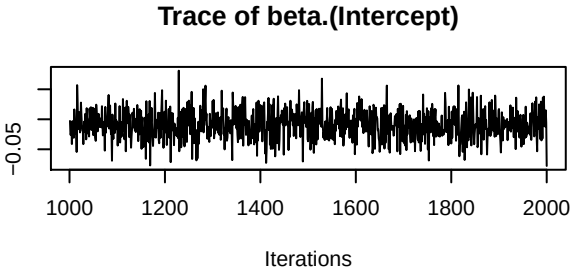
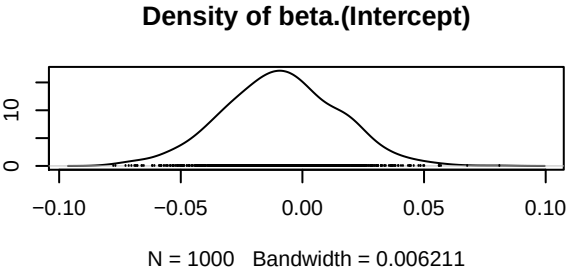
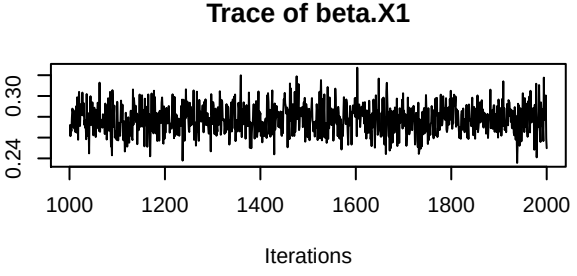
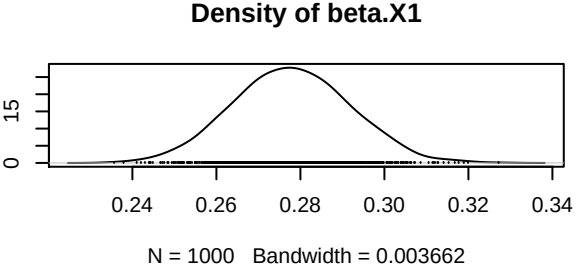
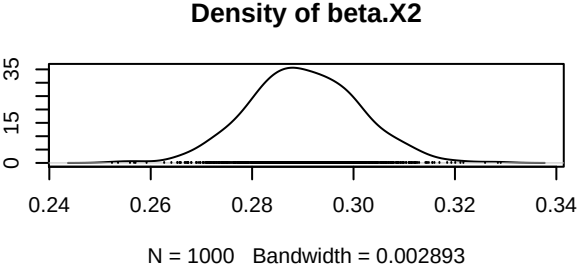

Trace of beta.(Intercept)
−0.05
1000
1200
1400
1600
1800
2000
Iterations

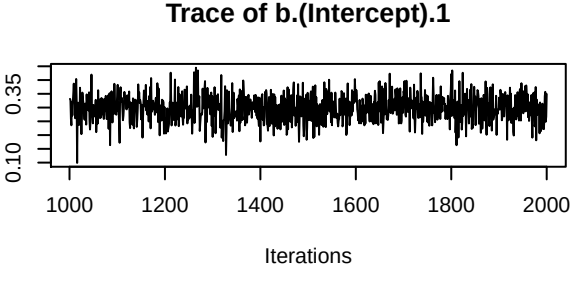

Density of beta.(Intercept)
0
10
−0.10
−0.05
0.00
0.05
0.10
N = 1000 Bandwidth = 0.006211

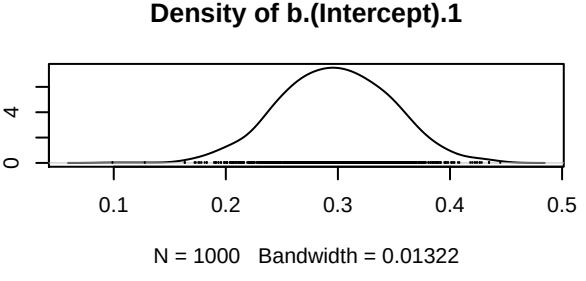

Trace of beta.X1
0.24
0.30
1000
1200
1400
1600
1800
2000
Iterations

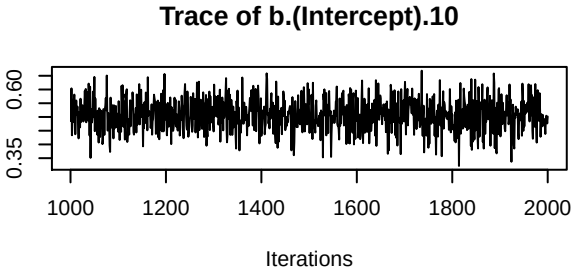

Density of beta.X1
0
15
0.24
0.26
0.28
0.30
0.32
0.34
N = 1000 Bandwidth = 0.003662

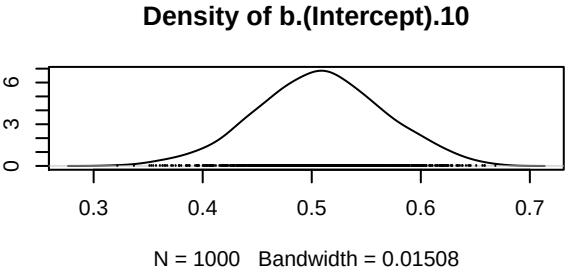
Trace of beta.X2
0.26
0.32
1000
1200
1400
1600
1800
2000
Iterations

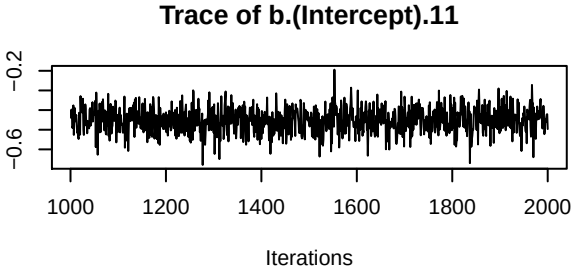

Density of beta.X2
0
15
35
0.24
0.26
0.28
0.30
0.32
0.34
N = 1000 Bandwidth = 0.002893

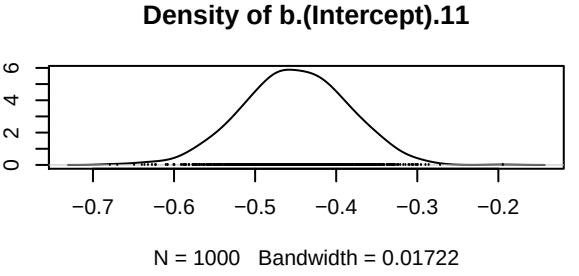

Trace of b.(Intercept).1
0.10
0.35
1000
1200
1400
1600
1800
2000
Iterations

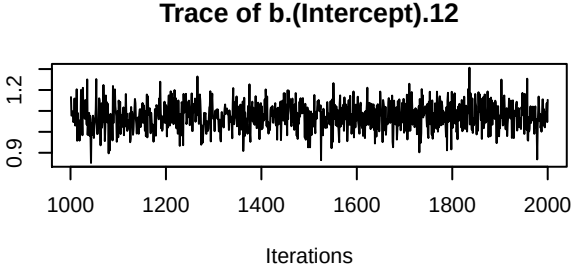

Density of b.(Intercept).1
0
4
0.1
0.2
0.3
0.4
0.5
N = 1000 Bandwidth = 0.01322

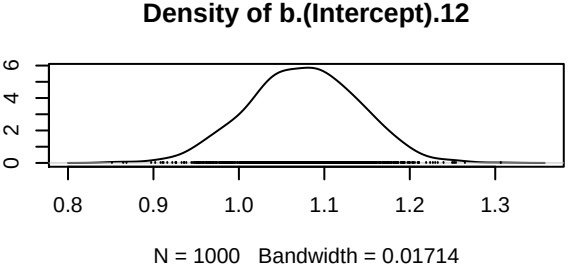

Trace of b.(Intercept).10
0.35
0.60
1000
1200
1400
1600
1800
2000
Iterations

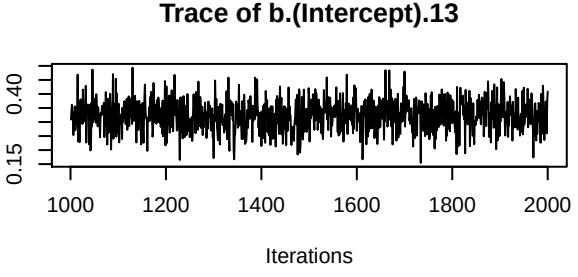

Density of b.(Intercept).10
0
3
6
0.3
0.4
0.5
0.6
0.7
N = 1000 Bandwidth = 0.01508

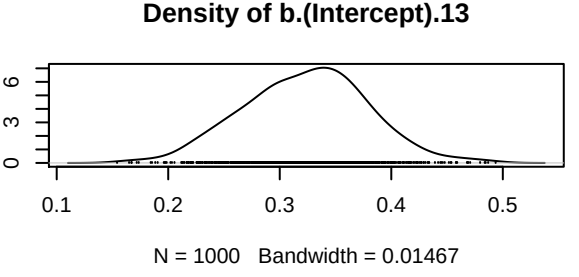

Trace of b.(Intercept).11
−0.6
−0.2
1000
1200
1400
1600
1800
2000
Iterations

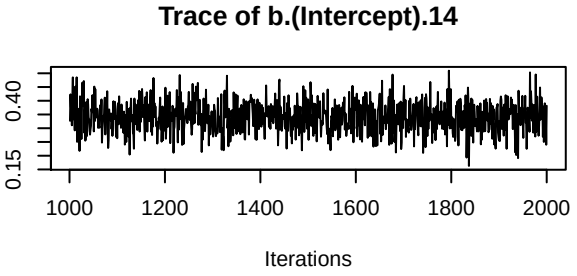

Density of b.(Intercept).11
0
2
4
6
−0.7
−0.6
−0.5
−0.4
−0.3
−0.2
N = 1000 Bandwidth = 0.01722

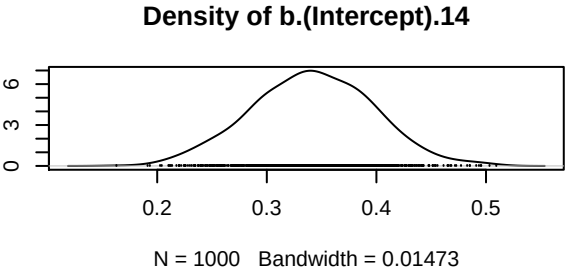

Trace of b.(Intercept).12
0.9
1.2
1000
1200
1400
1600
1800
2000
Iterations

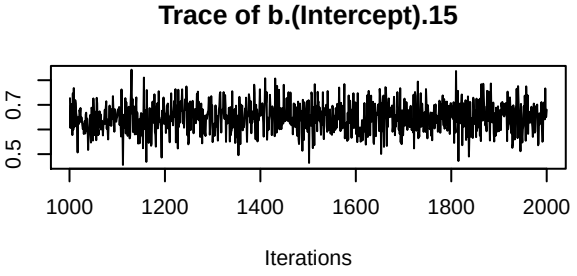

Density of b.(Intercept).12
0
2
4
6
0.8
0.9
1.0
1.1
1.2
1.3
N = 1000 Bandwidth = 0.01714

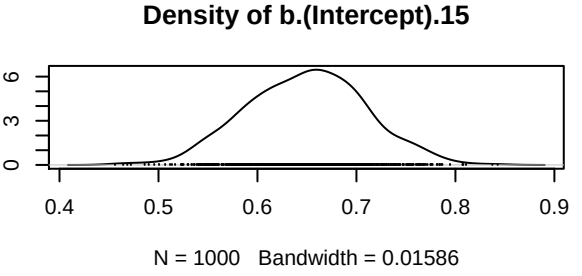

Trace of b.(Intercept).13
0.15
0.40
1000
1200
1400
1600
1800
2000
Iterations

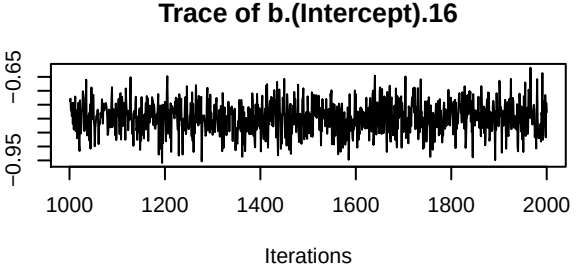

Density of b.(Intercept).13
0
3
6
0.1
0.2
0.3
0.4
0.5
N = 1000 Bandwidth = 0.01467

