Auto-generated report from BCEAweb

Version: 19 September, 2017

Distributional assumptions

This sections presents graphical and tabular summaries to check the distributional assumptions used for the $n = 27$ parameters included in the economic model. For each parameter, a histogram of the distribution is presented together with a summary table, reporting some relevant statistics.

In addition, we also report some 'convergence' diagnostics plots. The leftmost graph shows a *traceplot* of the monitored Markov Chains, while the rightmost graph shows an *autocorrelation* plot.

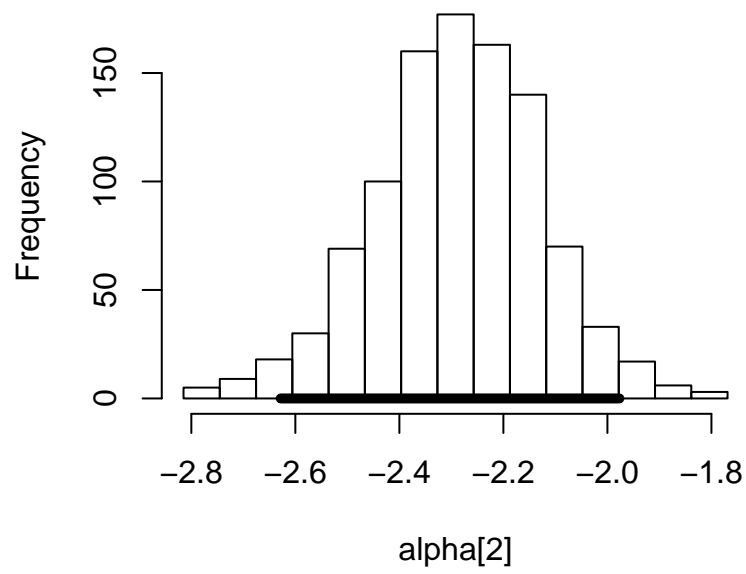### Summary statistics for parameter alpha[1]
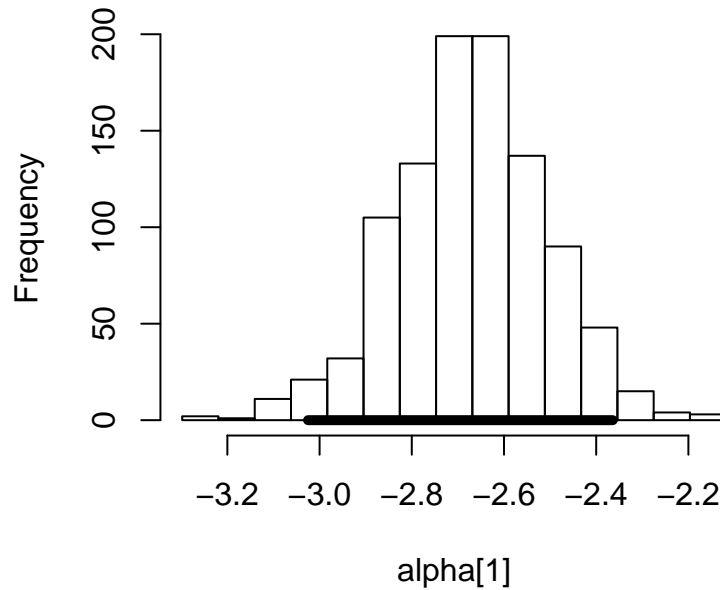
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.67283	0.1627032	-3.025025	-2.671	-2.364	1.003065	960	0.0052512

Diagnostic plots
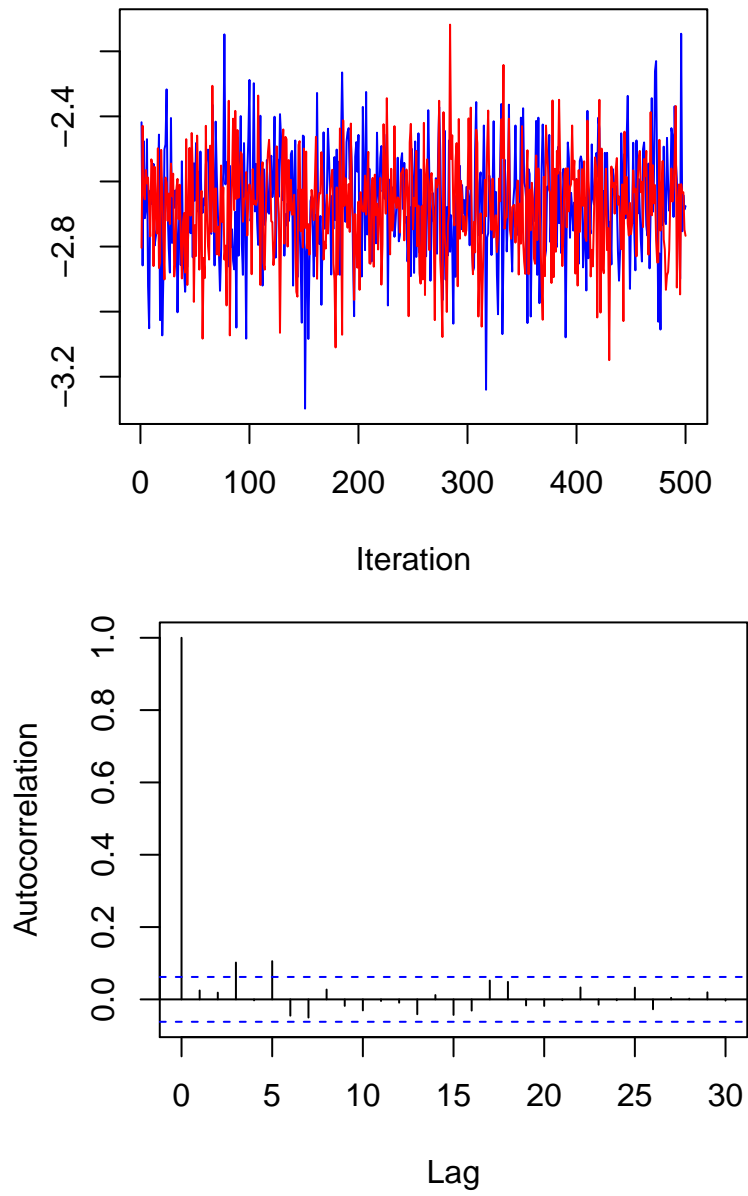
Summary statistics for parameter alpha[2]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.288022	0.1604145	-2.628125	-2.285	-1.976975	1.000935	1000	0.0050728

Diagnostic plots
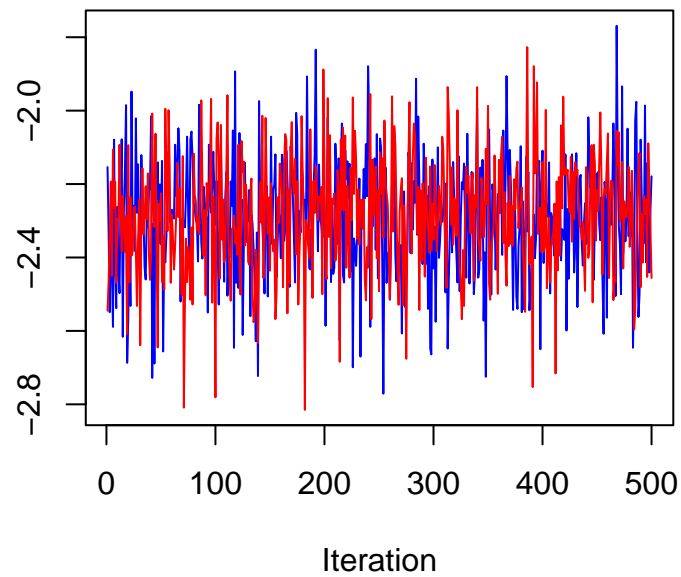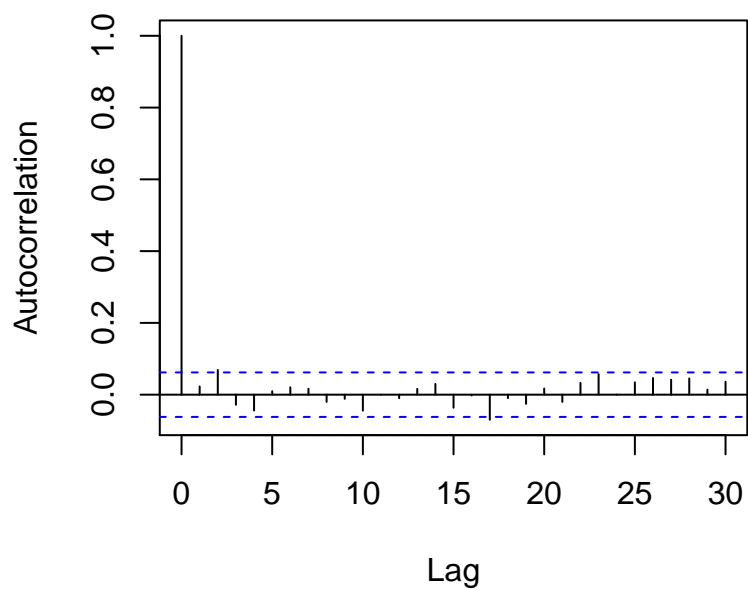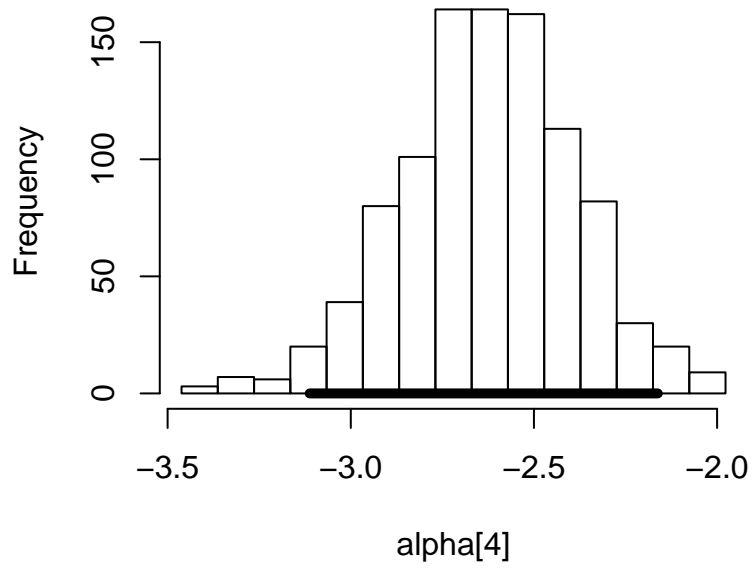
Summary statistics for parameter alpha[3]
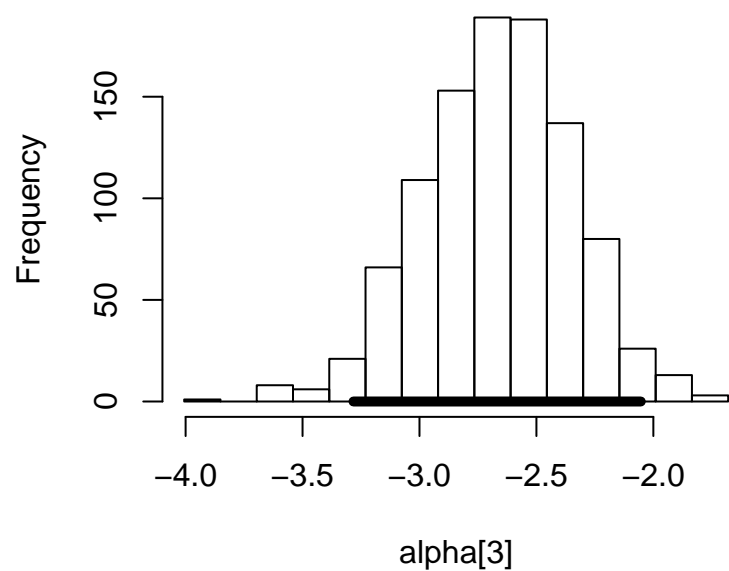
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.662397	0.3181832	-3.282075	-2.6475	-2.053925	1.000235	1000	0.0100618

Diagnostic plots
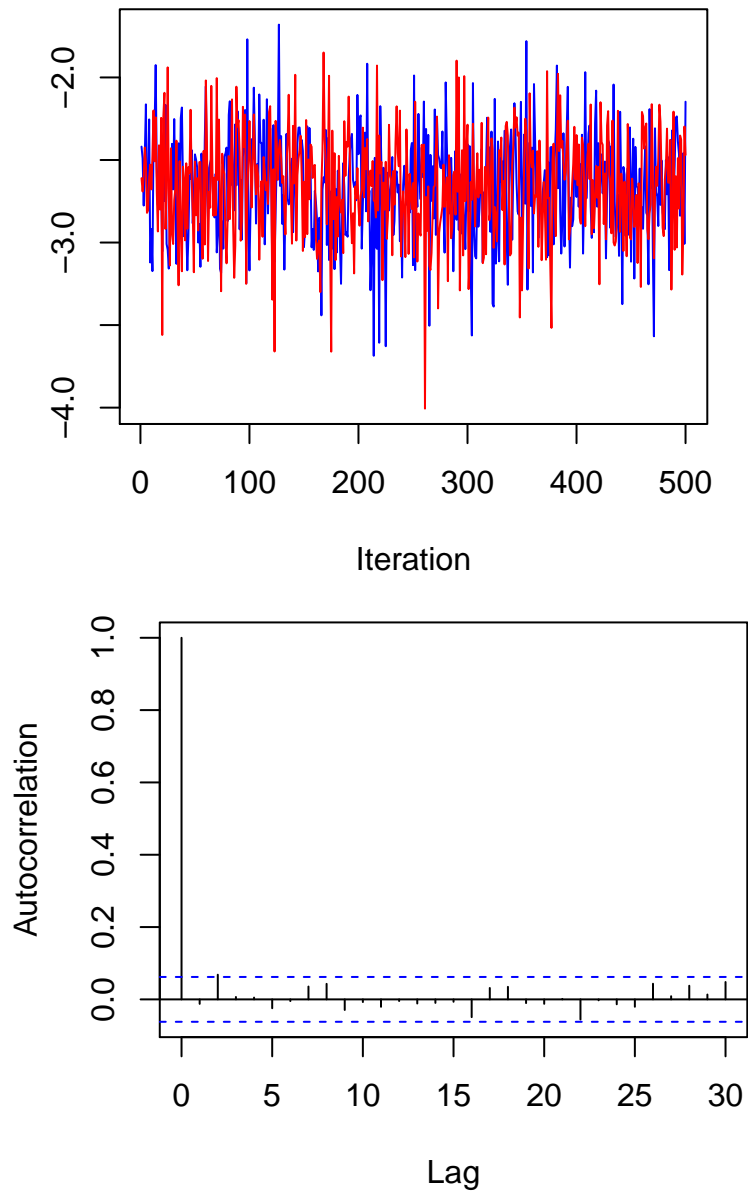
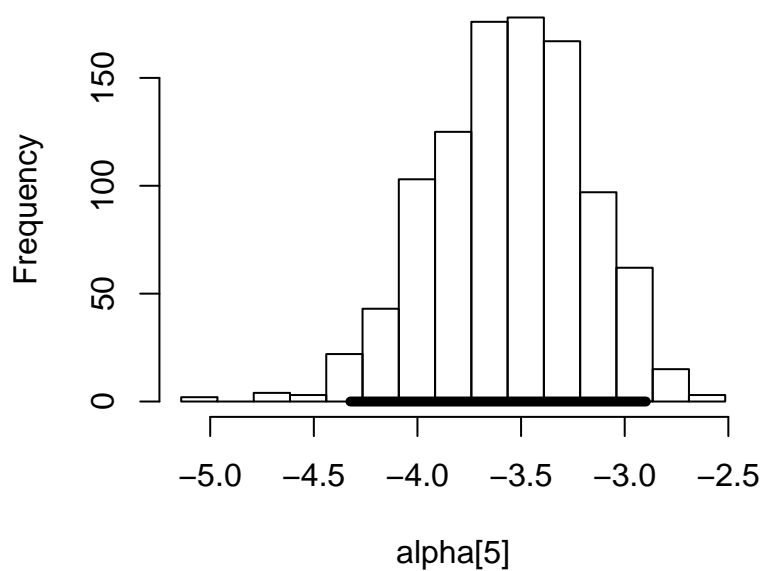# Summary statistics for parameter alpha[4]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.625536	0.2369532	-3.112125	-2.615	-2.161875	1.001756	1000	0.0074931

