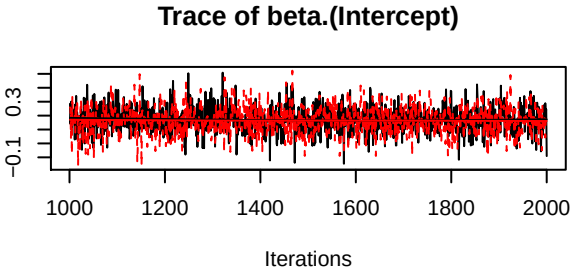
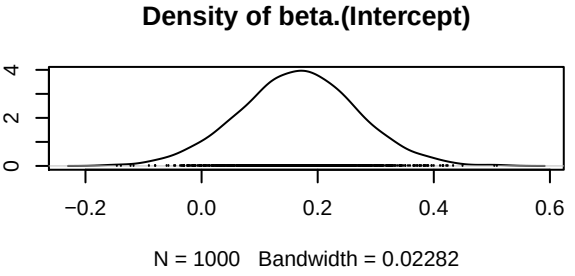
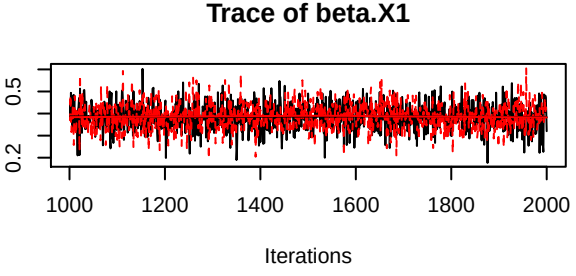
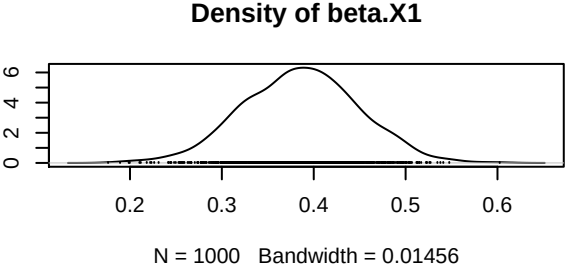
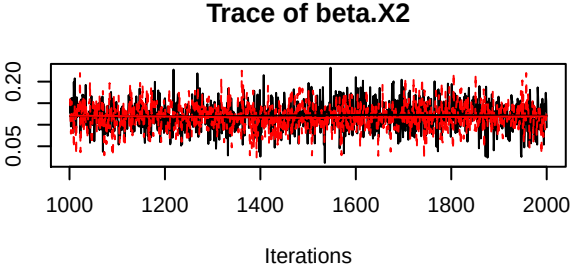
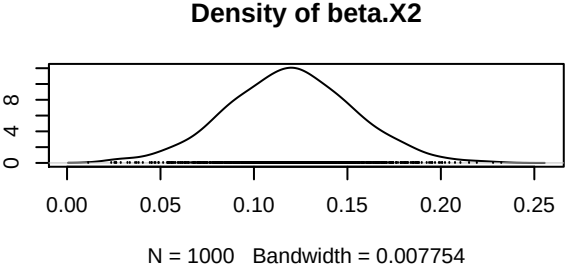

Trace of beta.(Intercept)
−0.1
0.3
1000
1200
1400
1600
1800
2000
Iterations

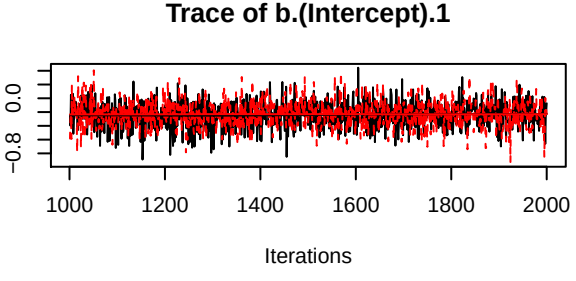

Density of beta.(Intercept)
0
2
4
−0.2
0.0
0.2
0.4
0.6
N = 1000 Bandwidth = 0.02282

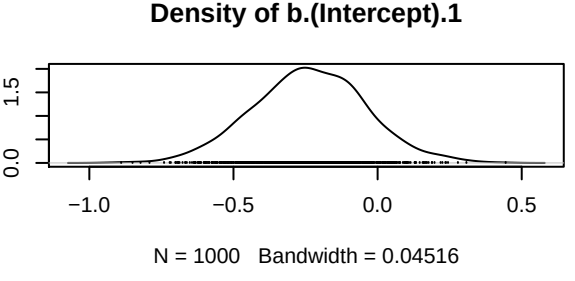

Trace of beta.X1
0.2
0.5
1000
1200
1400
1600
1800
2000
Iterations

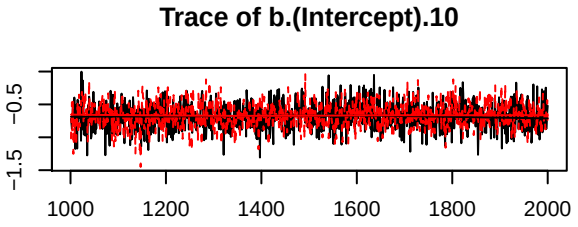

Density of beta.X1
0
2
4
6
0.2
0.3
0.4
0.5
0.6
N = 1000 Bandwidth = 0.01456

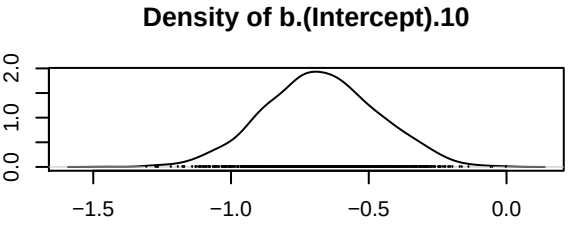

Trace of beta.X2
0.05
0.20
1000
1200
1400
1600
1800
2000
Iterations

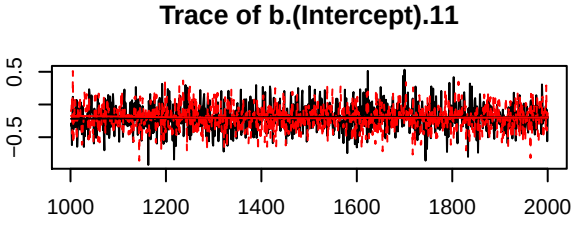

Density of beta.X2
0
4
8
0.00
0.05
0.10
0.15
0.20
0.25
N = 1000 Bandwidth = 0.007754

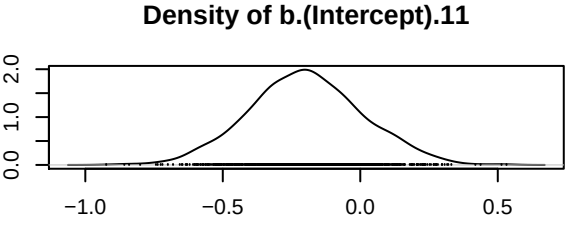

Trace of b.(Intercept).1
−0.8
0.0
1000
1200
1400
1600
1800
2000
Iterations

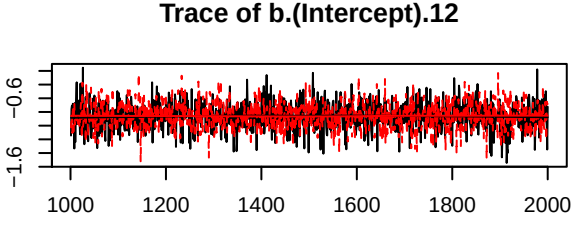

Density of b.(Intercept).1
0.0
1.5
−1.0
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.04516

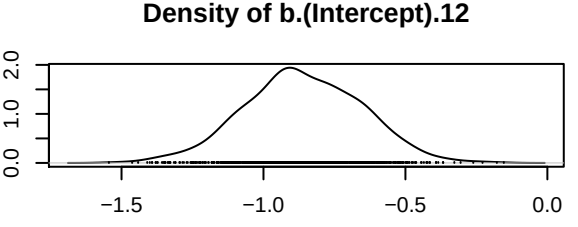

Trace of b.(Intercept).10
−1.5
−0.5
1000
1200
1400
1600
1800
2000
Iterations

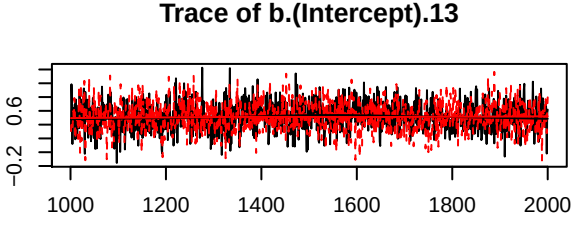

Density of b.(Intercept).10
0.0
1.0
2.0
−1.5
−1.0
−0.5
0.0
N = 1000 Bandwidth = 0.04712

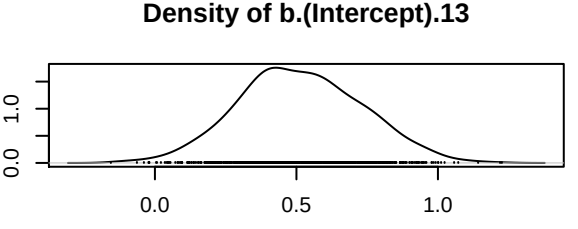

Trace of b.(Intercept).11
−0.5
0.5
1000
1200
1400
1600
1800
2000
Iterations

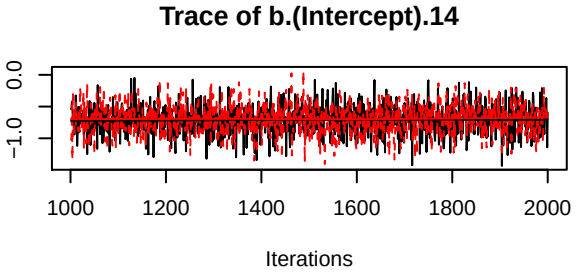

Density of b.(Intercept).11
0.0
1.0
2.0
−1.0
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.04634

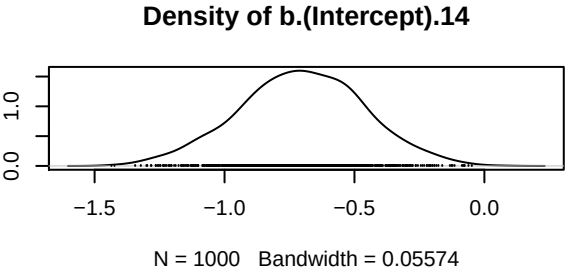

Trace of b.(Intercept).12
−1.6
−0.6
1000
1200
1400
1600
1800
2000
Iterations

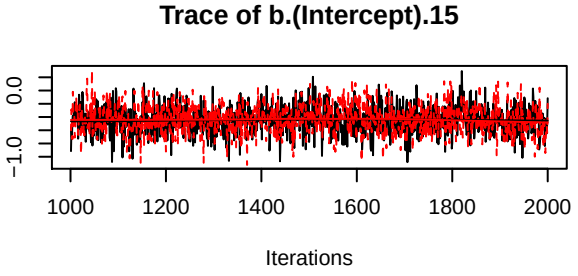

Density of b.(Intercept).12
0.0
1.0
2.0
−1.5
−1.0
−0.5
0.0
N = 1000 Bandwidth = 0.04805

