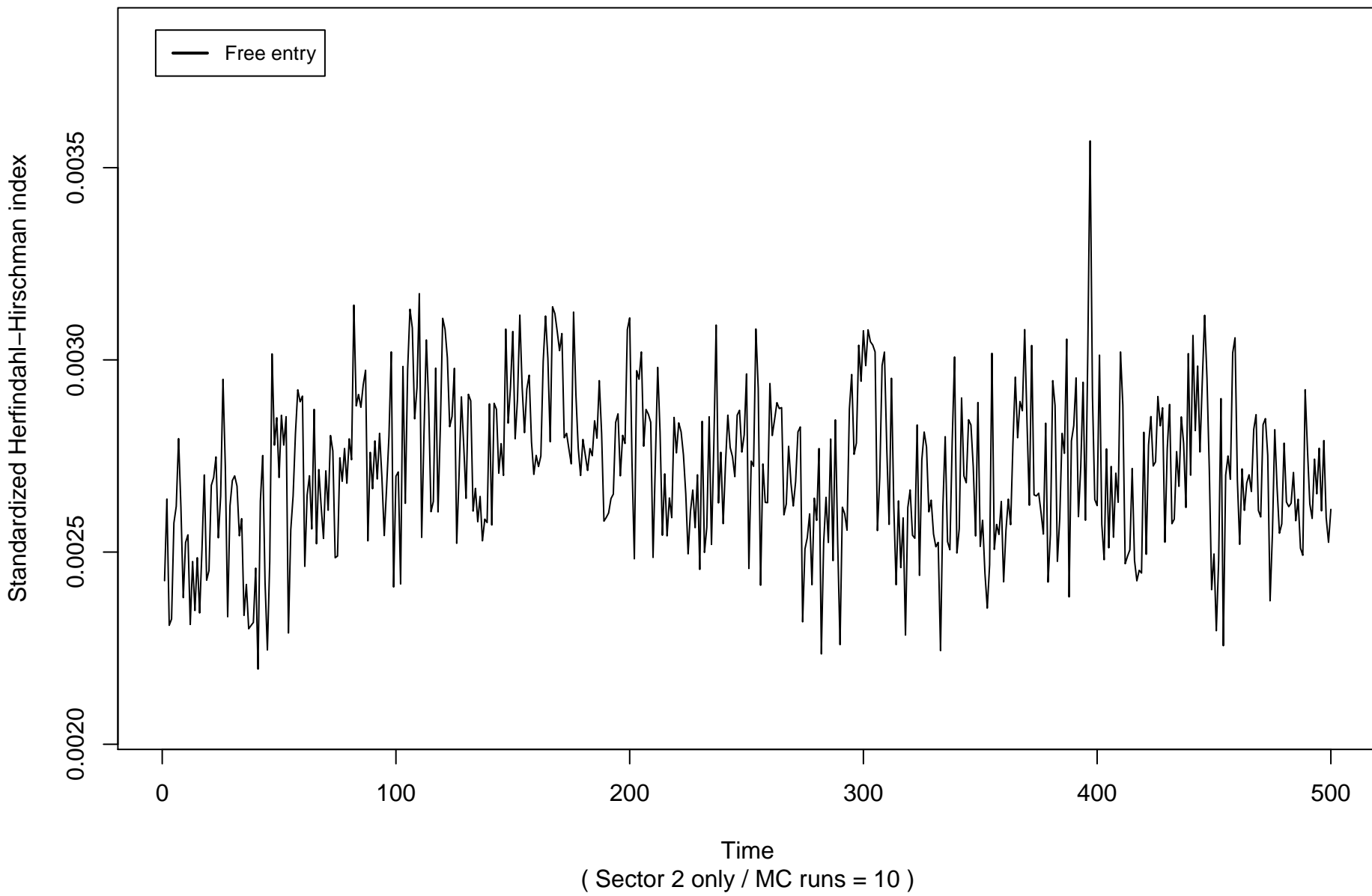
Net entry of firms trend (all experiments)



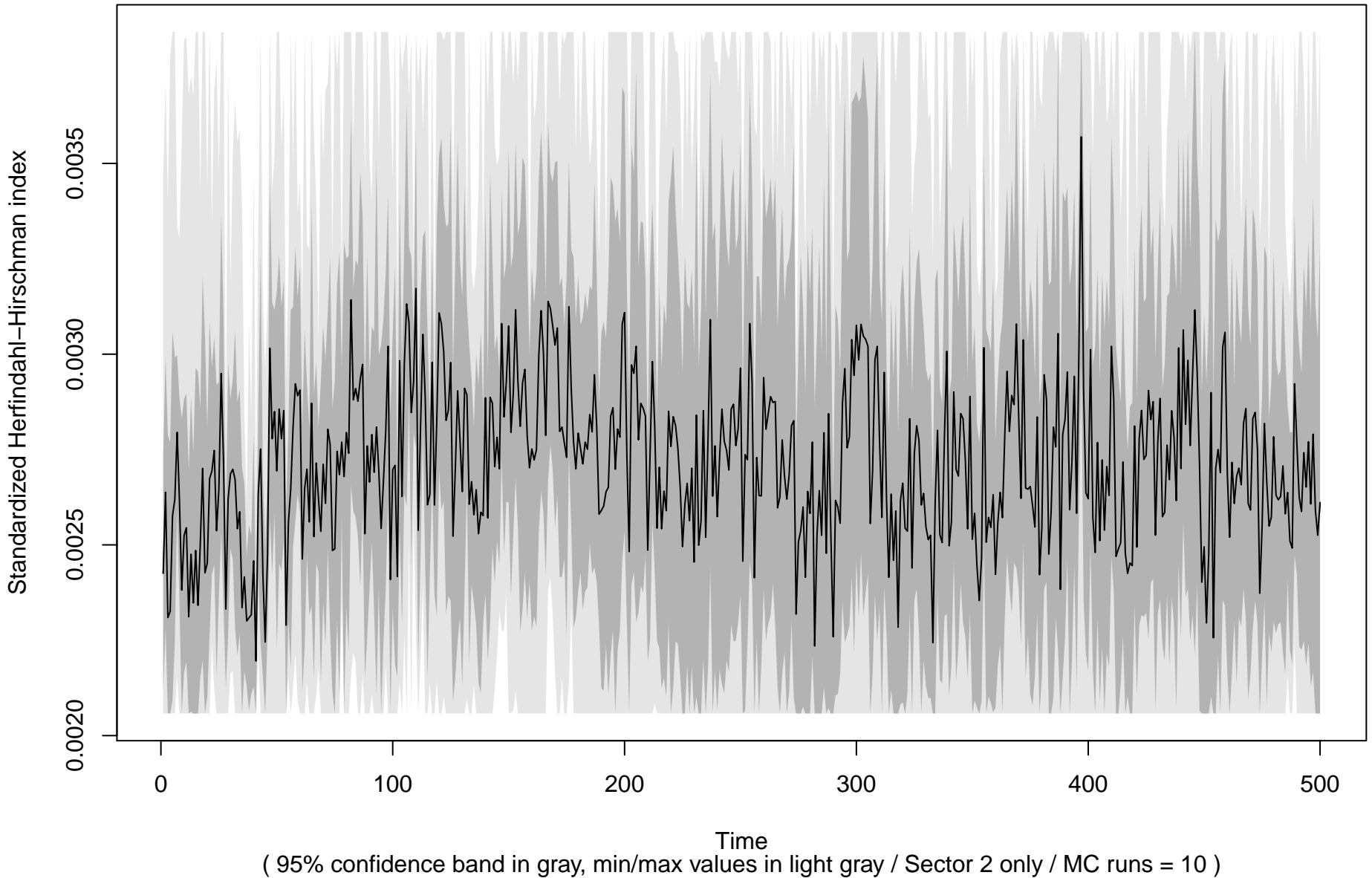
Net entry of firms trend (Free entry)



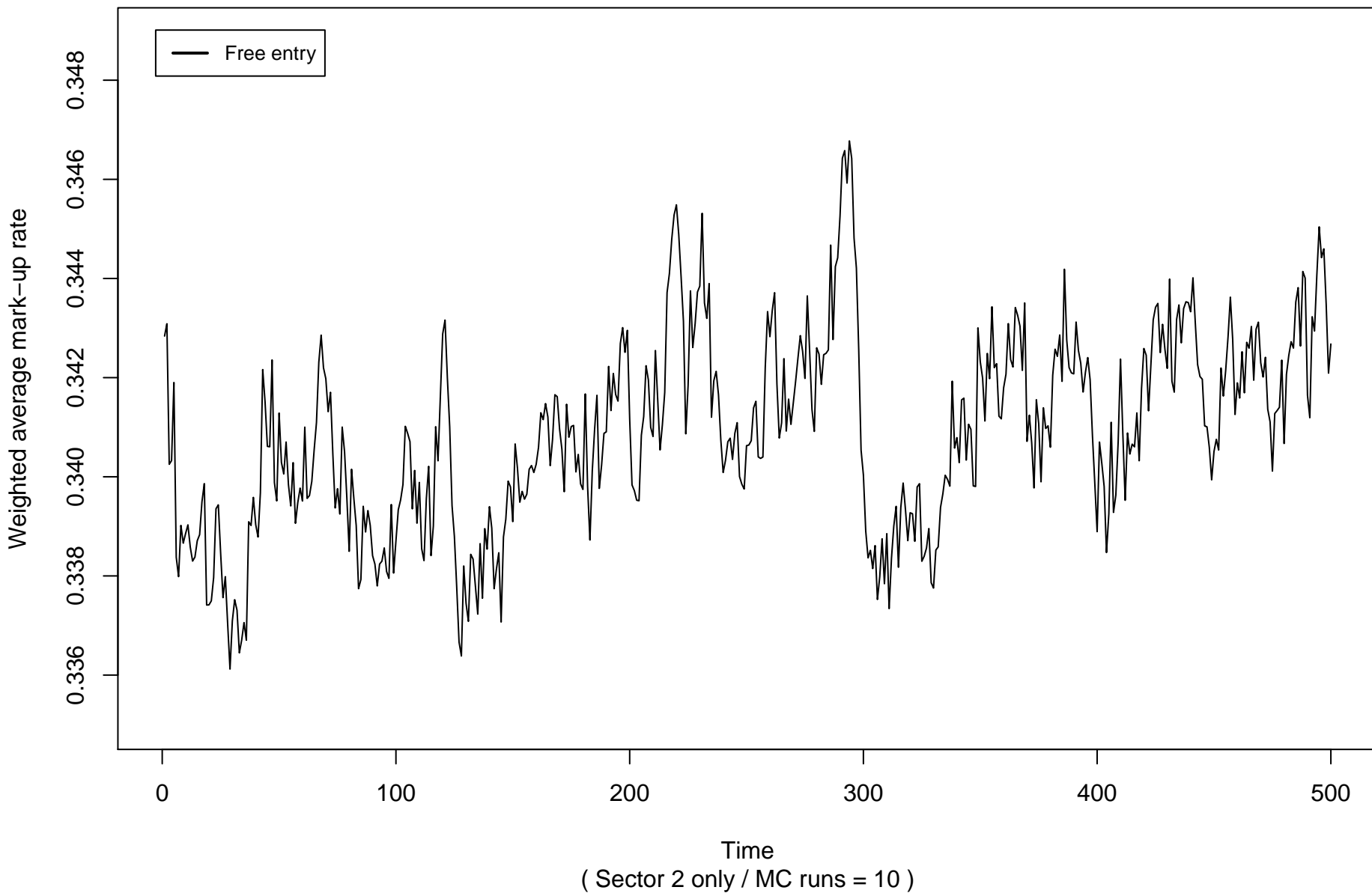
Market concentration (all experiments)



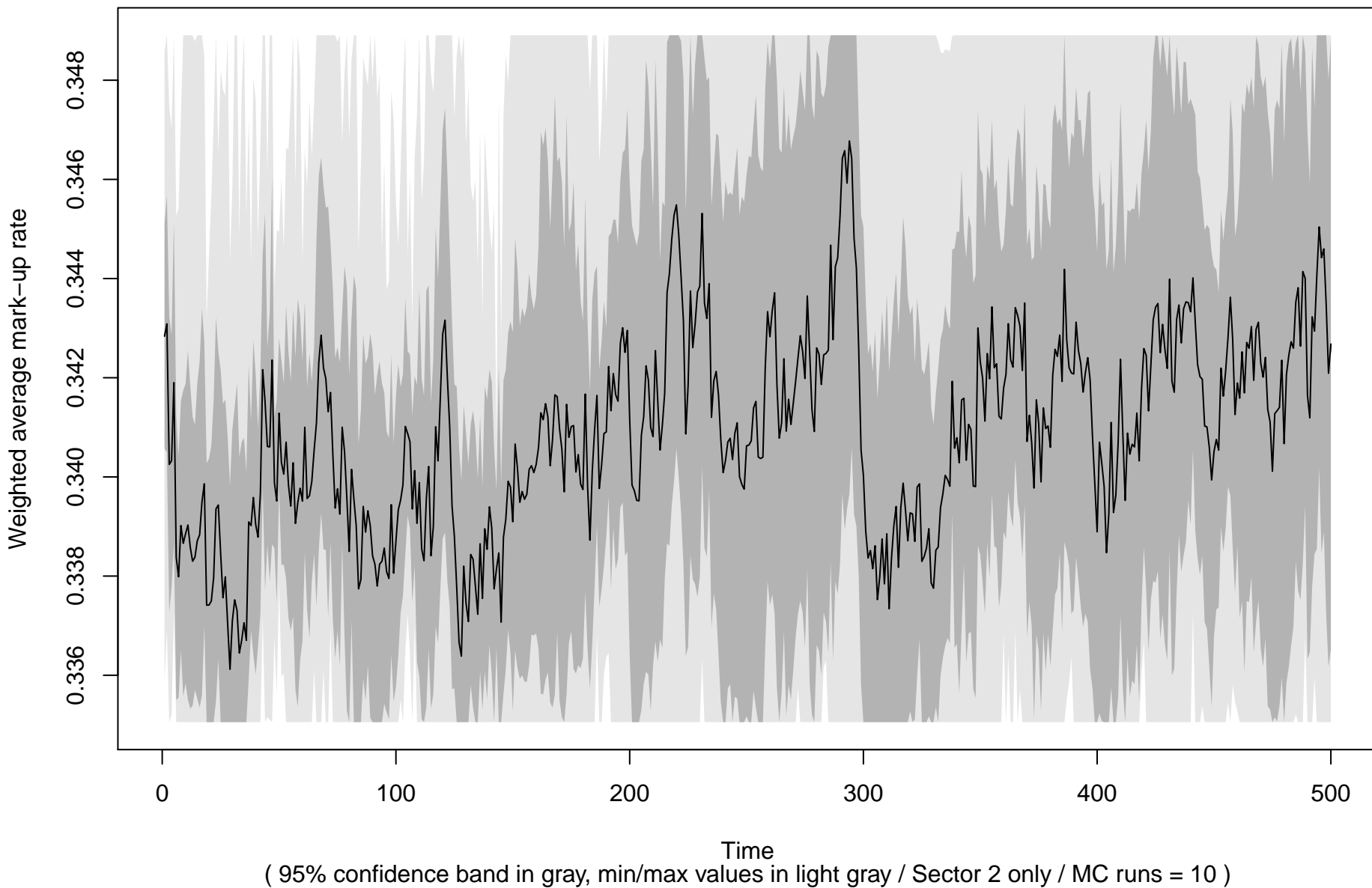
Market concentration (Free entry)