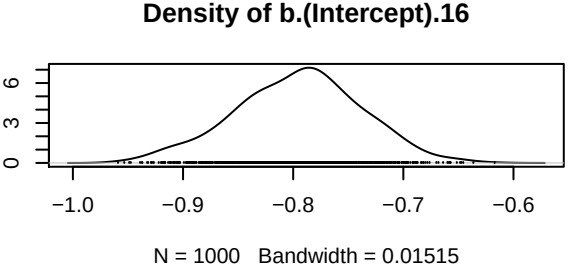

Trace of b.(Intercept).14
0.15
0.40
1000
1200
1400
1600
1800
2000
Iterations

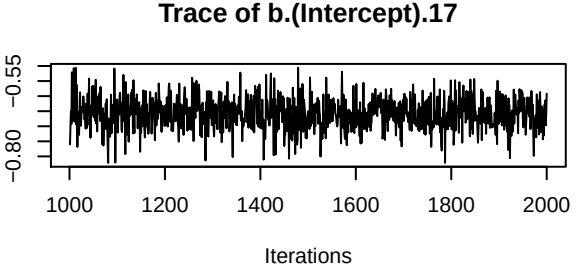

Density of b.(Intercept).14
0
3
6
0.2
0.3
0.4
0.5
N = 1000 Bandwidth = 0.01473

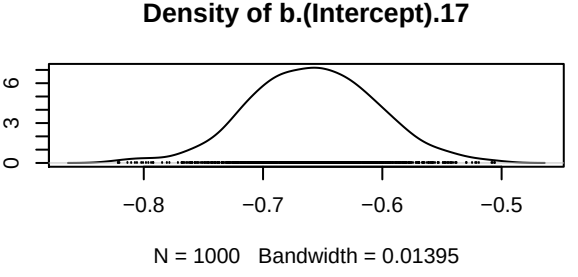

Trace of b.(Intercept).15
0.5
0.7
1000
1200
1400
1600
1800
2000
Iterations

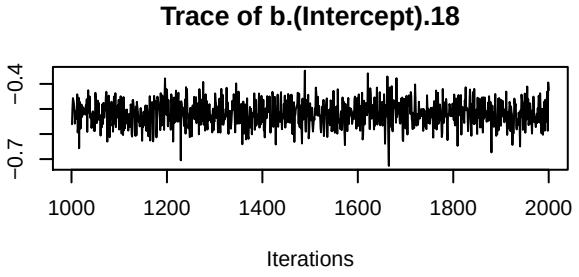

Density of b.(Intercept).15
0
3
6
0.4
0.5
0.6
0.7
0.8
0.9
N = 1000 Bandwidth = 0.01586

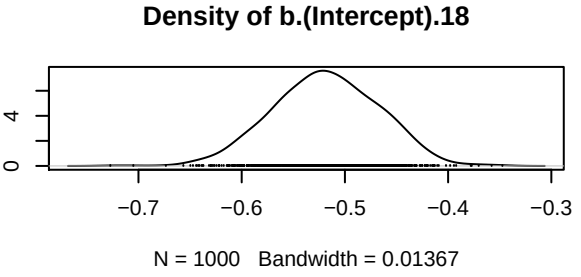

Trace of b.(Intercept).16
−0.95
−0.65
1000
1200
1400
1600
1800
2000
Iterations

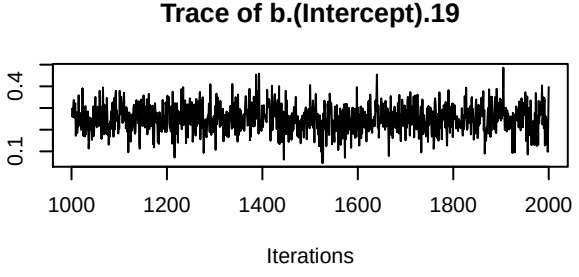

Density of b.(Intercept).16
0
3
6
−1.0
−0.9
−0.8
−0.7
−0.6
N = 1000 Bandwidth = 0.01515

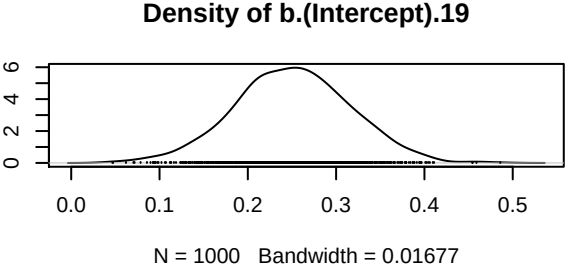

Trace of b.(Intercept).17
−0.80
−0.55
1000
1200
1400
1600
1800
2000
Iterations

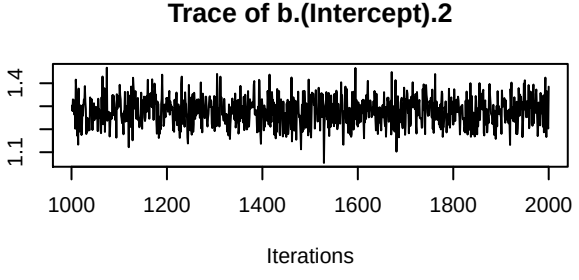

Density of b.(Intercept).17
0
3
6
−0.8
−0.7
−0.6
−0.5
N = 1000 Bandwidth = 0.01395

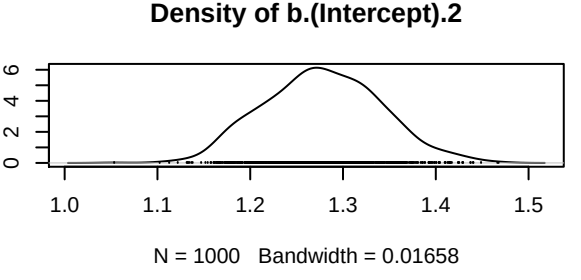

Trace of b.(Intercept).18
−0.4
−0.7
1000
1200
1400
1600
1800
2000
Iterations

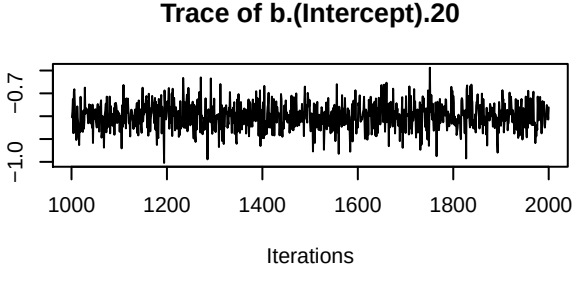

Density of b.(Intercept).18
0
4
−0.7
−0.6
−0.5
−0.4
−0.3
N = 1000 Bandwidth = 0.01367

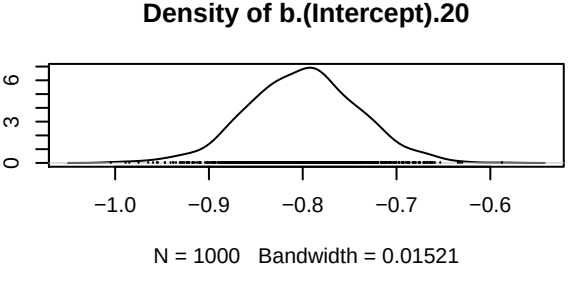

Trace of b.(Intercept).19
0.4
0.1
1000
1200
1400
1600
1800
2000
Iterations

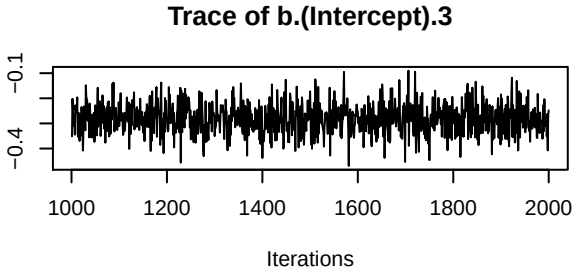

Density of b.(Intercept).19
0
2
4
6
0.0
0.1
0.2
0.3
0.4
0.5
N = 1000 Bandwidth = 0.01677

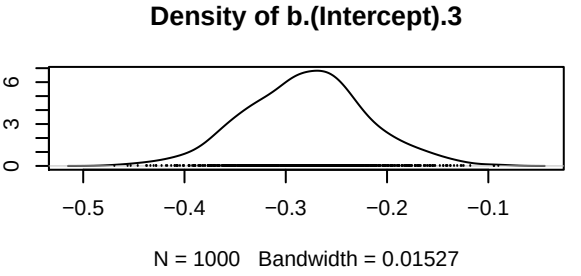

Trace of b.(Intercept).2
1.4
1.1
1000
1200
1400
1600
1800
2000
Iterations

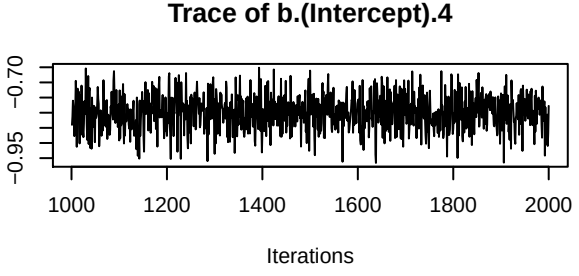

Density of b.(Intercept).2
0
2
4
6
1.0
1.1
1.2
1.3
1.4
1.5
N = 1000 Bandwidth = 0.01658

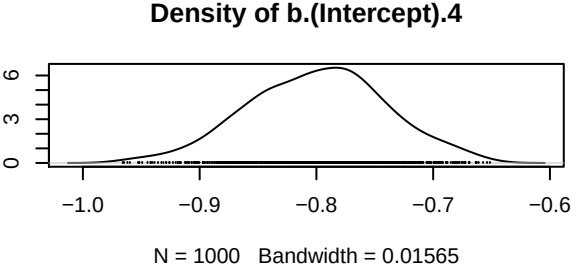

Trace of b.(Intercept).20
−0.7
−1.0
1000
1200
1400
1600
1800
2000
Iterations

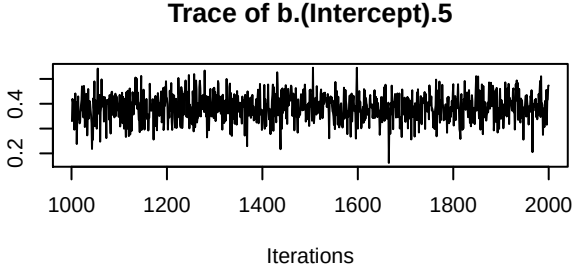

Density of b.(Intercept).20
0
3
6
−1.0
−0.9
−0.8
−0.7
−0.6
N = 1000 Bandwidth = 0.01521

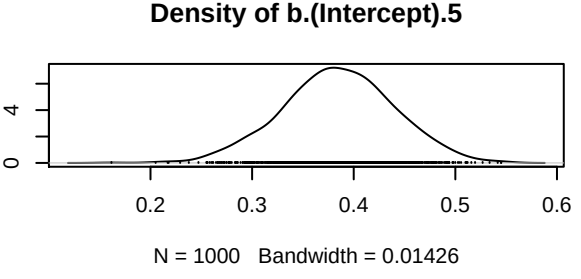

Trace of b.(Intercept).3
−0.1
−0.4
1000
1200
1400
1600
1800
2000
Iterations

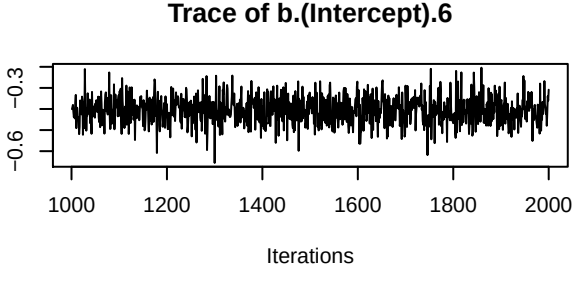

Density of b.(Intercept).3
6
3
0
−0.5
−0.4
−0.3
−0.2
−0.1
N = 1000 Bandwidth = 0.01527