Diagnostic plots
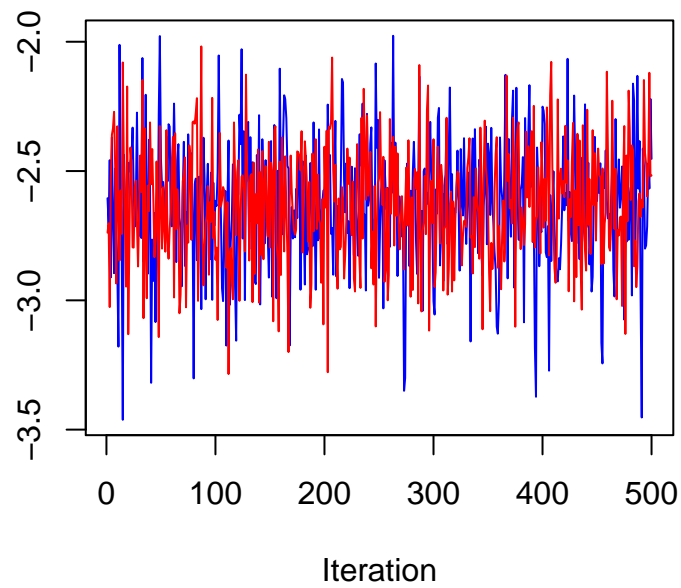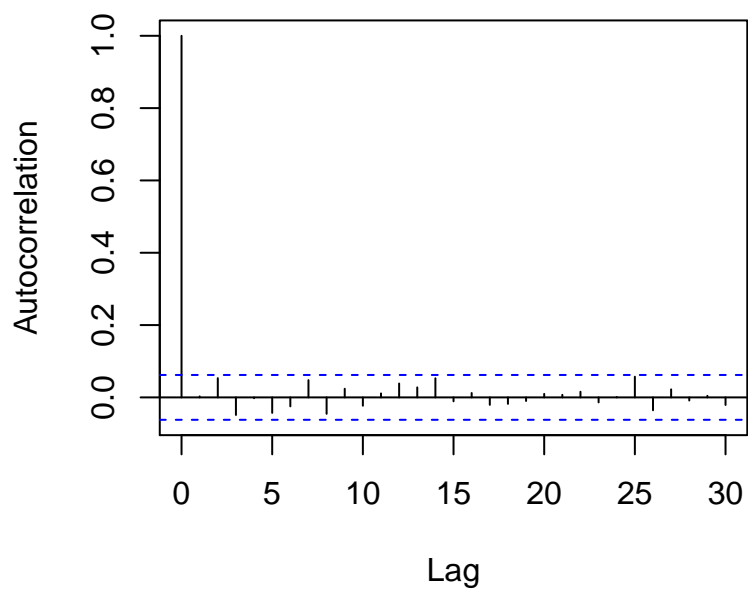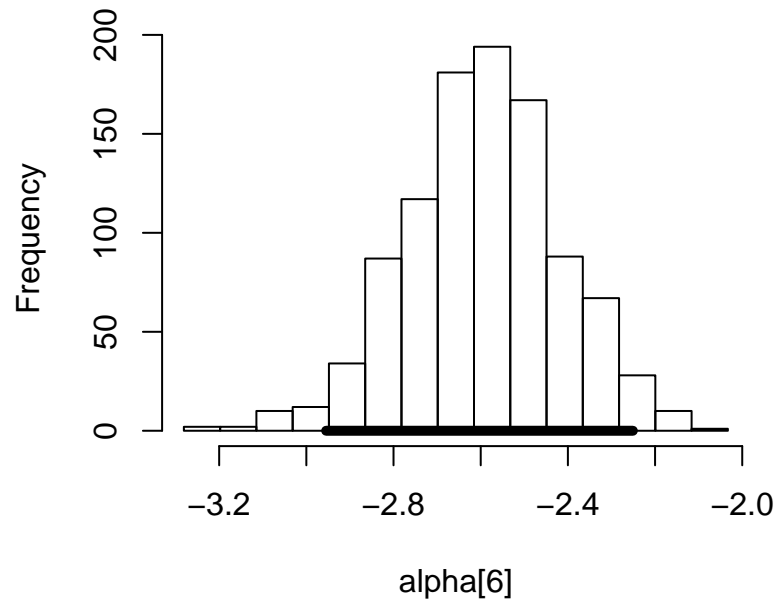
Summary statistics for parameter alpha[5]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-3.557197	0.3712443	-4.32335	-3.5445	-2.897925	1.000142	1000	0.0117398

Diagnostic plots
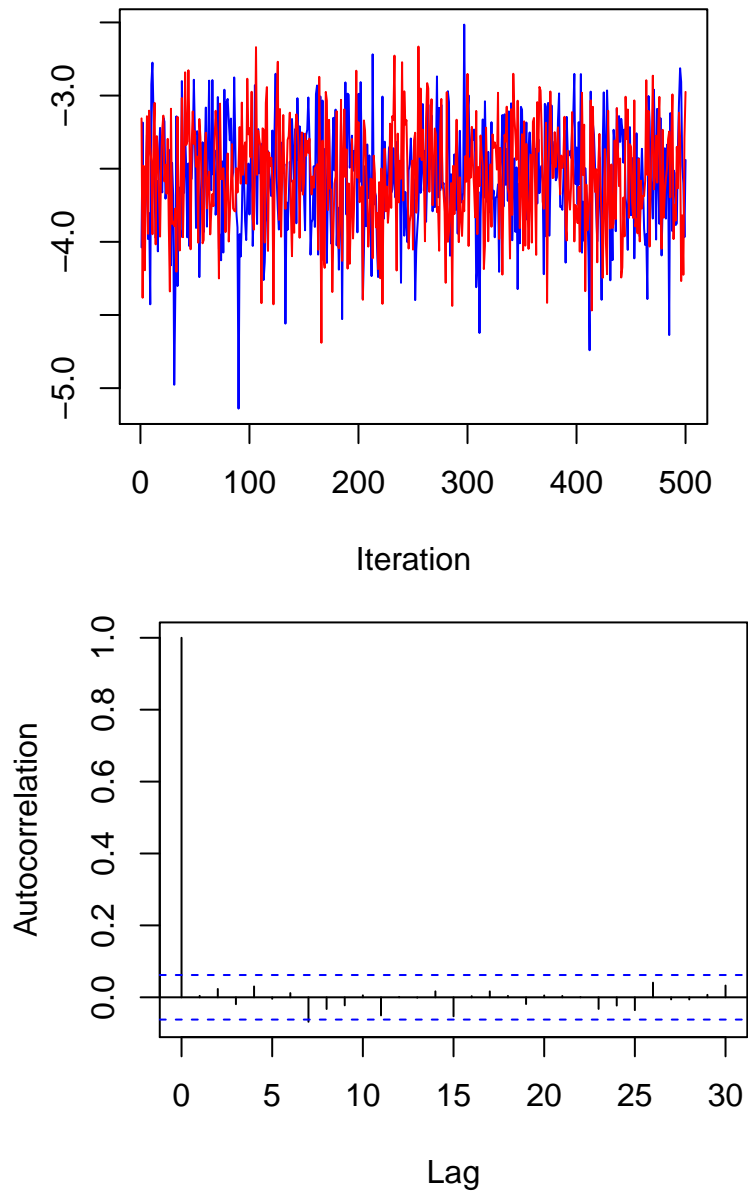
Summary statistics for parameter alpha[6]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.59594	0.1795615	-2.95455	-2.5945	-2.25095	1.000599	1000	0.0056782

Diagnostic plots
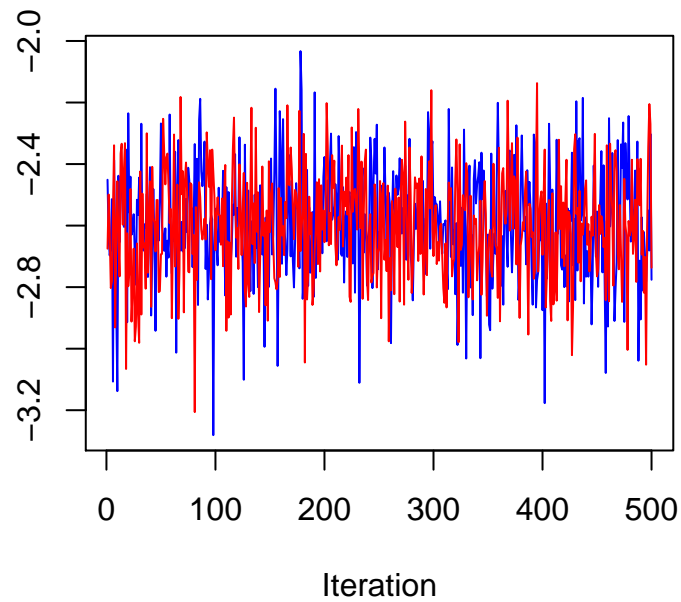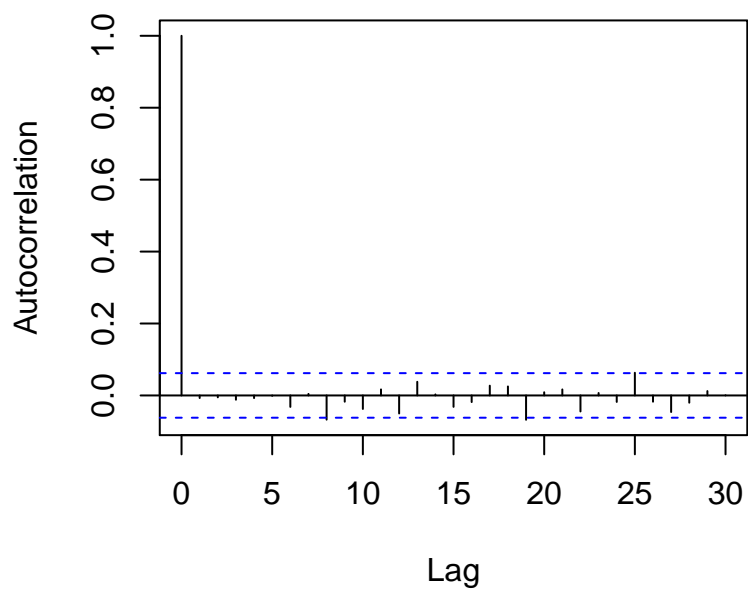
Summary statistics for parameter c.inf
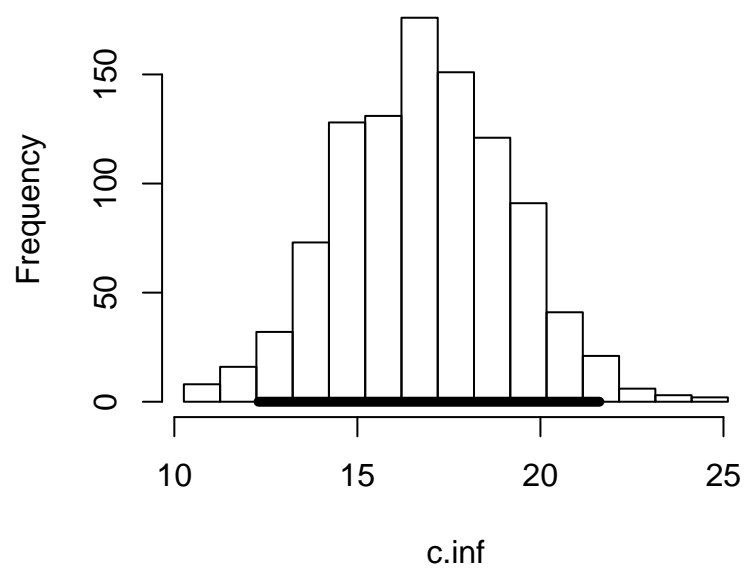
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
16.84281	2.341014	12.29975	16.83	21.61	1.001989	750	0.0854818