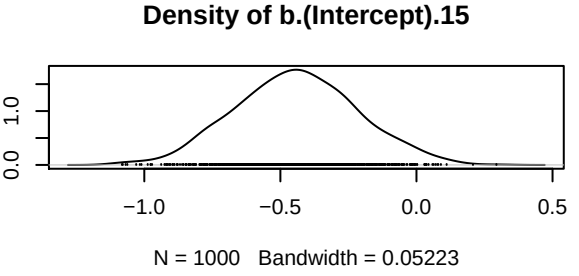

Trace of b.(Intercept).13
−0.2
0.6
1000
1200
1400
1600
1800
2000
Iterations

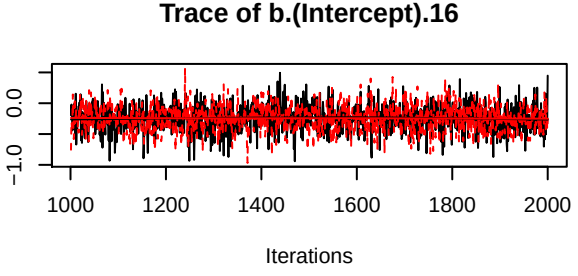

Density of b.(Intercept).13
0.0
1.0
0.0
0.5
1.0
N = 1000 Bandwidth = 0.05048

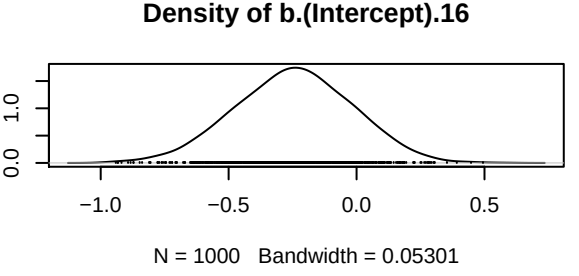

Trace of b.(Intercept).14
0.0
−1.0
1000
1200
1400
1600
1800
2000
Iterations

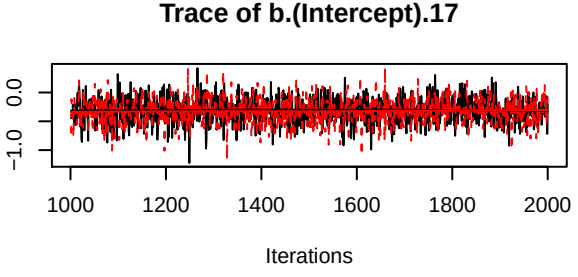

Density of b.(Intercept).14
1.0
0.0
−1.5
−1.0
−0.5
0.0
N = 1000 Bandwidth = 0.05574

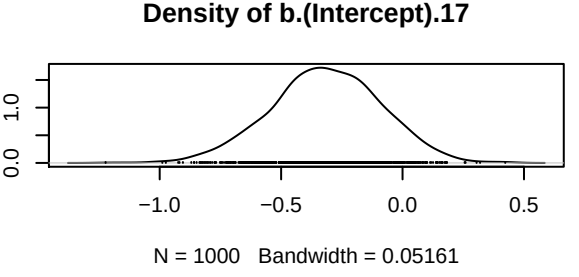

Trace of b.(Intercept).15
0.0
−1.0
1000
1200
1400
1600
1800
2000
Iterations

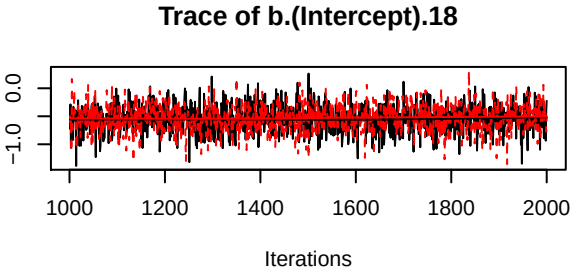

Density of b.(Intercept).15
1.0
0.0
−1.0
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.05223

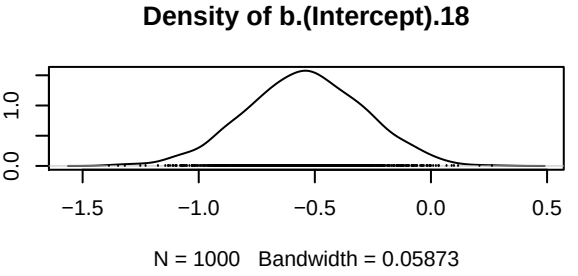

Trace of b.(Intercept).16
0.0
−1.0
1000
1200
1400
1600
1800
2000
Iterations

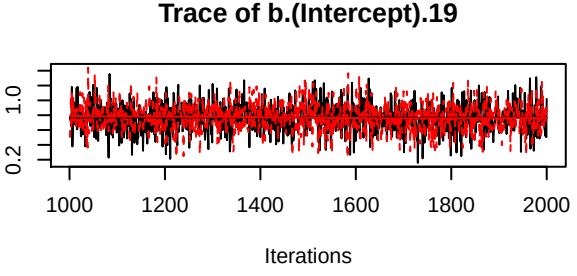

Density of b.(Intercept).16
1.0
0.0
−1.0
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.05301

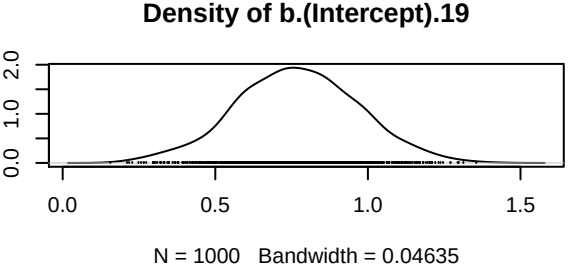

Trace of b.(Intercept).17
0.0
−1.0
1000
1200
1400
1600
1800
2000
Iterations

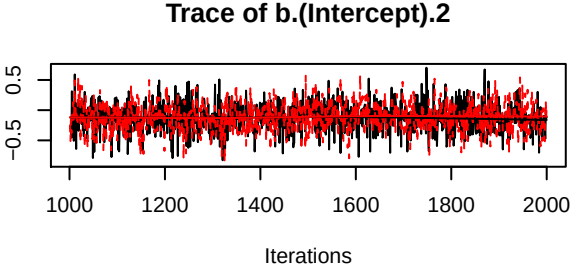

Density of b.(Intercept).17
1.0
0.0
−1.0
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.05161

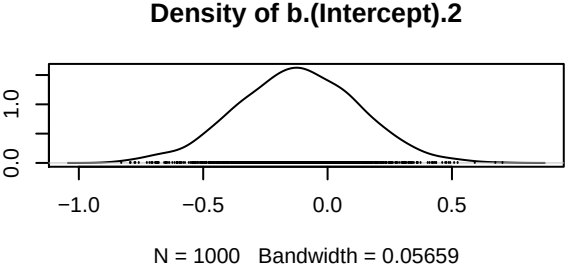

Trace of b.(Intercept).18
−1.0
0.0
1000
1200
1400
1600
1800
2000
Iterations

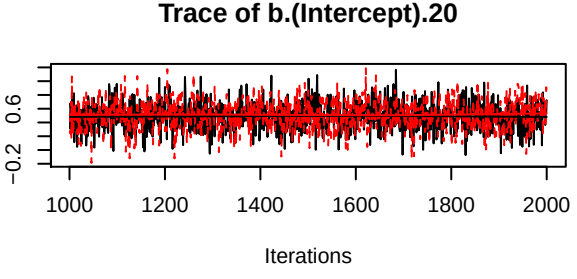

Density of b.(Intercept).18
0.0
1.0
−1.5
−1.0
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.05873

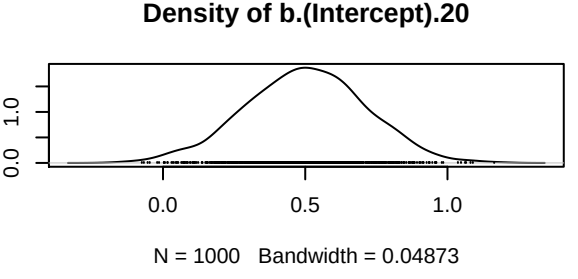

Trace of b.(Intercept).19
0.2
1.0
1000
1200
1400
1600
1800
2000
Iterations

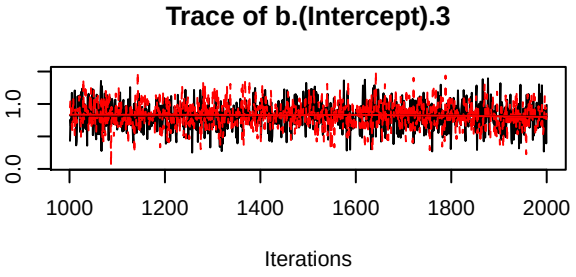

Density of b.(Intercept).19
0.0
1.0
2.0
0.0
0.5
1.0
1.5
N = 1000 Bandwidth = 0.04635

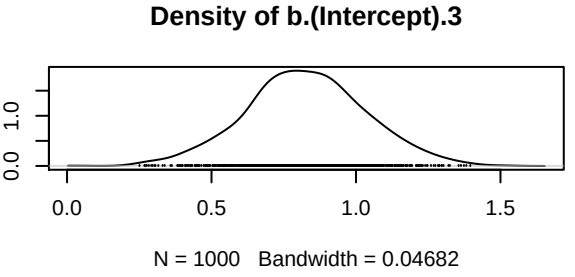

Trace of b.(Intercept).2
−0.5
0.5
1000
1200
1400
1600
1800
2000
Iterations

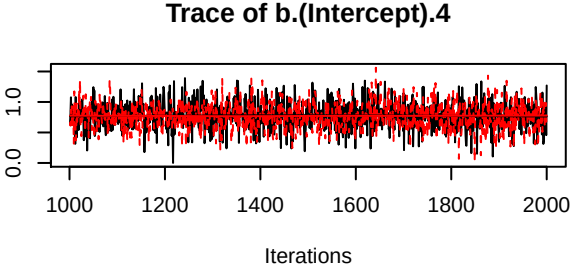

Density of b.(Intercept).2
0.0
1.0
−1.0
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.05659