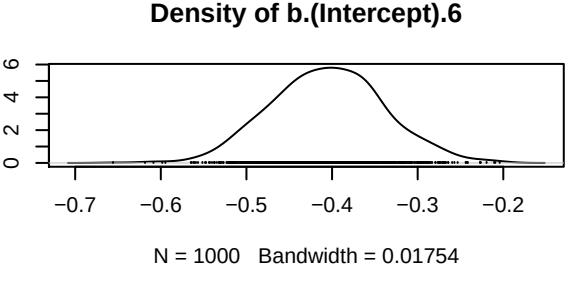

Trace of b.(Intercept).4
−0.70
−0.95
1000
1200
1400
1600
1800
2000
Iterations

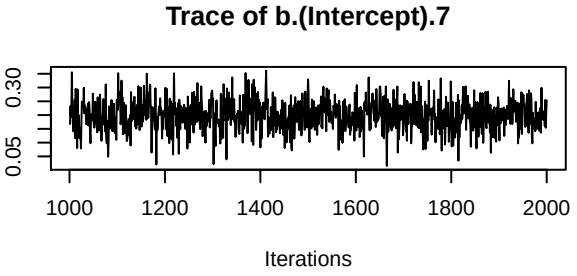

Density of b.(Intercept).4
6
3
0
−1.0
−0.9
−0.8
−0.7
−0.6
N = 1000 Bandwidth = 0.01565

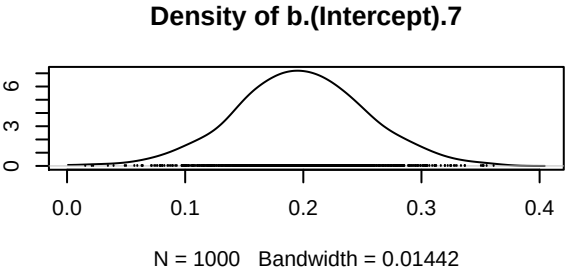

Trace of b.(Intercept).5
0.4
0.2
1000
1200
1400
1600
1800
2000
Iterations

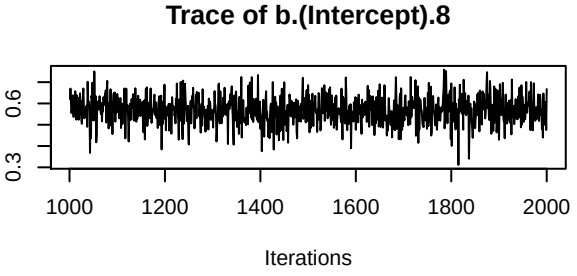

Density of b.(Intercept).5
4
0
0.2
0.3
0.4
0.5
0.6
N = 1000 Bandwidth = 0.01426

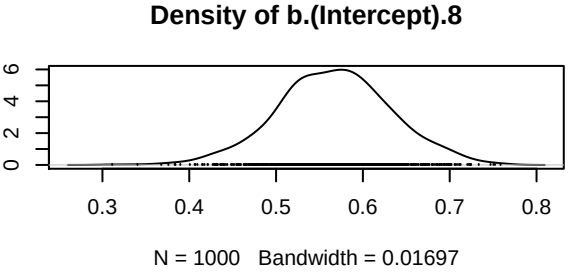

Trace of b.(Intercept).6
−0.3
−0.6
1000
1200
1400
1600
1800
2000
Iterations

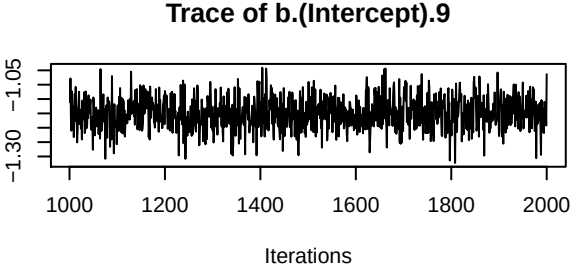

Density of b.(Intercept).6
6
4
2
0
−0.7
−0.6
−0.5
−0.4
−0.3
−0.2
N = 1000 Bandwidth = 0.01754

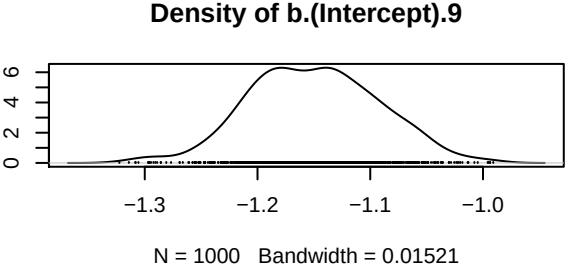

Trace of b.(Intercept).7
0.05
0.30
1000
1200
1400
1600
1800
2000
Iterations

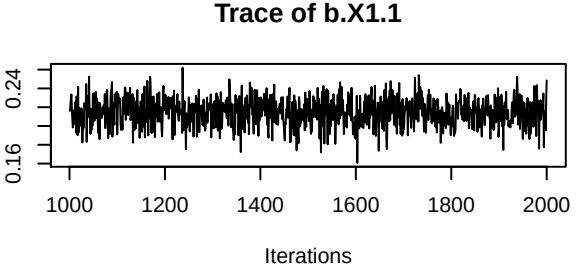

Density of b.(Intercept).7
0
3
6
0.0
0.1
0.2
0.3
0.4
N = 1000 Bandwidth = 0.01442

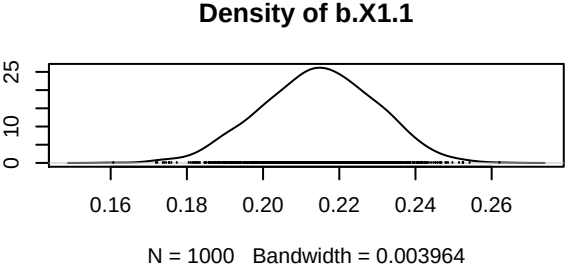

Trace of b.(Intercept).8
0.3
0.6
1000
1200
1400
1600
1800
2000
Iterations

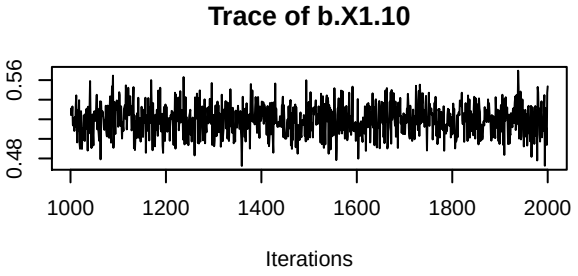

Density of b.(Intercept).8
0
2
4
6
0.3
0.4
0.5
0.6
0.7
0.8
N = 1000 Bandwidth = 0.01697

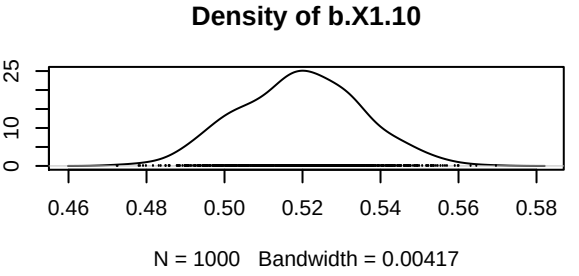

Trace of b.(Intercept).9
−1.30
−1.05
1000
1200
1400
1600
1800
2000
Iterations

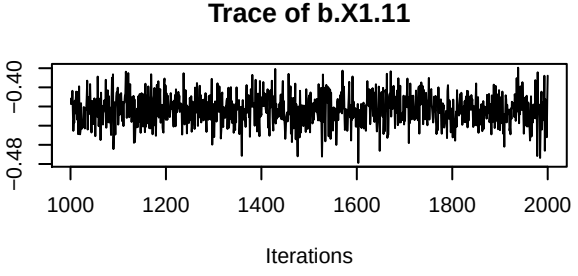

Density of b.(Intercept).9
0
2
4
6
−1.3
−1.2
−1.1
−1.0
N = 1000 Bandwidth = 0.01521

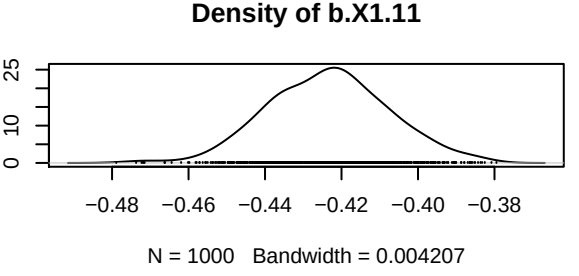

Trace of b.X1.1
0.16
0.24
1000
1200
1400
1600
1800
2000
Iterations

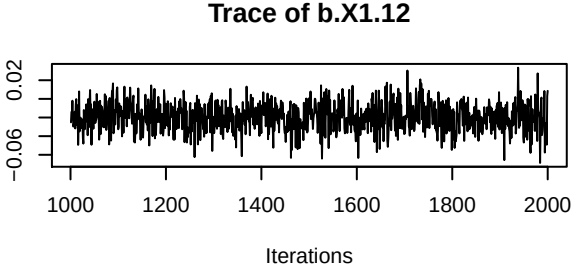

Density of b.X1.1
0
10
25
0.16
0.18
0.20
0.22
0.24
0.26
N = 1000 Bandwidth = 0.003964

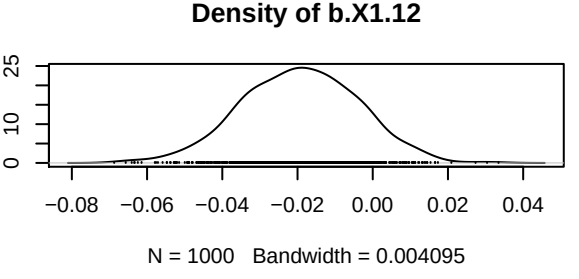

Trace of b.X1.10
0.48
0.56
1000
1200
1400
1600
1800
2000
Iterations

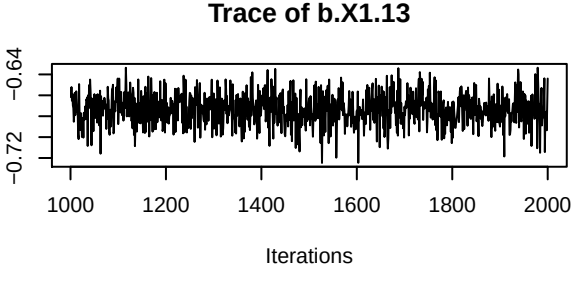

Density of b.X1.10
0
10
25
0.46
0.48
0.50
0.52
0.54
0.56
0.58
N = 1000 Bandwidth = 0.00417

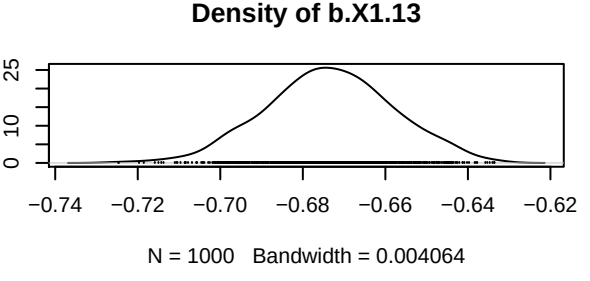

Trace of b.X1.11
−0.48
−0.40
1000
1200
1400
1600
1800
2000
Iterations

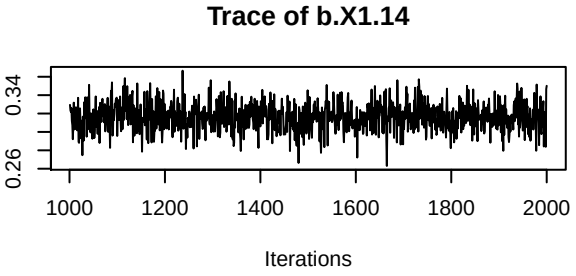

Density of b.X1.11
0
10
25
−0.48
−0.46
−0.44
−0.42
−0.40
−0.38
N = 1000 Bandwidth = 0.004207