Diagnostic plots
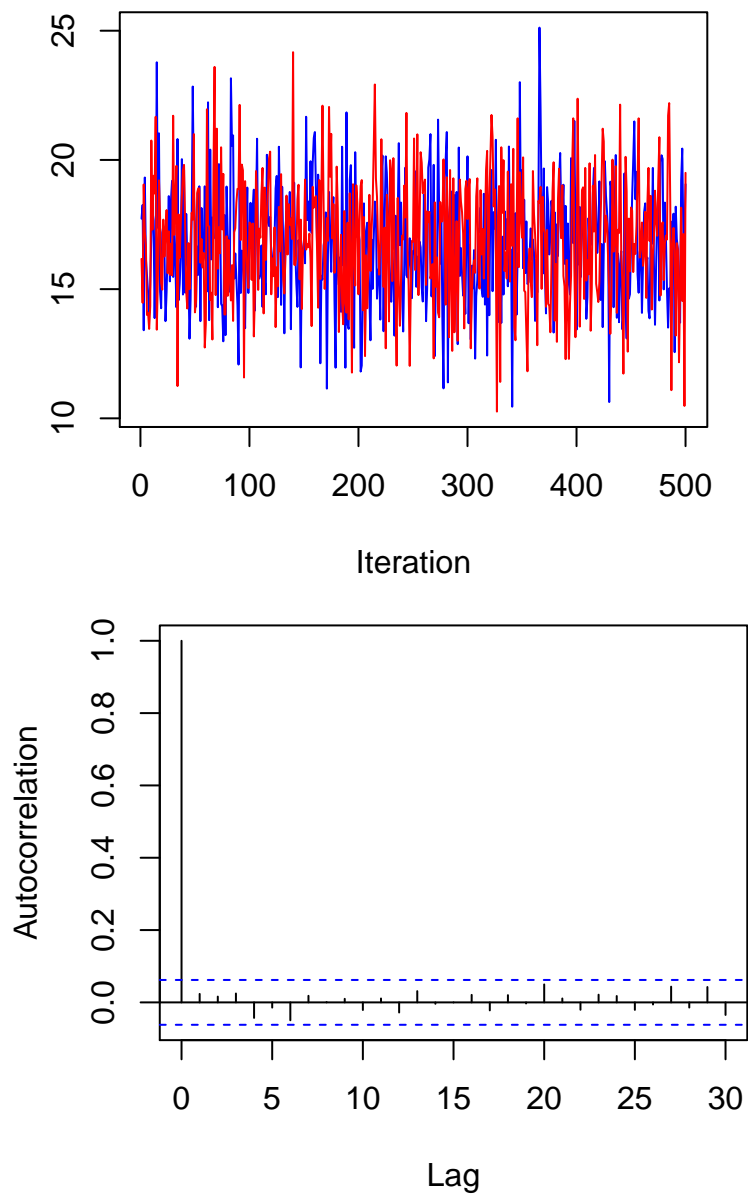
Summary statistics for parameter delta[1]
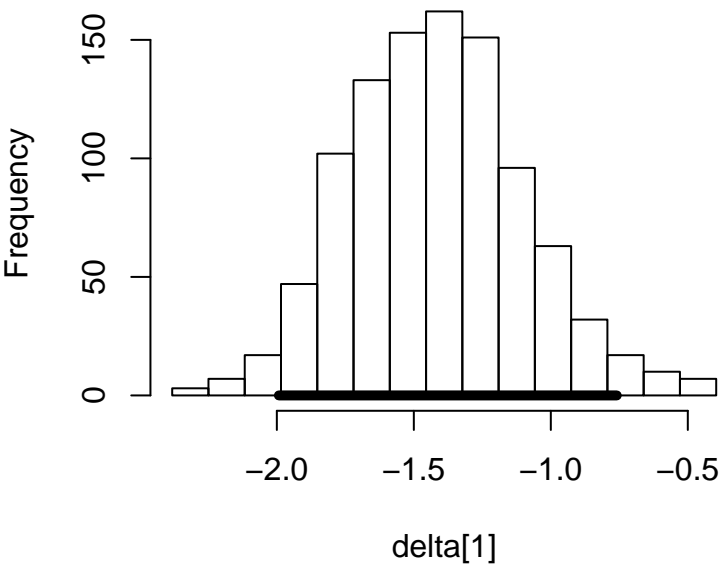
delta[1]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-1.415531	0.3185276	-1.992425	-1.428	-0.75938	1.000722	1000	0.0100727

Diagnostic plots

Iteration
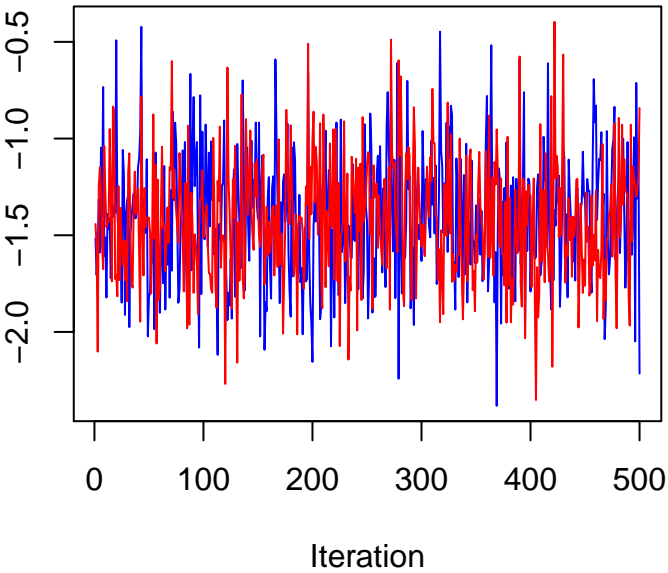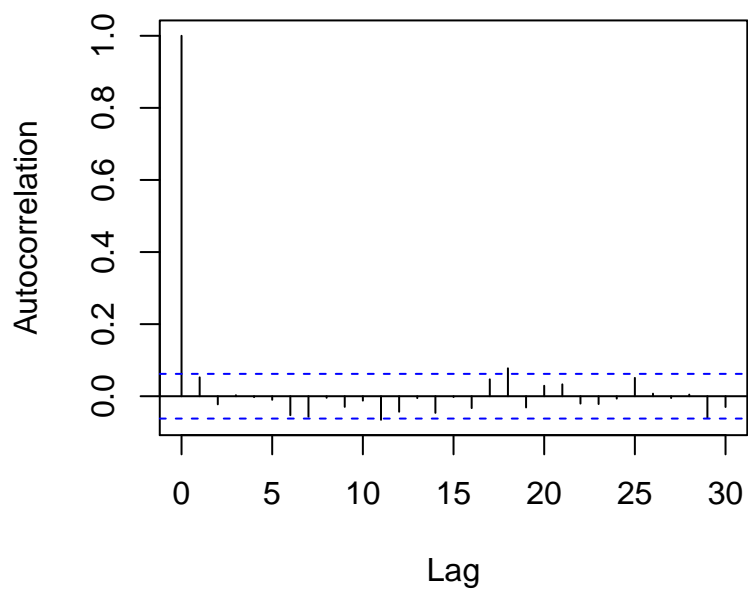
Summary statistics for parameter delta[2]
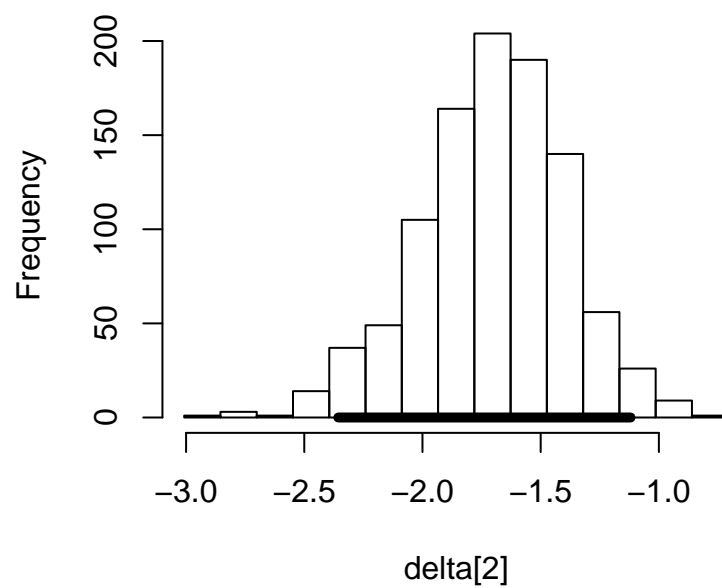
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-1.703617	0.3098766	-2.356075	-1.683	-1.1199	1.00304	1000	0.0097992

Diagnostic plots
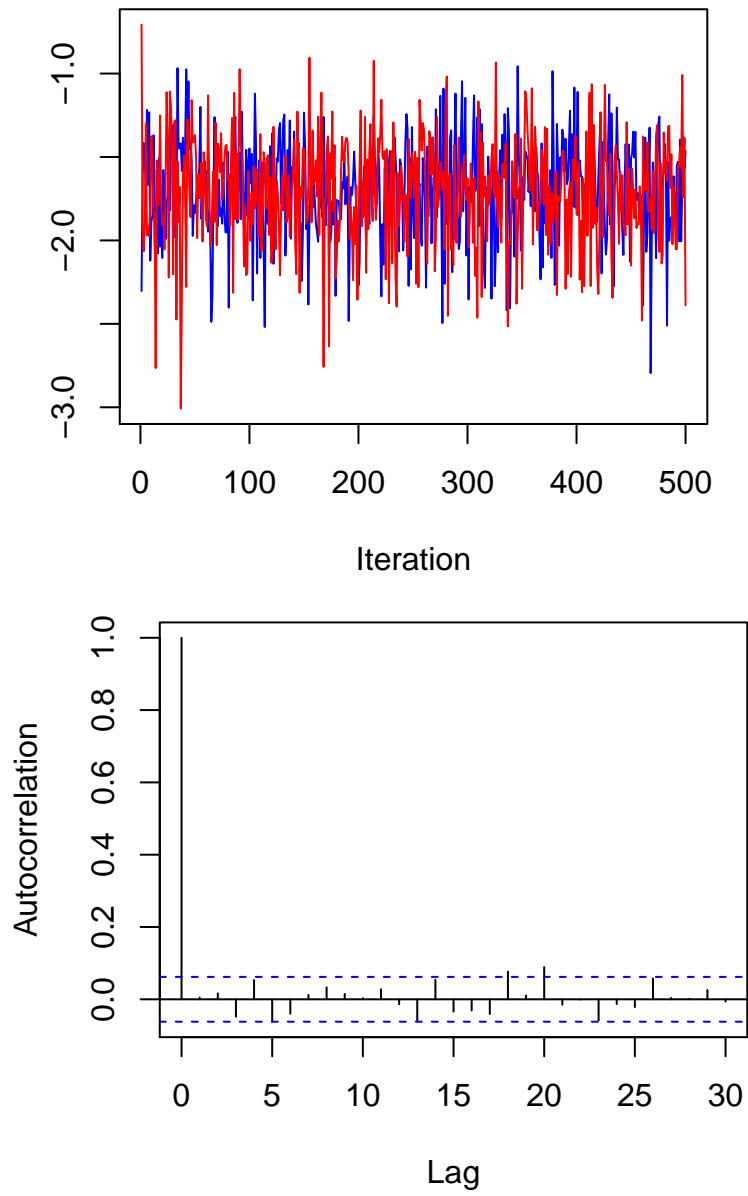
Summary statistics for parameter delta[3]
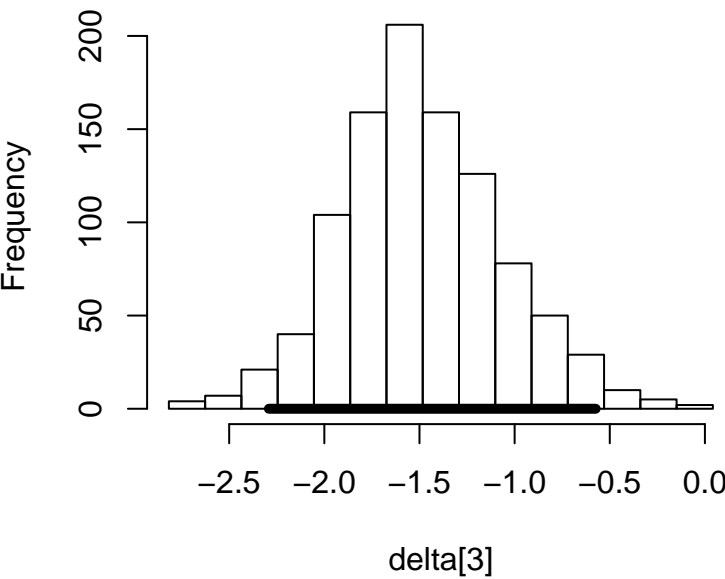
delta[3]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-1.488391	0.4229229	-2.291175	-1.524	-0.5741675	1.00015	1000	0.013374