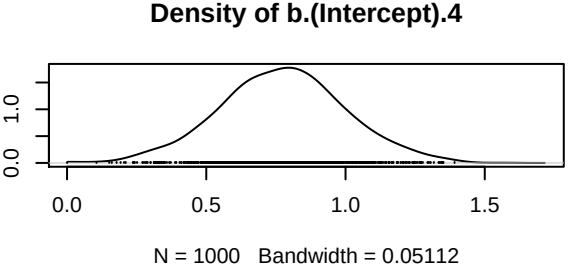

Trace of b.(Intercept).20
−0.2
0.6
1000
1200
1400
1600
1800
2000
Iterations

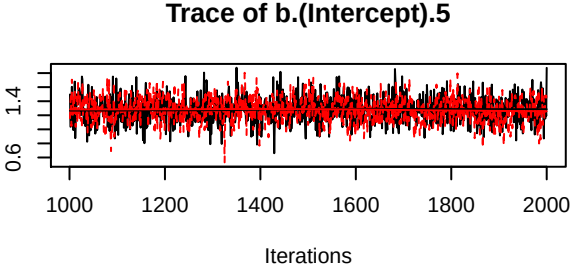

Density of b.(Intercept).20
0.0
1.0
0.0
0.5
1.0
N = 1000 Bandwidth = 0.04873

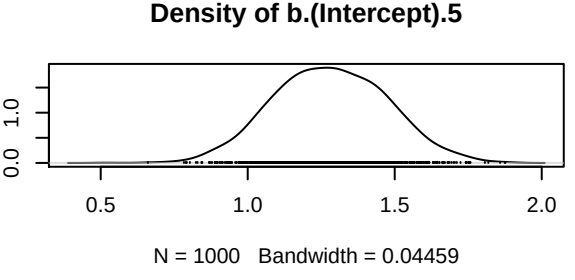

Trace of b.(Intercept).3
0.0
1.0
1000
1200
1400
1600
1800
2000
Iterations

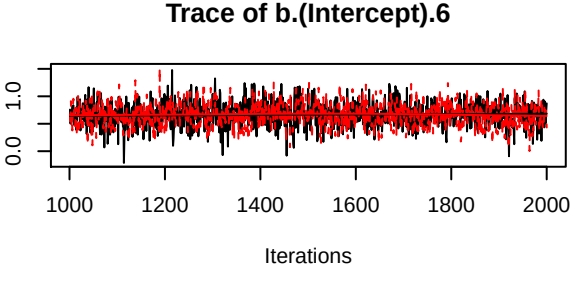

Density of b.(Intercept).3
0.0
1.0
0.0
0.5
1.0
1.5
N = 1000 Bandwidth = 0.04682

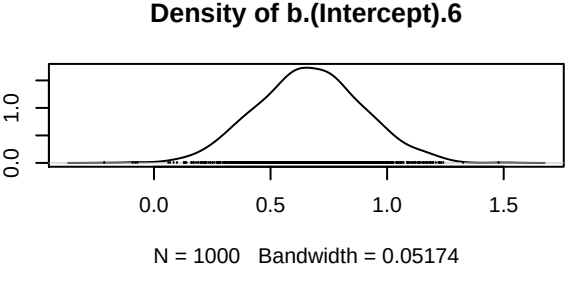

Trace of b.(Intercept).4
0.0
1.0
1000
1200
1400
1600
1800
2000
Iterations

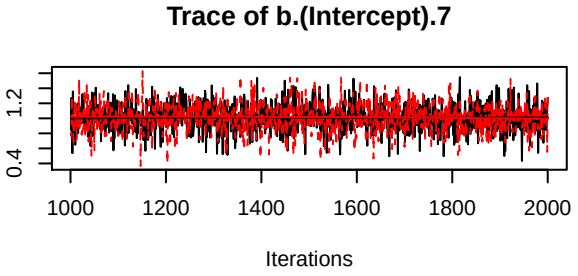

Density of b.(Intercept).4
0.0
1.0
0.0
0.5
1.0
1.5
N = 1000 Bandwidth = 0.05112

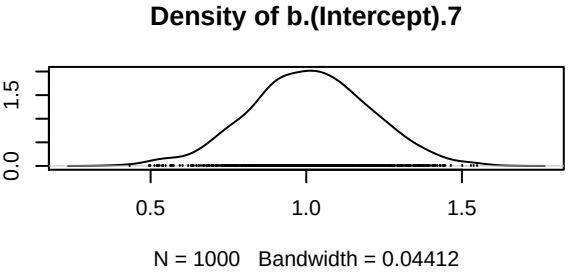

Trace of b.(Intercept).5
0.6
1.4
1000
1200
1400
1600
1800
2000
Iterations

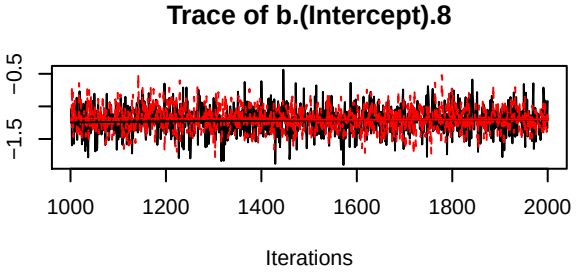

Density of b.(Intercept).5
0.0
1.0
0.5
1.0
1.5
2.0
N = 1000 Bandwidth = 0.04459

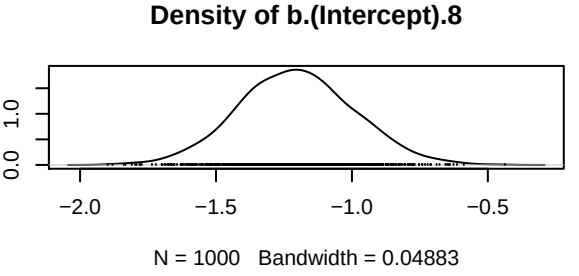

Trace of b.(Intercept).6
0.0
1.0
1000
1200
1400
1600
1800
2000
Iterations

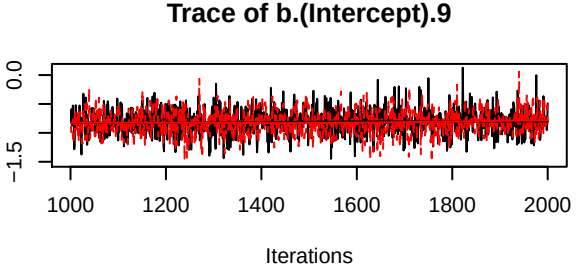

Density of b.(Intercept).6
0.0
1.0
0.0
0.5
1.0
1.5
N = 1000 Bandwidth = 0.05174

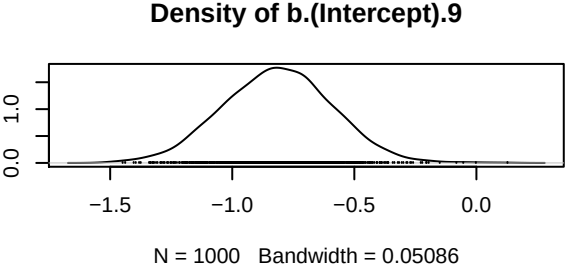

Trace of b.(Intercept).7
0.4
1.2
1000
1200
1400
1600
1800
2000
Iterations

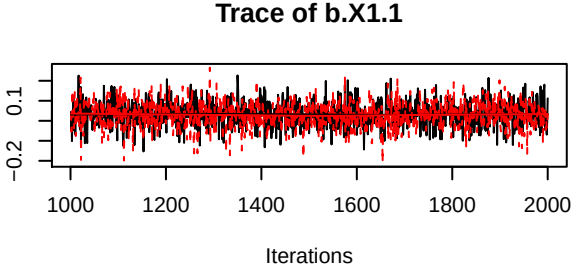

Density of b.(Intercept).7
0.0
1.5
0.5
1.0
1.5
N = 1000 Bandwidth = 0.04412

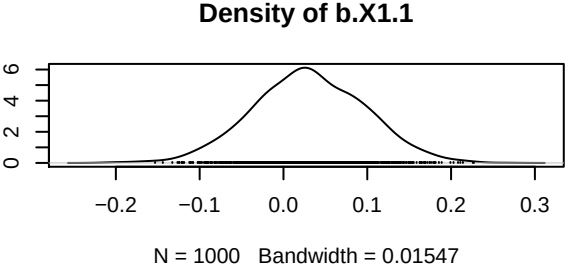

Trace of b.(Intercept).8
−1.5
−0.5
1000
1200
1400
1600
1800
2000
Iterations

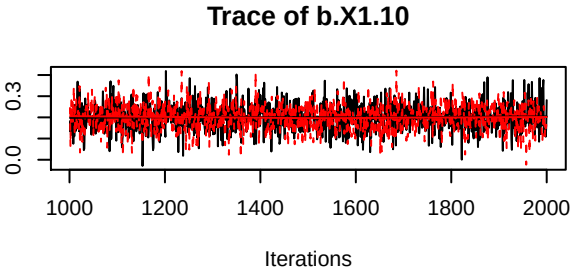

Density of b.(Intercept).8
0.0
1.0
−2.0
−1.5
−1.0
−0.5
N = 1000 Bandwidth = 0.04883

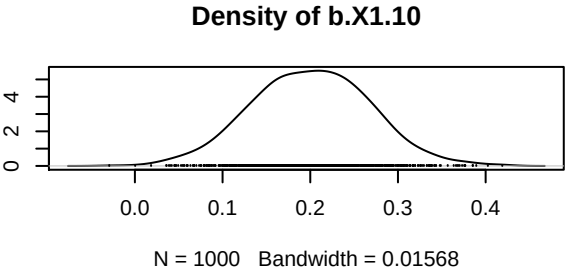

Trace of b.(Intercept).9
−1.5
0.0
1000
1200
1400
1600
1800
2000
Iterations

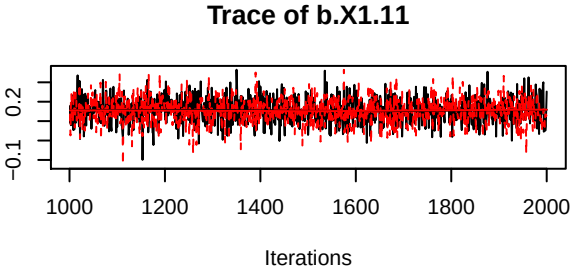

Density of b.(Intercept).9
0.0
1.0
−1.5
−1.0
−0.5
0.0
N = 1000 Bandwidth = 0.05086

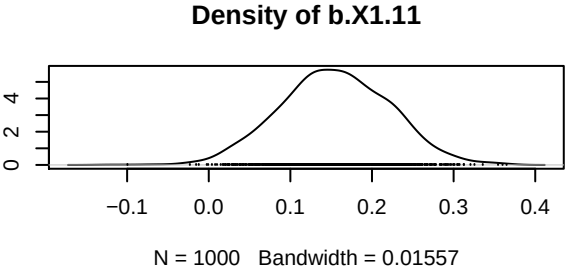

Trace of b.X1.1
−0.2
0.1
1000
1200
1400
1600
1800
2000
Iterations

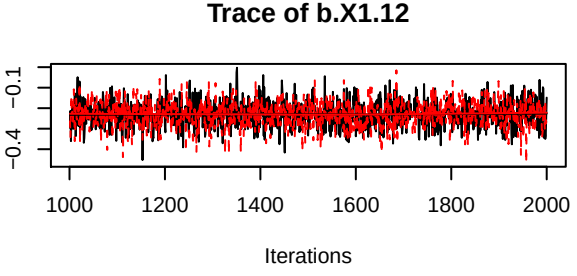

Density of b.X1.1
0
2
4
6
−0.2
−0.1
0.0
0.1
0.2
0.3
N = 1000 Bandwidth = 0.01547

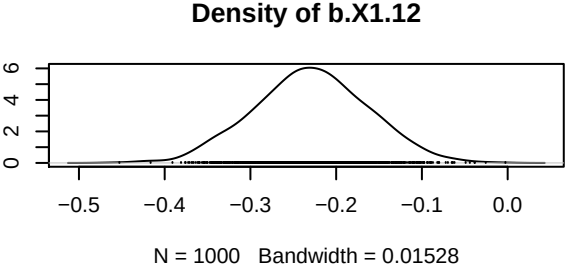

Trace of b.X1.10
0.0
0.3
1000
1200
1400
1600
1800
2000
Iterations

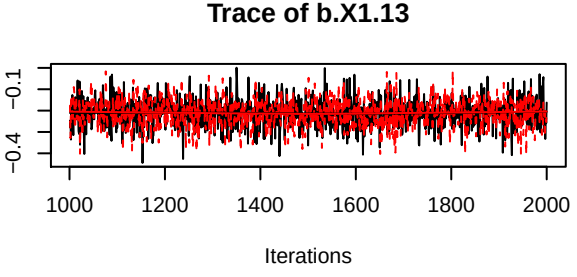

Density of b.X1.10
0
2
4
0.0
0.1
0.2
0.3
0.4
N = 1000 Bandwidth = 0.01568

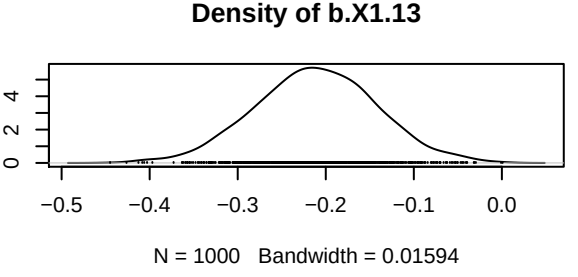

Trace of b.X1.11
−0.1
0.2
1000
1200
1400
1600
1800
2000
Iterations

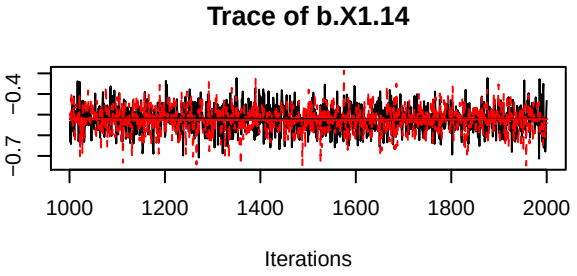

Density of b.X1.11
0
2
4
−0.1
0.0
0.1
0.2
0.3
0.4
N = 1000 Bandwidth = 0.01557

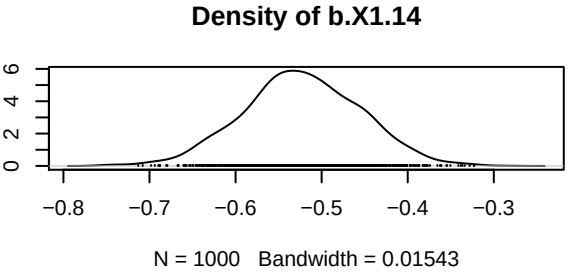

Trace of b.X1.12
−0.4
−0.1
1000
1200
1400
1600
1800
2000
Iterations

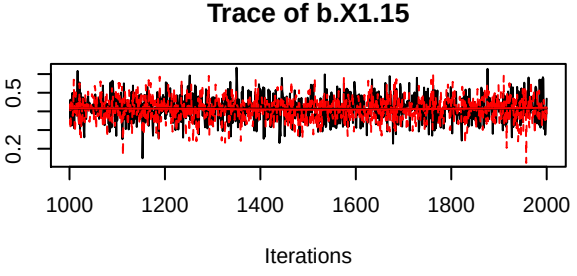

Density of b.X1.12
0
2
4
6
−0.5
−0.4
−0.3
−0.2
−0.1
0.0
N = 1000 Bandwidth = 0.01528

