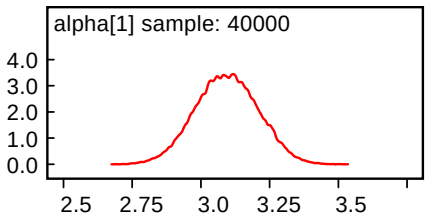
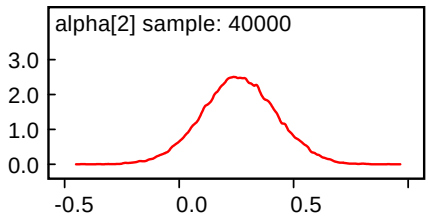
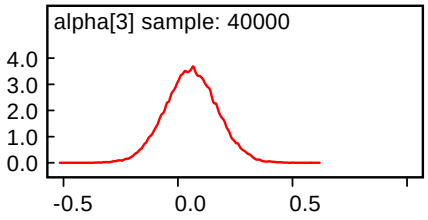
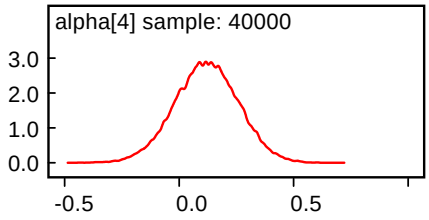
```
model
	{
		for( i in 1 : 64 ) {
			for( j in 1 : 4 ) {
			    s[i, j]<-4*(i-1)+j
			   y[i, j] ~ dt(mu[i , j],tau.e, df1)
			      mu[i , j] <- inprod(x[s[i,j],],alpha[])+beta[i]
			}
			beta[i]~dt(0, tau.b, df2)
		}

for( k in 1:8) {
		alpha[k]~dnorm(m[k],varinv[k])
		alphasign[k] <- step(alpha[k])
}

		tau.e ~ dgamma(ea,eb)
		tau.b~dgamma(ba,bb)
	df1 <- 1/invdf1
	df2 <- 1/invdf2
	invdf1 ~ dunif(0,1)
	invdf2 ~ dunif(0,1)

		sigma <- 1 /sqrt( tau.e)
		sqrtD <- 1 /sqrt( tau.b)
		rho <- sqrtD*sqrtD/(sigma*sigma + sqrtD *sqrtD)

	}
```

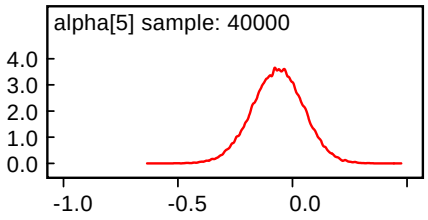
node	mean	sd	MC error	2.5%	median	97.5%	start	sample
alpha[1]	3.095	0.113	0.003621	2.874	3.094	3.313	1001	40000
alpha[2]	0.2626	0.1619	0.004911	-0.05754	0.2617	0.5802	1001	40000
alpha[3]	0.05833	0.1141	9.322E-4	-0.165	0.05825	0.2837	1001	40000
alpha[4]	0.1197	0.1395	0.001324	-0.1594	0.1206	0.3894	1001	40000
alpha[5]	-0.06444	0.1121	9.122E-4	-0.2878	-0.06315	0.1521	1001	40000
alpha[6]	-0.239	0.1223	0.001088	-0.4812	-0.2391	0.001162	1001	40000
alpha[7]	0.2002	0.154	0.001856	-0.0877	0.1946	0.5165	1001	40000
alpha[8]	-0.2604	0.1258	0.001176	-0.5083	-0.2602	-0.01549	1001	40000
alphasign[1]	1.0	0.0	5.0E-13	1.0	1.0	1.0	1001	40000
alphasign[2]	0.9469	0.2242	0.004781	0.0	1.0	1.0	1001	40000
alphasign[3]	0.699	0.4587	0.003352	0.0	1.0	1.0	1001	40000
alphasign[4]	0.8069	0.3947	0.00321	0.0	1.0	1.0	1001	40000
alphasign[5]	0.2834	0.4507	0.003385	0.0	0.0	1.0	1001	40000
alphasign[6]	0.02558	0.1579	0.001043	0.0	0.0	1.0	1001	40000
alphasign[7]	0.9099	0.2864	0.002522	0.0	1.0	1.0	1001	40000
alphasign[8]	0.019	0.1365	9.016E-4	0.0	0.0	0.0	1001	40000
beta[1]	-0.2174	0.2241	0.00368	-0.6474	-0.2198	0.2334	1001	40000
beta[2]	-0.3035	0.1978	0.003981	-0.6935	-0.301	0.07834	1001	40000
beta[3]	-0.6846	0.1755	0.003766	-1.029	-0.6842	-0.3395	1001	40000
beta[4]	-0.3627	0.2377	0.003867	-0.8273	-0.3634	0.107	1001	40000
beta[5]	0.1905	0.169	0.003603	-0.1417	0.1912	0.5249	1001	40000
df1	3.066	0.8213	0.01925	1.907	2.92	5.096	1001	40000
df2	12.32	96.7	3.478	2.085	5.102	34.26	1001	40000
sigma	0.2556	0.02633	5.356E-4	0.2074	0.2544	0.3111	1001	40000
sqrtD	0.5587	0.07271	0.00139	0.4315	0.5534	0.7154	1001	40000
y[4,3]	2.994	0.529	0.002928	2.068	2.989	3.929	1001	40000
y[4,4]	2.757	0.5446	0.003187	1.83	2.756	3.709	1001	40000