Diagnostic plots

Iteration
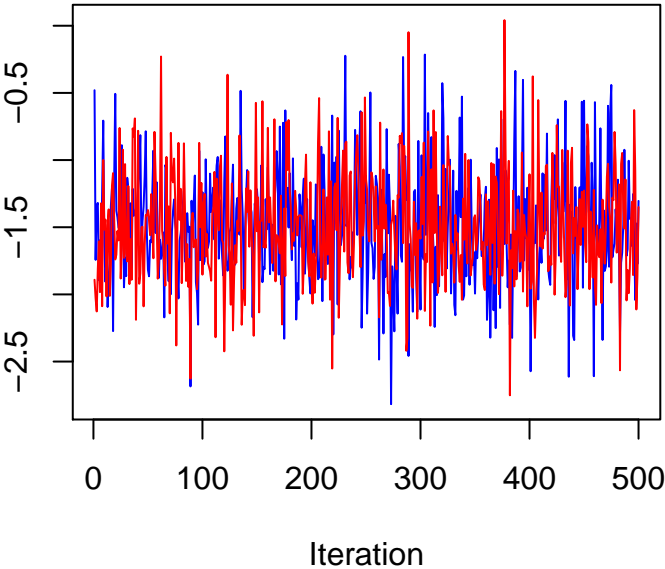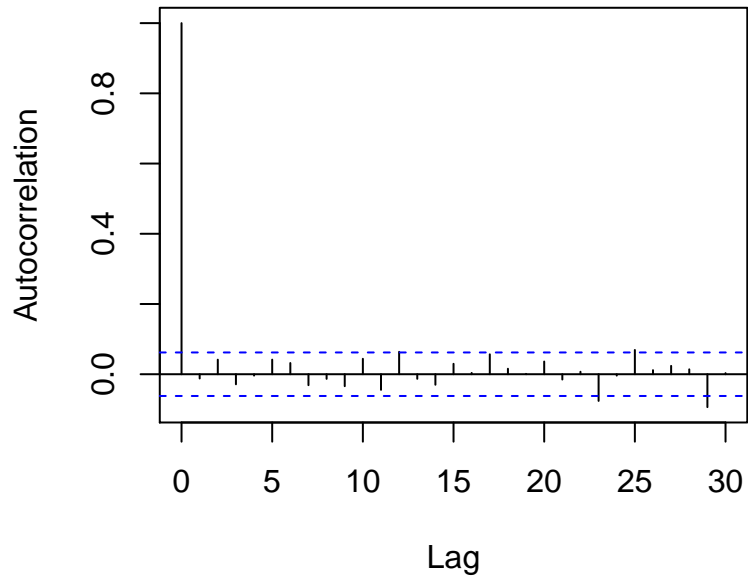
Summary statistics for parameter delta[4]
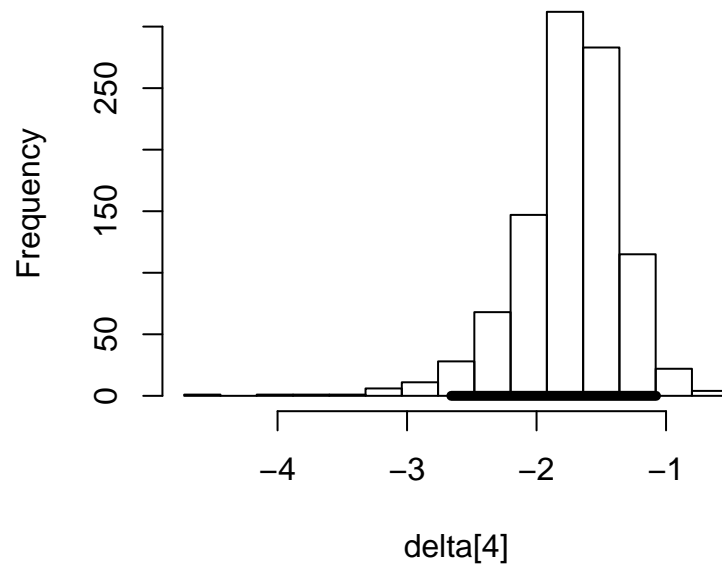
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-1.745653	0.4137866	-2.6579	-1.715	-1.077575	1.000011	1000	0.0130851

Diagnostic plots
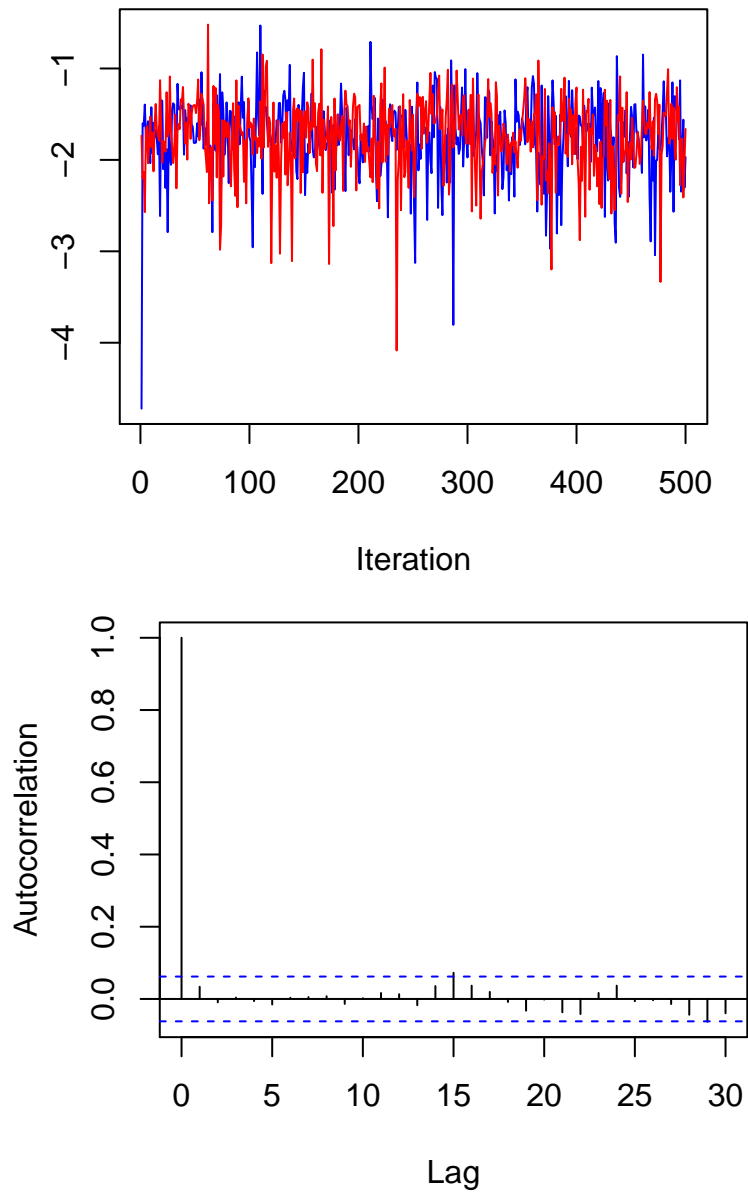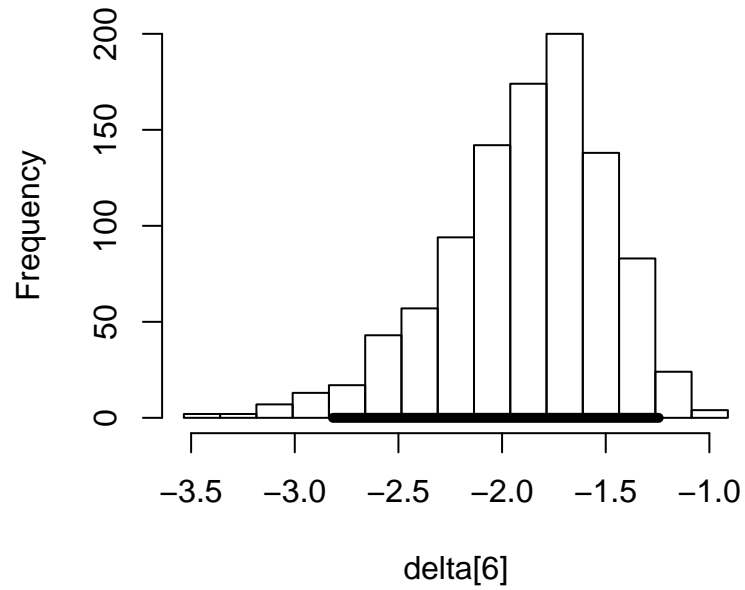
Summary statistics for parameter delta[5]
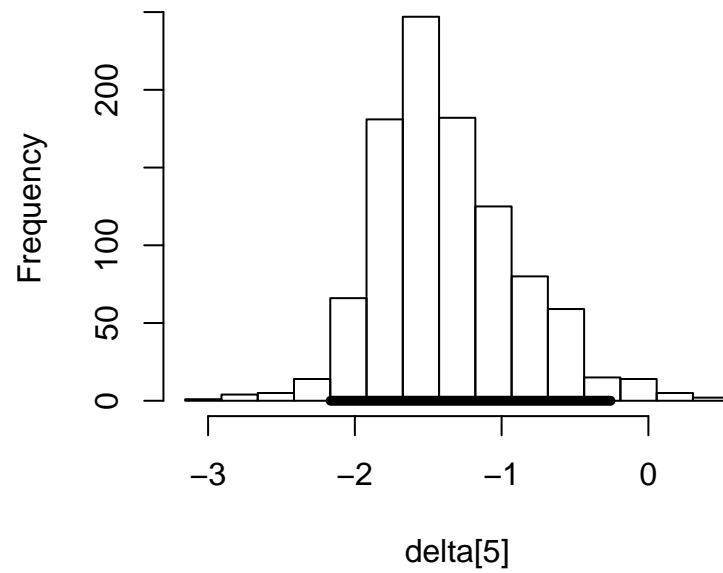
delta[5]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-1.376288	0.4799293	-2.165	-1.4485	-0.25817	1.003087	650	0.0188244

Diagnostic plots

Iteration
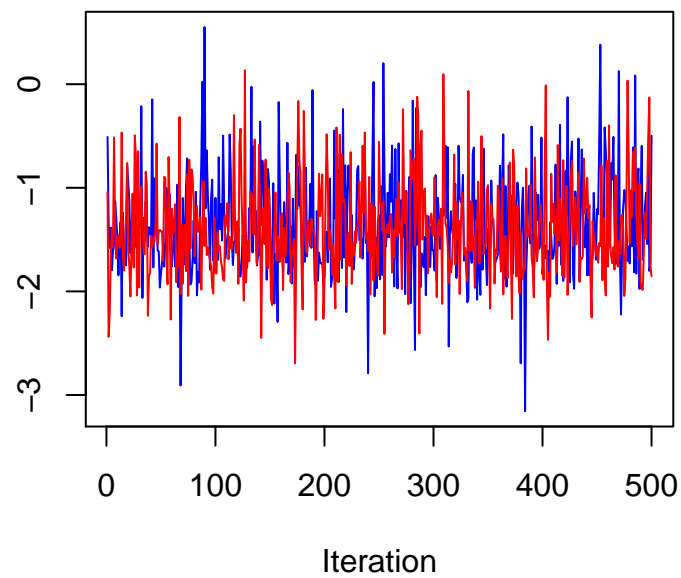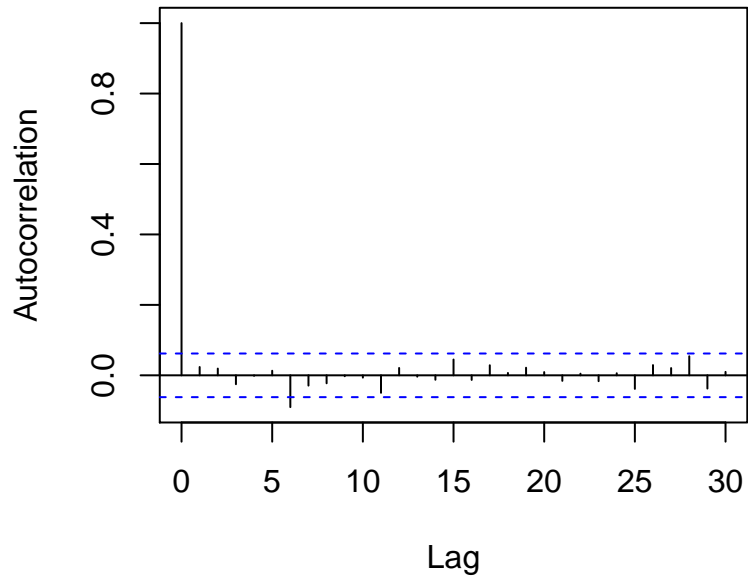
Summary statistics for parameter delta[6]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-1.886899	0.3990172	-2.816	-1.834	-1.244675	1.006611	1000	0.012618

Diagnostic plots
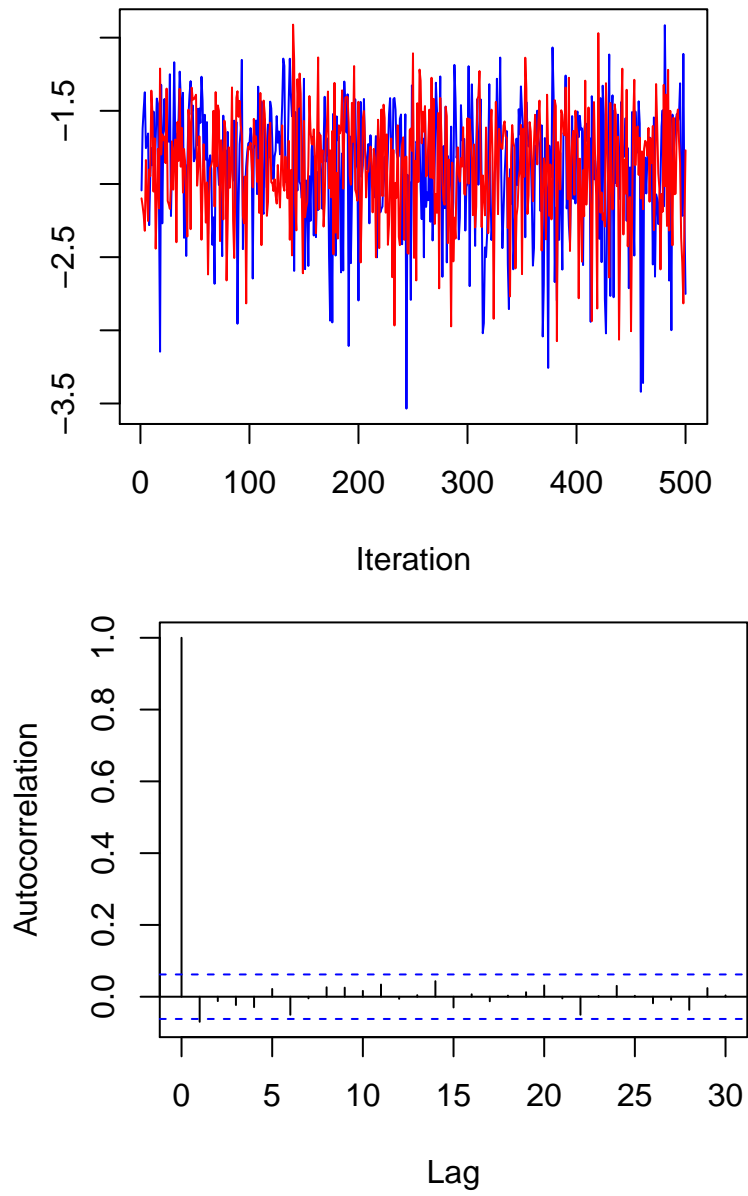
Summary statistics for parameter deviance
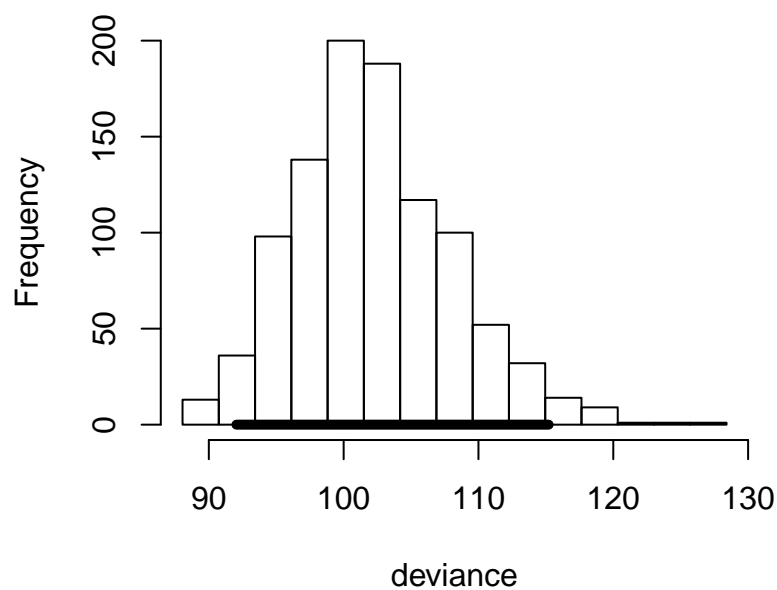
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
102.2337	5.890893	92.049	101.7	115.205	1.002102	710	0.2210813