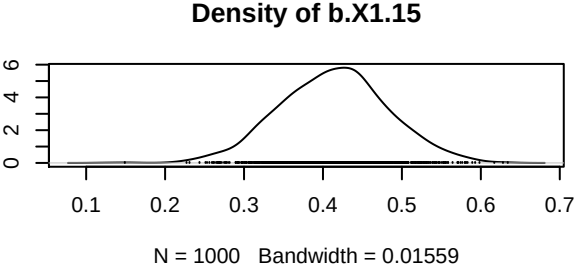

Trace of b.X1.13
−0.4
−0.1
1000
1200
1400
1600
1800
2000
Iterations

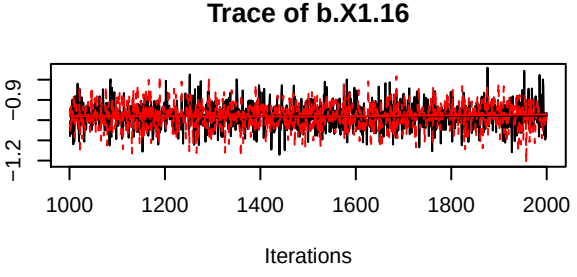

Density of b.X1.13
0
2
4
−0.5
−0.4
−0.3
−0.2
−0.1
0.0
N = 1000 Bandwidth = 0.01594

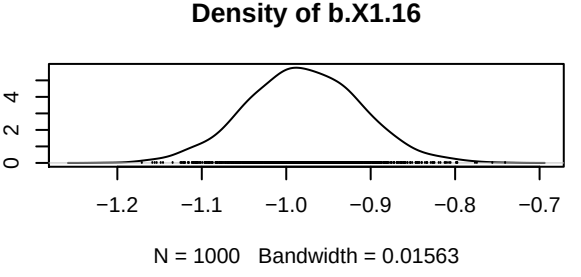

Trace of b.X1.14
−0.7
−0.4
1000
1200
1400
1600
1800
2000
Iterations

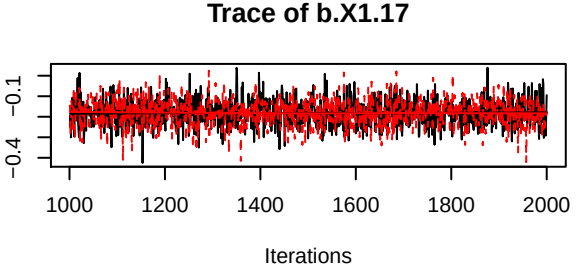

Density of b.X1.14
0
2
4
6
−0.8
−0.7
−0.6
−0.5
−0.4
−0.3
N = 1000 Bandwidth = 0.01543

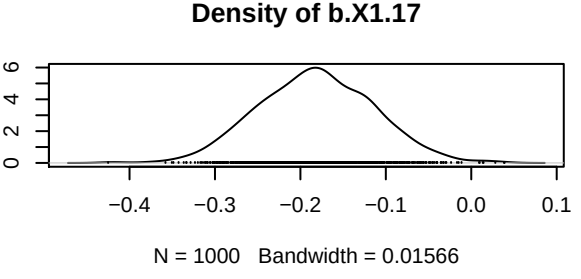

Trace of b.X1.15
0.2
0.5
1000
1200
1400
1600
1800
2000
Iterations

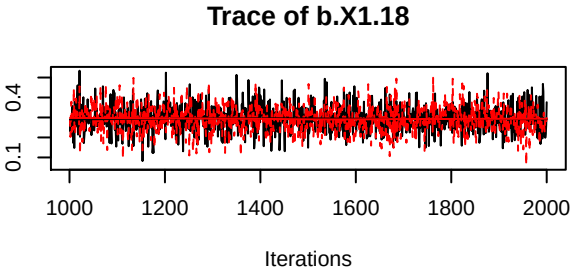

Density of b.X1.15
0
2
4
6
0.1
0.2
0.3
0.4
0.5
0.6
0.7
N = 1000 Bandwidth = 0.01559

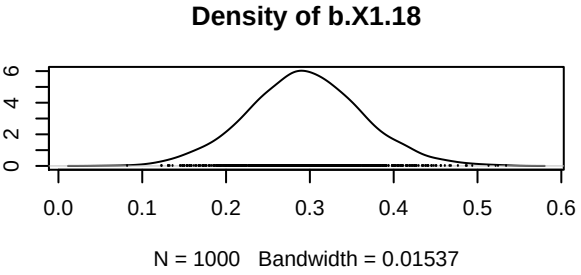

Trace of b.X1.16
−1.2
−0.9
1000
1200
1400
1600
1800
2000
Iterations

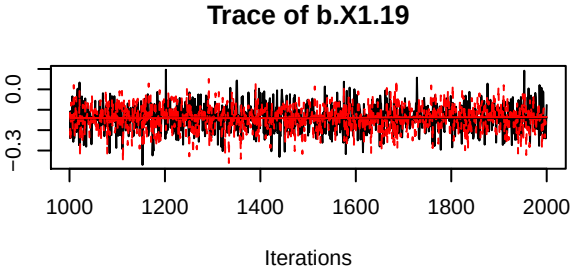

Density of b.X1.16
0
2
4
−1.2
−1.1
−1.0
−0.9
−0.8
−0.7
N = 1000 Bandwidth = 0.01563

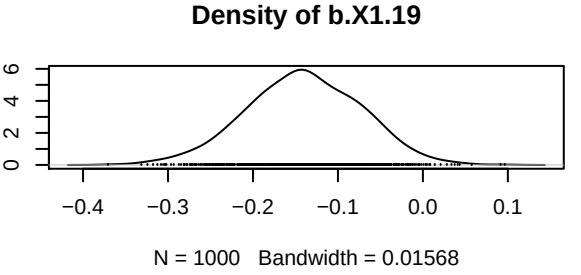

Trace of b.X1.17
−0.4
−0.1
1000
1200
1400
1600
1800
2000
Iterations

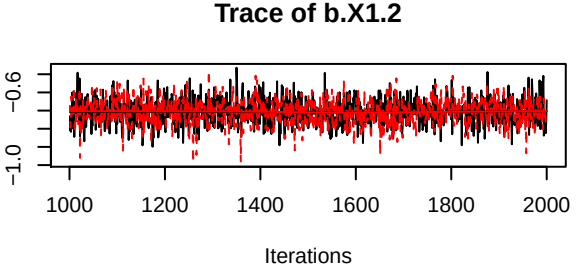

Density of b.X1.17
0
2
4
6
−0.4
−0.3
−0.2
−0.1
0.0
0.1
N = 1000 Bandwidth = 0.01566

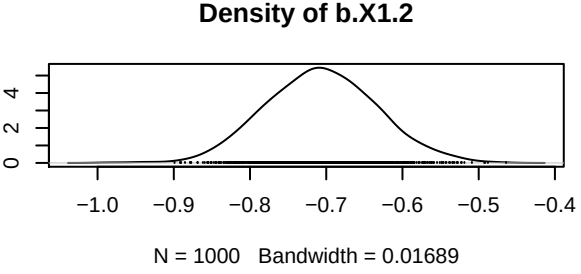

Trace of b.X1.18
0.1
0.4
1000
1200
1400
1600
1800
2000
Iterations

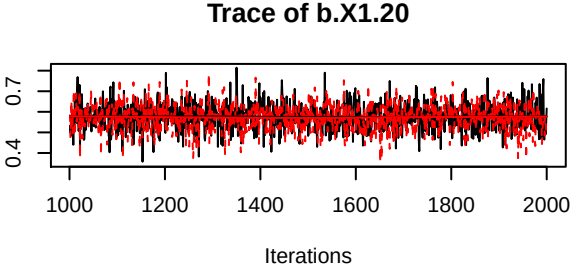

Density of b.X1.18
0
2
4
6
0.0
0.1
0.2
0.3
0.4
0.5
0.6
N = 1000 Bandwidth = 0.01537

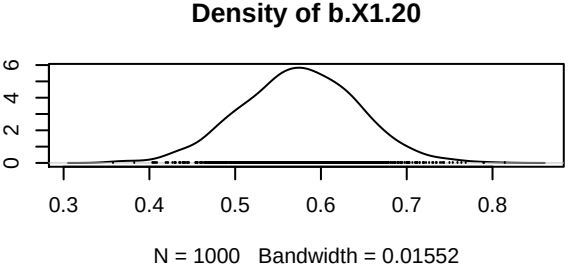

Trace of b.X1.19
−0.3
0.0
1000
1200
1400
1600
1800
2000
Iterations

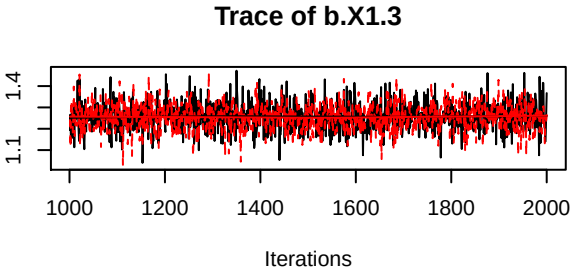

Density of b.X1.19
0
2
4
6
−0.4
−0.3
−0.2
−0.1
0.0
0.1
N = 1000 Bandwidth = 0.01568

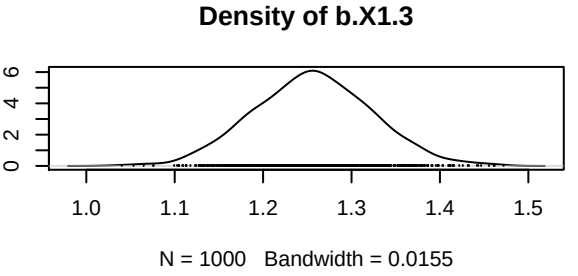

Trace of b.X1.2
−1.0
−0.6
1000
1200
1400
1600
1800
2000
Iterations

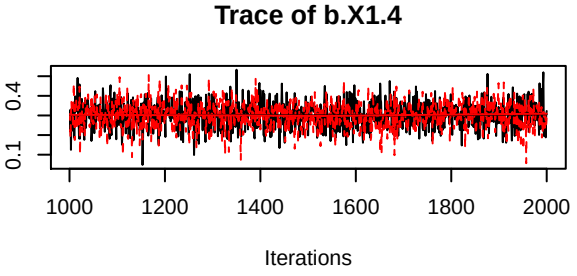

Density of b.X1.2
0
2
4
−1.0
−0.9
−0.8
−0.7
−0.6
−0.5
−0.4
N = 1000 Bandwidth = 0.01689