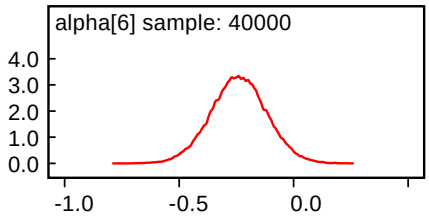

alpha[1] sample: 40000
4.0
3.0
2.0
1.0
0.0
2.5
2.75
3.0
3.25
3.5

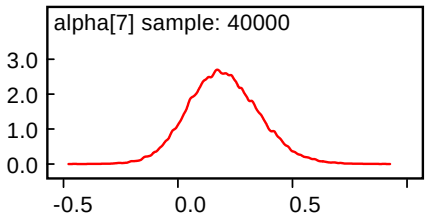

alpha[2] sample: 40000
3.0
2.0
1.0
0.0
-0.5
0.0
0.5

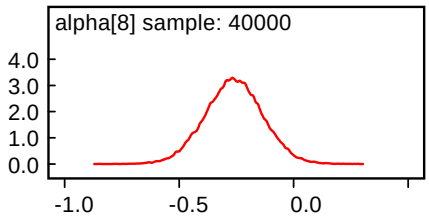

alpha[3] sample: 40000
4.0
3.0
2.0
1.0
0.0
-0.5
0.0
0.5

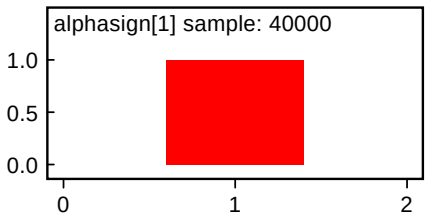

alpha[4] sample: 40000
3.0
2.0
1.0
0.0
-0.5
0.0
0.5

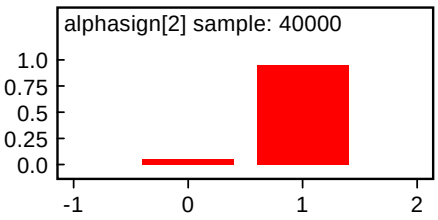

alpha[5] sample: 40000
4.0
3.0
2.0
1.0
0.0
-1.0
-0.5
0.0

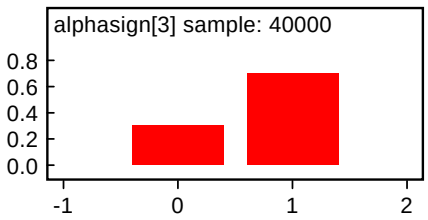

alpha[6] sample: 40000
4.0
3.0
2.0
1.0
0.0
-1.0
-0.5
0.0

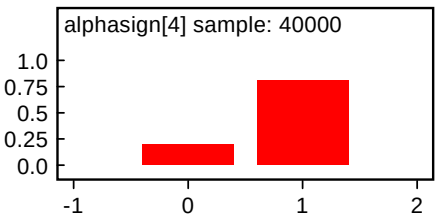

alpha[7] sample: 40000
3.0
2.0
1.0
0.0
-0.5
0.0
0.5

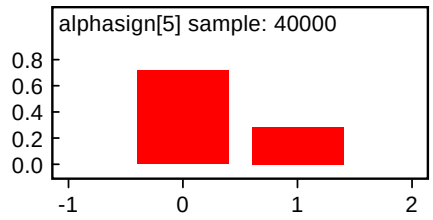

alpha[8] sample: 40000
4.0
3.0
2.0
1.0
0.0
-1.0
-0.5
0.0

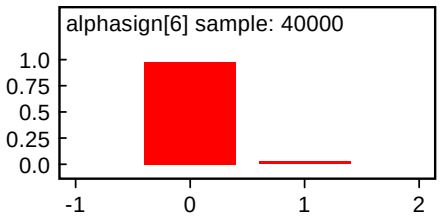

alphasign[1] sample: 40000
1.0
0.5
0.0
0
1
2

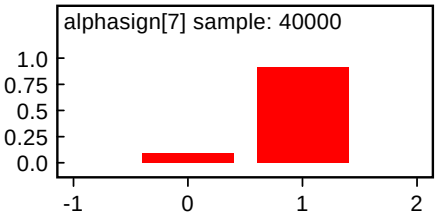