Diagnostic plots
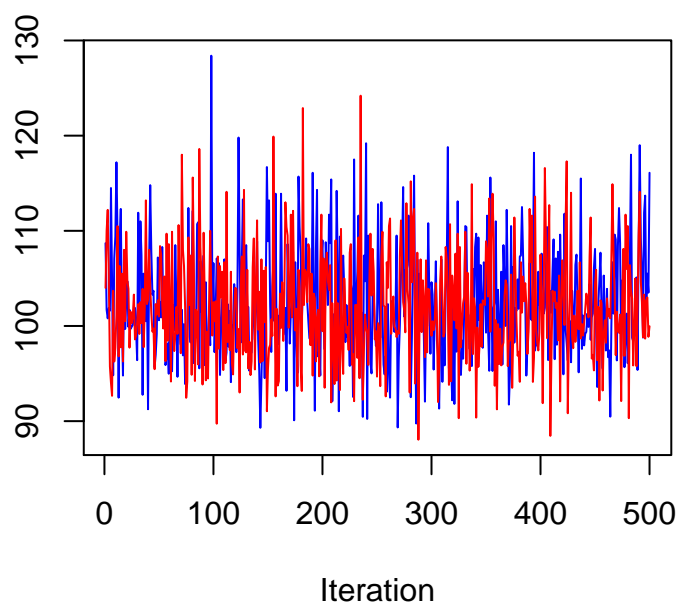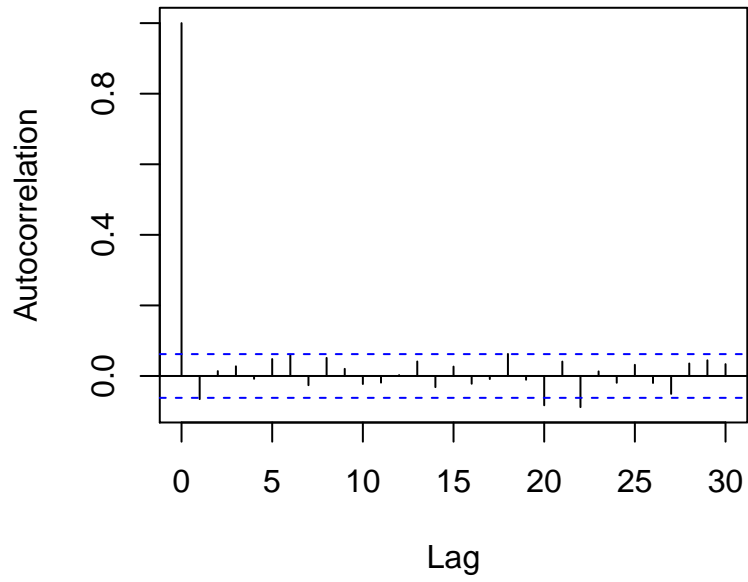
Summary statistics for parameter gamma[1]
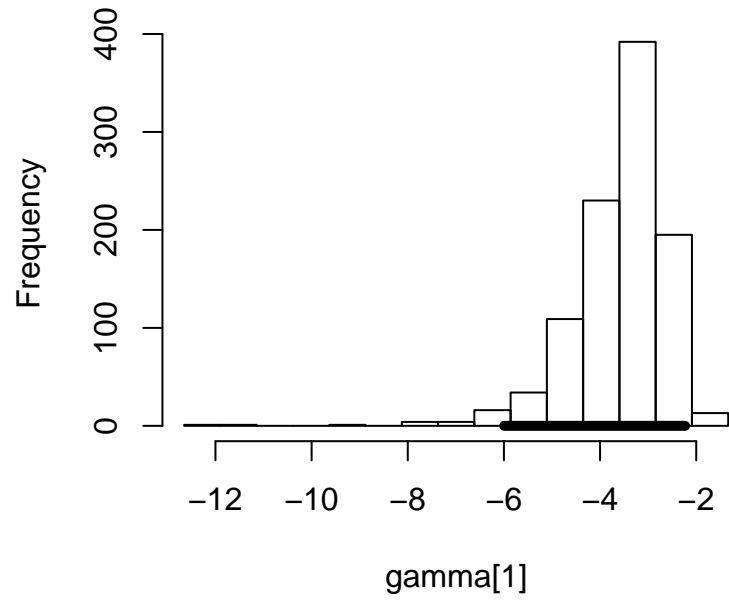
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-3.580069	1.008755	-5.9945	-3.3785	-2.2319	1.004251	460	0.0470334

Diagnostic plots

Iteration

Lag
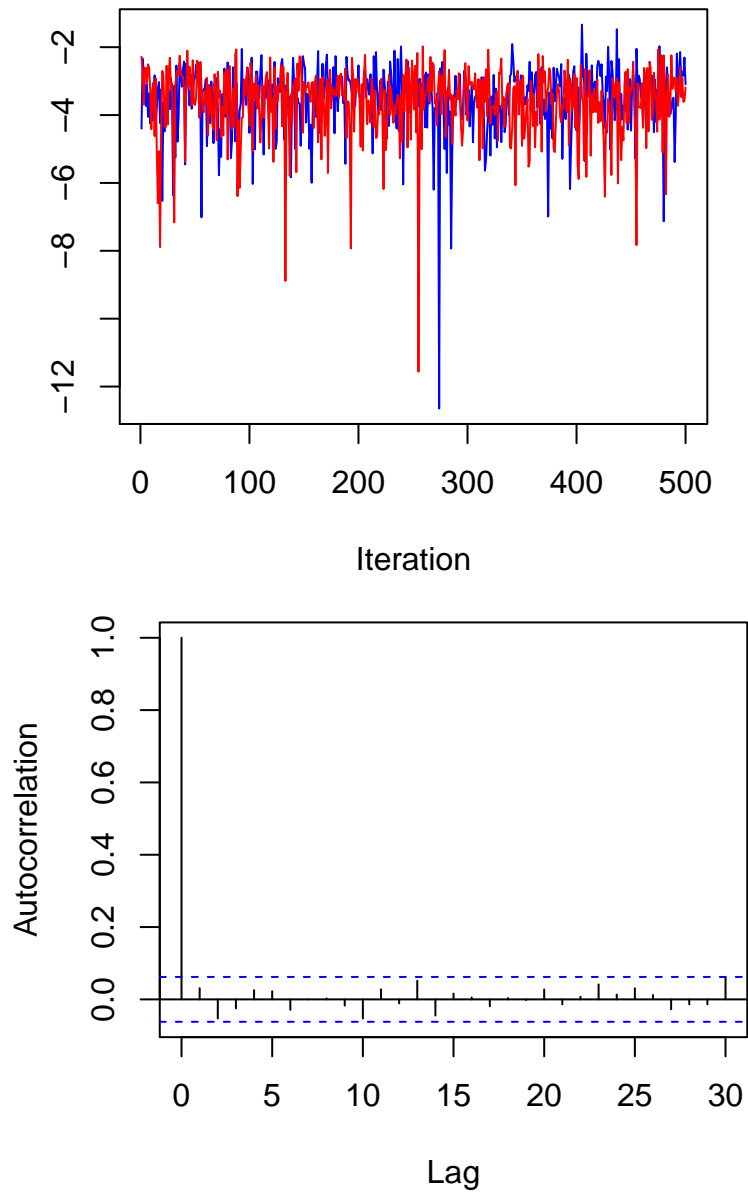
Summary statistics for parameter gamma[2]
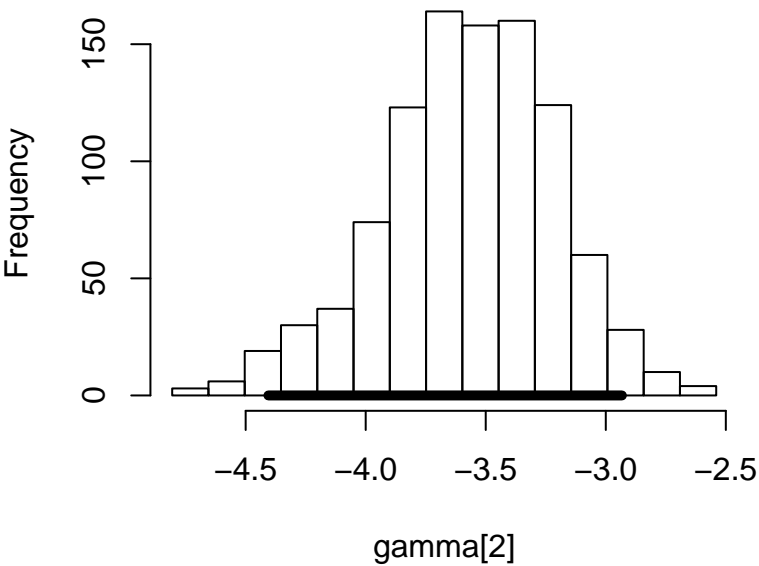
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-3.573042	0.3626194	-4.40515	-3.5565	-2.932975	1.006495	630	0.0144471

Diagnostic plots
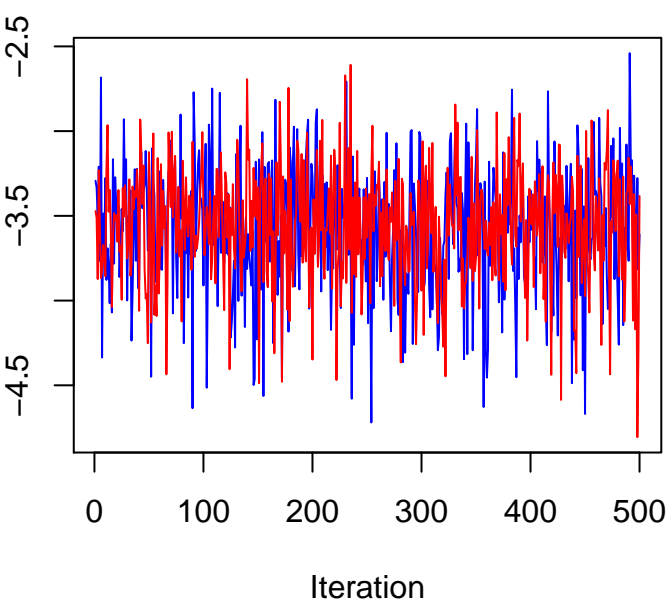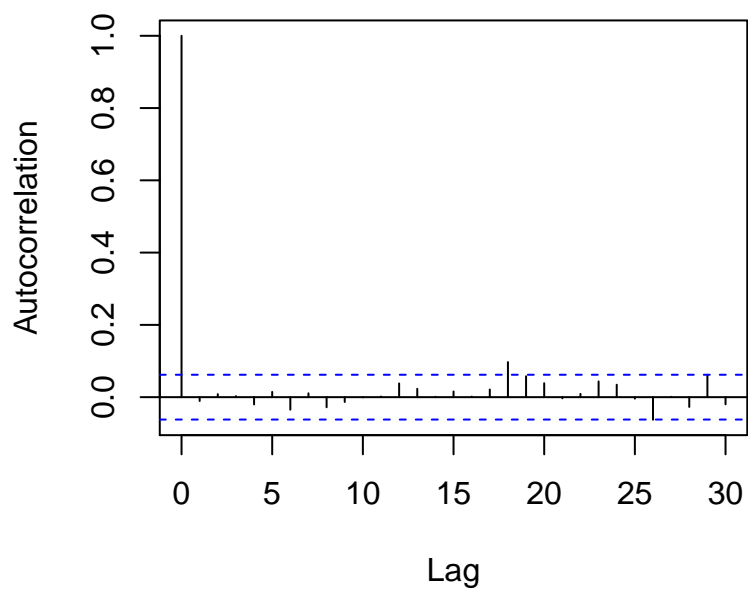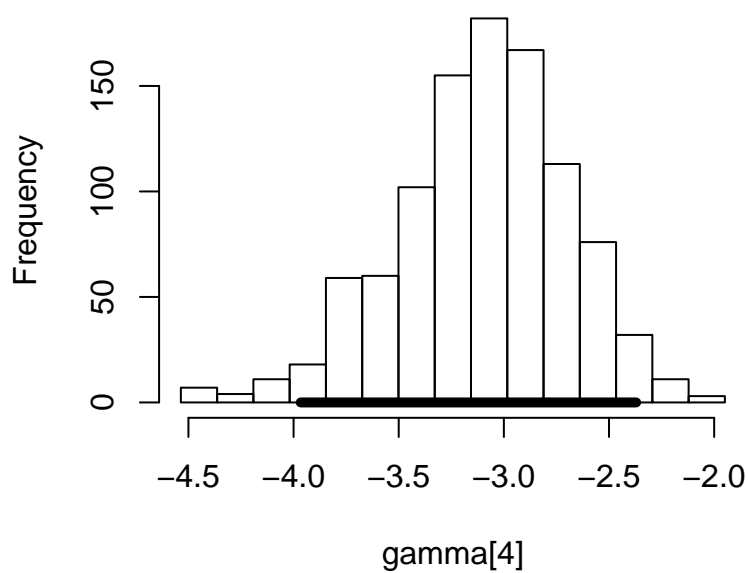
Summary statistics for parameter gamma[3]
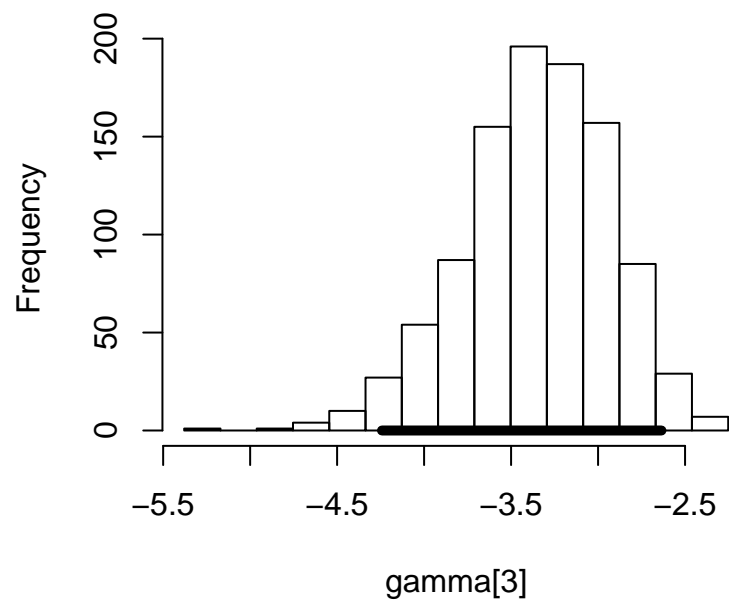
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-3.355561	0.4183327	-4.24205	-3.33	-2.63585	1.001595	1000	0.0132288