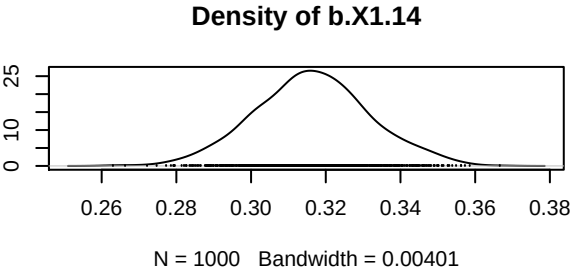

Trace of b.X1.12
−0.06
0.02
1000
1200
1400
1600
1800
2000
Iterations

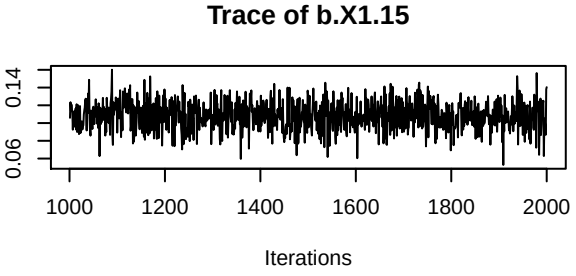

Density of b.X1.12
0
10
25
−0.08
−0.06
−0.04
−0.02
0.00
0.02
0.04
N = 1000 Bandwidth = 0.004095

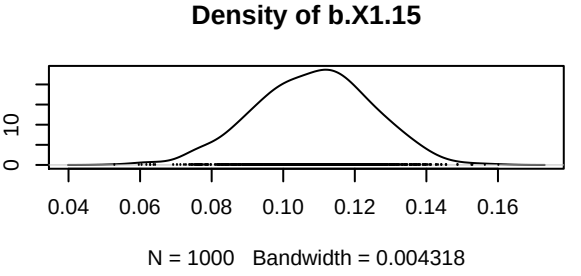

Trace of b.X1.13
−0.72
−0.64
1000
1200
1400
1600
1800
2000
Iterations

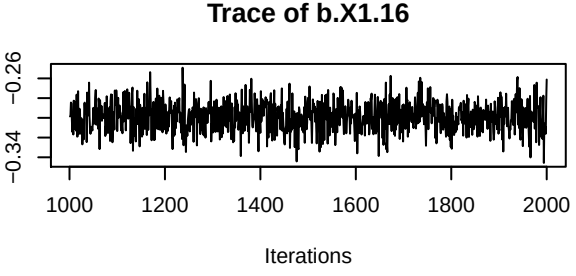

Density of b.X1.13
0
10
25
−0.74
−0.72
−0.70
−0.68
−0.66
−0.64
−0.62
N = 1000 Bandwidth = 0.004064

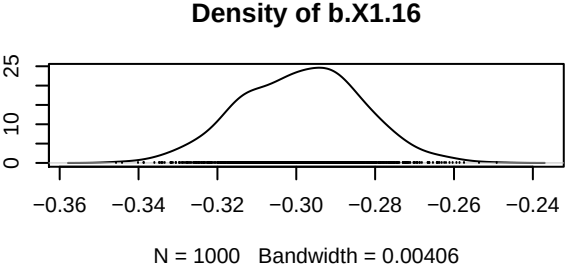

Trace of b.X1.14
0.26
0.34
1000
1200
1400
1600
1800
2000
Iterations

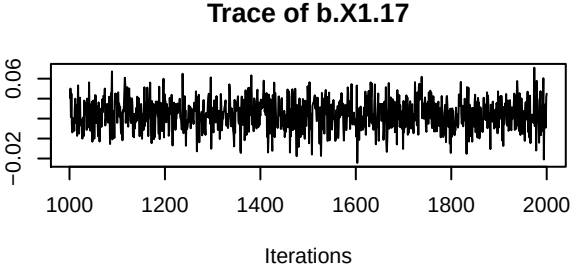

Density of b.X1.14
0
10
25
0.26
0.28
0.30
0.32
0.34
0.36
0.38
N = 1000 Bandwidth = 0.00401

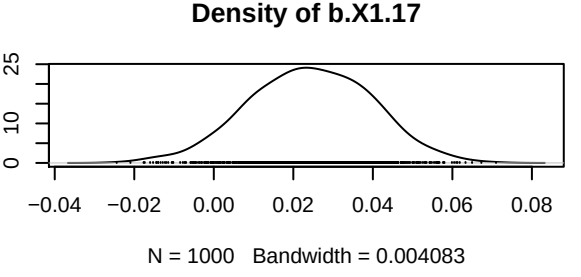

Trace of b.X1.15
0.06
0.14
1000
1200
1400
1600
1800
2000
Iterations

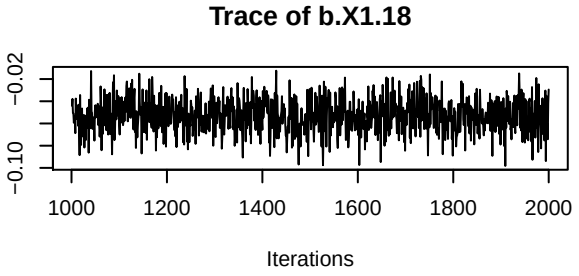

Density of b.X1.15
0
10
0.04
0.06
0.08
0.10
0.12
0.14
0.16
N = 1000 Bandwidth = 0.004318

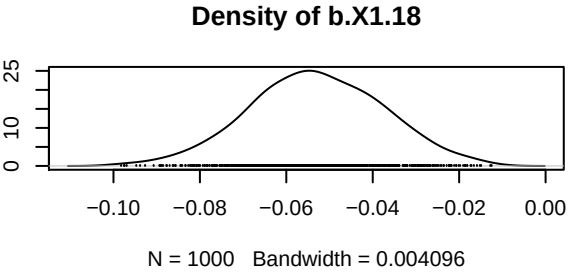

Trace of b.X1.16
−0.34
−0.26
1000
1200
1400
1600
1800
2000
Iterations

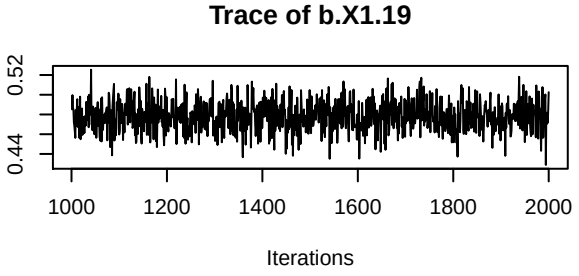

Density of b.X1.16
0
10
25
−0.36
−0.34
−0.32
−0.30
−0.28
−0.26
−0.24
N = 1000 Bandwidth = 0.00406

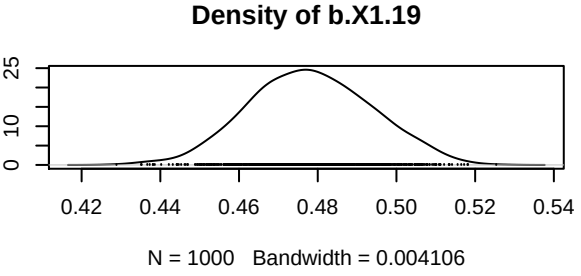

Trace of b.X1.17
−0.02
0.06
1000
1200
1400
1600
1800
2000
Iterations

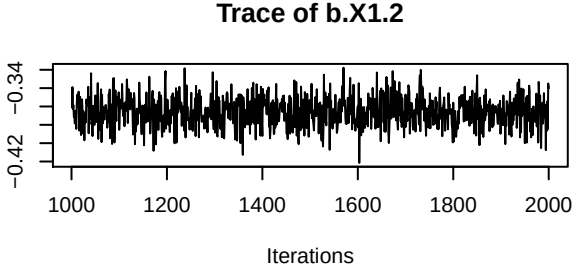

Density of b.X1.17
0
10
25
−0.04
−0.02
0.00
0.02
0.04
0.06
0.08
N = 1000 Bandwidth = 0.004083

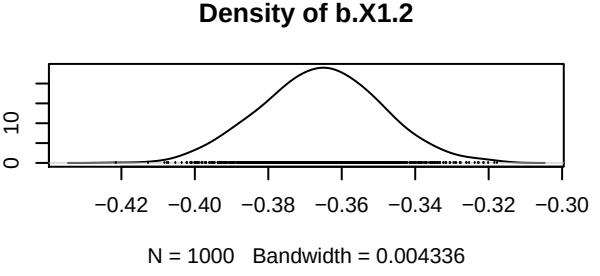

Trace of b.X1.18
−0.02
−0.10
1000
1200
1400
1600
1800
2000
Iterations

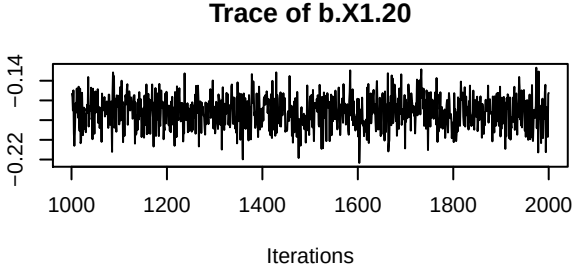

Density of b.X1.18
25
10
0
−0.10
−0.08
−0.06
−0.04
−0.02
0.00
N = 1000 Bandwidth = 0.004096

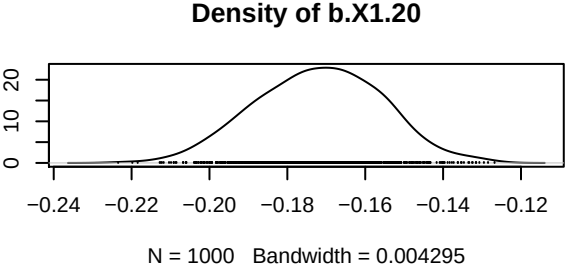

Trace of b.X1.19
0.52
0.44
1000
1200
1400
1600
1800
2000
Iterations

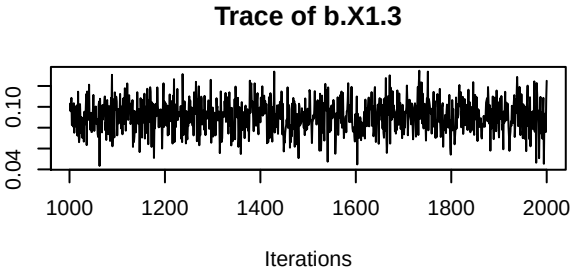

Density of b.X1.19
25
10
0
0.42
0.44
0.46
0.48
0.50
0.52
0.54
N = 1000 Bandwidth = 0.004106

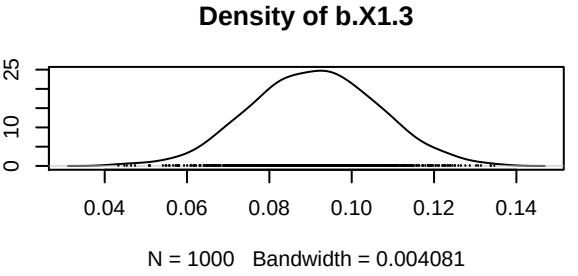

Trace of b.X1.2
−0.34
−0.42
1000
1200
1400
1600
1800
2000
Iterations

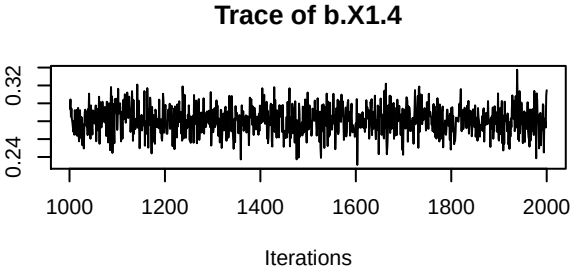

Density of b.X1.2
10
0
−0.42
−0.40
−0.38
−0.36
−0.34
−0.32
−0.30
N = 1000 Bandwidth = 0.004336