alphasign[2] sample: 40000
1.0
0.75
0.5
0.25
0.0
-1
0
1
2

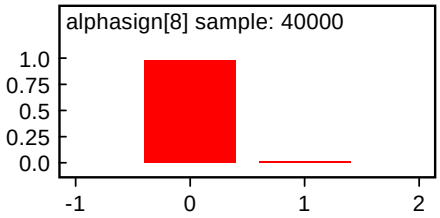

alphasign[3] sample: 40000
0.8
0.6
0.4
0.2
0.0
-1
0
1
2

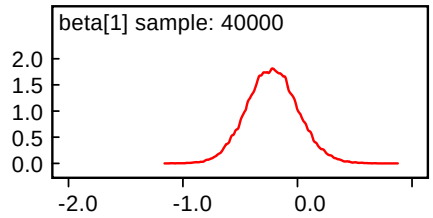

alphasign[4] sample: 40000
1.0
0.75
0.5
0.25
0.0
-1
0
1
2

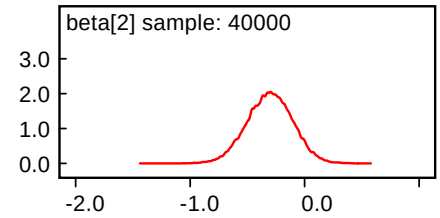

alphasign[5] sample: 40000
0.8
0.6
0.4
0.2
0.0
-1
0
1
2

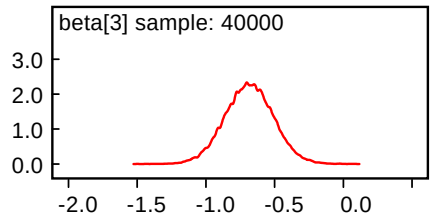

alphasign[6] sample: 40000
1.0
0.75
0.5
0.25
0.0
-1
0
1
2

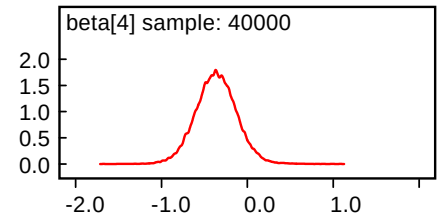

alphasign[7] sample: 40000
1.0
0.75
0.5
0.25
0.0
-1
0
1
2

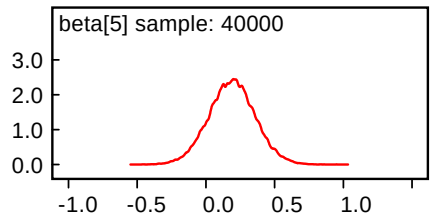

alphasign[8] sample: 40000
1.0
0.75
0.5
0.25
0.0
-1
0
1
2

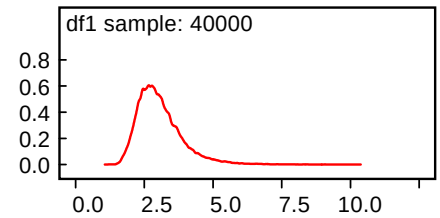

beta[1] sample: 40000
2.0
1.5
1.0
0.5
0.0
-2.0
-1.0
0.0

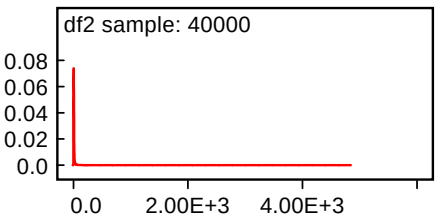

beta[2] sample: 40000
3.0
2.0
1.0
0.0
-2.0
-1.0
0.0

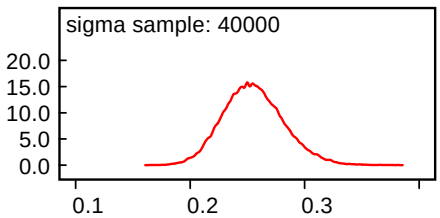