Diagnostic plots
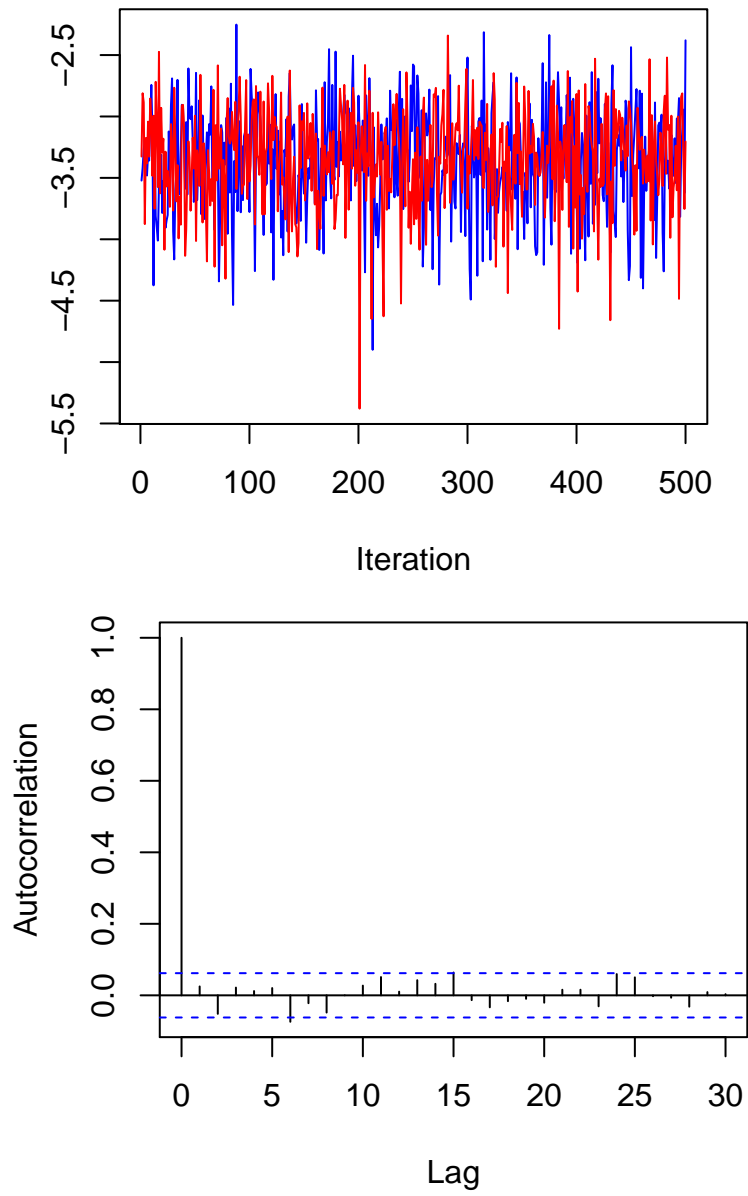
Summary statistics for parameter gamma[4]

gamma[4]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-3.10354	0.4110786	-3.966025	-3.068	-2.370925	1.004254	900	0.0137026

Diagnostic plots

Iteration
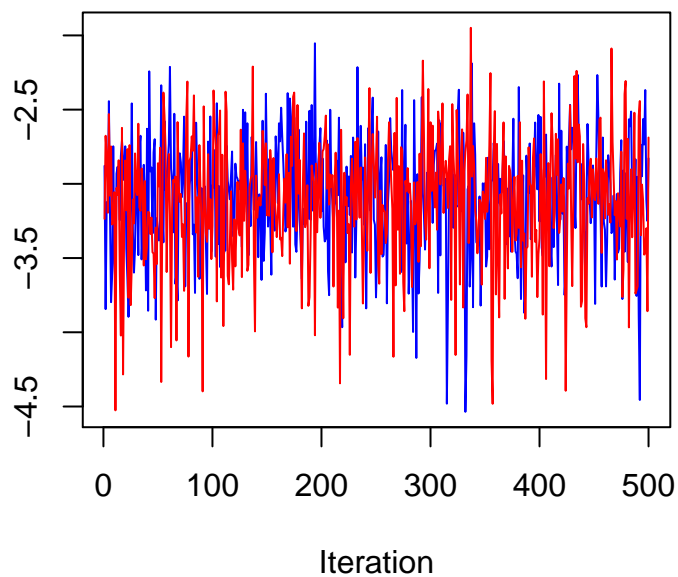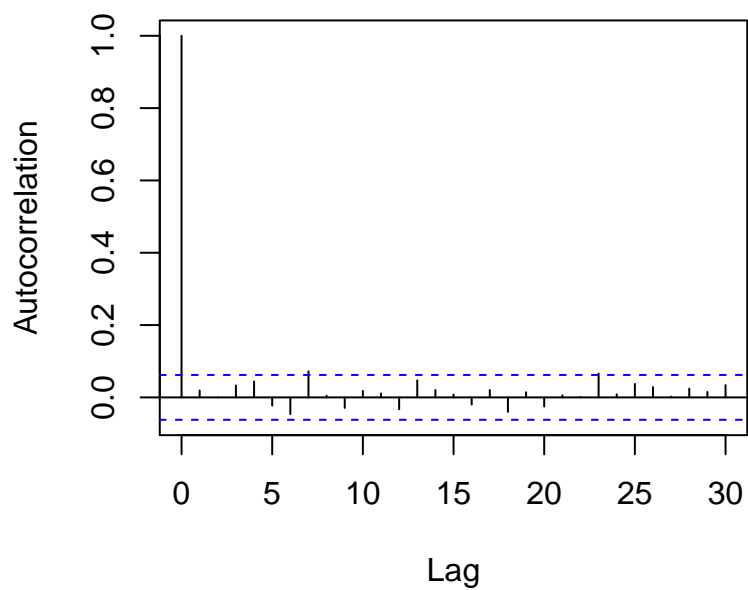
Summary statistics for parameter gamma[5]
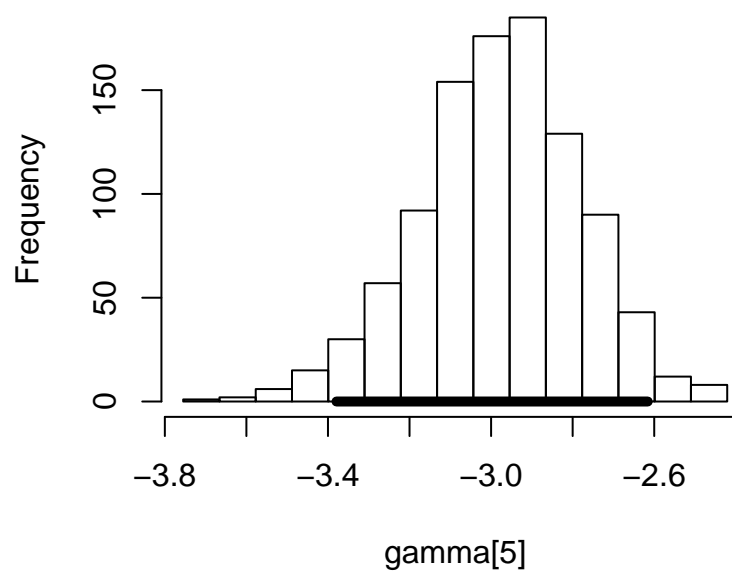
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.978932	0.1971717	-3.37905	-2.9745	-2.615925	1.000103	1000	0.0062351

Diagnostic plots
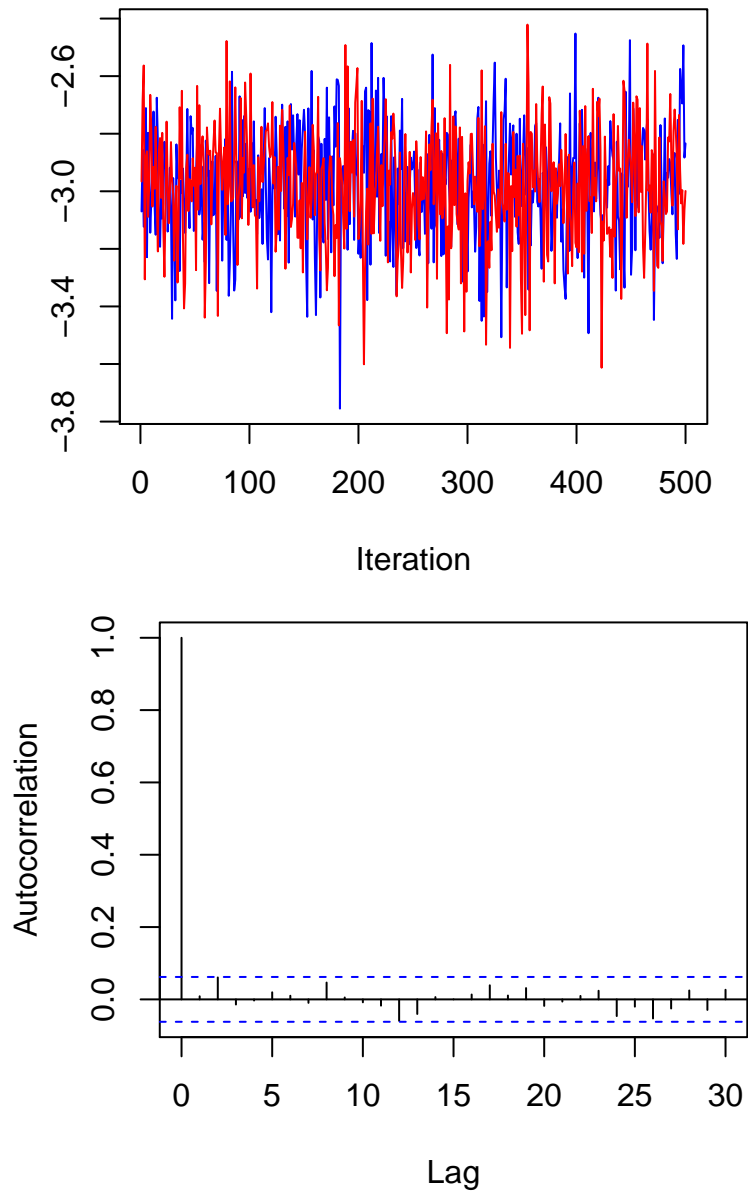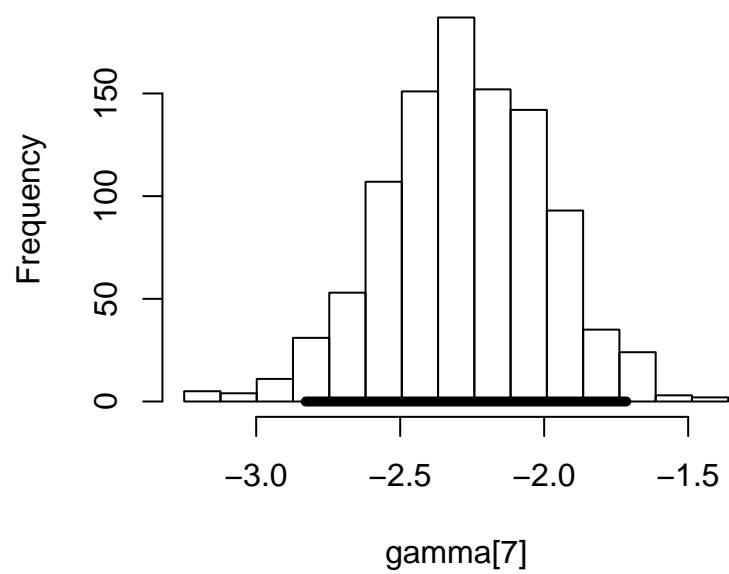
Summary statistics for parameter gamma[6]
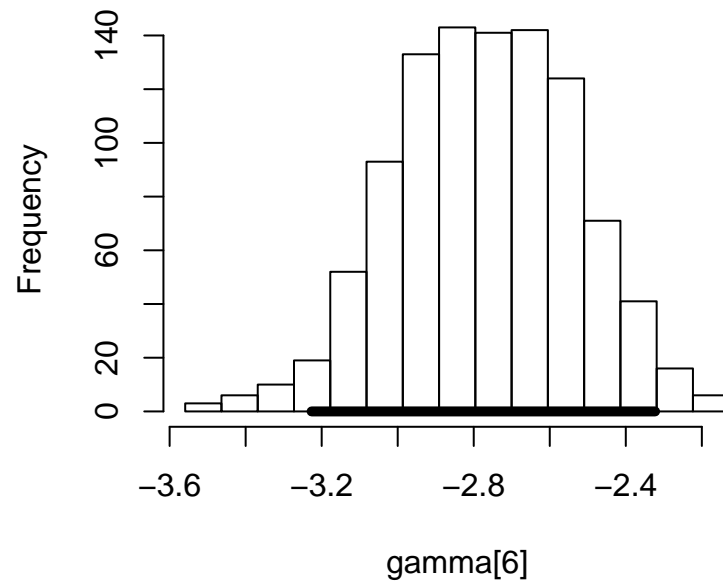
gamma[6]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.771223	0.2361583	-3.22645	-2.775	-2.323	1.000329	1000	0.007468