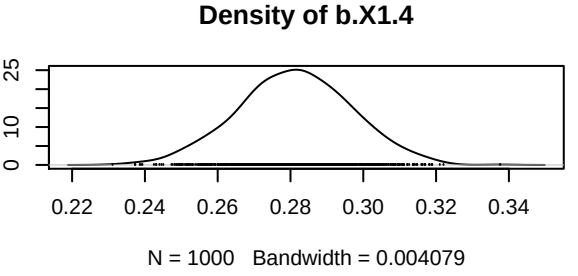

Trace of b.X1.20
−0.14
−0.22
1000
1200
1400
1600
1800
2000
Iterations

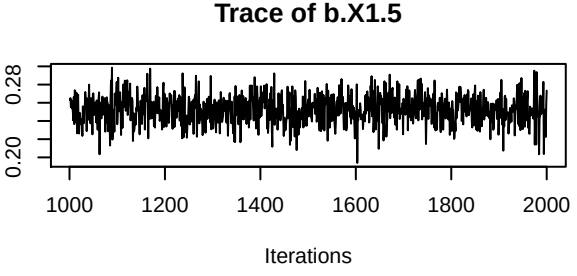

Density of b.X1.20
20
10
0
−0.24
−0.22
−0.20
−0.18
−0.16
−0.14
−0.12
N = 1000 Bandwidth = 0.004295

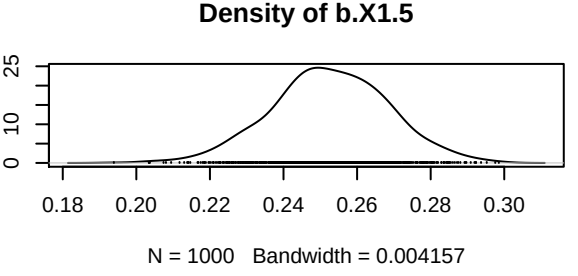

Trace of b.X1.3
0.04
0.10
1000
1200
1400
1600
1800
2000
Iterations

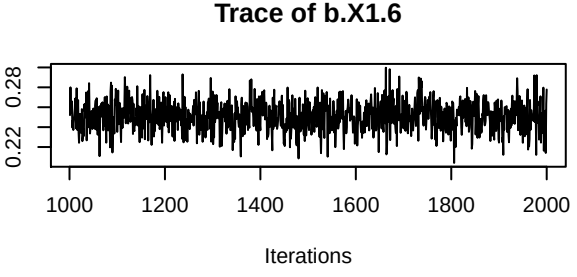

Density of b.X1.3
0
10
25
0.04
0.06
0.08
0.10
0.12
0.14
N = 1000 Bandwidth = 0.004081

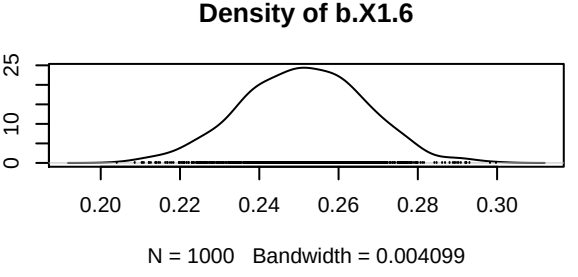

Trace of b.X1.4
0.24
0.32
1000
1200
1400
1600
1800
2000
Iterations

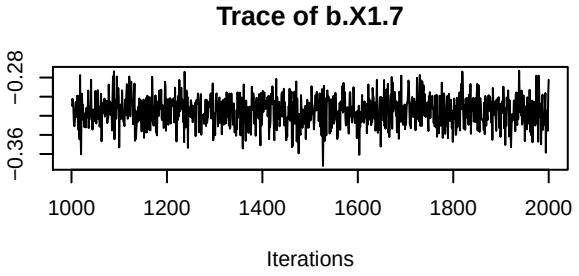

Density of b.X1.4
0
10
25
0.22
0.24
0.26
0.28
0.30
0.32
0.34
N = 1000 Bandwidth = 0.004079

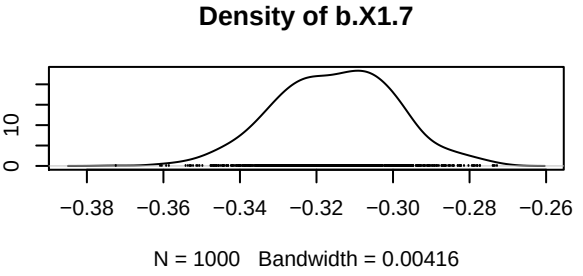

Trace of b.X1.5
0.20
0.28
1000
1200
1400
1600
1800
2000
Iterations

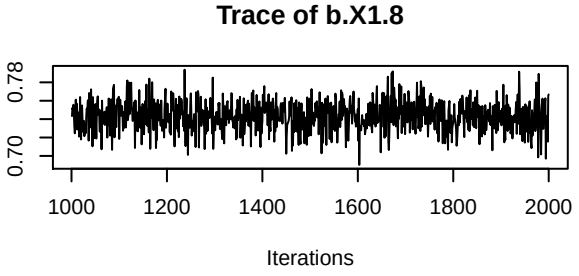

Density of b.X1.5
0
10
25
0.18
0.20
0.22
0.24
0.26
0.28
0.30
N = 1000 Bandwidth = 0.004157

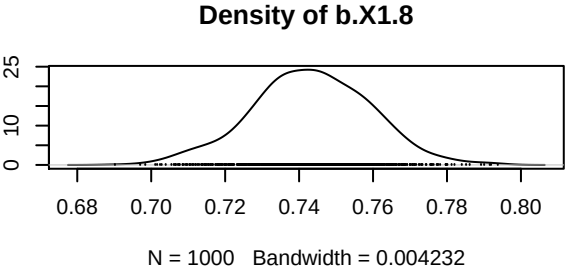

Trace of b.X1.6
0.22
0.28
1000
1200
1400
1600
1800
2000
Iterations

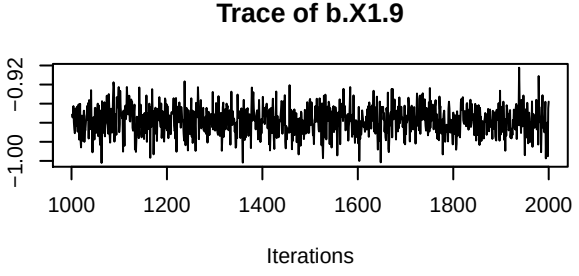

Density of b.X1.6
0
10
25
0.20
0.22
0.24
0.26
0.28
0.30
N = 1000 Bandwidth = 0.004099

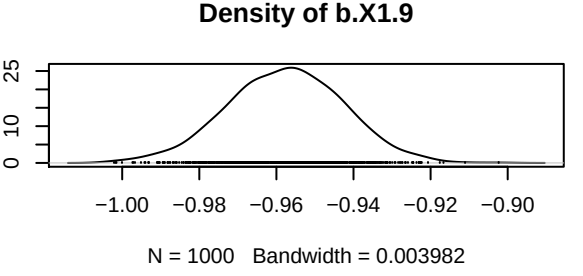

Trace of b.X1.7
−0.28
−0.36
1000
1200
1400
1600
1800
2000
Iterations

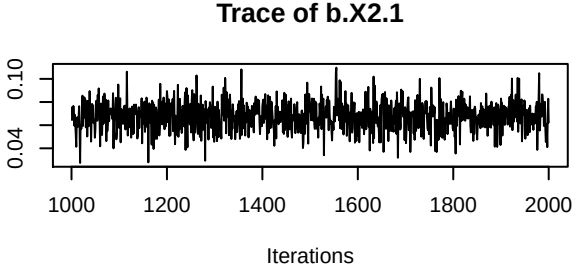

Density of b.X1.7
0
10
−0.38
−0.36
−0.34
−0.32
−0.30
−0.28
−0.26
N = 1000 Bandwidth = 0.00416

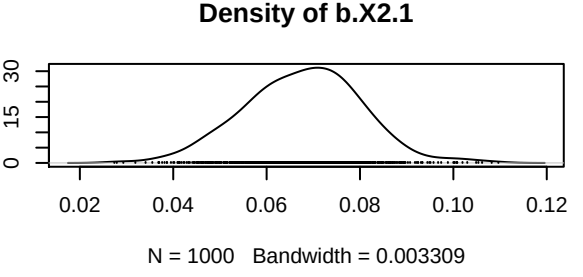

Trace of b.X1.8
0.78
0.70
1000
1200
1400
1600
1800
2000
Iterations

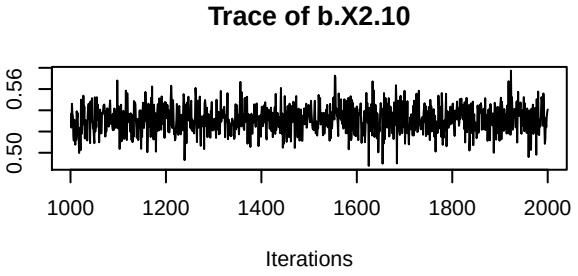

Density of b.X1.8
0
10
25
0.68
0.70
0.72
0.74
0.76
0.78
0.80
N = 1000 Bandwidth = 0.004232

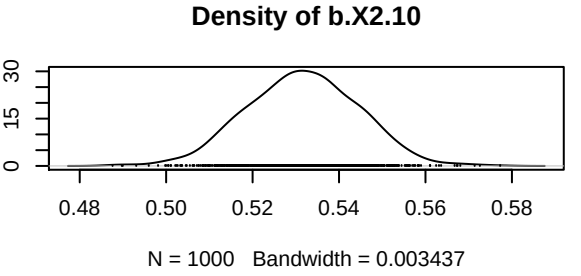

Trace of b.X1.9
−0.92
−1.00
1000
1200
1400
1600
1800
2000
Iterations

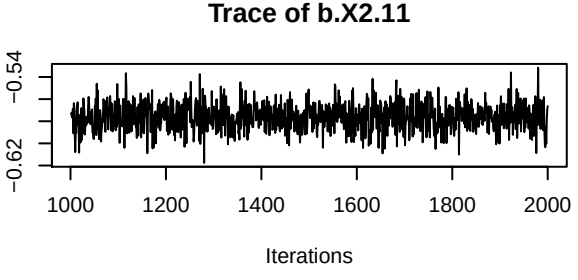

Density of b.X1.9
0
10
25
−1.00
−0.98
−0.96
−0.94
−0.92
−0.90
N = 1000 Bandwidth = 0.003982

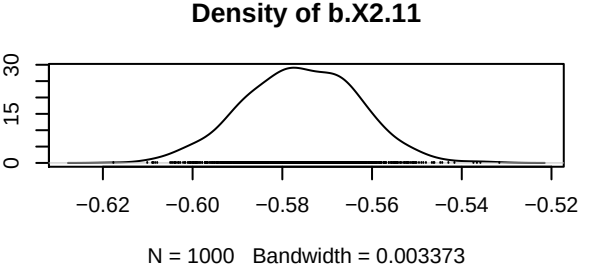

Trace of b.X2.1
0.10
0.04
1000
1200
1400
1600
1800
2000
Iterations

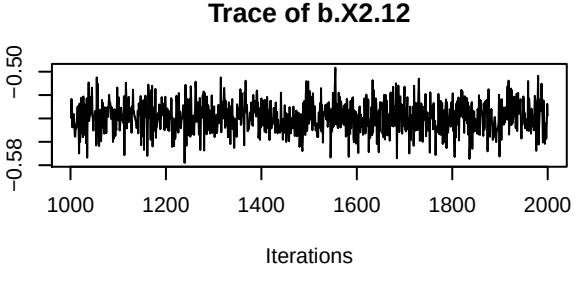

Density of b.X2.1
0
15
30
0.02
0.04
0.06
0.08
0.10
0.12
N = 1000 Bandwidth = 0.003309