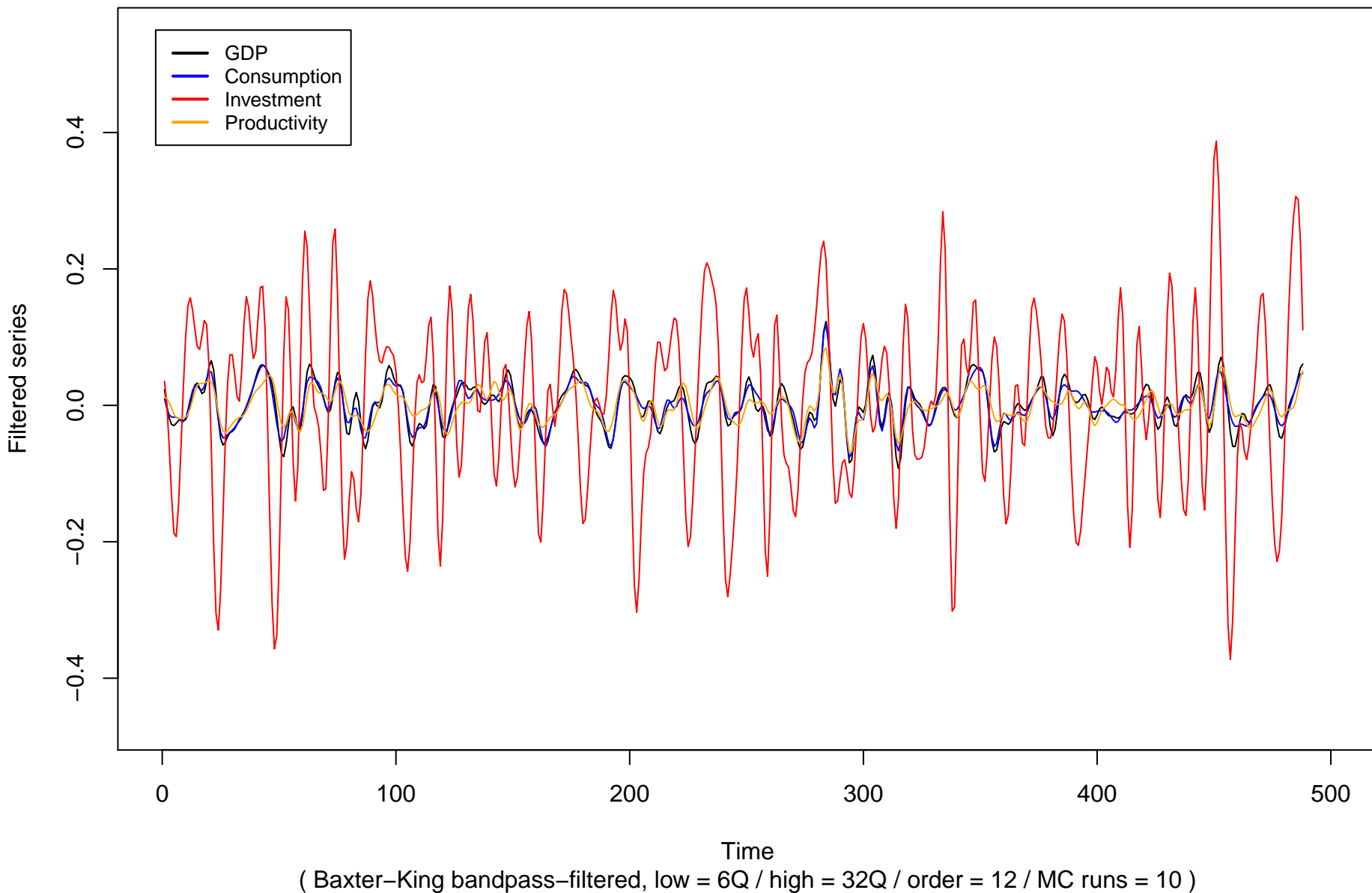
Mark-up average (all experiments)



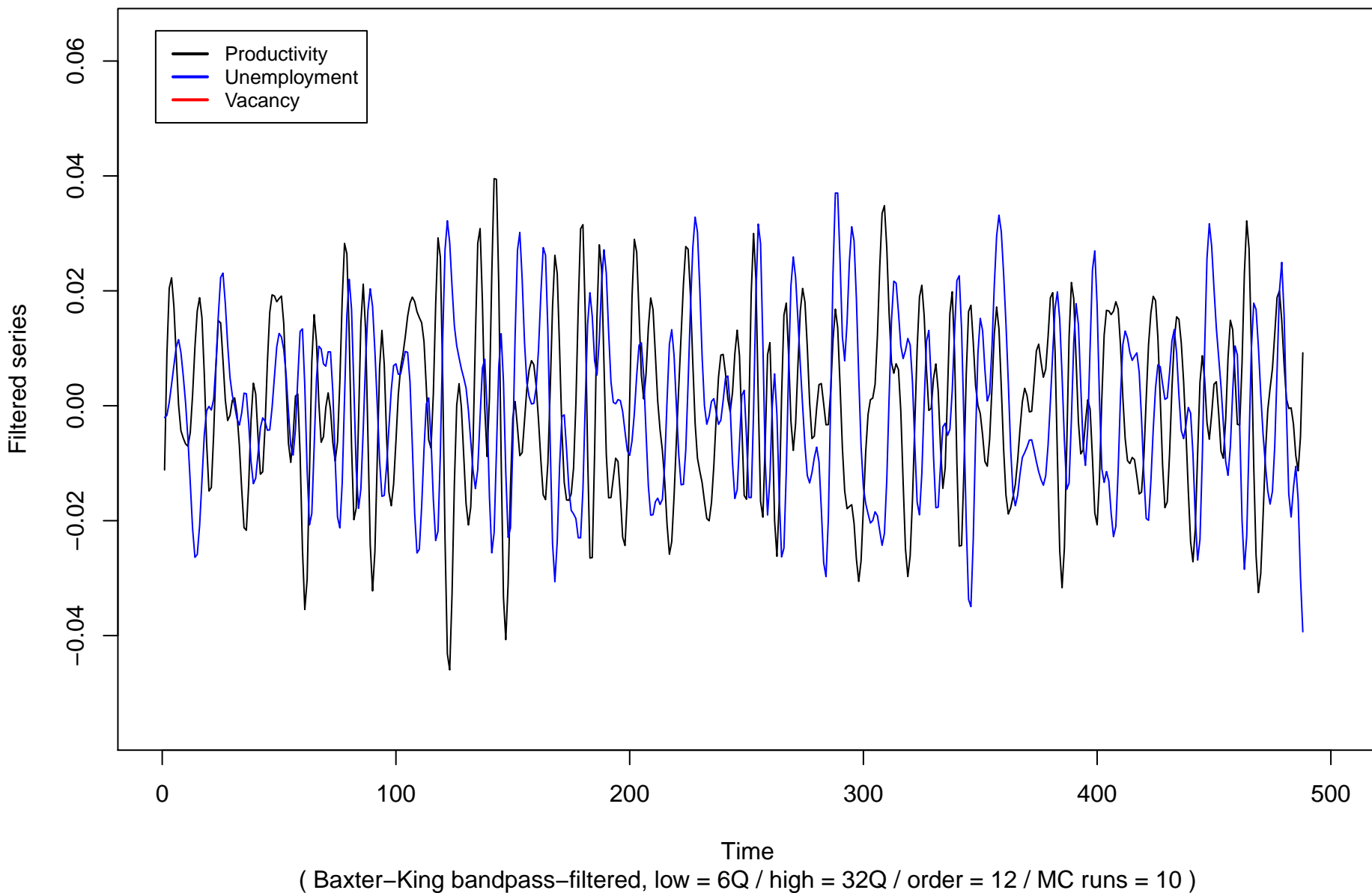
Mark-up average (Free entry)



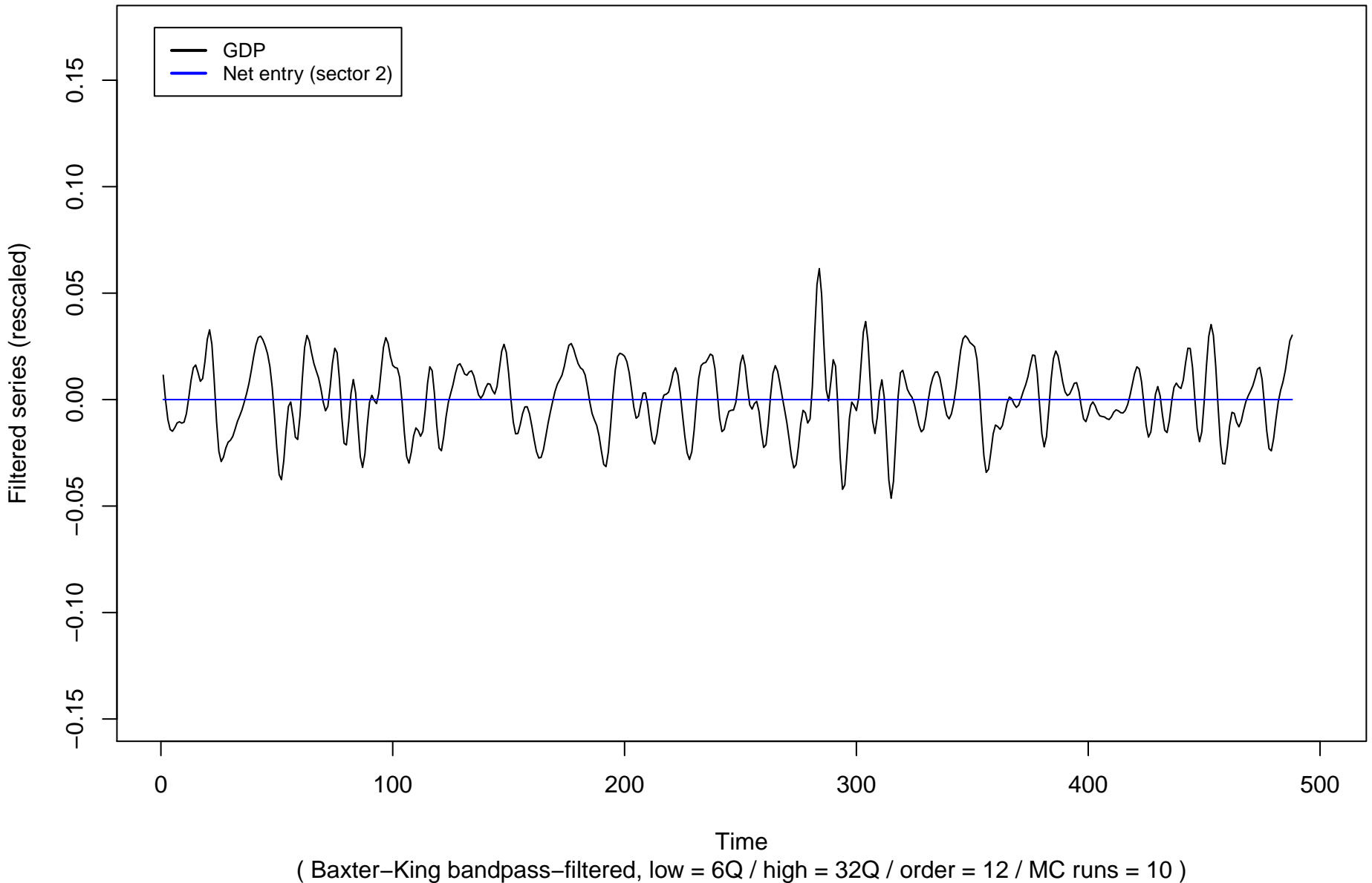
GDP cycles (Free entry)



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	0.01481	0.01491	0.01551	0.01486	0.0149
(s.e.)	0.0005809	0.0005782	0.001574	0.0005697	0.0005934
ADF test (logs)	−3.148	−3.006	−6.734	−3.194	−3.179
(s.e.)	0.1822	0.1693	0.2883	0.1557	0.1716
(p-val.)	0.1705	0.2036	0.01	0.1413	0.1486
(s.e.)	0.04488	0.04982	0	0.0418	0.04244
ADF test (bpf)	−5.626	−5.337	−6.928	−6.215	−6.194
(s.e.)	0.2397	0.2104	0.1206	0.2359	0.2731
(p-val.)	0.01	0.01	0.01	0.01	0.01
(s.e.)	0	0	0	0	0
s.d. (bpf)	0.08527	0.06903	1.639	0.06254	0.068
(s.e.)	0.004057	0.002601	0.1696	0.002465	0.006135
relative s.d. (GDP)	1	0.8095	19.22	0.7334	0.7975

(bpf: Baxter–King bandpass–filtered series, low = 6Q / high = 32Q / order = 12 / MC runs = 10 / period = 301 – 600)

(ADF test H0: there are unit roots / non–stationary at 5% level)

Correlation structure for GDP (Free entry)