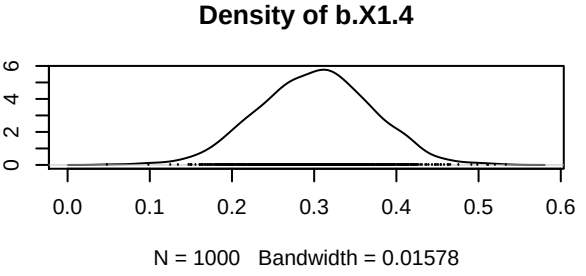

Trace of b.X1.20
0.4
0.7
1000
1200
1400
1600
1800
2000
Iterations

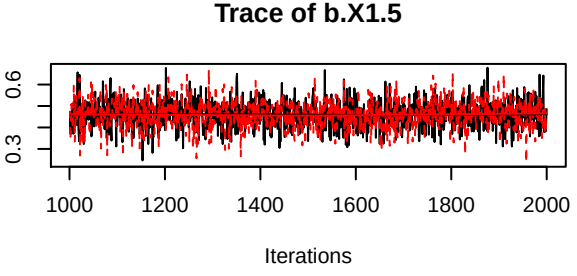

Density of b.X1.20
0
2
4
6
0.3
0.4
0.5
0.6
0.7
0.8
N = 1000 Bandwidth = 0.01552

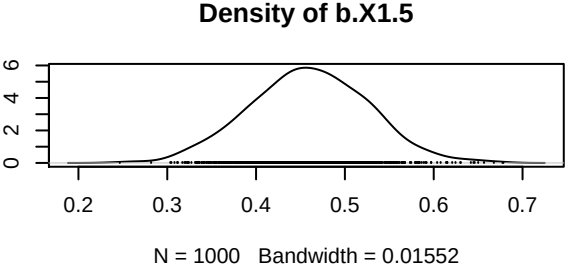

Trace of b.X1.3
1.1
1.4
1000
1200
1400
1600
1800
2000
Iterations

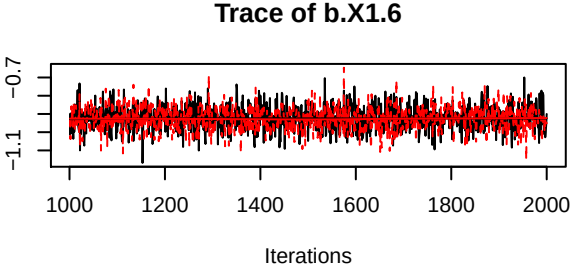

Density of b.X1.3
0
2
4
6
1.0
1.1
1.2
1.3
1.4
1.5
N = 1000 Bandwidth = 0.0155

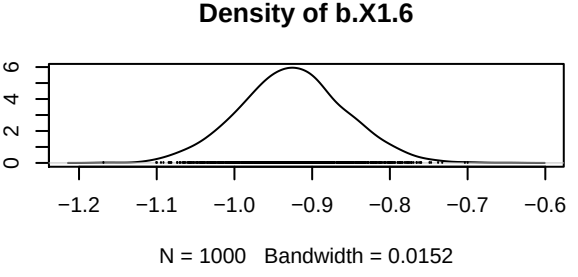

Trace of b.X1.4
0.1
0.4
1000
1200
1400
1600
1800
2000
Iterations

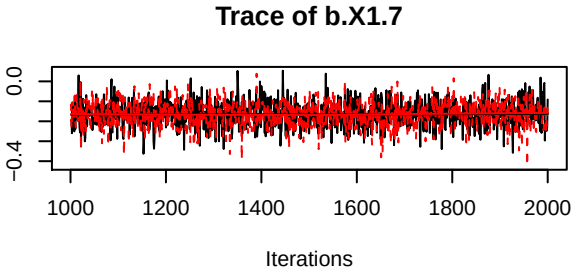

Density of b.X1.4
0
2
4
6
0.0
0.1
0.2
0.3
0.4
0.5
0.6
N = 1000 Bandwidth = 0.01578

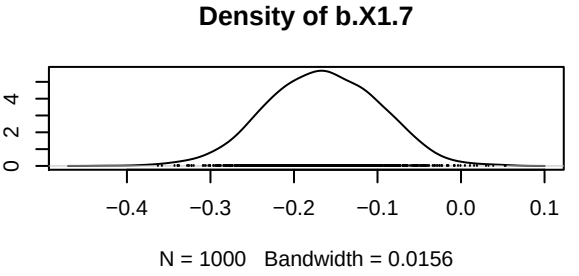

Trace of b.X1.5
0.3
0.6
1000
1200
1400
1600
1800
2000
Iterations

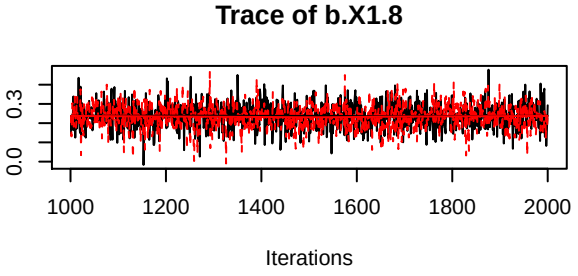

Density of b.X1.5
0
2
4
6
0.2
0.3
0.4
0.5
0.6
0.7
N = 1000 Bandwidth = 0.01552

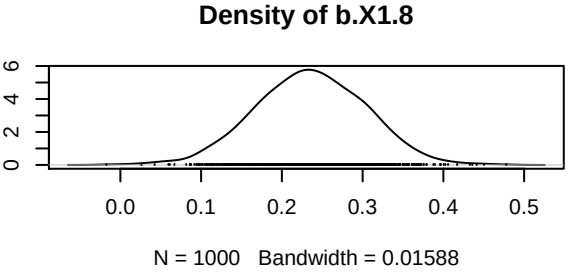

Trace of b.X1.6
−1.1
−0.7
1000
1200
1400
1600
1800
2000
Iterations

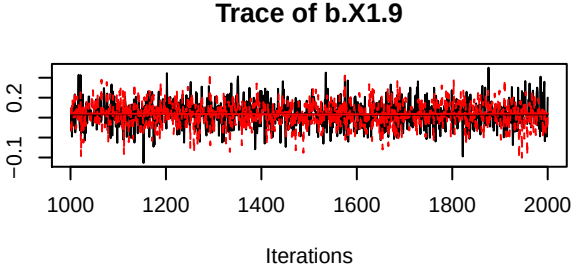

Density of b.X1.6
0
2
4
6
−1.2
−1.1
−1.0
−0.9
−0.8
−0.7
−0.6
N = 1000 Bandwidth = 0.0152

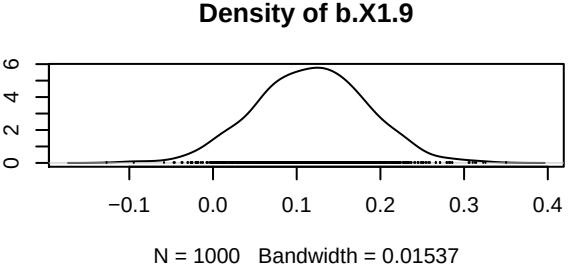

Trace of b.X1.7
0.0
−0.4
1000
1200
1400
1600
1800
2000
Iterations

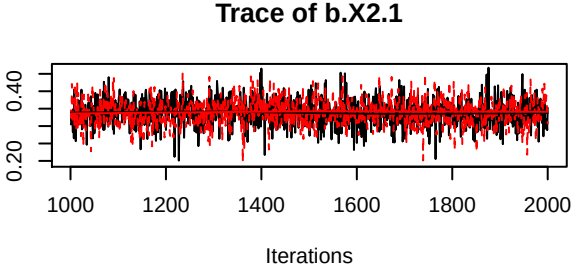

Density of b.X1.7
0
2
4
−0.4
−0.3
−0.2
−0.1
0.0
0.1
N = 1000 Bandwidth = 0.0156

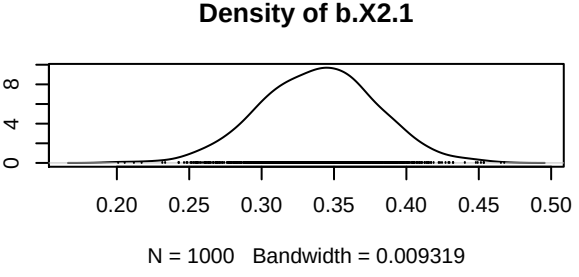

Trace of b.X1.8
0.0
0.3
1000
1200
1400
1600
1800
2000
Iterations

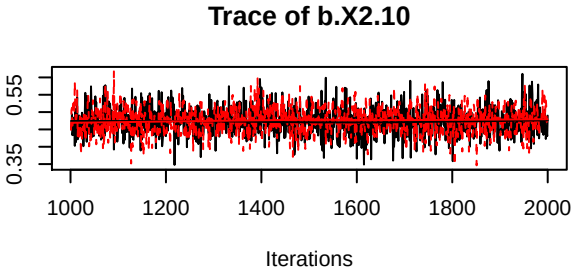

Density of b.X1.8
0
2
4
6
0.0
0.1
0.2
0.3
0.4
0.5
N = 1000 Bandwidth = 0.01588

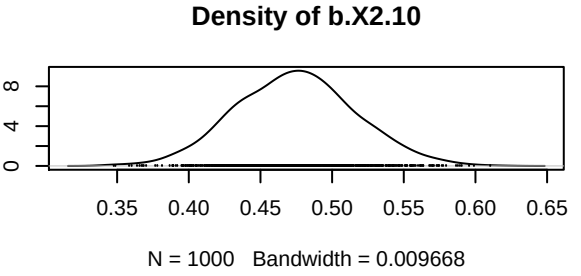

Trace of b.X1.9
−0.1
0.2
1000
1200
1400
1600
1800
2000
Iterations

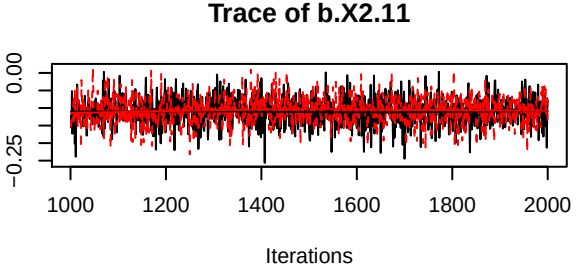

Density of b.X1.9
0
2
4
6
−0.1
0.0
0.1
0.2
0.3
0.4
N = 1000 Bandwidth = 0.01537

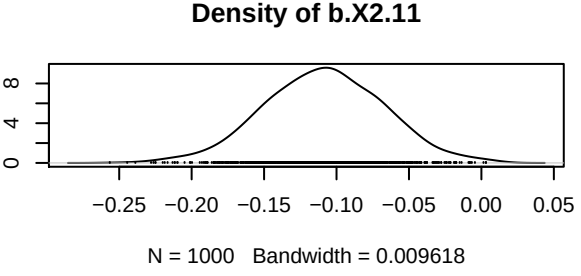

Trace of b.X2.1
0.20
0.40
1000
1200
1400
1600
1800
2000
Iterations

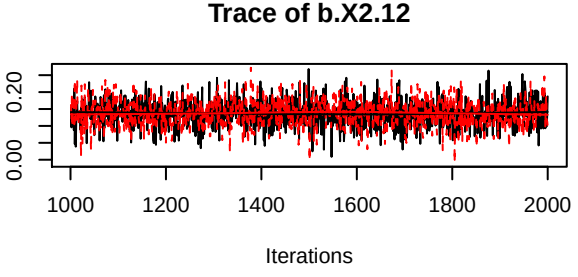

Density of b.X2.1
0
4
8
0.20
0.25
0.30
0.35
0.40
0.45
0.50
N = 1000 Bandwidth = 0.009319

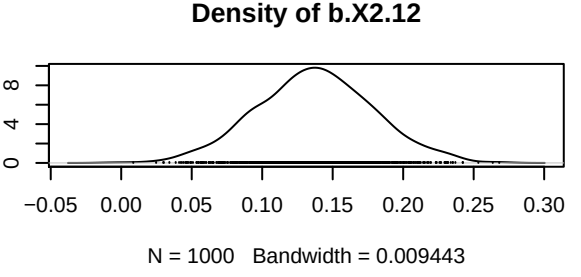

Trace of b.X2.10
0.35
0.55
1000
1200
1400
1600
1800
2000
Iterations

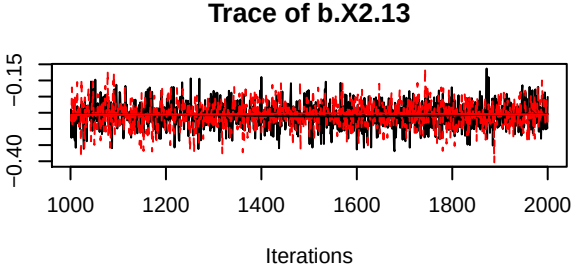

Density of b.X2.10
0
4
8
0.35
0.40
0.45
0.50
0.55
0.60
0.65
N = 1000 Bandwidth = 0.009668