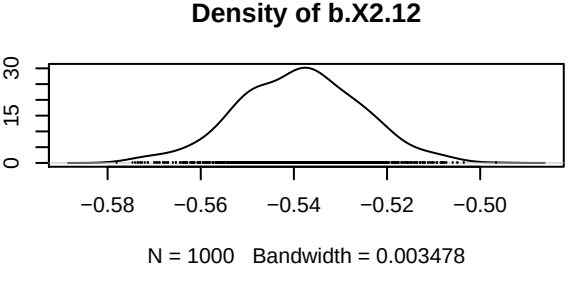

Trace of b.X2.10
0.50
0.56
1000
1200
1400
1600
1800
2000
Iterations

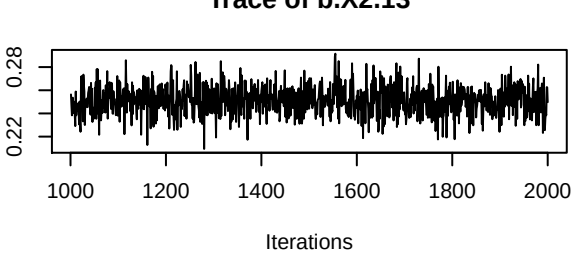

Density of b.X2.10
0
15
30
0.48
0.50
0.52
0.54
0.56
0.58
N = 1000 Bandwidth = 0.003437

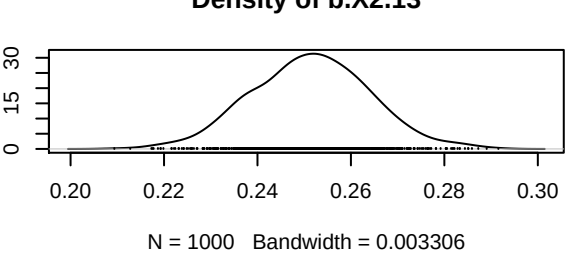

Trace of b.X2.11
−0.62
−0.54
1000
1200
1400
1600
1800
2000
Iterations

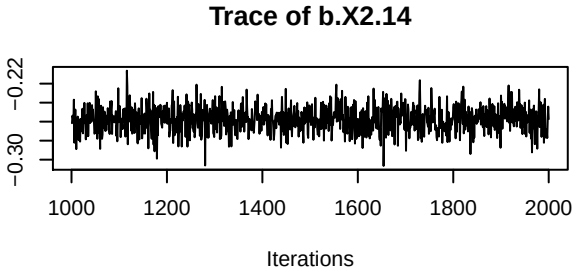

Density of b.X2.11
0
15
30
−0.62
−0.60
−0.58
−0.56
−0.54
−0.52
N = 1000 Bandwidth = 0.003373

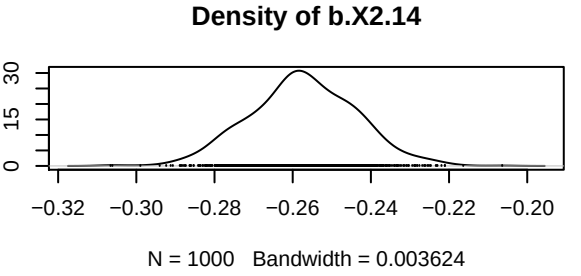

Trace of b.X2.12
−0.58
−0.50
1000
1200
1400
1600
1800
2000
Iterations

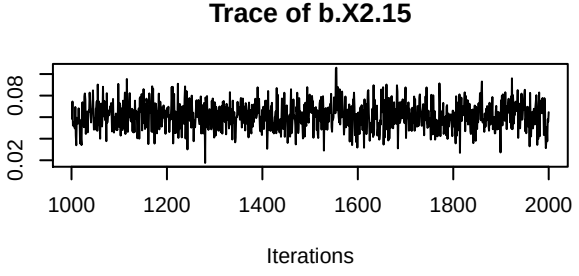

Density of b.X2.12
0
15
30
−0.58
−0.56
−0.54
−0.52
−0.50
N = 1000 Bandwidth = 0.003478

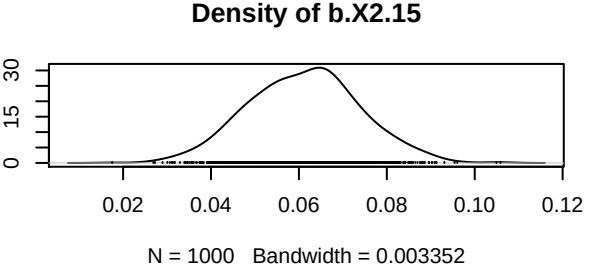

Trace of b.X2.13
0.22
0.28
1000
1200
1400
1600
1800
2000
Iterations

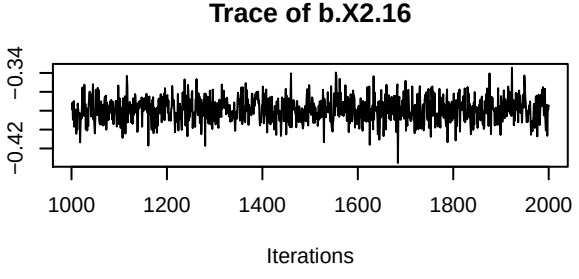

Density of b.X2.13
0
15
30
0.20
0.22
0.24
0.26
0.28
0.30
N = 1000 Bandwidth = 0.003306

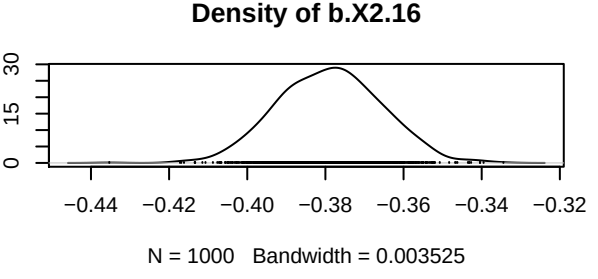

Trace of b.X2.14
−0.30
−0.22
1000
1200
1400
1600
1800
2000
Iterations

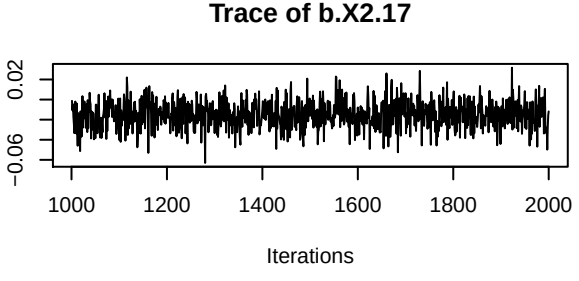

Density of b.X2.14
0
15
30
−0.32
−0.30
−0.28
−0.26
−0.24
−0.22
−0.20
N = 1000 Bandwidth = 0.003624

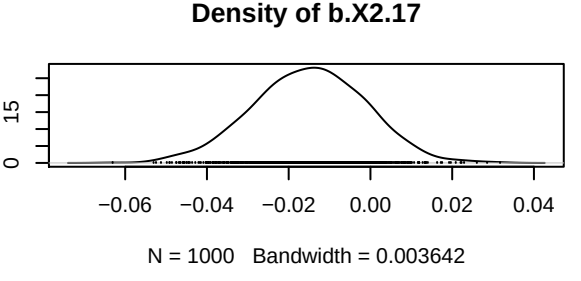

Trace of b.X2.15
0.02
0.08
1000
1200
1400
1600
1800
2000
Iterations

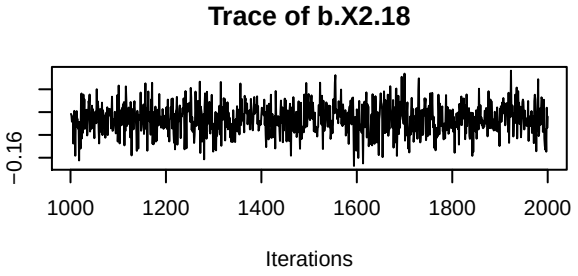

Density of b.X2.15
0
15
30
0.02
0.04
0.06
0.08
0.10
0.12
N = 1000 Bandwidth = 0.003352

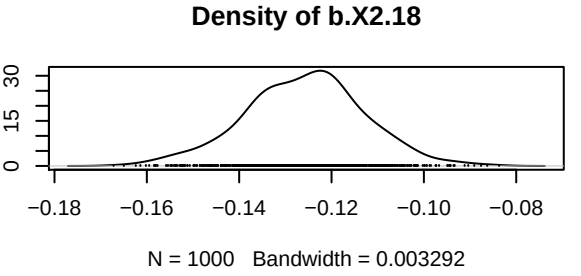

Trace of b.X2.16
−0.42
−0.34
1000
1200
1400
1600
1800
2000
Iterations

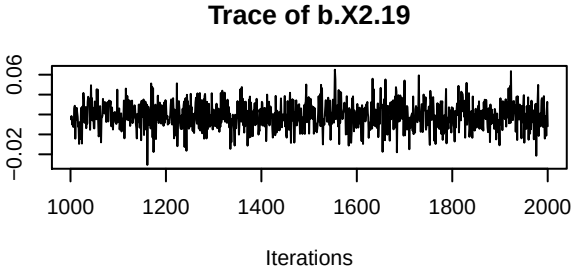

Density of b.X2.16
0
15
30
−0.44
−0.42
−0.40
−0.38
−0.36
−0.34
−0.32
N = 1000 Bandwidth = 0.003525

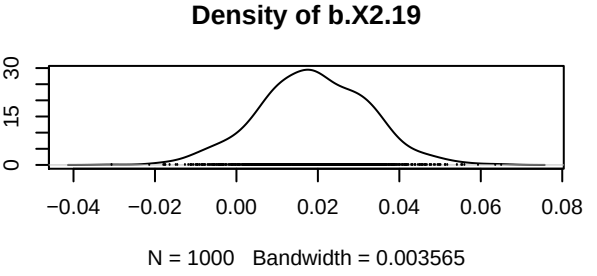

Trace of b.X2.17
−0.06
0.02
1000
1200
1400
1600
1800
2000
Iterations

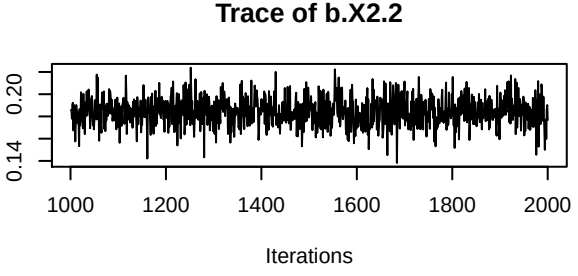

Density of b.X2.17
0
15
−0.06
−0.04
−0.02
0.00
0.02
0.04
N = 1000 Bandwidth = 0.003642

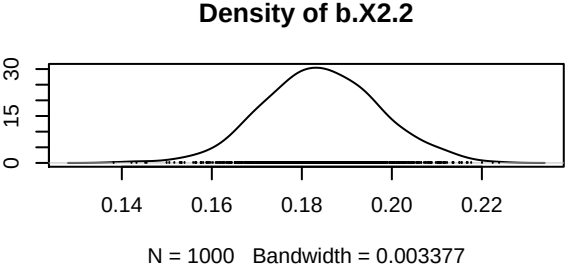

Trace of b.X2.18
−0.16
1000
1200
1400
1600
1800
2000
Iterations

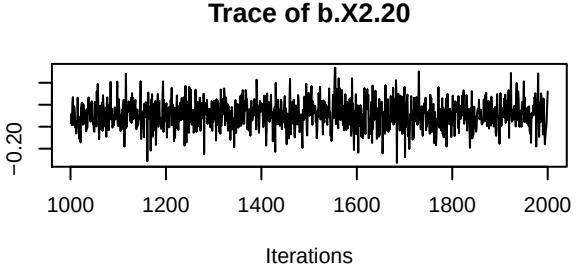

Density of b.X2.18
0
15
30
−0.18
−0.16
−0.14
−0.12
−0.10
−0.08
N = 1000 Bandwidth = 0.003292