	-4	-3	-2	-1	0	1	2	3	4
GDP (output)	-0.01821	0.2508	0.591	0.8826	1	0.8826	0.591	0.2508	-0.01821
(s.e.)	0.02477	0.02424	0.01669	0.005503	2.341e-17	0.005503	0.01669	0.02424	0.02477
(p-val.)	0.9013	3.011e-05	1.034e-10	8.51e-17	NA	8.51e-17	1.034e-10	3.011e-05	0.9013
Consumption	0.1066	0.3411	0.6216	0.8573	0.9506	0.849	0.5968	0.2909	0.02914
(s.e.)	0.02584	0.02993	0.02169	0.0103	0.007078	0.006193	0.01757	0.02597	0.0252
(p-val.)	0.1221	5.512e-06	6.367e-10	3.193e-14	3.943e-16	3.622e-16	1.484e-10	9.831e-06	0.8641
Investment	-0.3563	-0.4488	-0.4554	-0.328	-0.07977	0.2084	0.4248	0.4981	0.4313
(s.e.)	0.02607	0.02968	0.03154	0.03429	0.0398	0.04298	0.03826	0.02714	0.01969
(p-val.)	1.101e-06	2.861e-07	4.131e-07	2.458e-05	0.09843	0.007637	4.224e-06	4.483e-08	1.238e-08
Net investment	-0.3134	-0.4057	-0.4185	-0.3065	-0.08282	0.1766	0.3683	0.4285	0.364
(s.e.)	0.02975	0.03137	0.03312	0.03694	0.0447	0.05048	0.04734	0.03483	0.02236
(p-val.)	1.293e-05	1.311e-06	1.493e-06	8.623e-05	0.04363	0.03007	9.073e-05	1.785e-06	2.373e-07
Change in inventories	-0.2855	-0.178	0.03627	0.2657	0.3977	0.3652	0.2144	0.0435	-0.06139
(s.e.)	0.03514	0.03152	0.02917	0.03279	0.03635	0.04041	0.03637	0.02765	0.02497
(p-val.)	0.0001222	0.002661	0.6129	0.0001543	5.424e-06	2.97e-05	0.001264	0.6054	0.5246
Unemployment rate	0.3112	0.3417	0.246	0.05522	-0.1471	-0.2779	-0.294	-0.22	-0.1177
(s.e.)	0.04997	0.03663	0.02944	0.03376	0.04681	0.0626	0.07469	0.07673	0.06665
(p-val.)	0.003144	0.0005738	0.002069	0.4202	0.03056	0.005193	0.00852	0.02157	0.04669
Productivity	0.1701	0.3645	0.5779	0.7471	0.8057	0.7159	0.513	0.2671	0.05033
(s.e.)	0.05159	0.05741	0.04586	0.02535	0.01436	0.03233	0.05919	0.07586	0.0713
(p-val.)	0.01261	0.0003925	8.997e-07	3.99e-10	1.169e-12	5.262e-09	2.248e-05	0.01192	0.01032
Mark-up (sector 2)	0.2212	0.1318	0.01838	-0.09054	-0.1662	-0.1925	-0.1794	-0.1515	-0.1315
(s.e.)	0.02805	0.03222	0.0459	0.05198	0.04838	0.04095	0.03327	0.02368	0.01874
(p-val.)	0.000353	0.05462	0.2312	0.02795	0.01086	0.003639	0.001397	0.004441	0.01131
Total firm debt	0.1155	0.01673	-0.07411	-0.1411	-0.1779	-0.1876	-0.1842	-0.1777	-0.1701
(s.e.)	0.05914	0.05054	0.04671	0.05159	0.0601	0.06495	0.06271	0.05444	0.04614
(p-val.)	0.001433	0.08139	0.02489	0.03831	0.03271	0.03333	0.01304	0.006585	0.0007433
Liquidity-to-sales ratio	0.103	-0.109	-0.3532	-0.5669	-0.6862	-0.6765	-0.5578	-0.3837	-0.2115
(s.e.)	0.03524	0.02727	0.01568	0.01237	0.02823	0.04255	0.04868	0.04758	0.04373
(p-val.)	0.006201	0.158	1.524e-08	1.096e-11	2.425e-09	1.014e-07	2.09e-06	6.389e-05	0.004663
Bankruptcy rate	0.3126	0.2465	0.1005	-0.07322	-0.2017	-0.2335	-0.1833	-0.1093	-0.06791
(s.e.)	0.04477	0.05335	0.0648	0.06736	0.05544	0.03709	0.03048	0.03199	0.02858
(p-val.)	0.0002835	0.006157	0.3251	0.005569	0.001107	0.001265	0.003998	0.1528	0.3665

(non-rate/ratio series are Baxter–King bandpass-filtered, low = 6Q / high = 32Q / order = 12 / MC runs = 10 / period = 301 – 600)

(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)	-0.01821	0.2508	0.591	0.8826	1	0.8826	0.591	0.2508	-0.01821
(s.e.)	0.02477	0.02424	0.01669	0.005503	2.341e-17	0.005503	0.01669	0.02424	0.02477
(p-val.)	0.9013	3.011e-05	1.034e-10	8.51e-17	NA	8.51e-17	1.034e-10	3.011e-05	0.9013
Consumption	0.1066	0.3411	0.6216	0.8573	0.9506	0.849	0.5968	0.2909	0.02914
(s.e.)	0.02584	0.02993	0.02169	0.0103	0.007078	0.006193	0.01757	0.02597	0.0252
(p-val.)	0.1221	5.512e-06	6.367e-10	3.193e-14	3.943e-16	3.622e-16	1.484e-10	9.831e-06	0.8641
Investment	-0.3563	-0.4488	-0.4554	-0.328	-0.07977	0.2084	0.4248	0.4981	0.4313
(s.e.)	0.02607	0.02968	0.03154	0.03429	0.0398	0.04298	0.03826	0.02714	0.01969
(p-val.)	1.101e-06	2.861e-07	4.131e-07	2.458e-05	0.09843	0.007637	4.224e-06	4.483e-08	1.238e-08
Productivity	0.1701	0.3645	0.5779	0.7471	0.8057	0.7159	0.513	0.2671	0.05033
(s.e.)	0.05159	0.05741	0.04586	0.02535	0.01436	0.03233	0.05919	0.07586	0.0713
(p-val.)	0.01261	0.0003925	8.997e-07	3.99e-10	1.169e-12	5.262e-09	2.248e-05	0.01192	0.01032
Net entry	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
Entry	-0.1272	0.04552	0.2504	0.4338	0.539	0.5282	0.419	0.2591	0.1052
(s.e.)	0.04618	0.06255	0.06966	0.06637	0.05496	0.03997	0.0299	0.02787	0.02961
(p-val.)	0.07143	0.1202	5.96e-05	7.574e-05	7.845e-06	6.84e-07	6.238e-07	6.071e-05	0.06721
Wage	0.3154	0.5192	0.6858	0.7671	0.7347	0.5882	0.3762	0.1542	-0.03271
(s.e.)	0.03502	0.0366	0.04717	0.05486	0.05486	0.04902	0.04056	0.03142	0.02396
(p-val.)	4.319e-05	3.849e-07	2.155e-07	2.67e-07	4.031e-07	1.325e-06	2.277e-05	0.02122	0.8013
Unemployment rate	0.3112	0.3417	0.246	0.05522	-0.1471	-0.2779	-0.294	-0.22	-0.1177
(s.e.)	0.04997	0.03663	0.02944	0.03376	0.04681	0.0626	0.07469	0.07673	0.06665
(p-val.)	0.003144	0.0005738	0.002069	0.4202	0.03056	0.005193	0.00852	0.02157	0.04669
Vacancy rate	0.1665	-0.03413	-0.2425	-0.3824	-0.4087	-0.3289	-0.203	-0.09464	-0.03714
(s.e.)	0.03828	0.03219	0.04725	0.06441	0.07133	0.06418	0.04967	0.03988	0.03807
(p-val.)	0.004784	0.2504	0.003709	0.0005644	0.0006387	0.001873	0.01572	0.1301	0.1125

(non-rate/ratio series are Baxter–King bandpass-filtered, low = 6Q / high = 32Q / order = 12 / MC runs = 10 / period = 301 – 600)

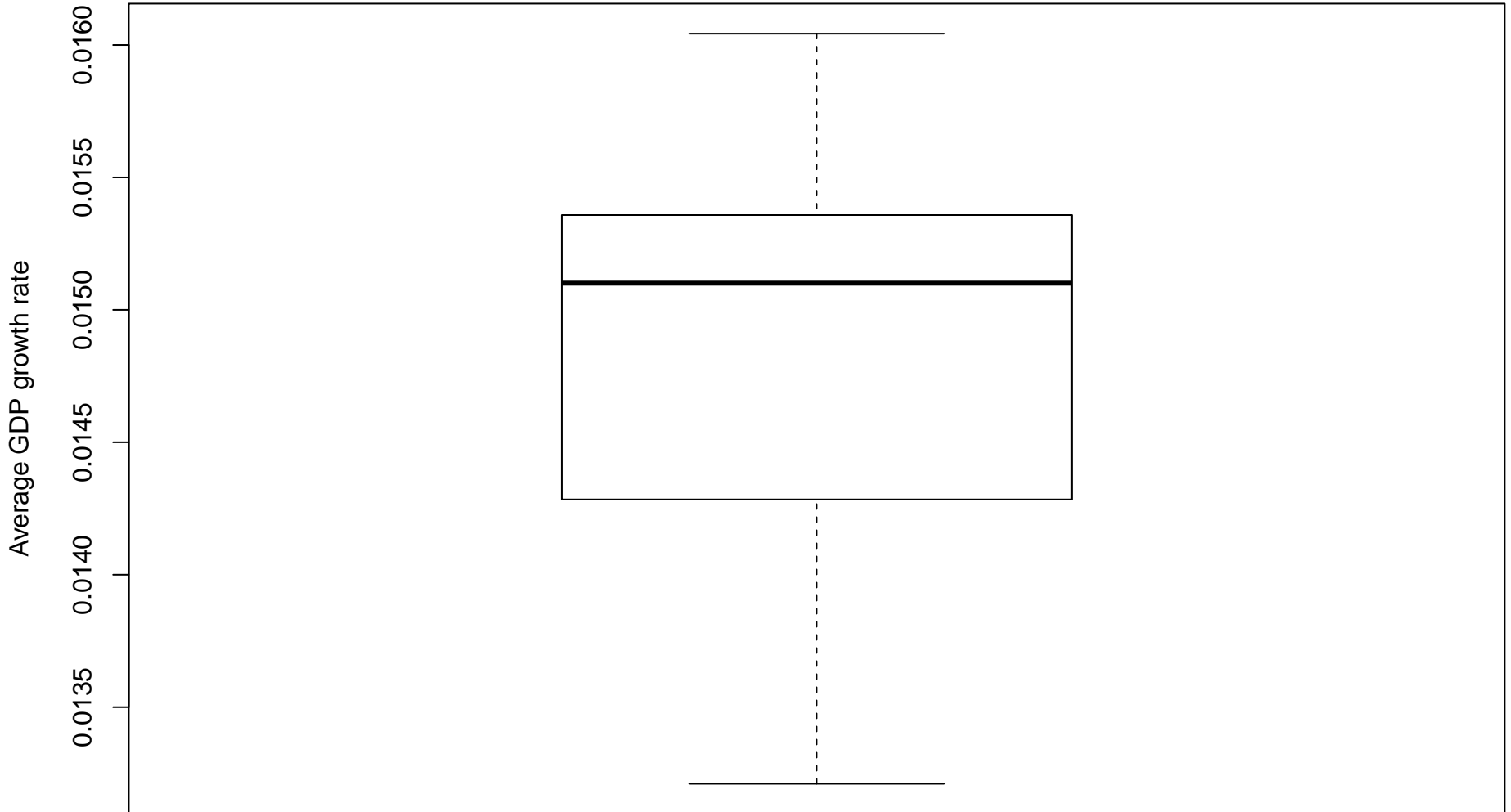
(test H0: lag coefficient is not significant at 5% level)

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	0.19	0.30	0.33	0.27	0.00	C
dA	0.01	1.00	0.01	1.00	0.10	0.00	0.00	1.00	0.11	0.76	0.00	C
dw	0.01	1.00	0.01	1.00	0.10	0.00	0.01	0.80	0.11	0.71	0.00	C
V	0.02	0.90	0.02	0.90	0.06	0.40	0.05	0.80	0.05	0.84	0.00	C
U	0.01	1.00	0.01	1.00	0.03	0.78	0.00	1.00	0.01	0.96	0.00	C
mu2avg	0.07	0.90	0.08	0.90	0.06	0.40	0.00	1.00	0.02	0.93	0.00	C
HH1	0.01	1.00	0.01	1.00	0.10	0.00	0.00	1.00	0.17	0.64	0.00	C
HH2	0.01	1.00	0.01	1.00	0.06	0.40	0.07	0.70	0.21	0.42	0.00	C

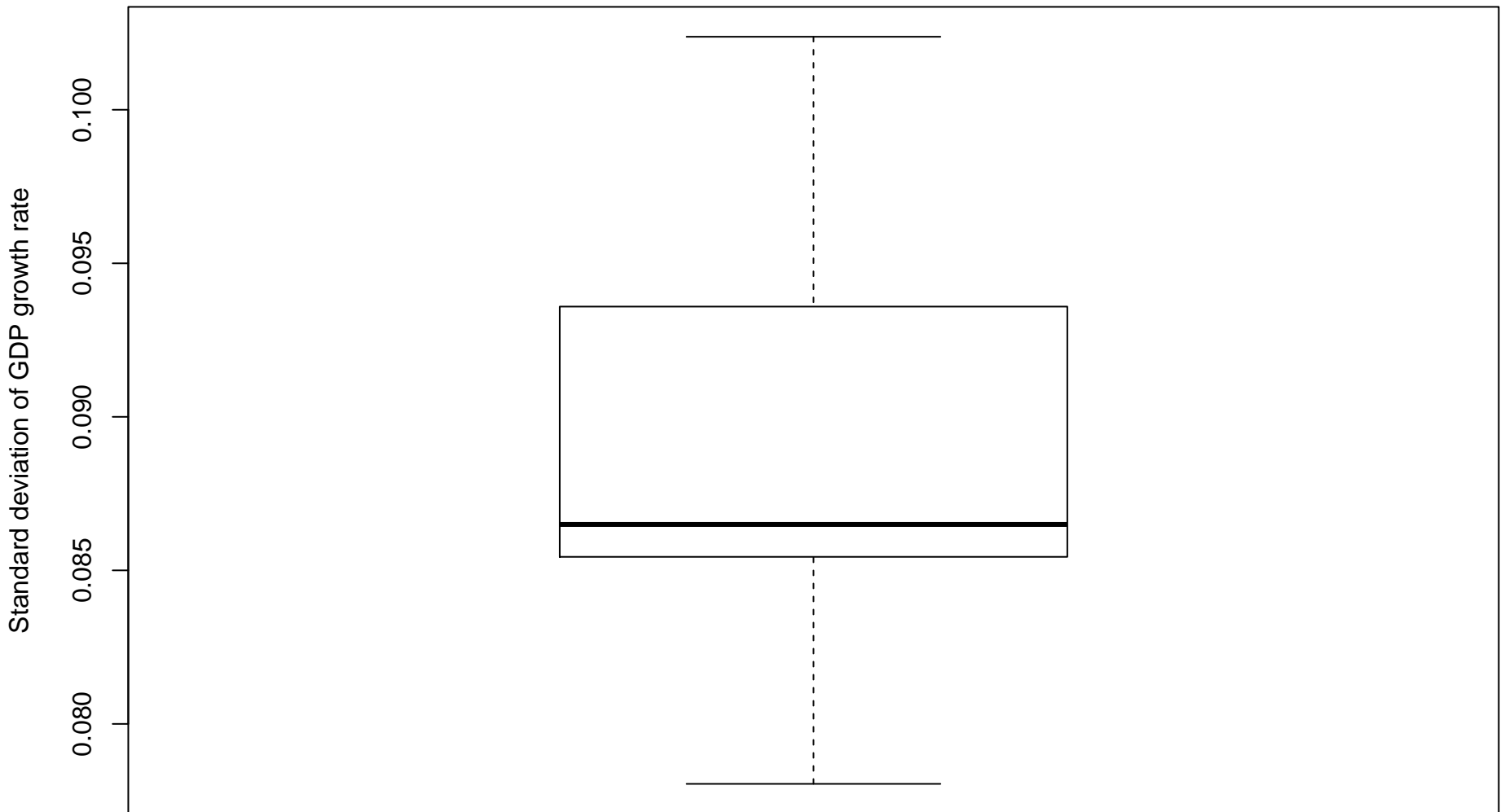
(average p-values for testing H0 and rate of rejection of H0 / MC runs = 10 / period = 301 – 600)
 (ADF/PP H0: non-stationary, KPSS H0: stationary, BDS H0: i.i.d., KS/AD/WW H0: ergodic)
 (significance = 0.05)