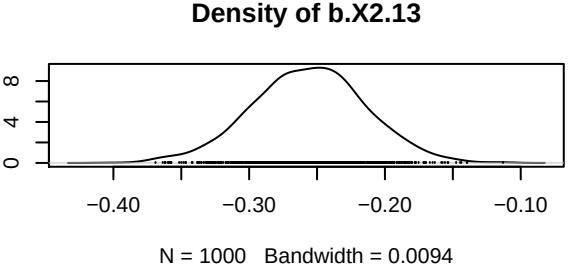

Trace of b.X2.11
−0.25
0.00
1000
1200
1400
1600
1800
2000
Iterations

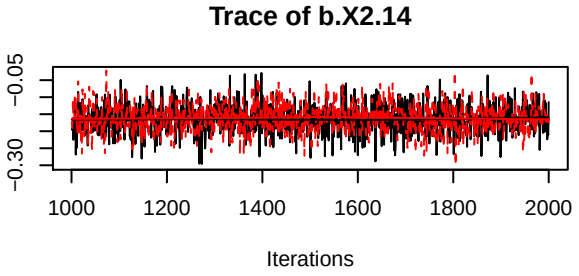

Density of b.X2.11
0
4
8
−0.25
−0.20
−0.15
−0.10
−0.05
0.00
0.05
N = 1000 Bandwidth = 0.009618

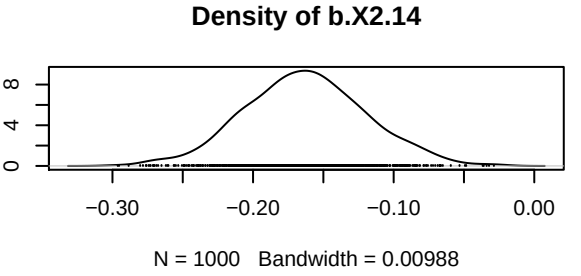

Trace of b.X2.12
0.00
0.20
1000
1200
1400
1600
1800
2000
Iterations

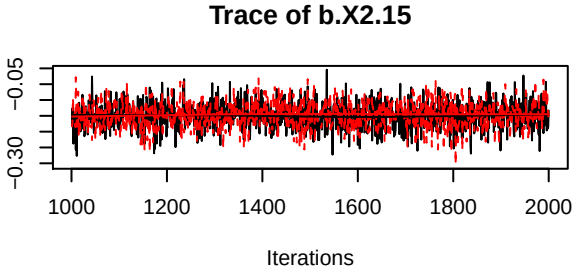

Density of b.X2.12
0
4
8
−0.05
0.00
0.05
0.10
0.15
0.20
0.25
0.30
N = 1000 Bandwidth = 0.009443

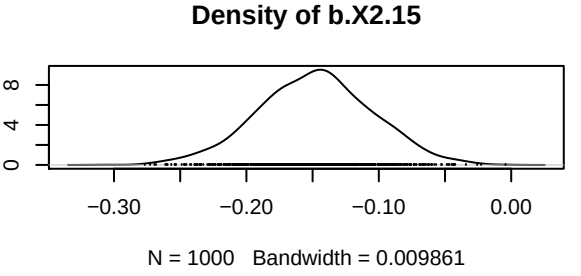

Trace of b.X2.13
−0.40
−0.15
1000
1200
1400
1600
1800
2000
Iterations

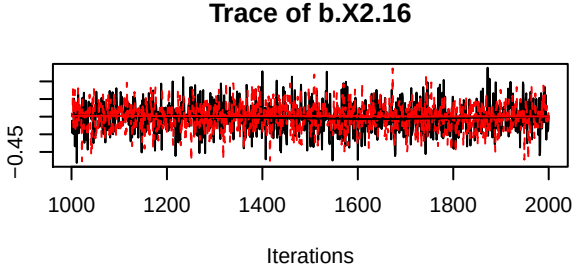

Density of b.X2.13
0
4
8
−0.40
−0.30
−0.20
−0.10
N = 1000 Bandwidth = 0.0094

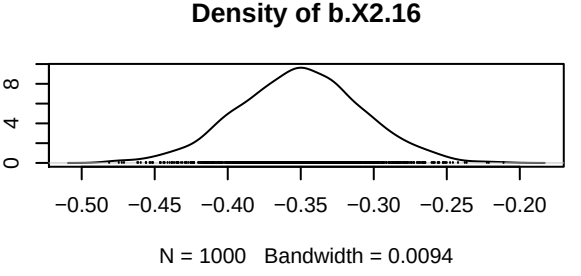

Trace of b.X2.14
−0.05
−0.30
1000
1200
1400
1600
1800
2000
Iterations

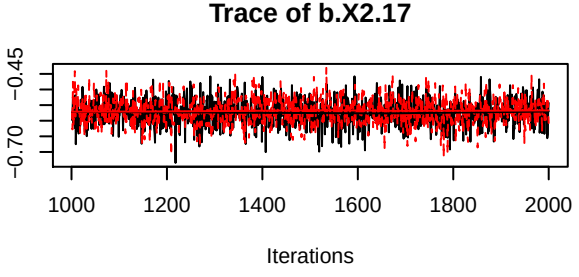

Density of b.X2.14
0
4
8
−0.30
−0.20
−0.10
0.00
N = 1000 Bandwidth = 0.00988

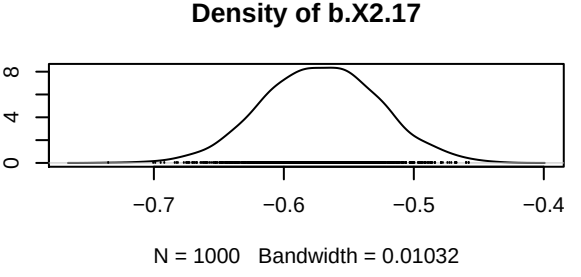

Trace of b.X2.15
−0.05
−0.30
1000
1200
1400
1600
1800
2000
Iterations

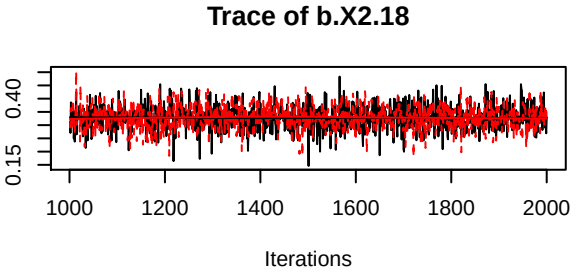

Density of b.X2.15
0
4
8
−0.30
−0.20
−0.10
0.00
N = 1000 Bandwidth = 0.009861

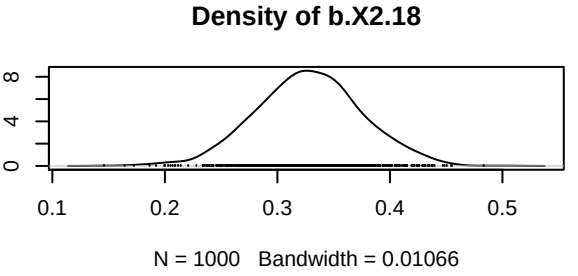

Trace of b.X2.16
−0.45
1000
1200
1400
1600
1800
2000
Iterations

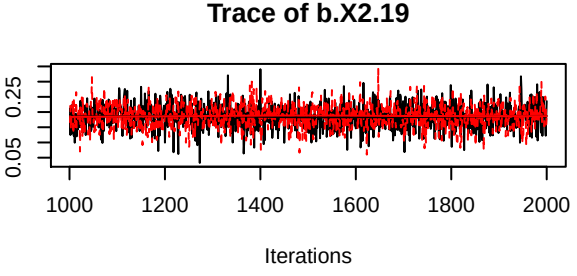

Density of b.X2.16
0
4
8
−0.50
−0.45
−0.40
−0.35
−0.30
−0.25
−0.20
N = 1000 Bandwidth = 0.0094