Diagnostic plots

Iteration
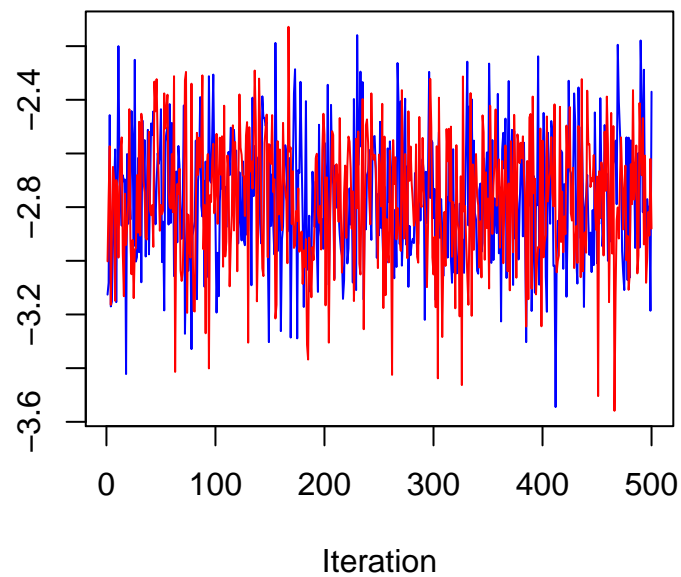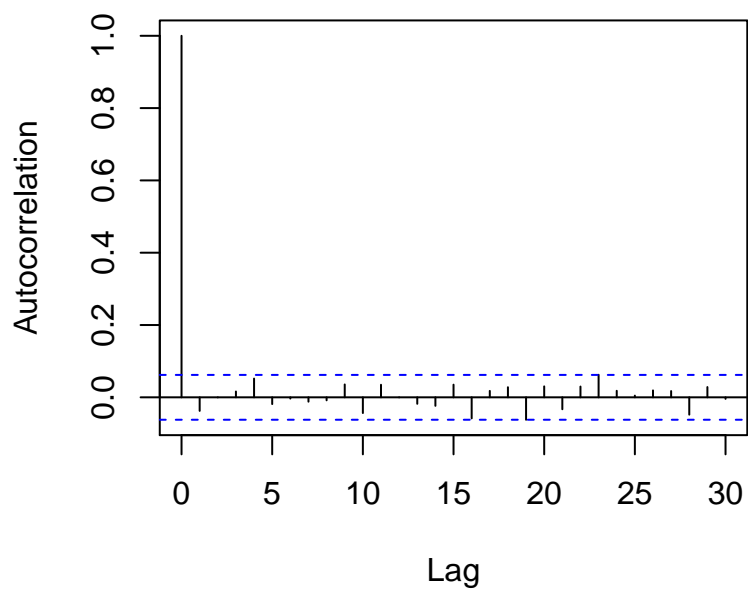
Summary statistics for parameter gamma[7]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.276538	0.2839569	-2.8281	-2.2855	-1.71495	1.003841	1000	0.0089795

Diagnostic plots
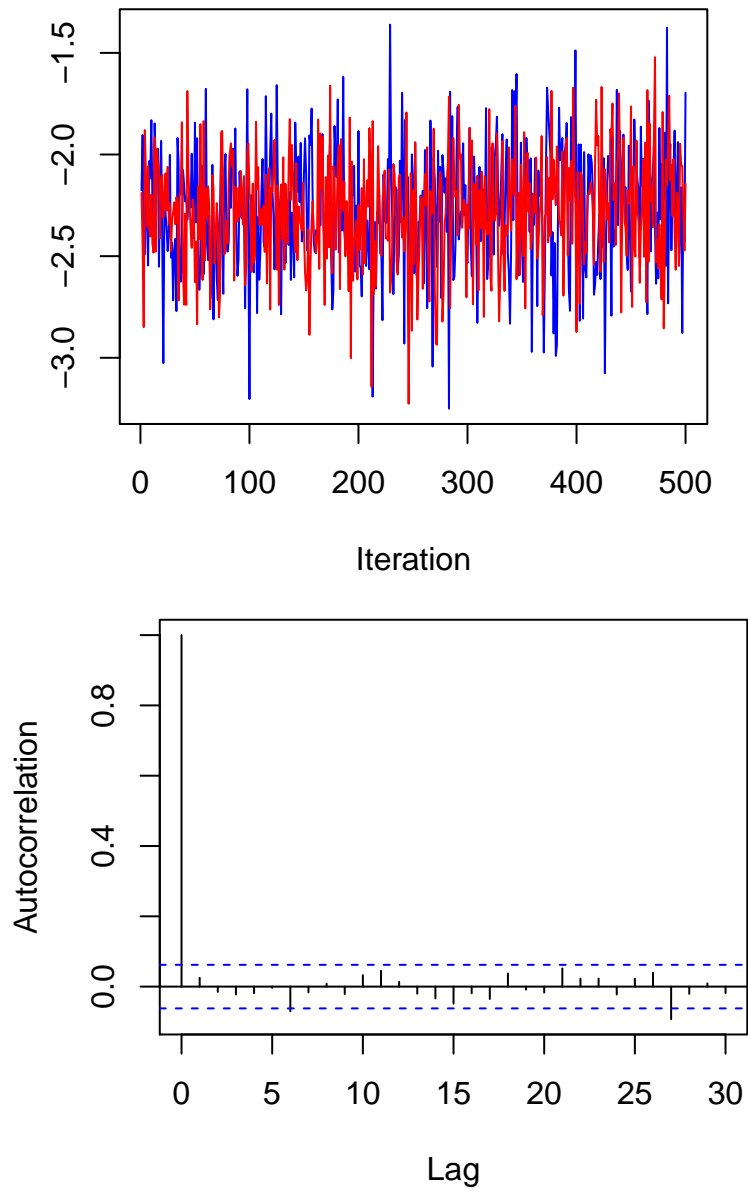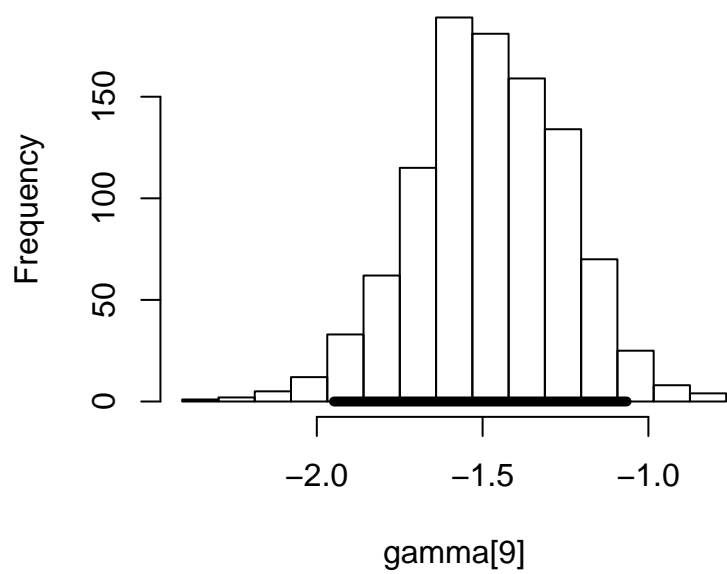
Summary statistics for parameter gamma[8]
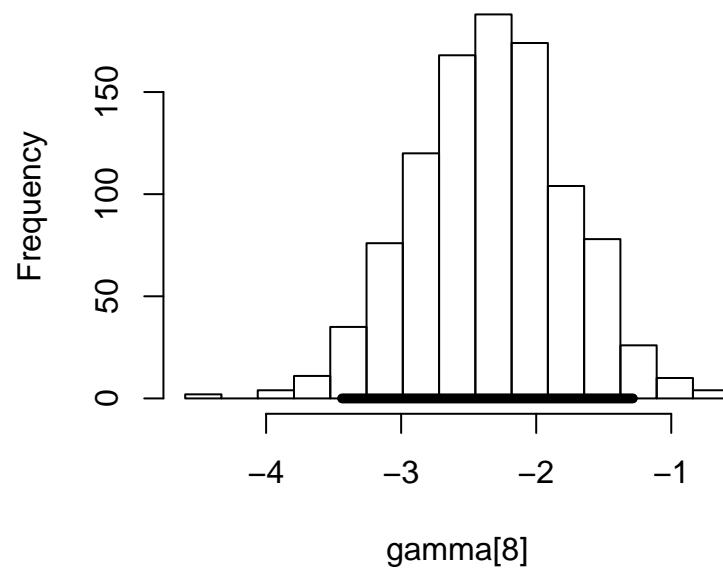
gamma[8]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-2.338563	0.5666075	-3.437125	-2.3295	-1.284875	1.001563	960	0.0182872

Diagnostic plots

Iteration
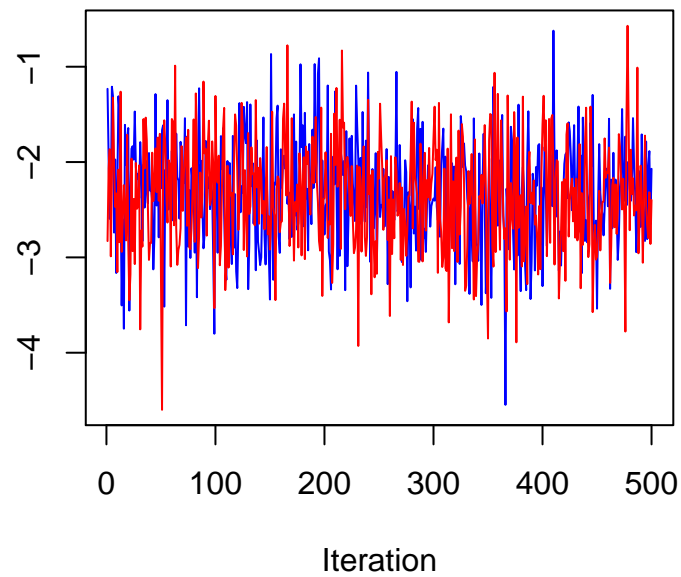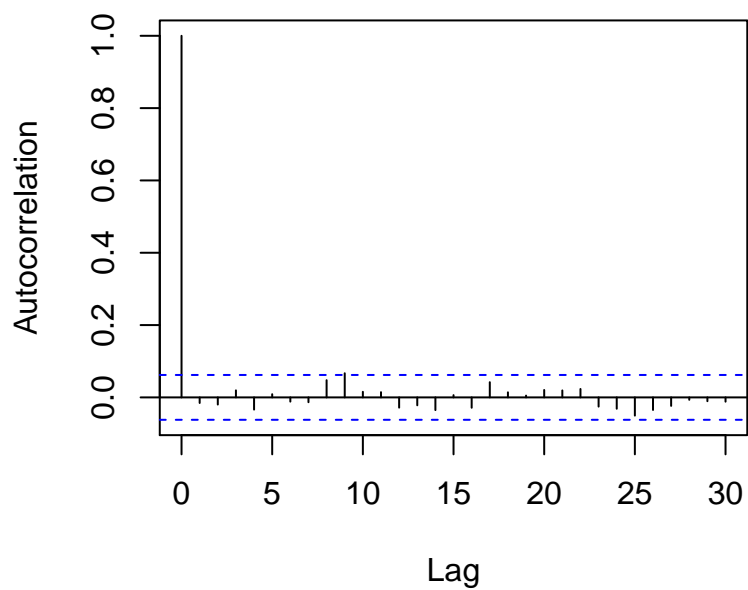
Summary statistics for parameter gamma[9]

Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
-1.480633	0.2294277	-1.948025	-1.479	-1.0658	1.010412	620	0.009214

Diagnostic plots
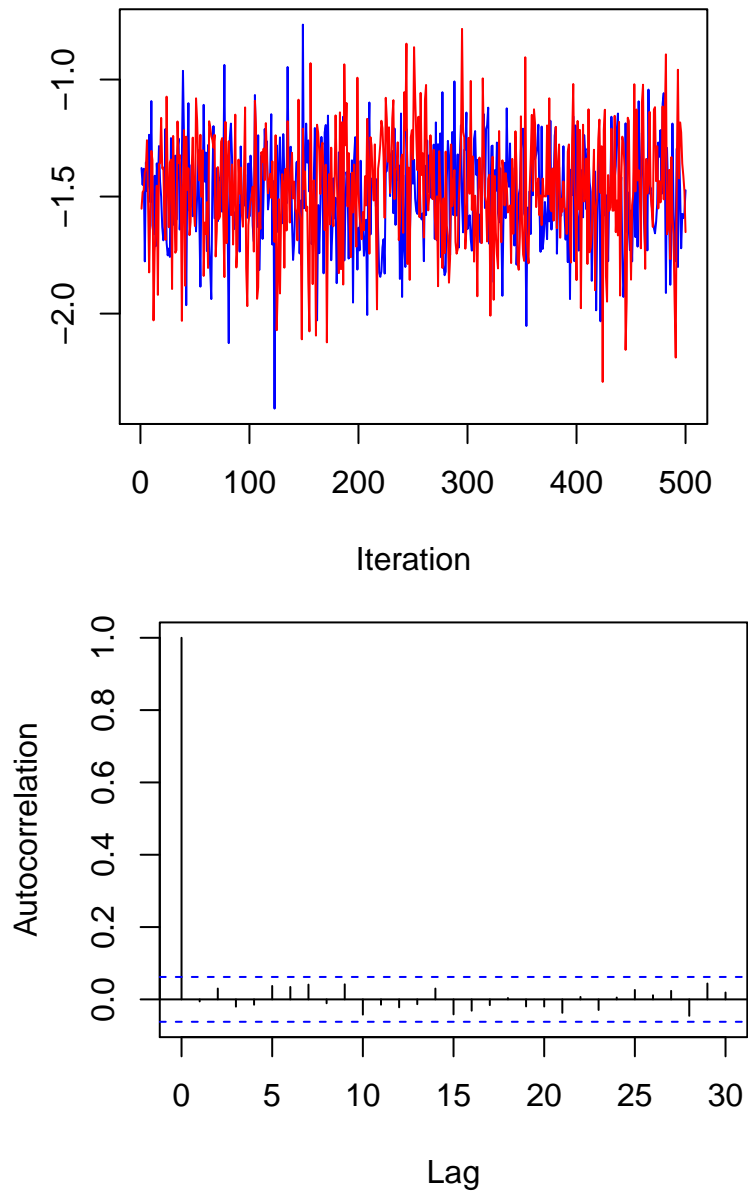
Summary statistics for parameter l
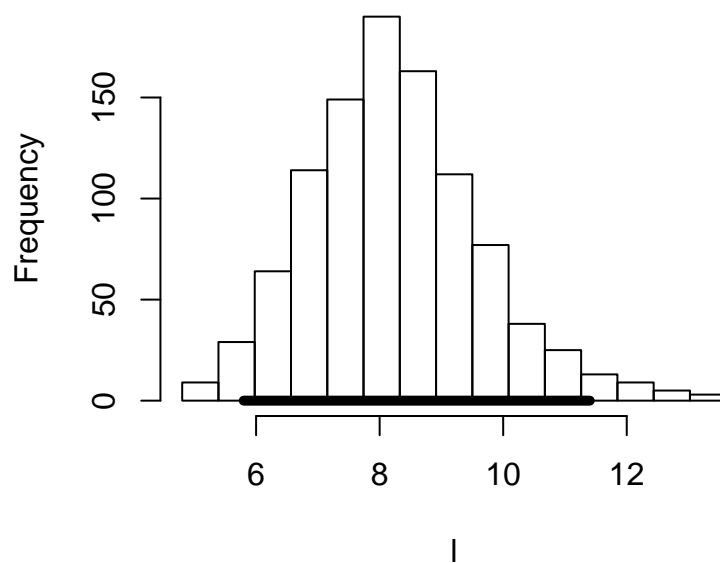
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
8.254309	1.398112	5.799925	8.141	11.401	1.001469	1000	0.0442122