GDP growth



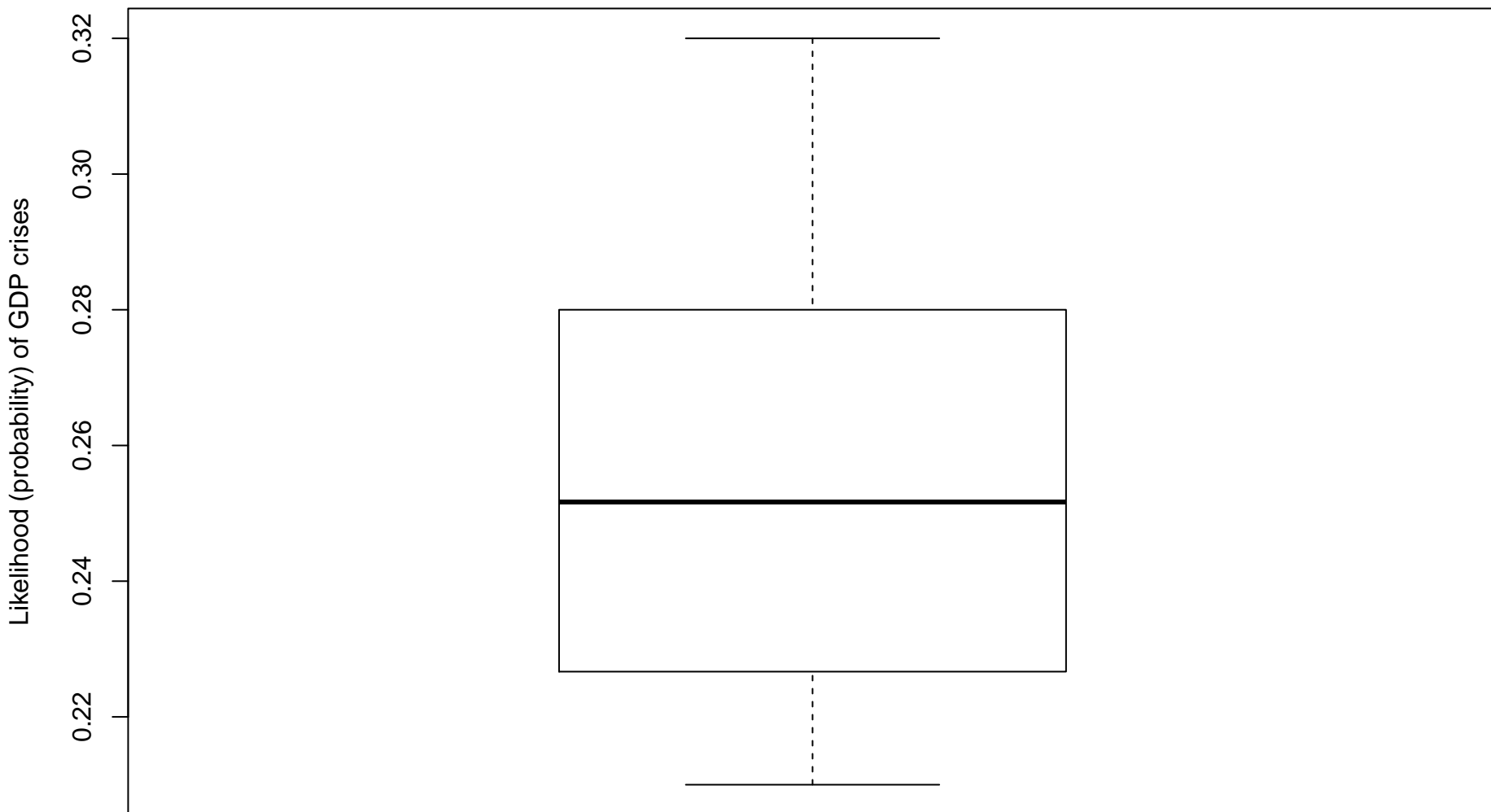
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Volatility of GDP growth



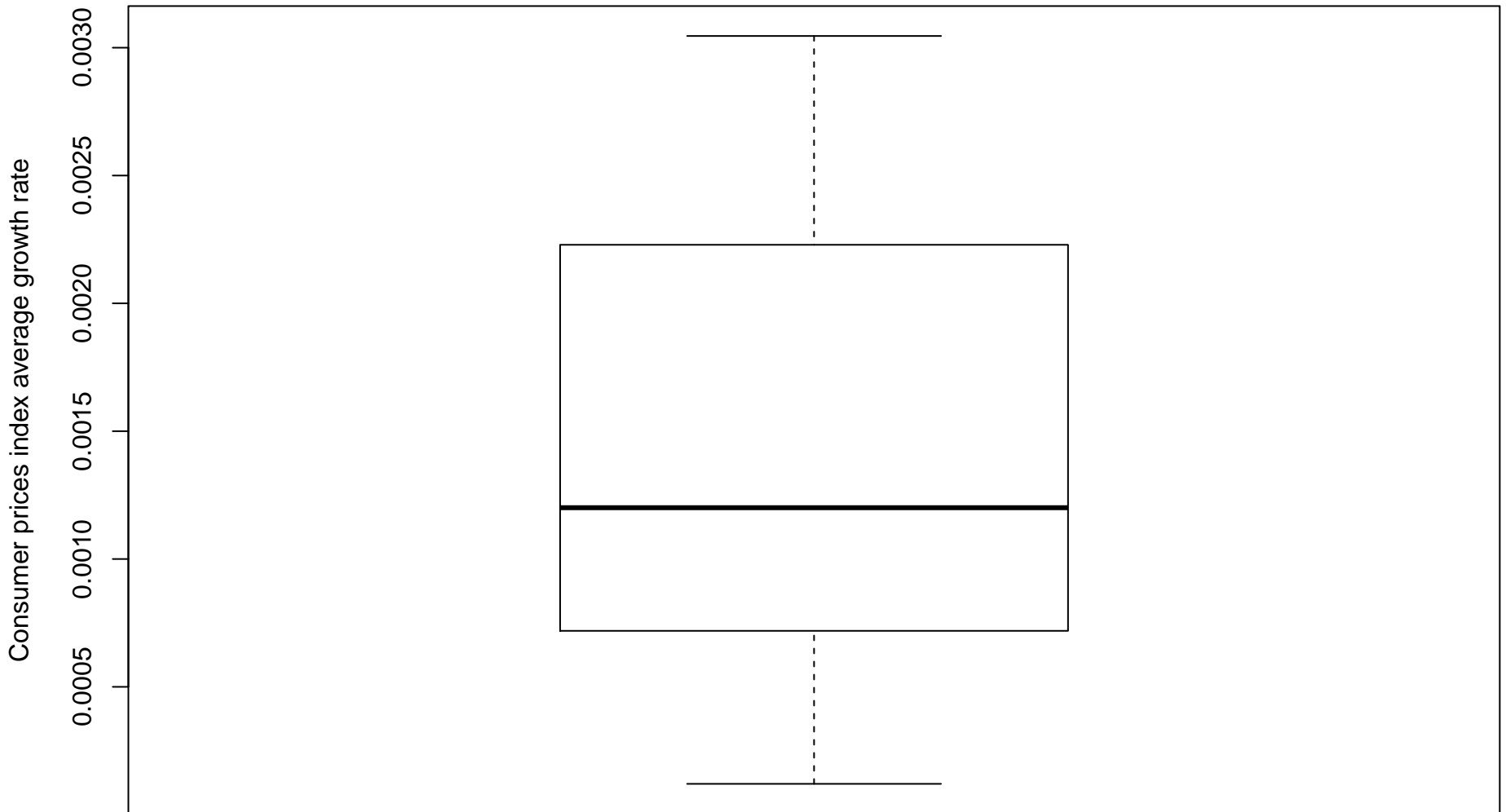
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Likelihood of GDP crises



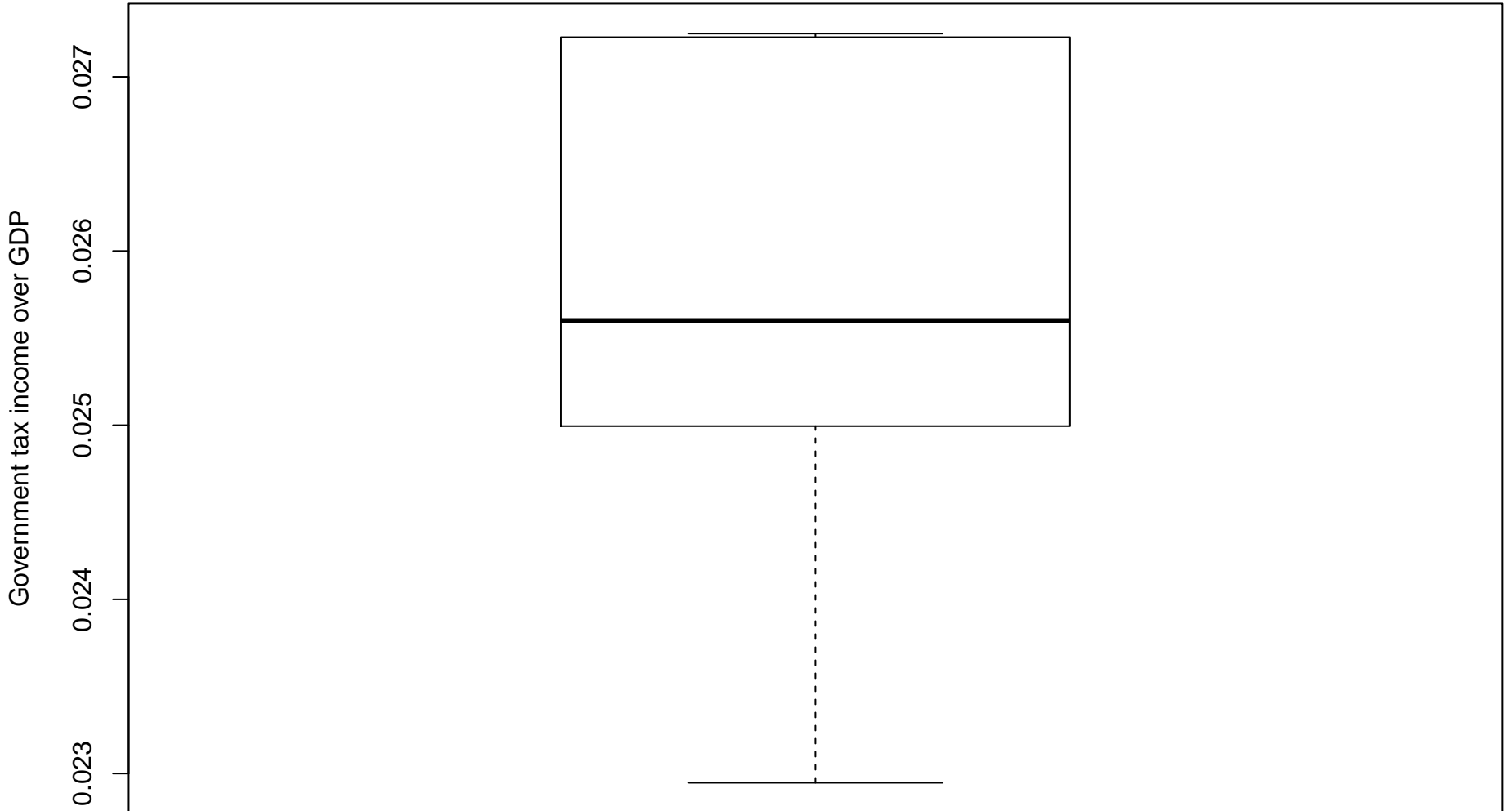
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Inflation