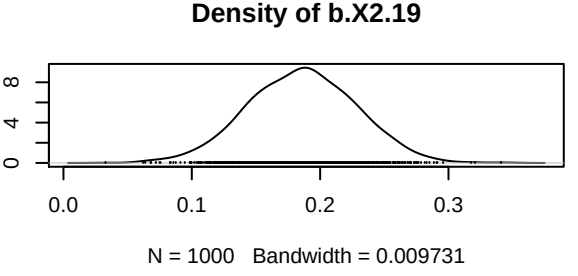

Trace of b.X2.17
−0.45
−0.70
1000
1200
1400
1600
1800
2000
Iterations

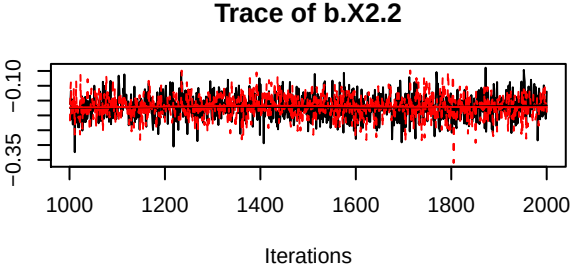

Density of b.X2.17
0
4
8
−0.7
−0.6
−0.5
−0.4
N = 1000 Bandwidth = 0.01032

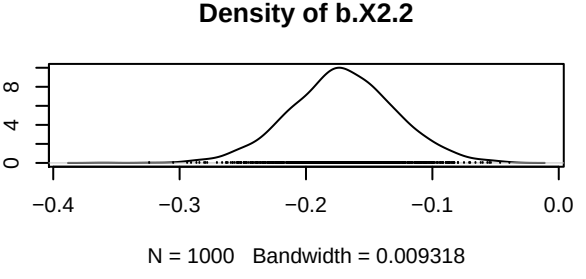

Trace of b.X2.18
0.15
0.40
1000
1200
1400
1600
1800
2000
Iterations

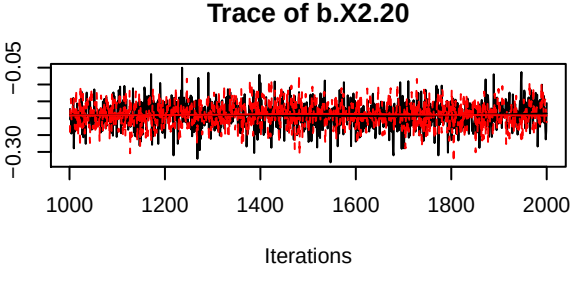

Density of b.X2.18
0
4
8
0.1
0.2
0.3
0.4
0.5
N = 1000 Bandwidth = 0.01066

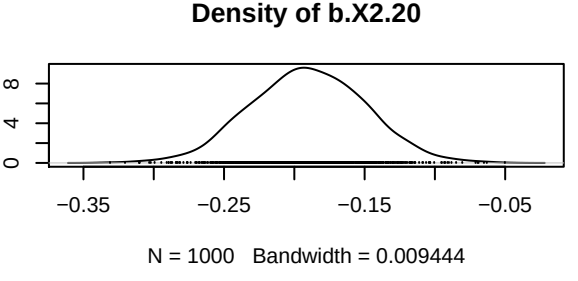

Trace of b.X2.19
0.05
0.25
1000
1200
1400
1600
1800
2000
Iterations

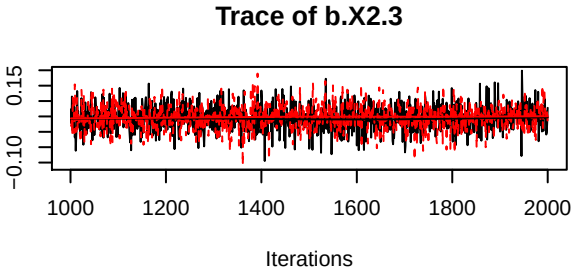

Density of b.X2.19
0
4
8
0.0
0.1
0.2
0.3
N = 1000 Bandwidth = 0.009731

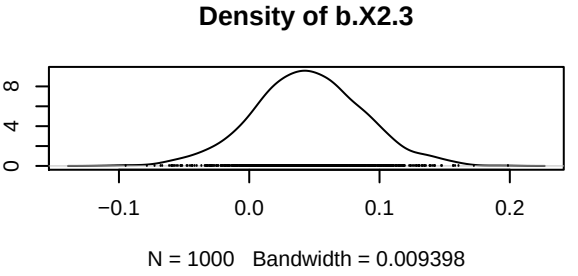

Trace of b.X2.2
−0.35
−0.10
1000
1200
1400
1600
1800
2000
Iterations

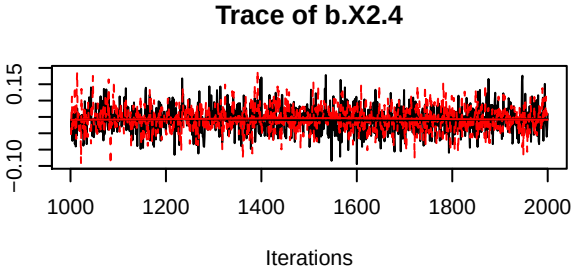

Density of b.X2.2
0
4
8
−0.4
−0.3
−0.2
−0.1
0.0
N = 1000 Bandwidth = 0.009318

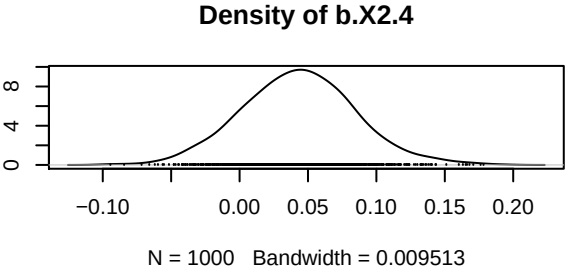

Trace of b.X2.20
−0.30
−0.05
1000
1200
1400
1600
1800
2000
Iterations

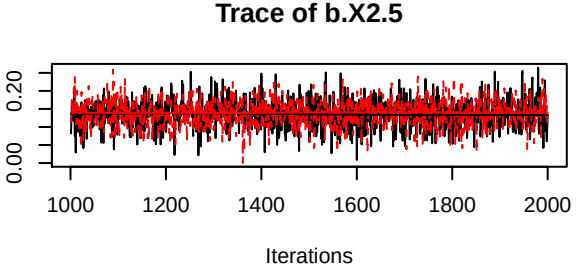

Density of b.X2.20
0
4
8
−0.35
−0.25
−0.15
−0.05
N = 1000 Bandwidth = 0.009444

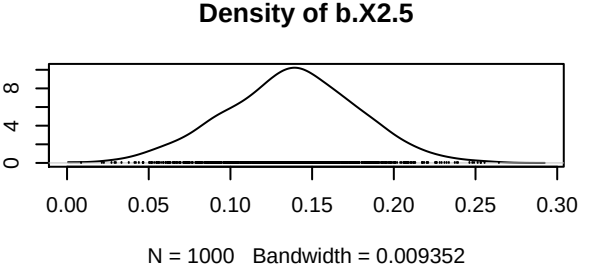

Trace of b.X2.3
−0.10
0.15
1000
1200
1400
1600
1800
2000
Iterations

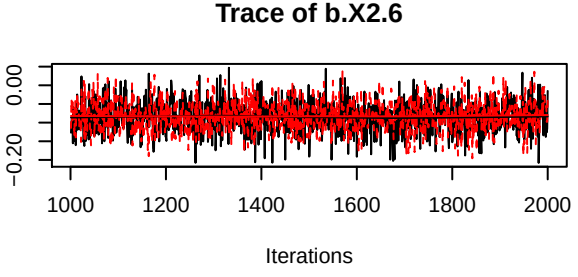

Density of b.X2.3
0
4
8
−0.1
0.0
0.1
0.2
N = 1000 Bandwidth = 0.009398

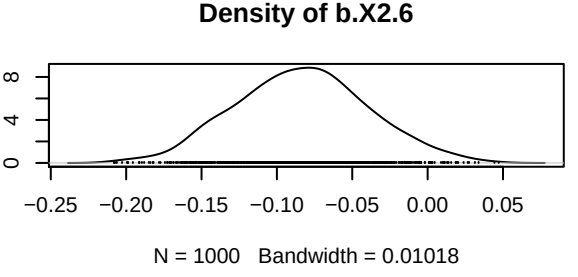

Trace of b.X2.4
−0.10
0.15
1000
1200
1400
1600
1800
2000
Iterations

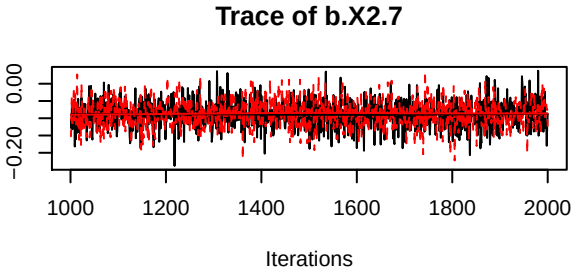

Density of b.X2.4
0
4
8
−0.10
0.00
0.05
0.10
0.15
0.20
N = 1000 Bandwidth = 0.009513

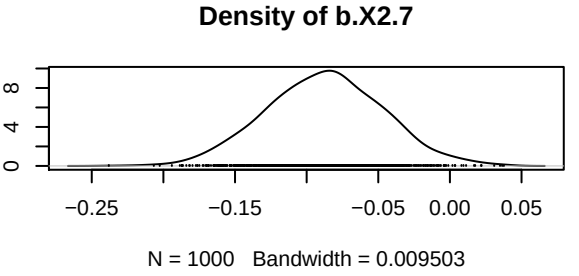

Trace of b.X2.5
0.00
0.20
1000
1200
1400
1600
1800
2000
Iterations

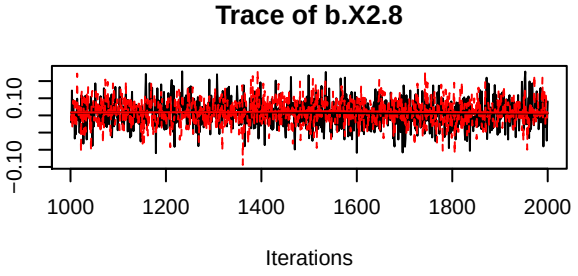

Density of b.X2.5
0
4
8
0.00
0.05
0.10
0.15
0.20
0.25
0.30
N = 1000 Bandwidth = 0.009352

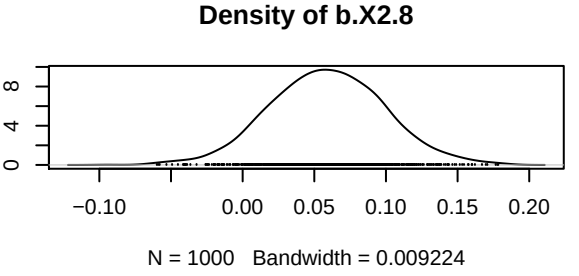

Trace of b.X2.6
−0.20
0.00
1000
1200
1400
1600
1800
2000
Iterations

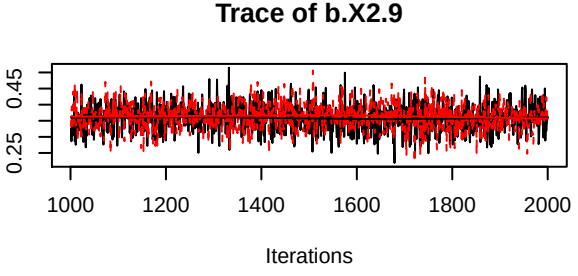

Density of b.X2.6
0
4
8
−0.25
−0.20
−0.15
−0.10
−0.05
0.00
0.05
N = 1000 Bandwidth = 0.01018

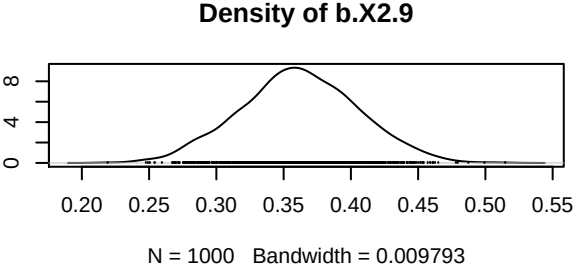

Trace of b.X2.7
−0.20
0.00
1000
1200
1400
1600
1800
2000
Iterations

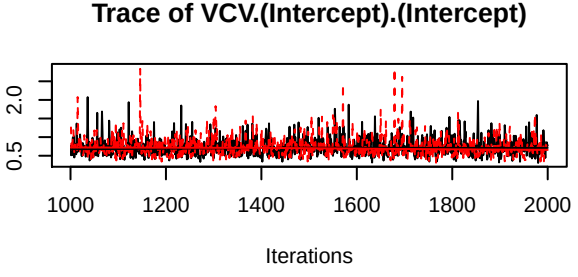

Density of b.X2.7
0
4
8
−0.25
−0.15
−0.05
0.00
0.05
N = 1000 Bandwidth = 0.009503

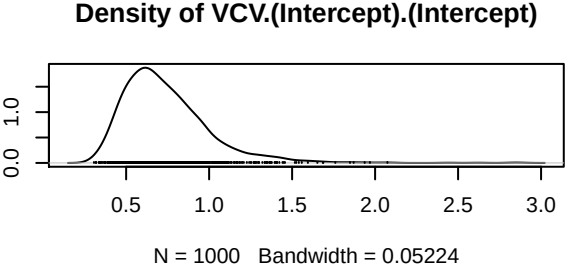

Trace of b.X2.8
−0.10
0.10
1000
1200
1400
1600
1800
2000
Iterations

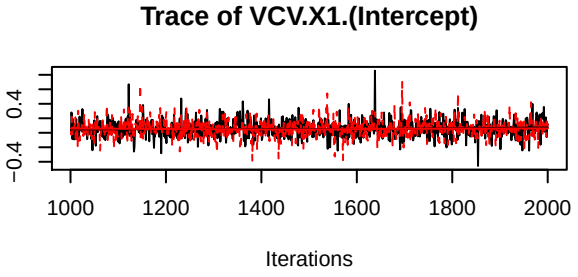

Density of b.X2.8
0
4
8
−0.10
0.00
0.05
0.10
0.15
0.20
N = 1000 Bandwidth = 0.009224

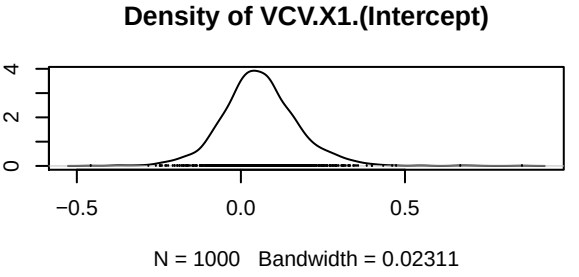

Trace of b.X2.9
0.25
0.45
1000
1200
1400
1600
1800
2000
Iterations

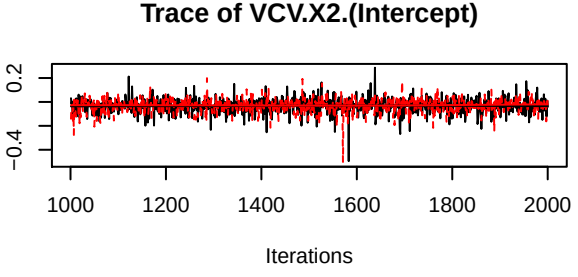

Density of b.X2.9
0
4
8
0.20
0.25
0.30
0.35
0.40
0.45
0.50
0.55
N = 1000 Bandwidth = 0.009793