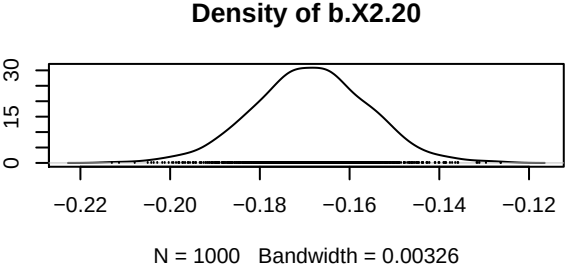

Trace of b.X2.19
−0.02
0.06
1000
1200
1400
1600
1800
2000
Iterations

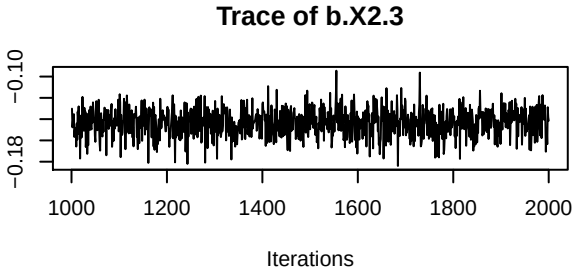

Density of b.X2.19
0
15
30
−0.04
−0.02
0.00
0.02
0.04
0.06
0.08
N = 1000 Bandwidth = 0.003565

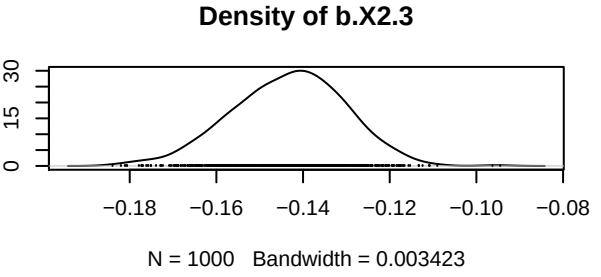

Trace of b.X2.2
0.14
0.20
1000
1200
1400
1600
1800
2000
Iterations

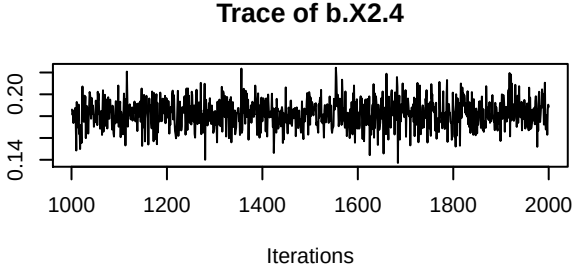

Density of b.X2.2
0
15
30
0.14
0.16
0.18
0.20
0.22
N = 1000 Bandwidth = 0.003377

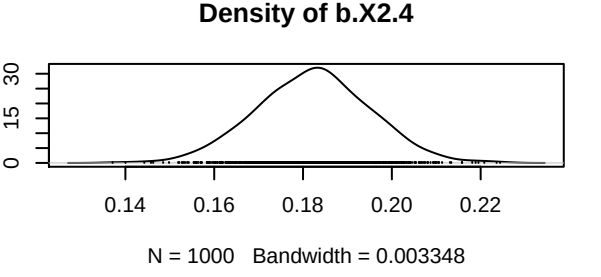

Trace of b.X2.20
−0.20
1000
1200
1400
1600
1800
2000
Iterations

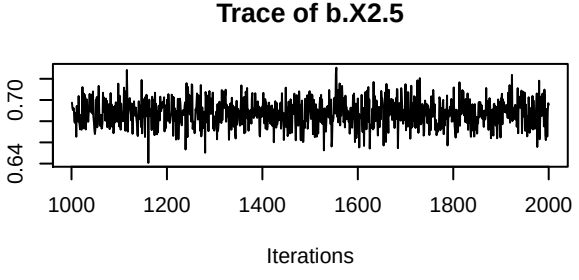

Density of b.X2.20
0
15
30
−0.22
−0.20
−0.18
−0.16
−0.14
−0.12
N = 1000 Bandwidth = 0.00326

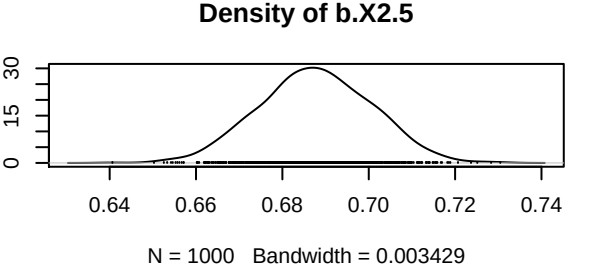

Trace of b.X2.3
−0.10
−0.18
1000
1200
1400
1600
1800
2000
Iterations

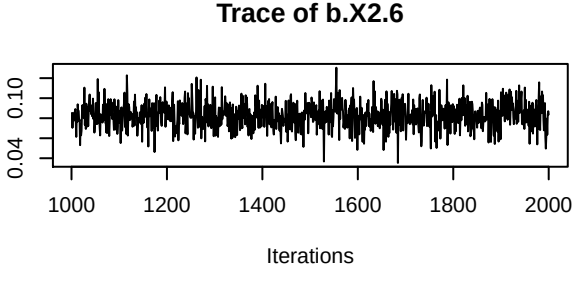

Density of b.X2.3
0
15
30
−0.18
−0.16
−0.14
−0.12
−0.10
−0.08
N = 1000 Bandwidth = 0.003423

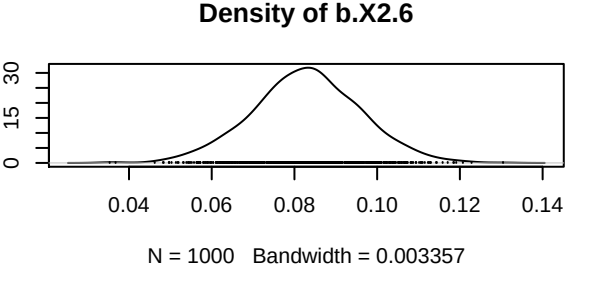

Trace of b.X2.4
0.14
0.20
1000
1200
1400
1600
1800
2000
Iterations

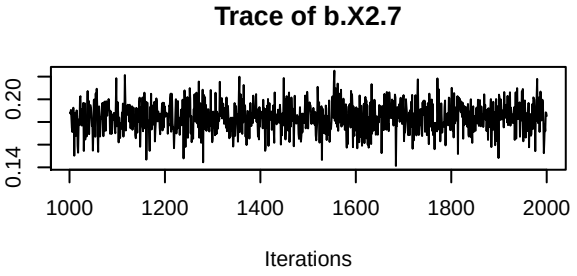

Density of b.X2.4
0
15
30
0.14
0.16
0.18
0.20
0.22
N = 1000 Bandwidth = 0.003348

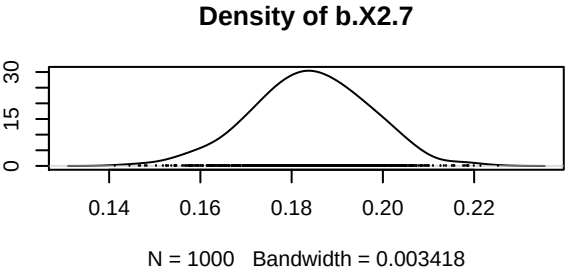

Trace of b.X2.5
0.64
0.70
1000
1200
1400
1600
1800
2000
Iterations

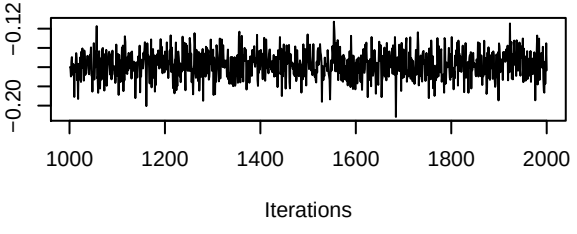

Density of b.X2.5
0
15
30
0.64
0.66
0.68
0.70
0.72
0.74
N = 1000 Bandwidth = 0.003429

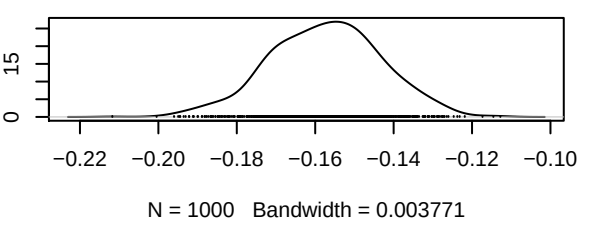

Trace of b.X2.6
0.04
0.10
1000
1200
1400
1600
1800
2000
Iterations

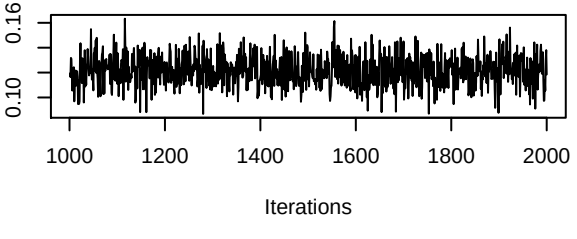

Density of b.X2.6
0
15
30
0.04
0.06
0.08
0.10
0.12
0.14
N = 1000 Bandwidth = 0.003357

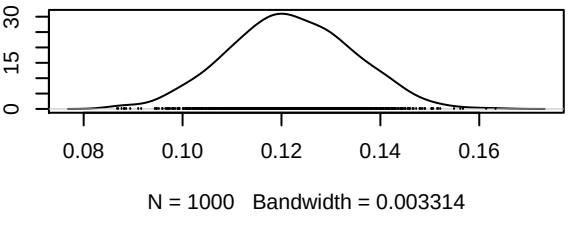

Trace of b.X2.7
0.14
0.20
1000
1200
1400
1600
1800
2000
Iterations

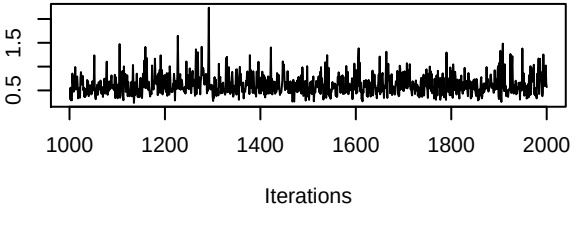

Density of b.X2.7
0
15
30
0.14
0.16
0.18
0.20
0.22
N = 1000 Bandwidth = 0.003418

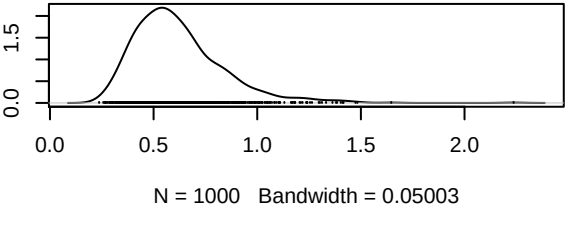

Trace of b.X2.8
−0.20
−0.12
1000
1200
1400
1600
1800
2000
Iterations

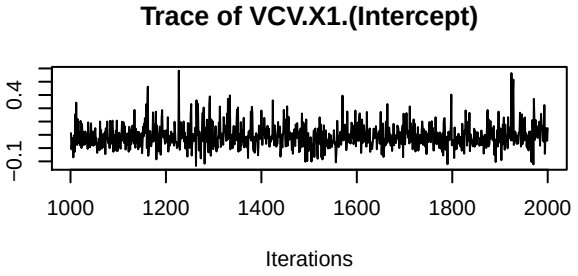

Density of b.X2.8
0
15
−0.22
−0.20
−0.18
−0.16
−0.14
−0.12
−0.10
N = 1000 Bandwidth = 0.003771

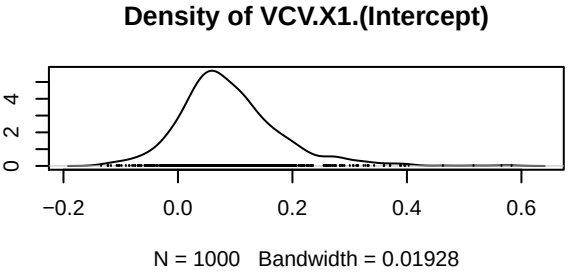

Trace of b.X2.9
0.10
0.16
1000
1200
1400
1600
1800
2000
Iterations

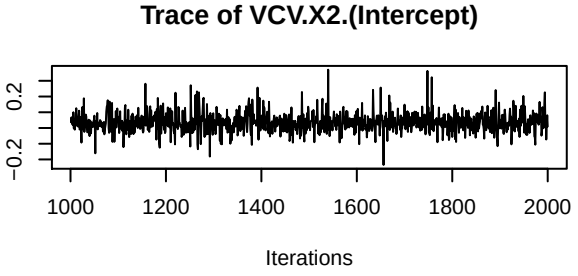

Density of b.X2.9
0
15
30
0.08
0.10
0.12
0.14
0.16
N = 1000 Bandwidth = 0.003314

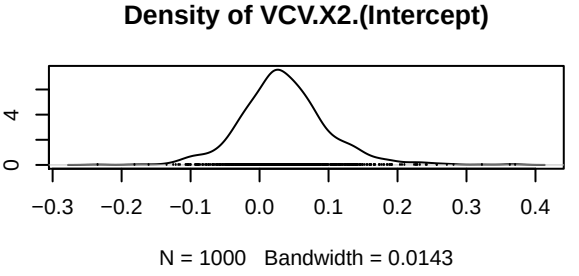

Trace of VCV.(Intercept).(Intercept)
0.5
1.5
1000
1200
1400
1600
1800
2000
Iterations