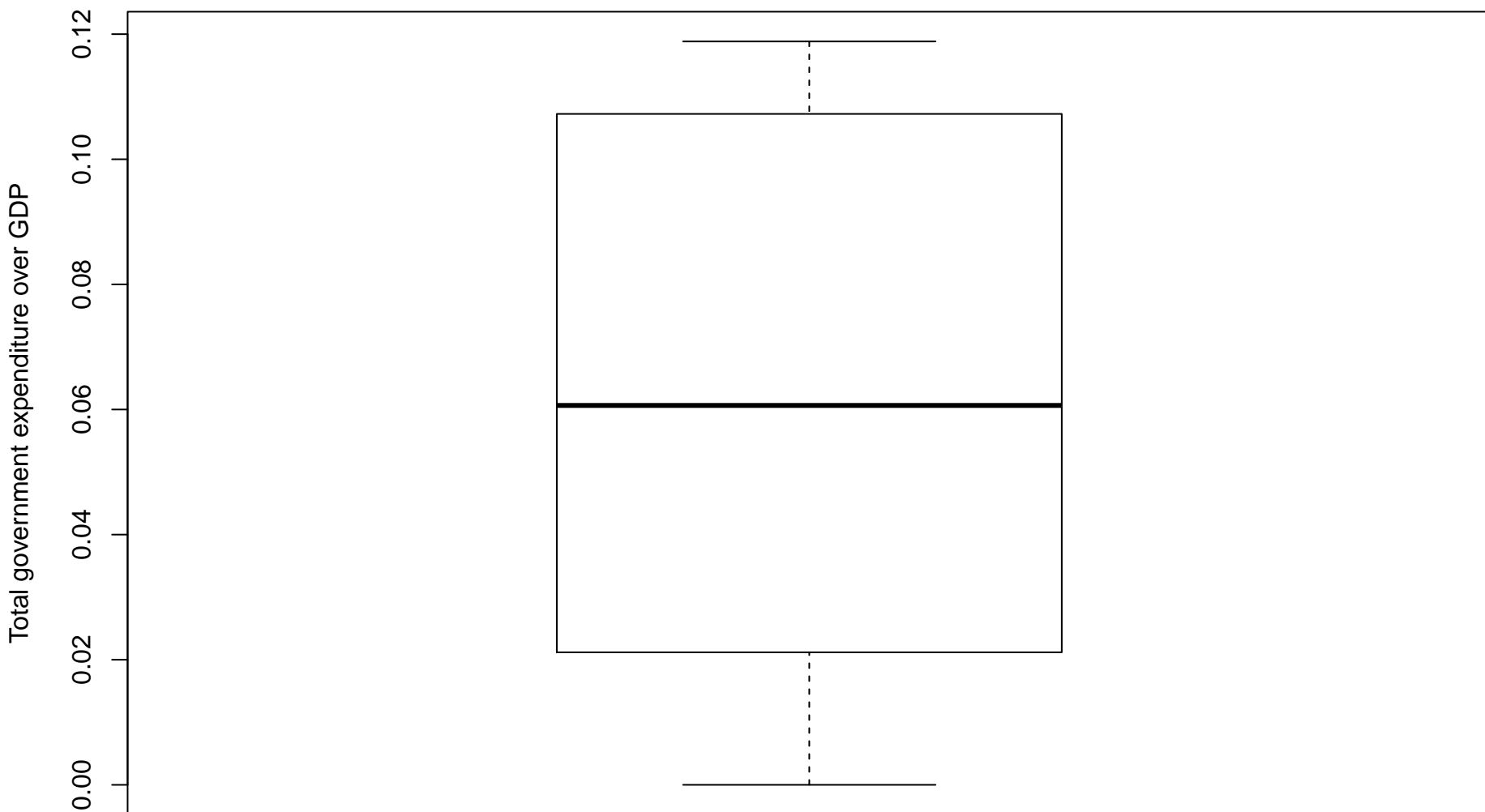
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Tax



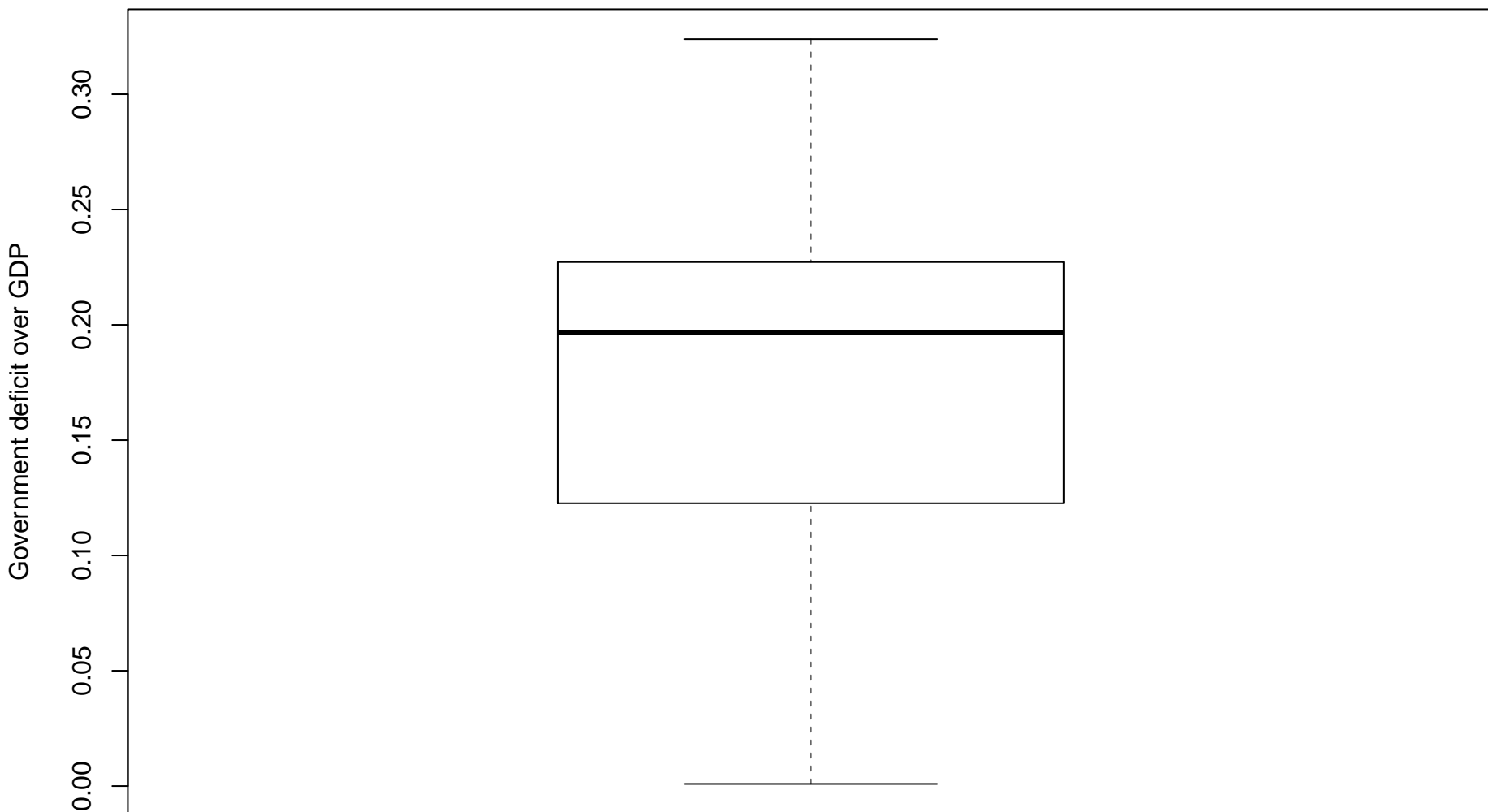
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Government total expenditure



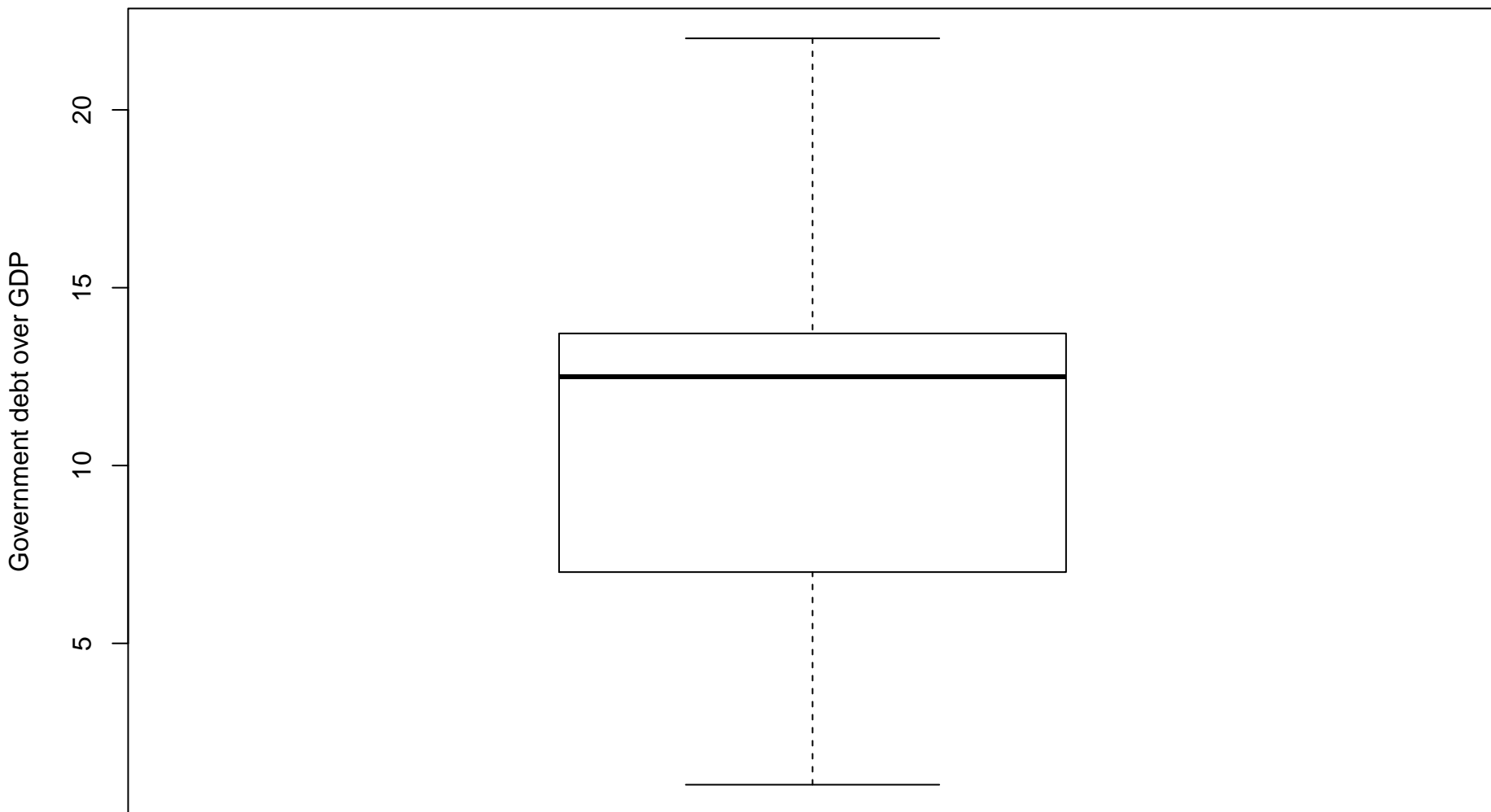
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Government deficit



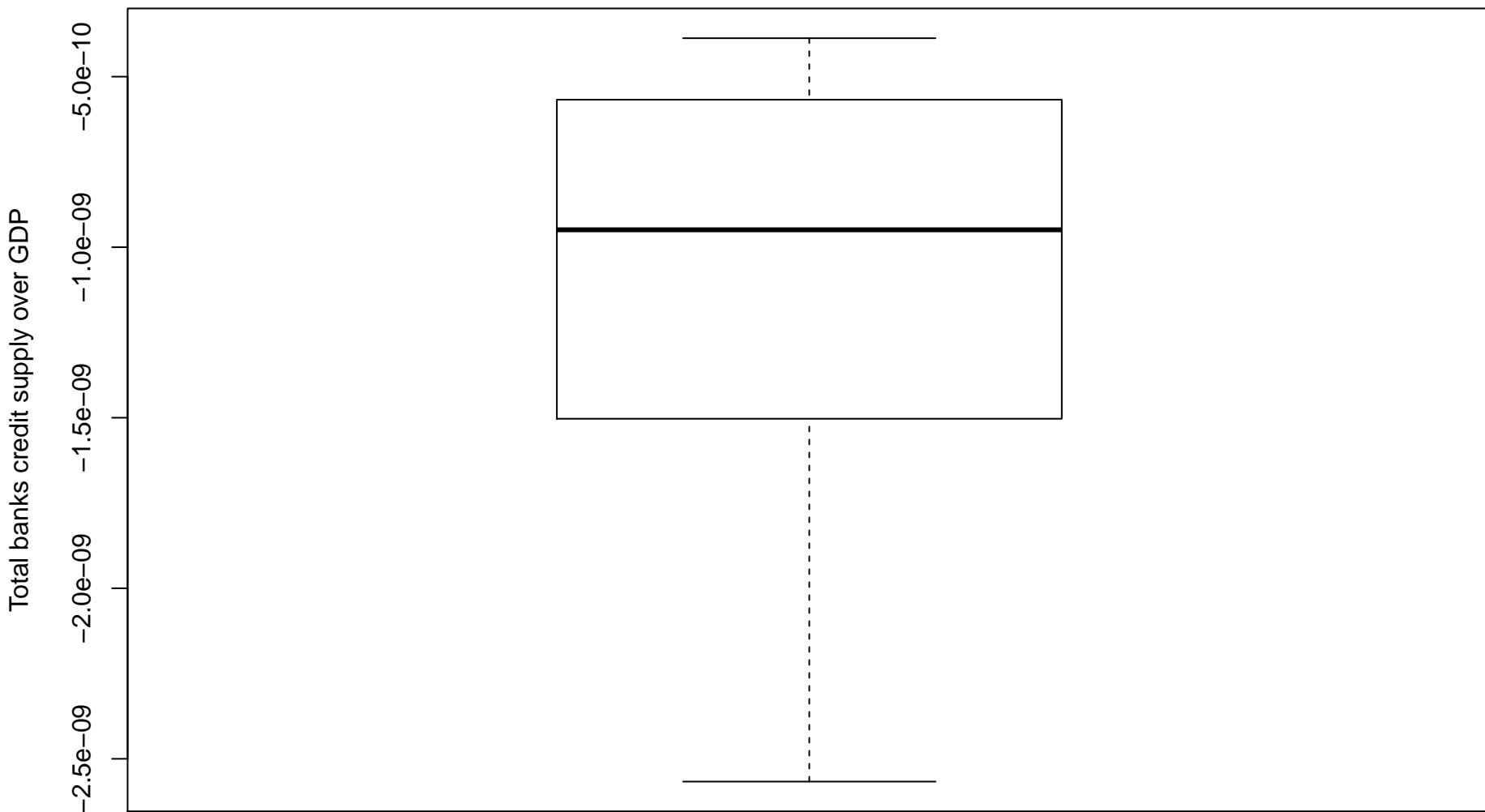
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Government debt