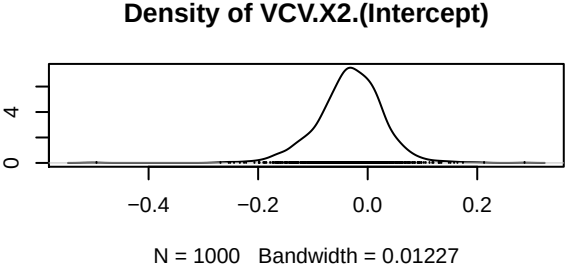

Trace of VCV.(Intercept).(Intercept)
0.5
2.0
1000
1200
1400
1600
1800
2000
Iterations

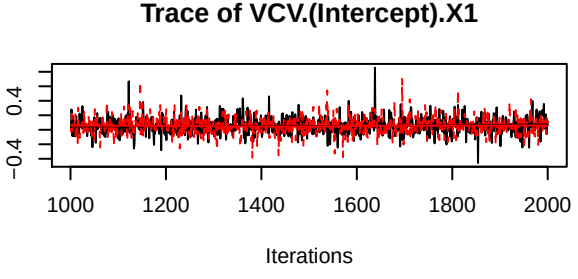

Density of VCV.(Intercept).(Intercept)
0.0
1.0
0.5
1.0
1.5
2.0
2.5
3.0
N = 1000 Bandwidth = 0.05224

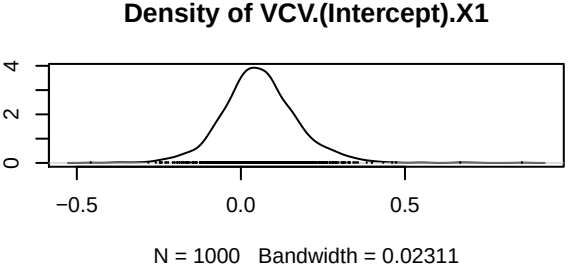

Trace of VCV.X1.(Intercept)
−0.4
0.4
1000
1200
1400
1600
1800
2000
Iterations

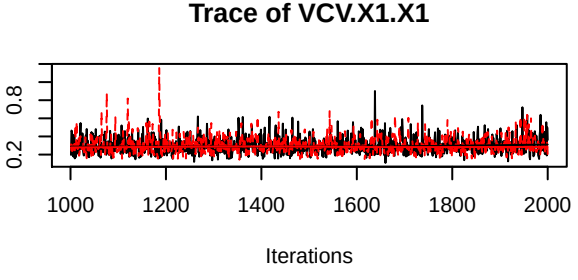

Density of VCV.X1.(Intercept)
0
2
4
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.02311

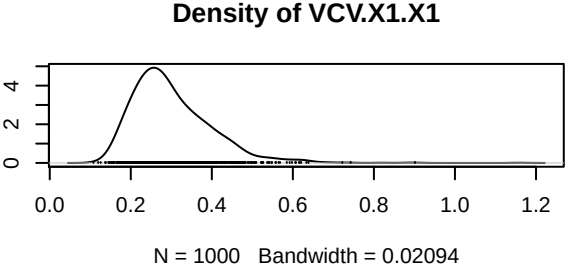

Trace of VCV.X2.(Intercept)
−0.4
0.2
1000
1200
1400
1600
1800
2000
Iterations

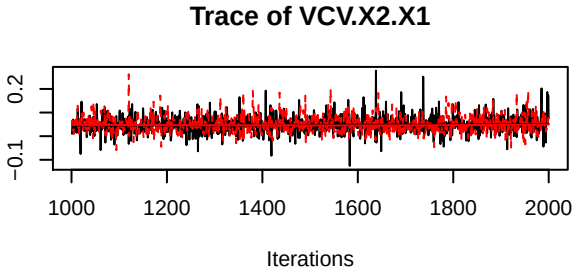

Density of VCV.X2.(Intercept)
0
4
−0.4
−0.2
0.0
0.2
N = 1000 Bandwidth = 0.01227

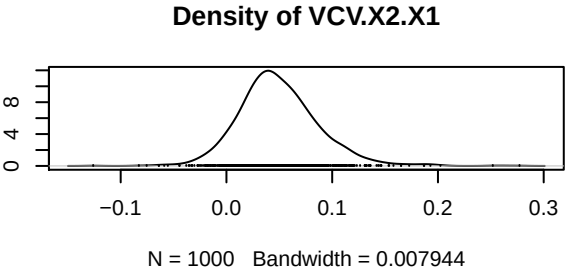

Trace of VCV.(Intercept).X1
−0.4
0.4
1000
1200
1400
1600
1800
2000
Iterations

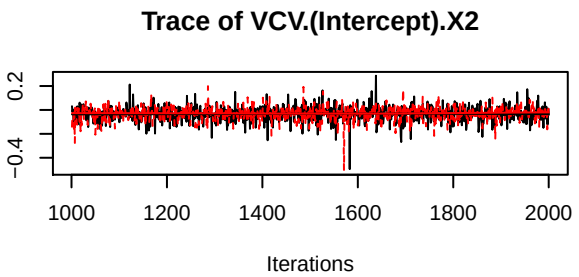

Density of VCV.(Intercept).X1
0
2
4
−0.5
0.0
0.5
N = 1000 Bandwidth = 0.02311

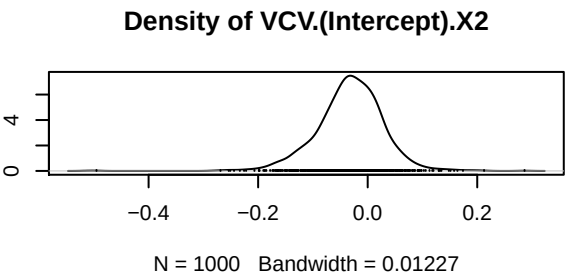

Trace of VCV.X1.X1
0.2
0.8
1000
1200
1400
1600
1800
2000
Iterations

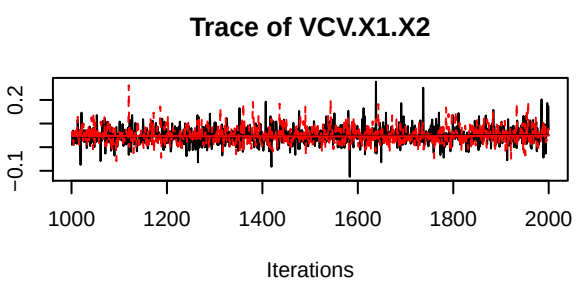

Density of VCV.X1.X1
0
2
4
0.0
0.2
0.4
0.6
0.8
1.0
1.2
N = 1000 Bandwidth = 0.02094

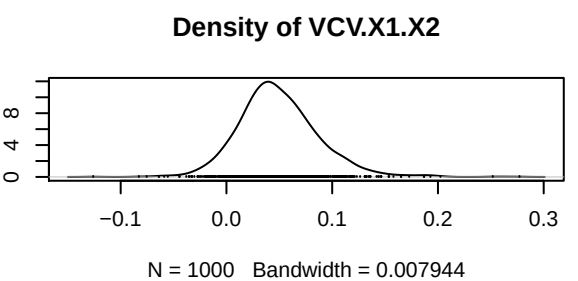

Trace of VCV.X2.X1
−0.1
0.2
1000
1200
1400
1600
1800
2000
Iterations

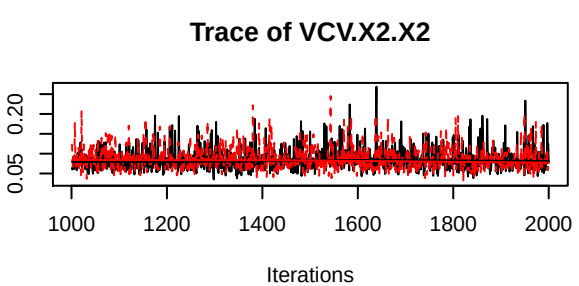

Density of VCV.X2.X1
0
4
8
−0.1
0.0
0.1
0.2
0.3
N = 1000 Bandwidth = 0.007944

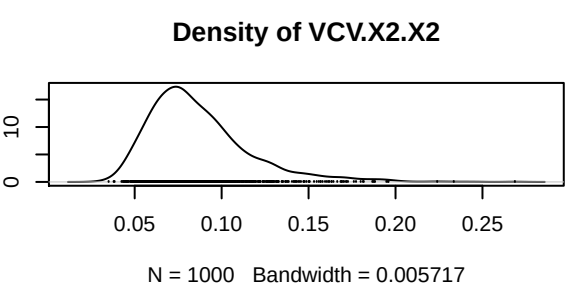

Trace of VCV.(Intercept).X2
−0.4
0.2
1000
1200
1400
1600
1800
2000
Iterations

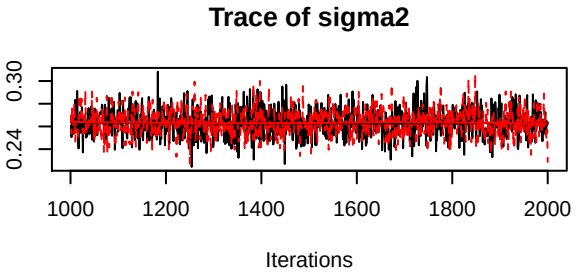

Density of VCV.(Intercept).X2
0
4
−0.4
−0.2
0.0
0.2
N = 1000 Bandwidth = 0.01227

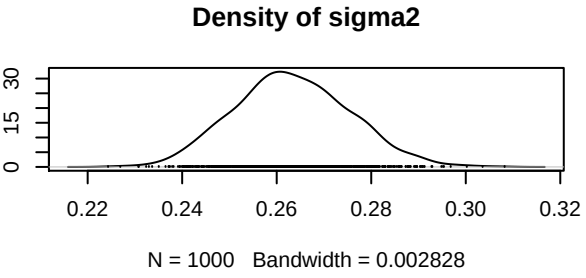

Trace of VCV.X1.X2
−0.1
0.2
1000
1200
1400
1600
1800
2000
Iterations

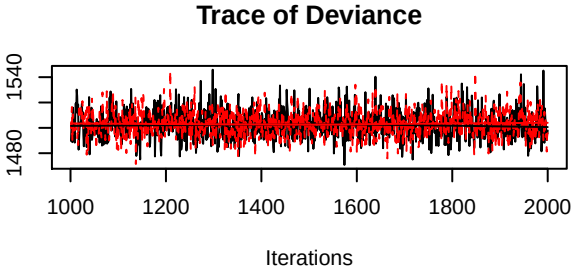

Density of VCV.X1.X2
0
4
8
−0.1
0.0
0.1
0.2
0.3
N = 1000 Bandwidth = 0.007944

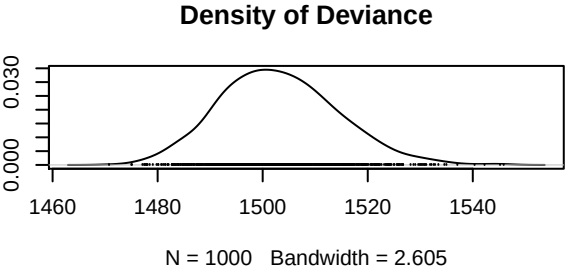

Trace of VCV.X2.X2
0.05
0.20
1000
1200
1400
1600
1800
2000
Iterations


Density of VCV.X2.X2
0
10
0.05
0.10
0.15
0.20
0.25
N = 1000 Bandwidth = 0.005717


Trace of sigma2
0.24
0.30
1000
1200
1400
1600
1800
2000
Iterations


Density of sigma2
0
15
30
0.22
0.24
0.26
0.28
0.30
0.32
N = 1000 Bandwidth = 0.002828


Trace of Deviance
1480
1540
1000
1200
1400
1600
1800
2000
Iterations


Density of Deviance
0.000
0.030
1460
1480
1500
1520
1540
N = 1000 Bandwidth = 2.605