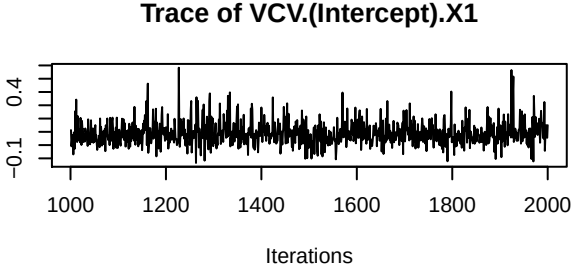

Density of VCV.(Intercept).(Intercept)
0.0
1.5
0.0
0.5
1.0
1.5
2.0
N = 1000 Bandwidth = 0.05003

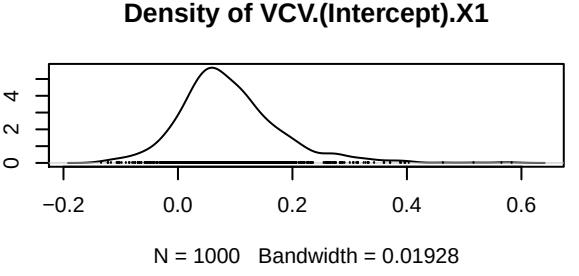

Trace of VCV.X1.(Intercept)
−0.1
0.4
1000
1200
1400
1600
1800
2000
Iterations

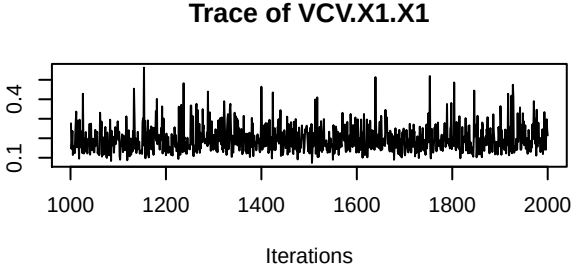

Density of VCV.X1.(Intercept)
0
2
4
−0.2
0.0
0.2
0.4
0.6
N = 1000 Bandwidth = 0.01928

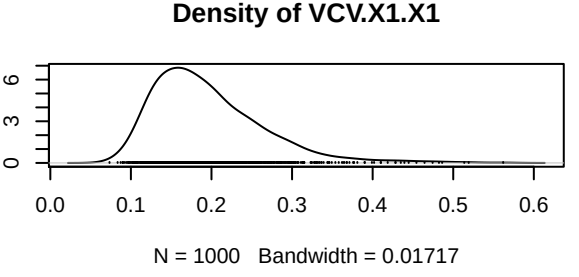

Trace of VCV.X2.(Intercept)
−0.2
0.2
1000
1200
1400
1600
1800
2000
Iterations

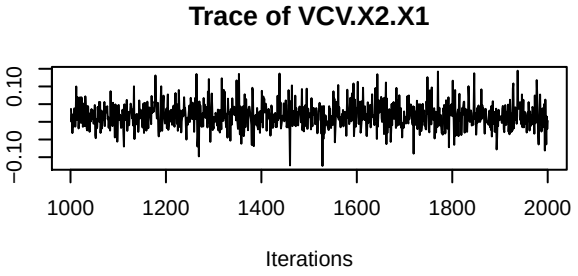

Density of VCV.X2.(Intercept)
0
4
−0.3
−0.2
−0.1
0.0
0.1
0.2
0.3
0.4
N = 1000 Bandwidth = 0.0143

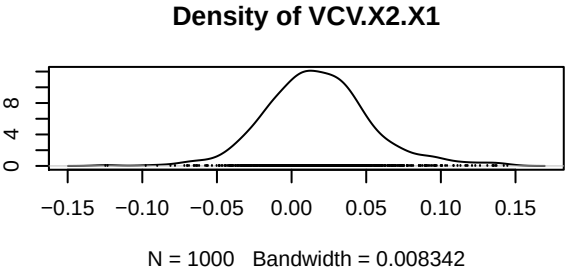

Trace of VCV.(Intercept).X1
−0.1
0.4
1000
1200
1400
1600
1800
2000
Iterations

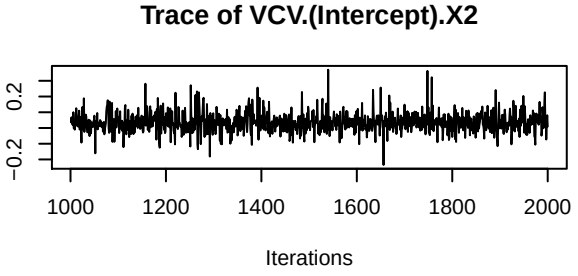

Density of VCV.(Intercept).X1
0
2
4
−0.2
0.0
0.2
0.4
0.6
N = 1000 Bandwidth = 0.01928

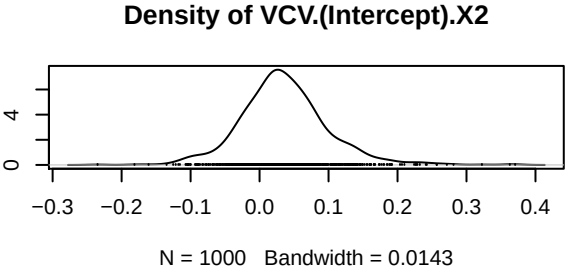

Trace of VCV.X1.X1
0.1
0.4
1000
1200
1400
1600
1800
2000
Iterations

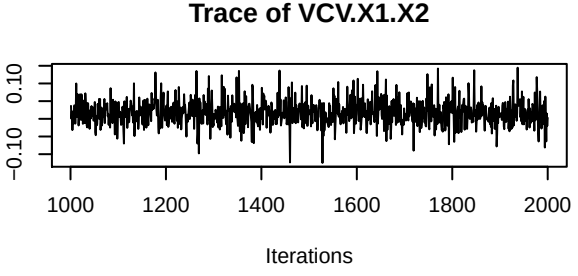

Density of VCV.X1.X1
0
3
6
0.0
0.1
0.2
0.3
0.4
0.5
0.6
N = 1000 Bandwidth = 0.01717

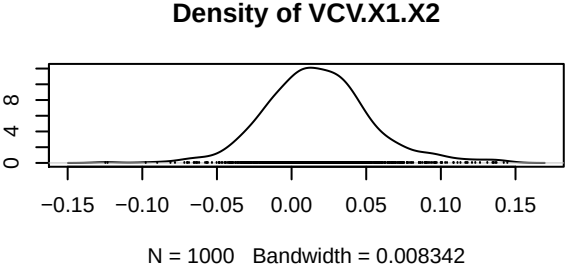

Trace of VCV.X2.X1
−0.10
0.10
1000
1200
1400
1600
1800
2000
Iterations

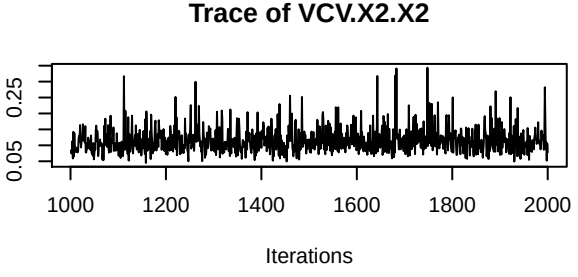

Density of VCV.X2.X1
0
4
8
−0.15
−0.10
−0.05
0.00
0.05
0.10
0.15
N = 1000 Bandwidth = 0.008342

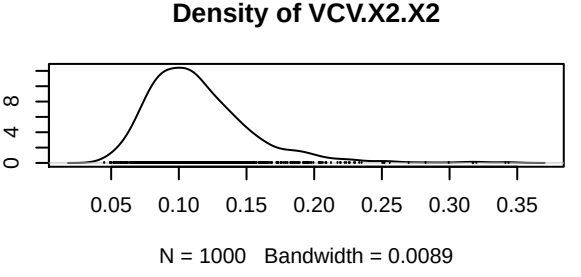

Trace of VCV.(Intercept).X2
−0.2
0.2
1000
1200
1400
1600
1800
2000
Iterations

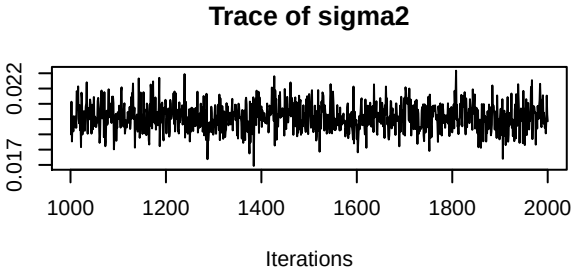

Density of VCV.(Intercept).X2
0
4
−0.3
−0.2
−0.1
0.0
0.1
0.2
0.3
0.4
N = 1000 Bandwidth = 0.0143

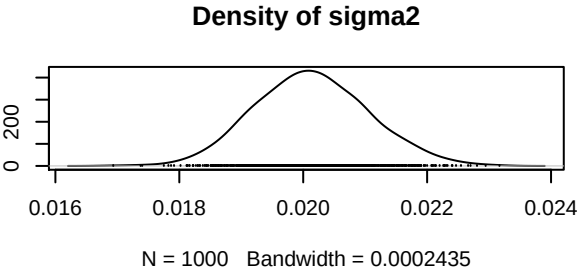

Trace of VCV.X1.X2
−0.10
0.10
1000
1200
1400
1600
1800
2000
Iterations

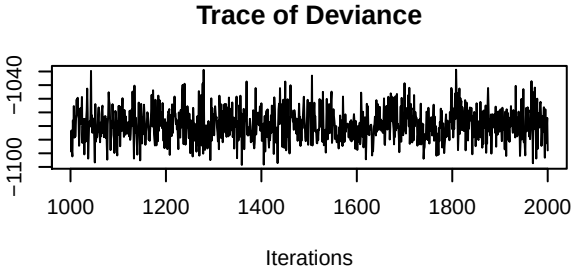

Density of VCV.X1.X2
0
4
8
−0.15
−0.10
−0.05
0.00
0.05
0.10
0.15
N = 1000 Bandwidth = 0.008342

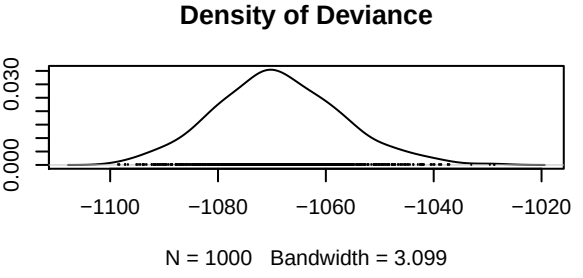

Trace of VCV.X2.X2
0.05
0.25
1000
1200
1400
1600
1800
2000
Iterations


Density of VCV.X2.X2
0
4
8
0.05
0.10
0.15
0.20
0.25
0.30
0.35
N = 1000 Bandwidth = 0.0089


Trace of sigma2
0.017
0.022
1000
1200
1400
1600
1800
2000
Iterations


Density of sigma2
0
200
0.016
0.018
0.020
0.022
0.024
N = 1000 Bandwidth = 0.0002435


Trace of Deviance
−1100
−1040
1000
1200
1400
1600
1800
2000
Iterations


Density of Deviance
0.000
0.030
−1100
−1080
−1060
−1040
−1020
N = 1000 Bandwidth = 3.099