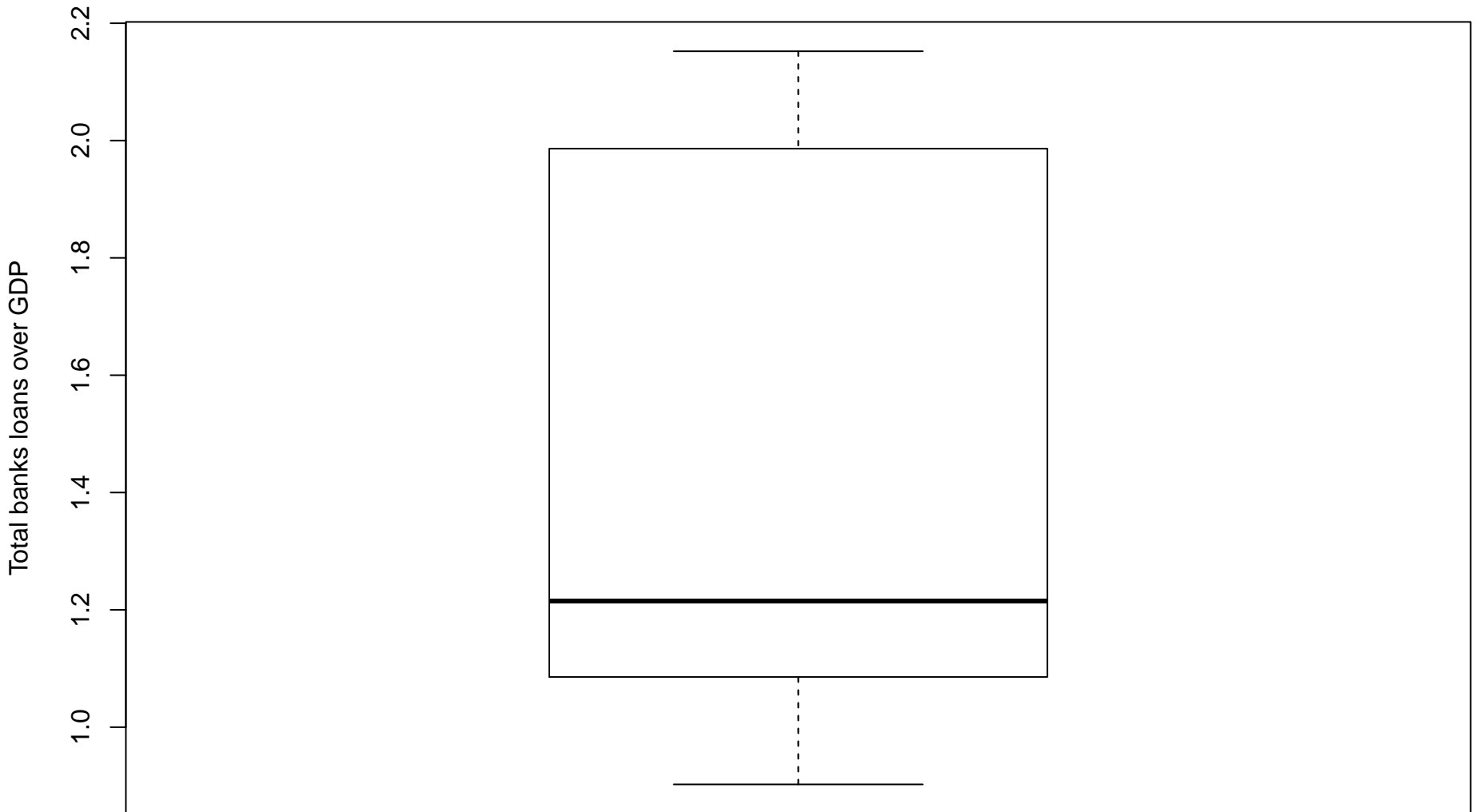
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Credit supply



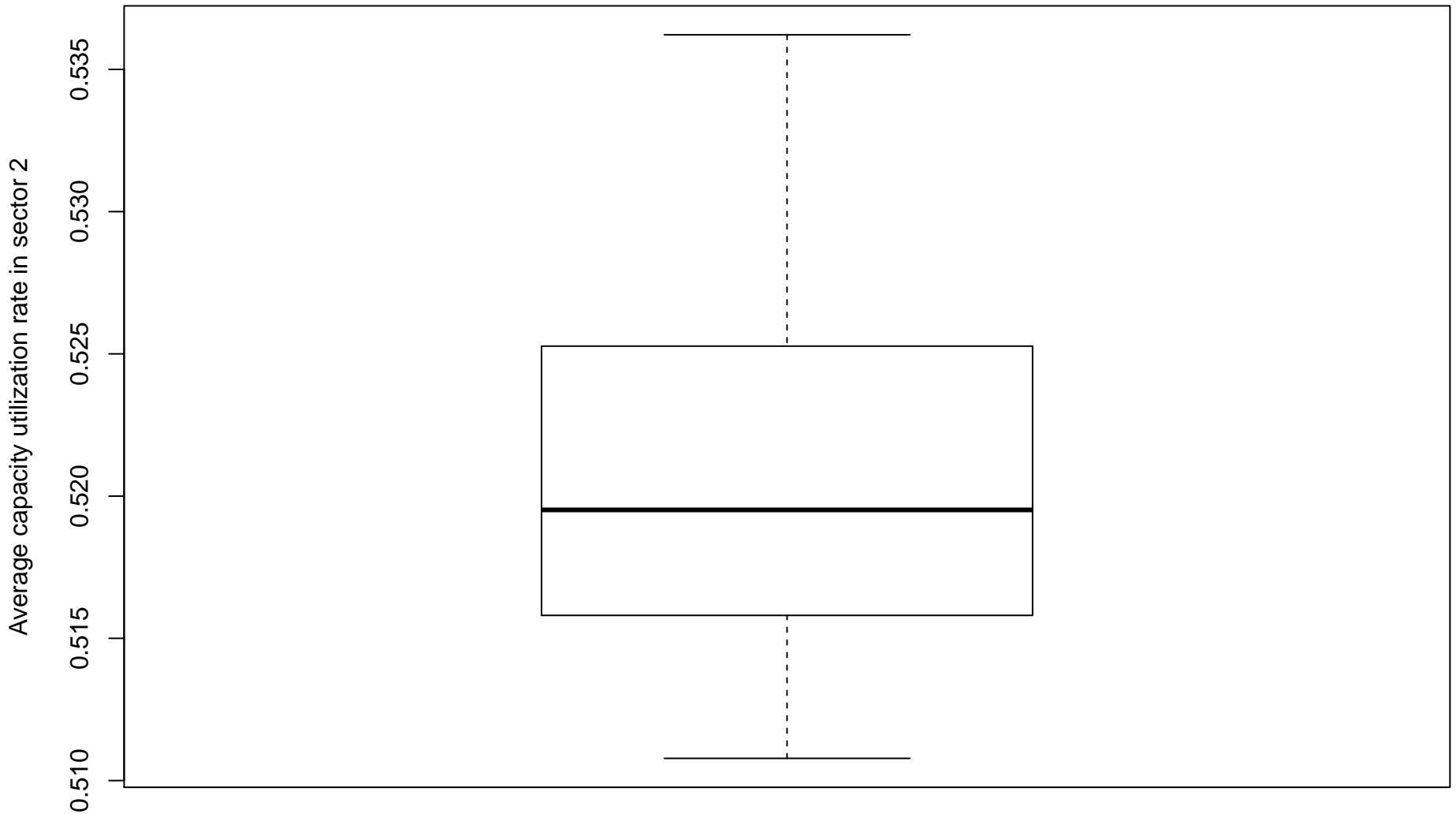
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Loans



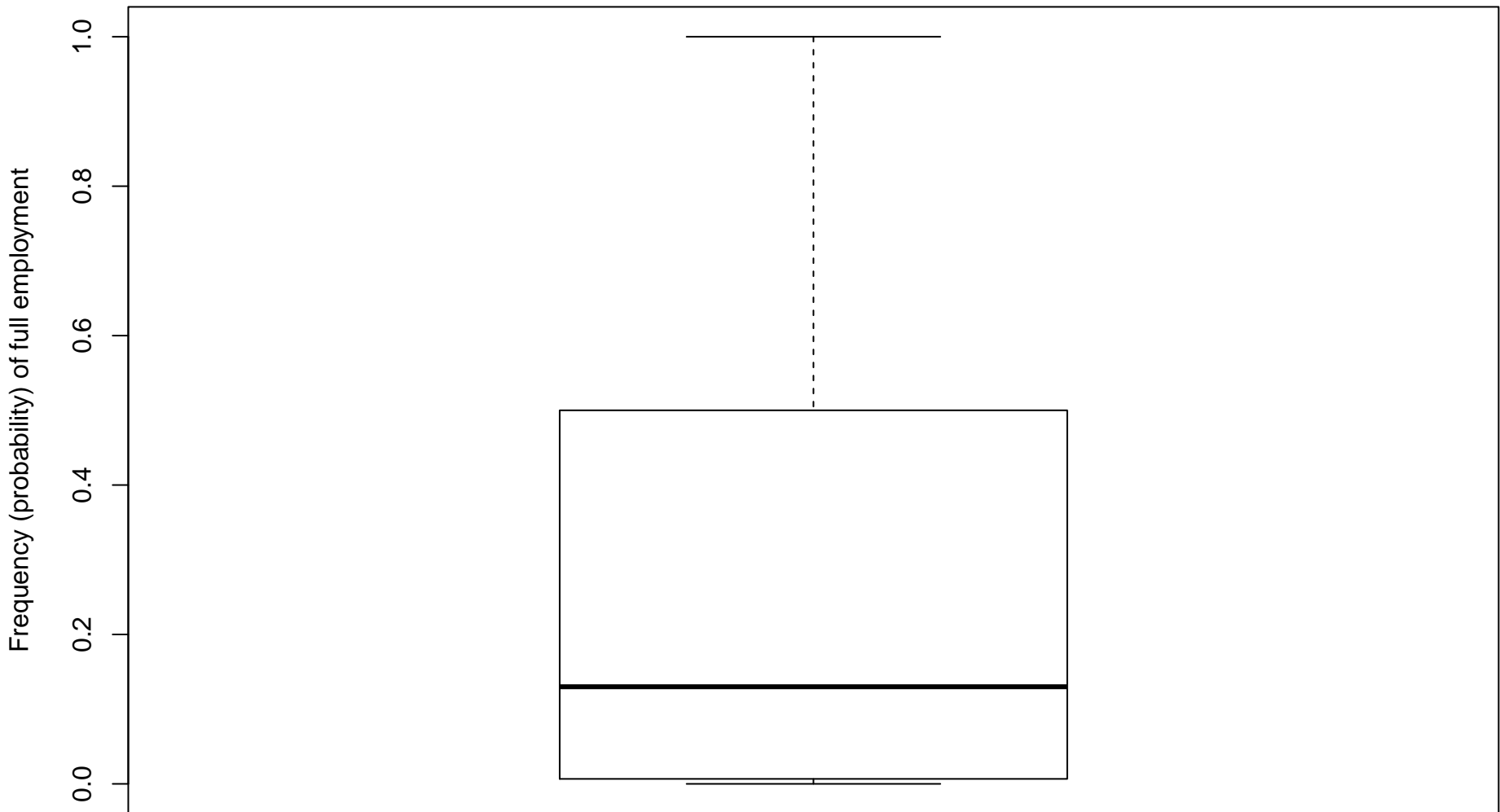
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Capacity utilization



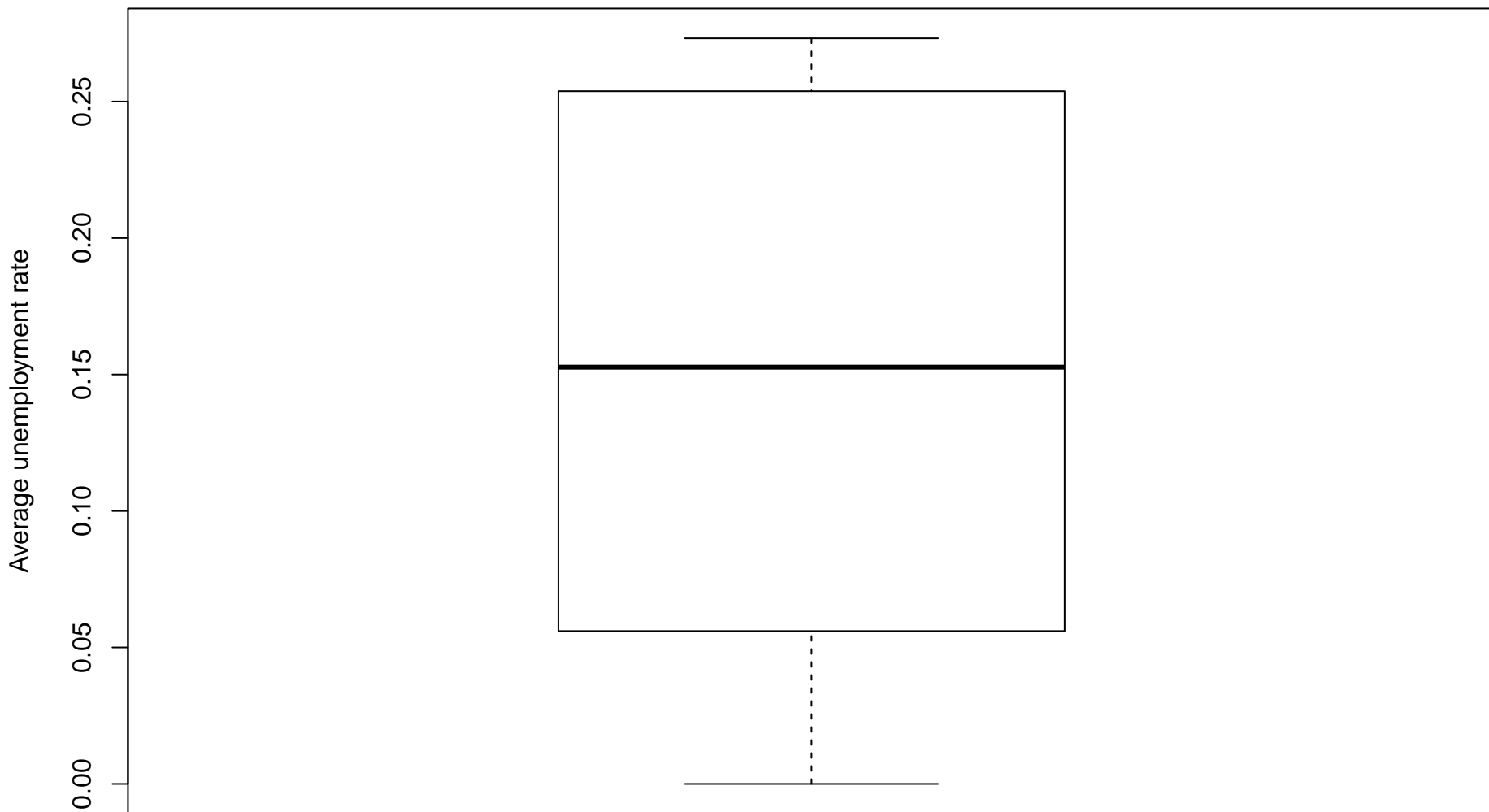
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Full employment frequency