Diagnostic plots
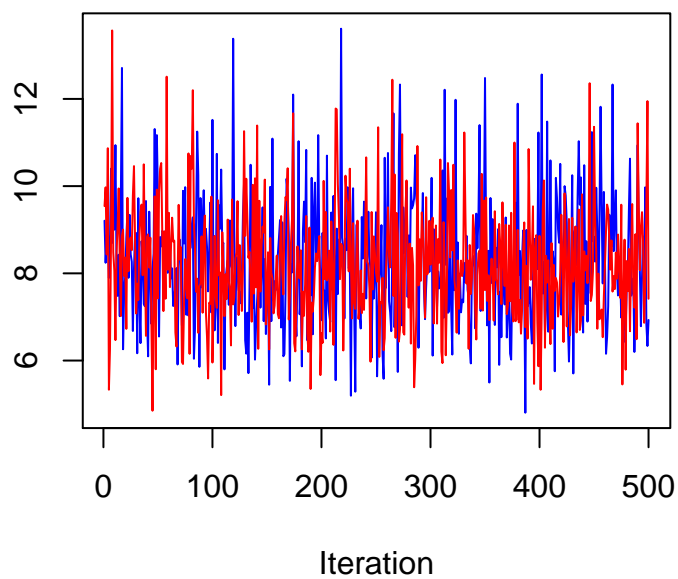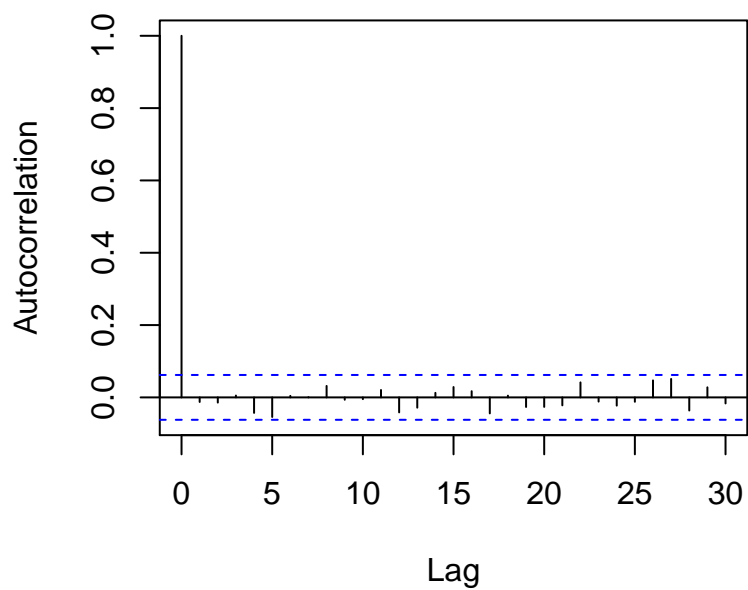
Summary statistics for parameter p1
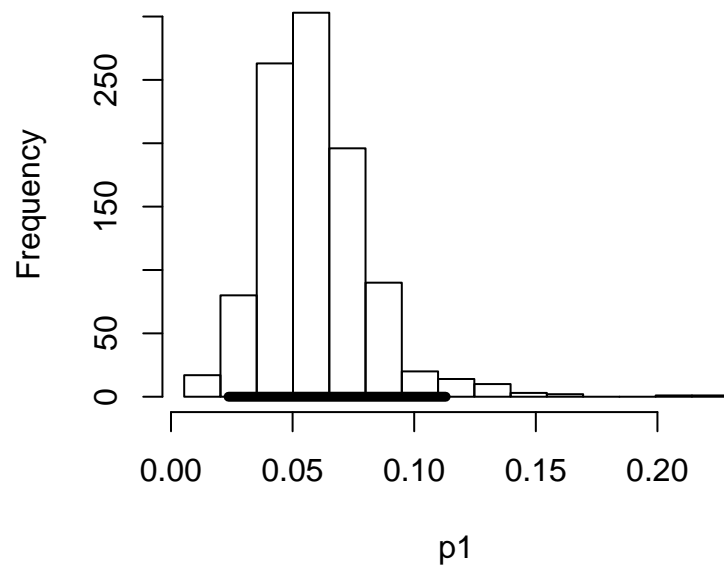
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
0.0592697	0.0225752	0.023686	0.05642	0.11291	1.004384	460	0.0010526

Diagnostic plots
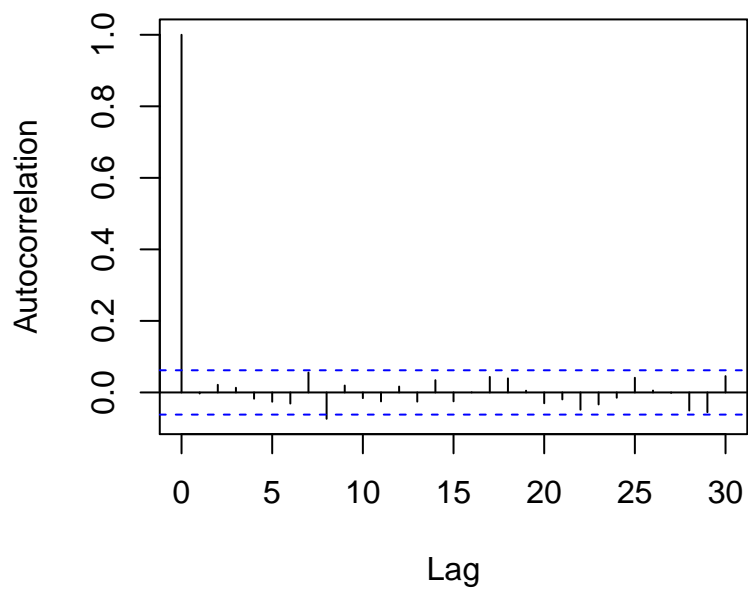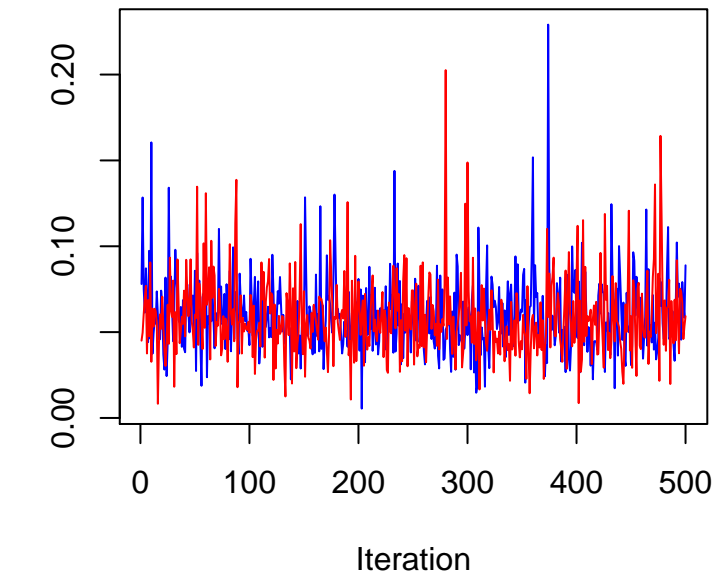
Summary statistics for parameter p2
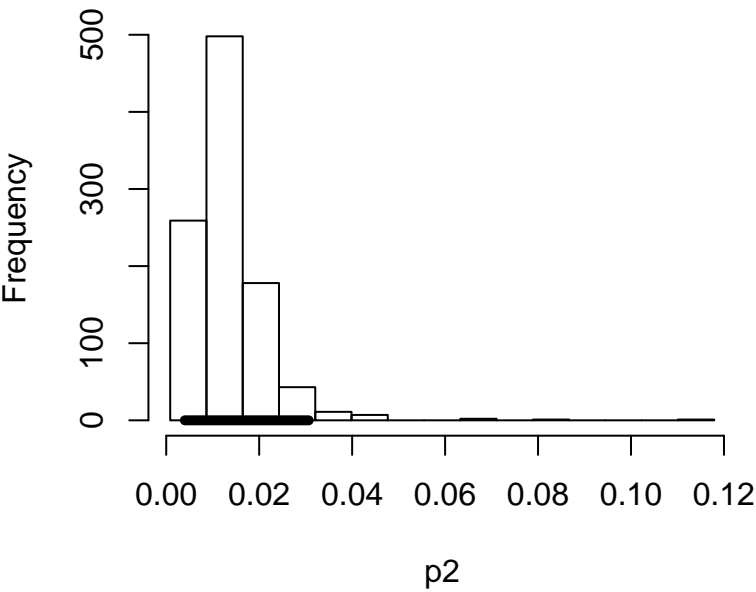
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
0.0134086	0.0081015	0.004002	0.011825	0.0306609	1.00575	440	0.0003862

Diagnostic plots
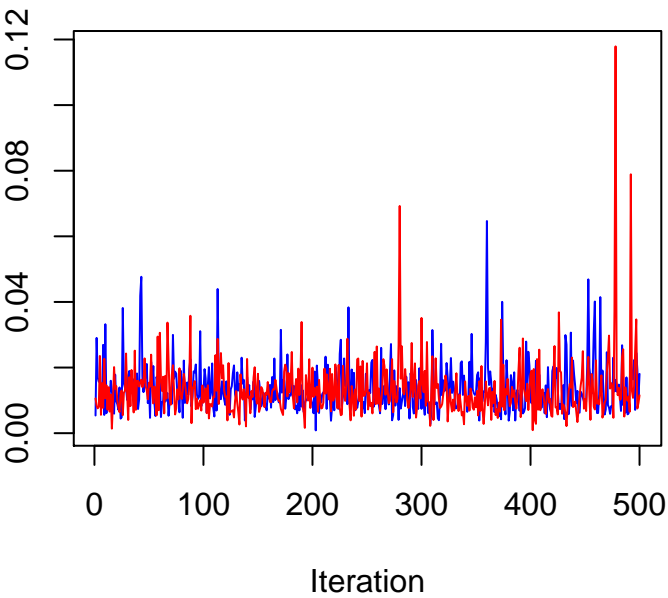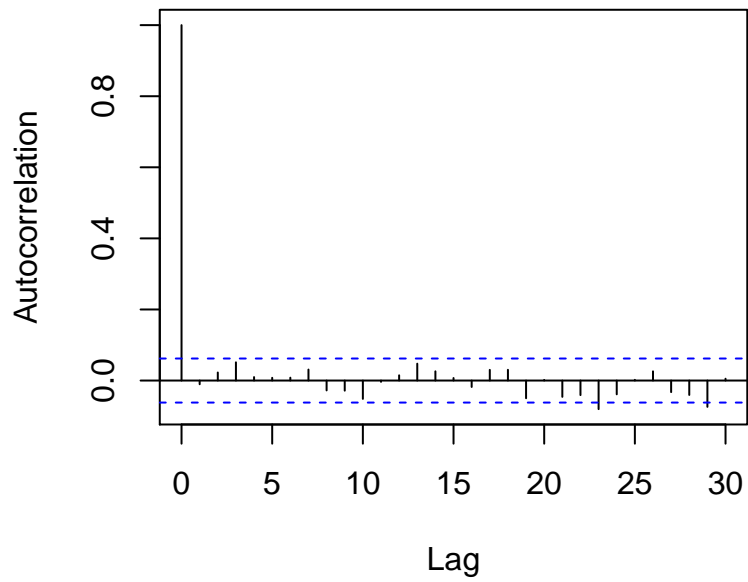
Summary statistics for parameter rho
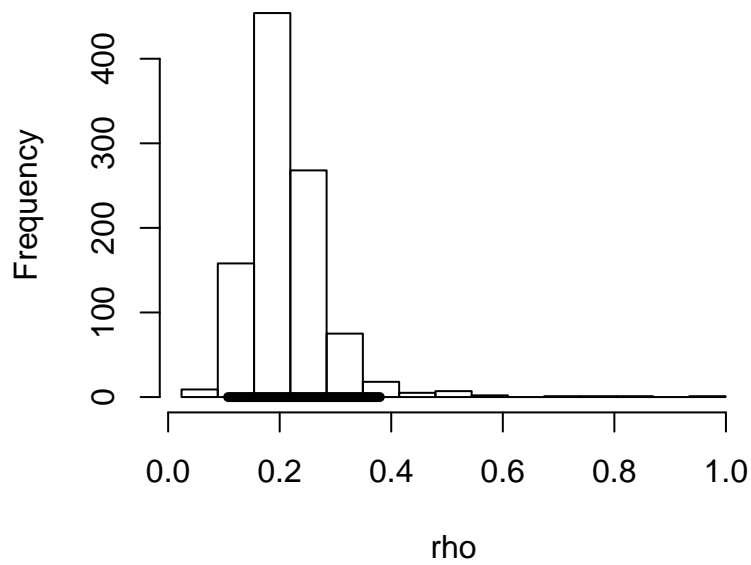
Mean	Standard deviation	2.5%	Median	97.5%	Rhat	n.eff	Monte Carlo SE
0.2129808	0.077531	0.1075925	0.20285	0.3794759	1.000549	1000	0.0024517

Diagnostic plots