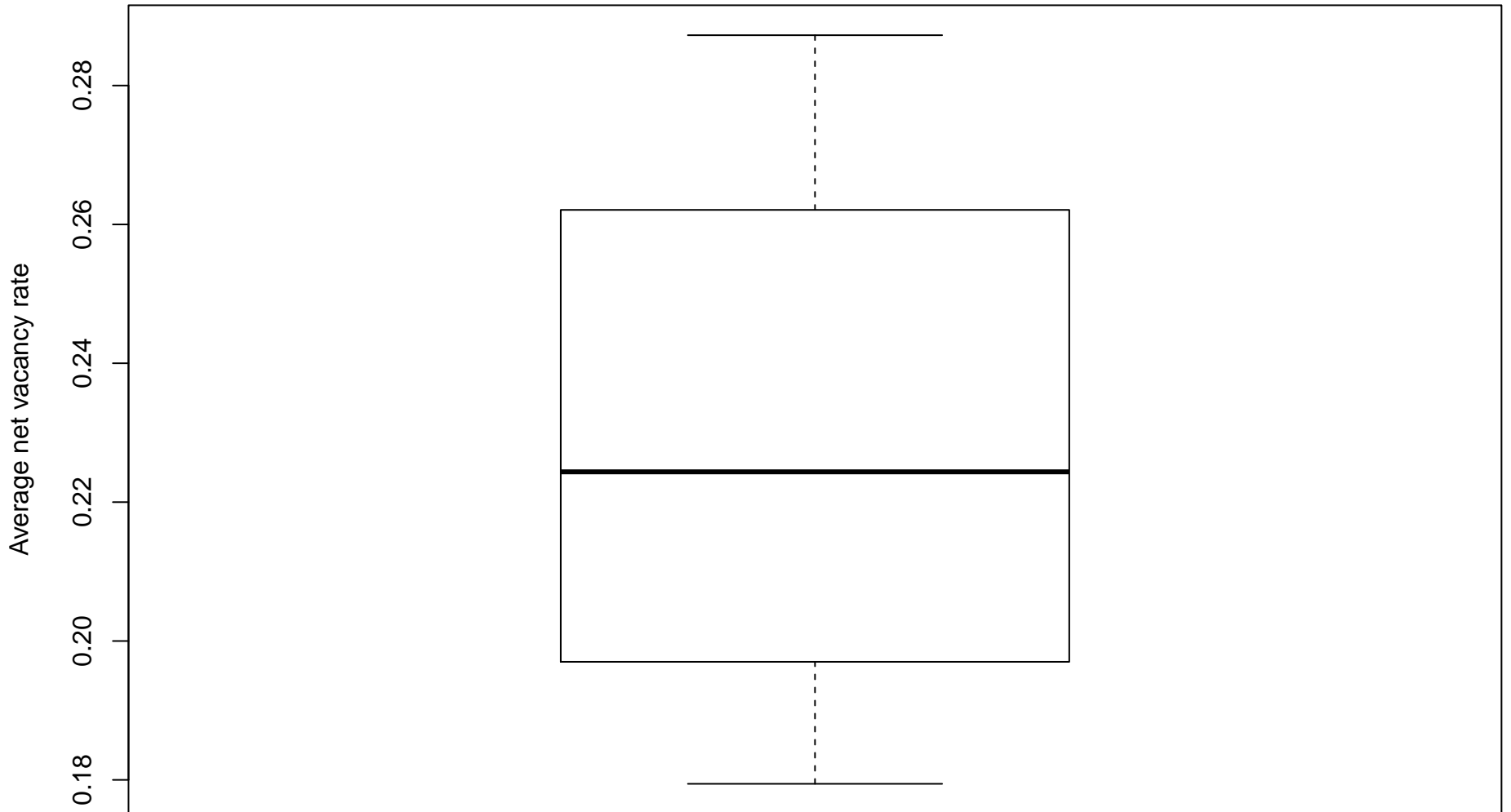
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Unemployment



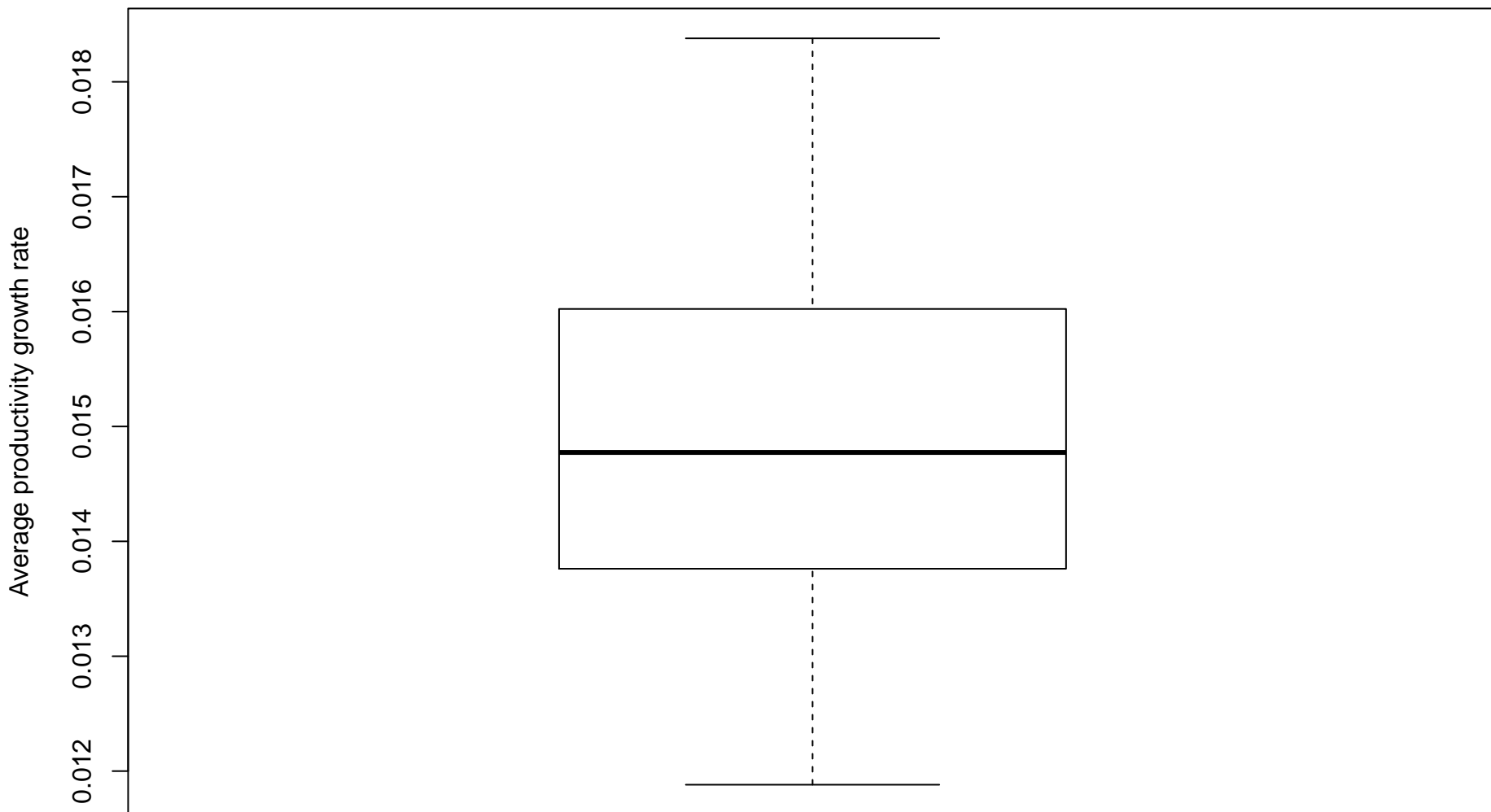
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Vacancy



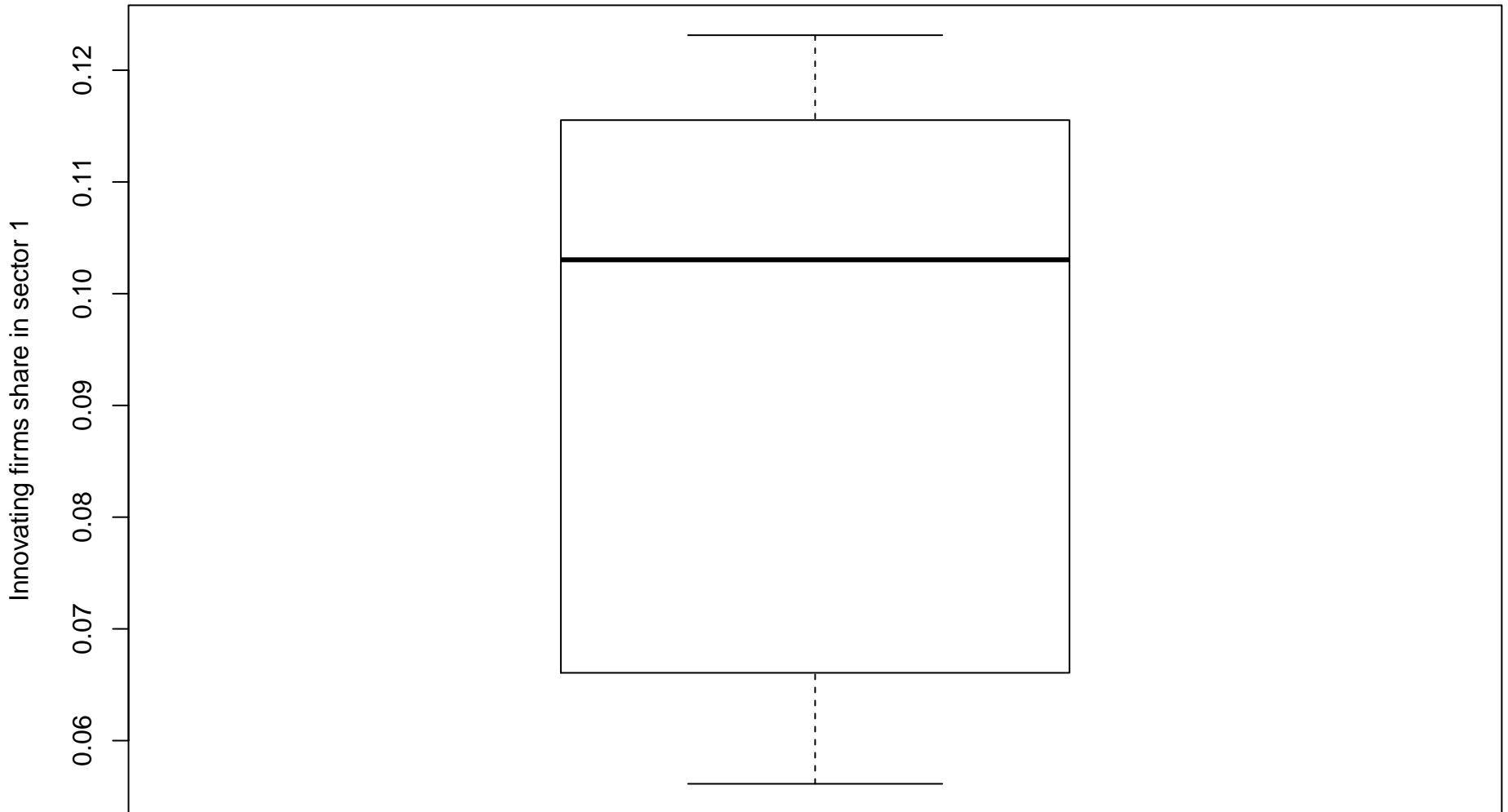
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Productivity growth



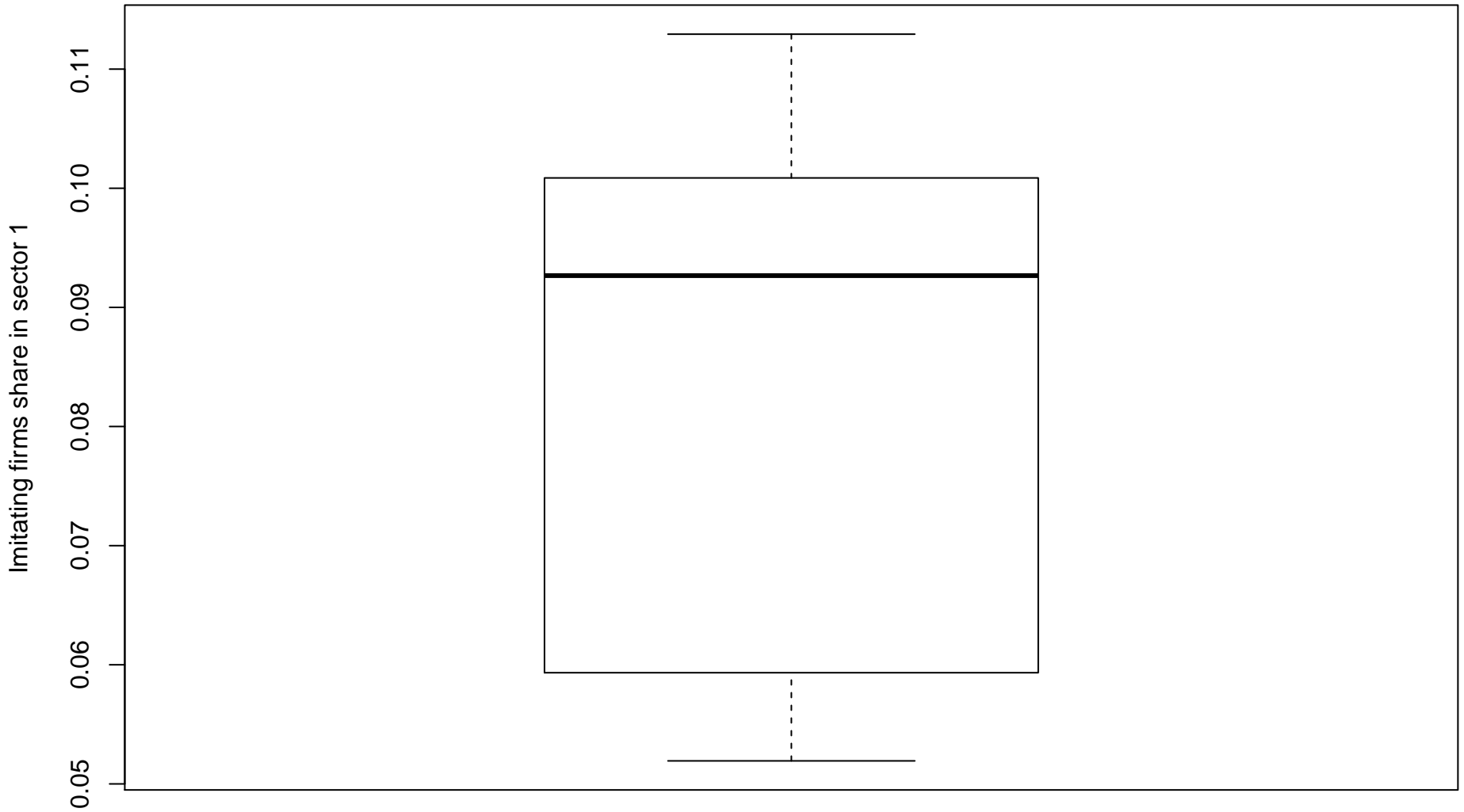
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Innovation



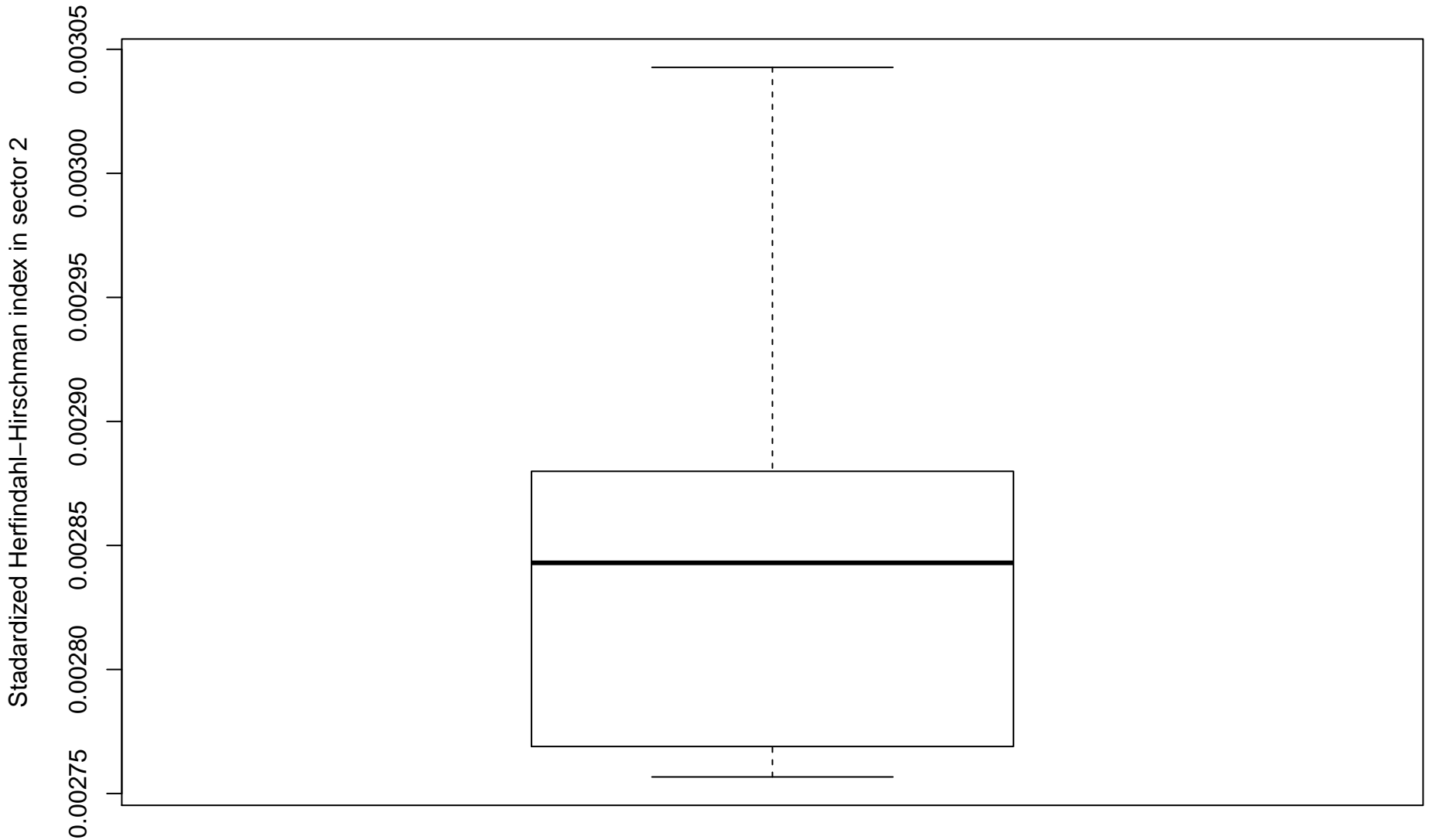
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Imitation



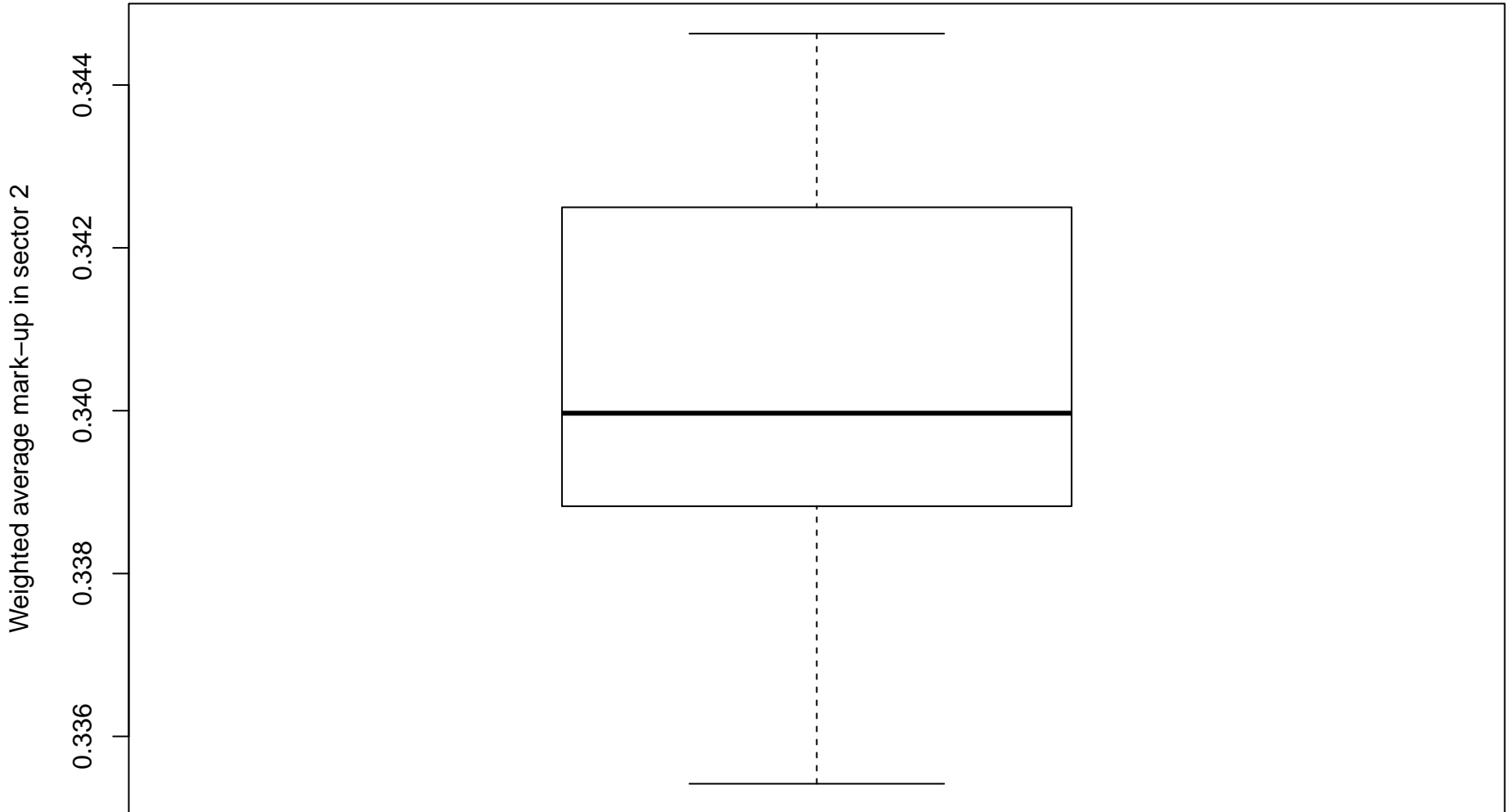
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Market concentration



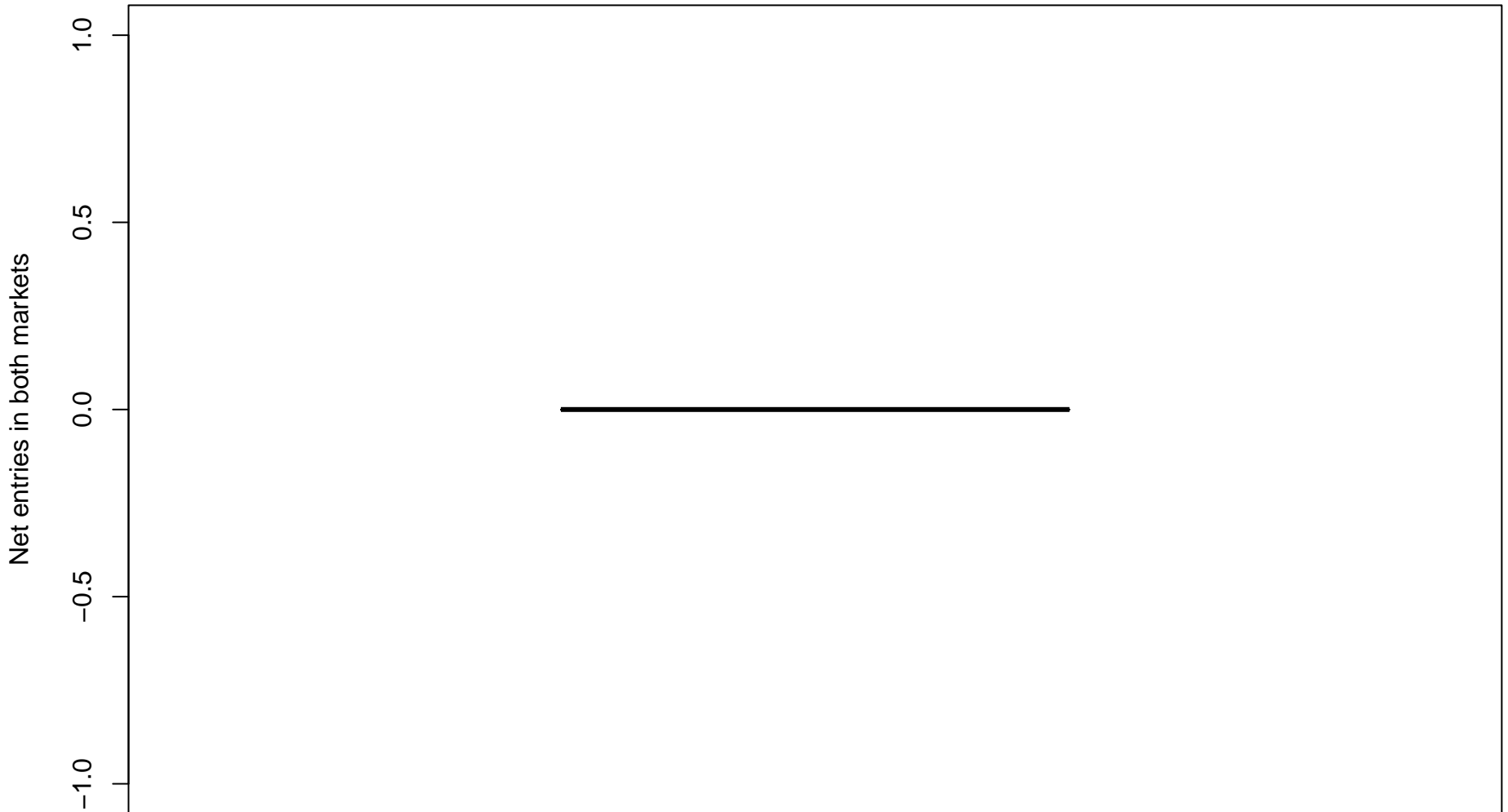
(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Mark-ups



(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Net entry of firms



(bar: median / box: 2nd–3rd quartile / whiskers: max–min / points: outliers / MC runs = 10 / period = 301 – 600)

Monte Carlo descriptive statistics (all experiments)

	Avg[1]	SD[1]	Min[1]	Max[1]
GDP growth	0.01487	0.001769	0.01151	0.01828
Volatility of GDP growth	0.08481	0.01517	0.04599	0.1024
Likelihood of GDP crises	0.245	0.06875	0.08	0.32
Inflation	0.001472	0.0009566	0.0001205	0.003046
Tax	0.02695	0.004923	0.02295	0.04031
Government total expenditure	0.06439	0.04435	2.662e-06	0.1188
Government deficit	0.1772	0.09063	0.0009182	0.3239
Government debt	11.26	5.835	1.025	22.01
Credit supply	-1.153e-09	7.117e-10	-2.567e-09	-3.872e-10
Loans	2.82	4.704	0.9024	16.16
Capacity utilization	0.5066	0.0486	0.3697	0.5362
Full employment frequency	0.257	0.3381	0	1
Unemployment	0.1542	0.1006	0	0.2732
Vacancy	0.2964	0.239	0.1794	0.9698
Productivity growth	0.01485	0.001777	0.01188	0.01838
Innovation	0.09577	0.02497	0.05613	0.1231
Imitation	0.08623	0.02274	0.05193	0.1129
Market concentration	0.002704	0.0005198	0.001246	0.003043
Mark-ups	0.3417	0.00612	0.3354	0.3576
Net entry of firms	0	0	0	0

Experiments: [1] Free entry

(numbers in brackets indicate the experiment number / MC runs = 10 / period = 301 – 600)