beta[3] sample: 40000
3.0
2.0
1.0
0.0
-2.0
-1.5
-1.0
-0.5
0.0

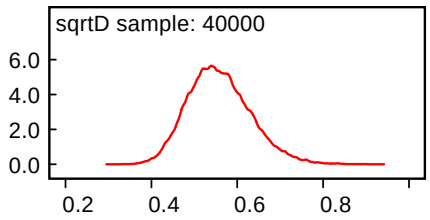

beta[4] sample: 40000
2.0
1.5
1.0
0.5
0.0
-2.0
-1.0
0.0
1.0

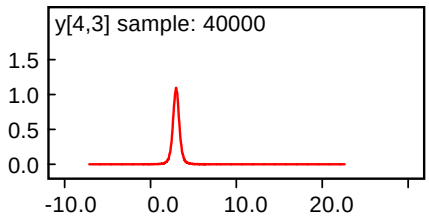

beta[5] sample: 40000
3.0
2.0
1.0
0.0
-1.0
-0.5
0.0
0.5
1.0

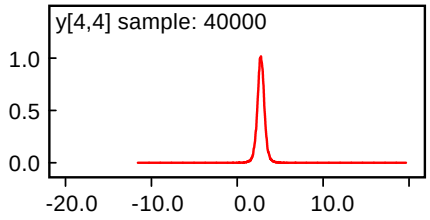

df1 sample: 40000
0.8
0.6
0.4
0.2
0.0
0.0
2.5
5.0
7.5
10.0

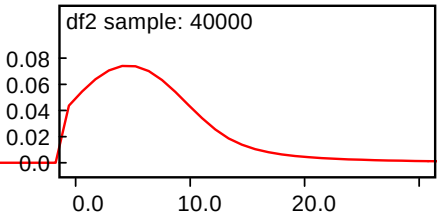

df2 sample: 40000
0.08
0.06
0.04
0.02
0.0
0.0
2.00E+3
4.00E+3


sigma sample: 40000
20.0
15.0
10.0
5.0
0.0
0.1
0.2
0.3

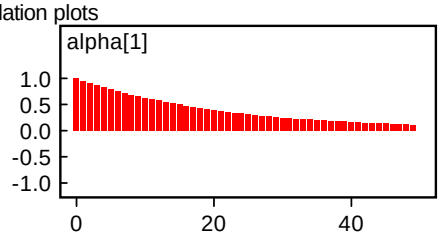


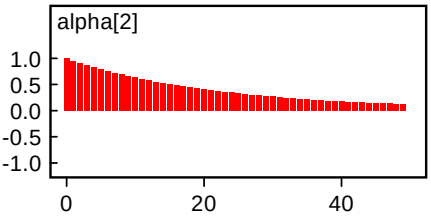


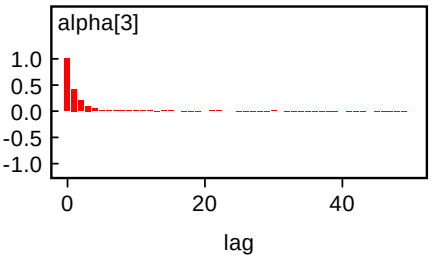


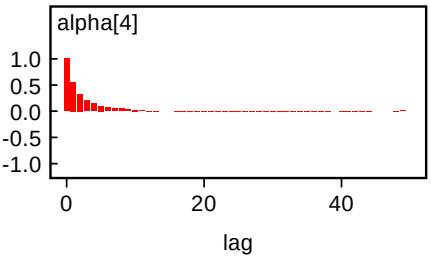


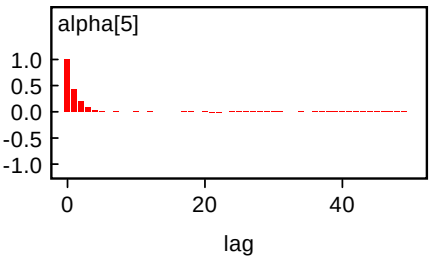
Autocorrelation plots

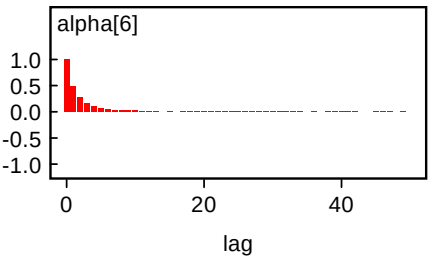


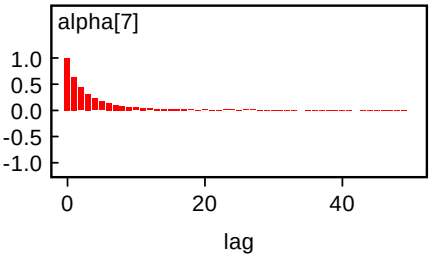


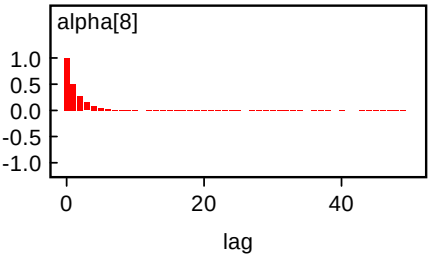


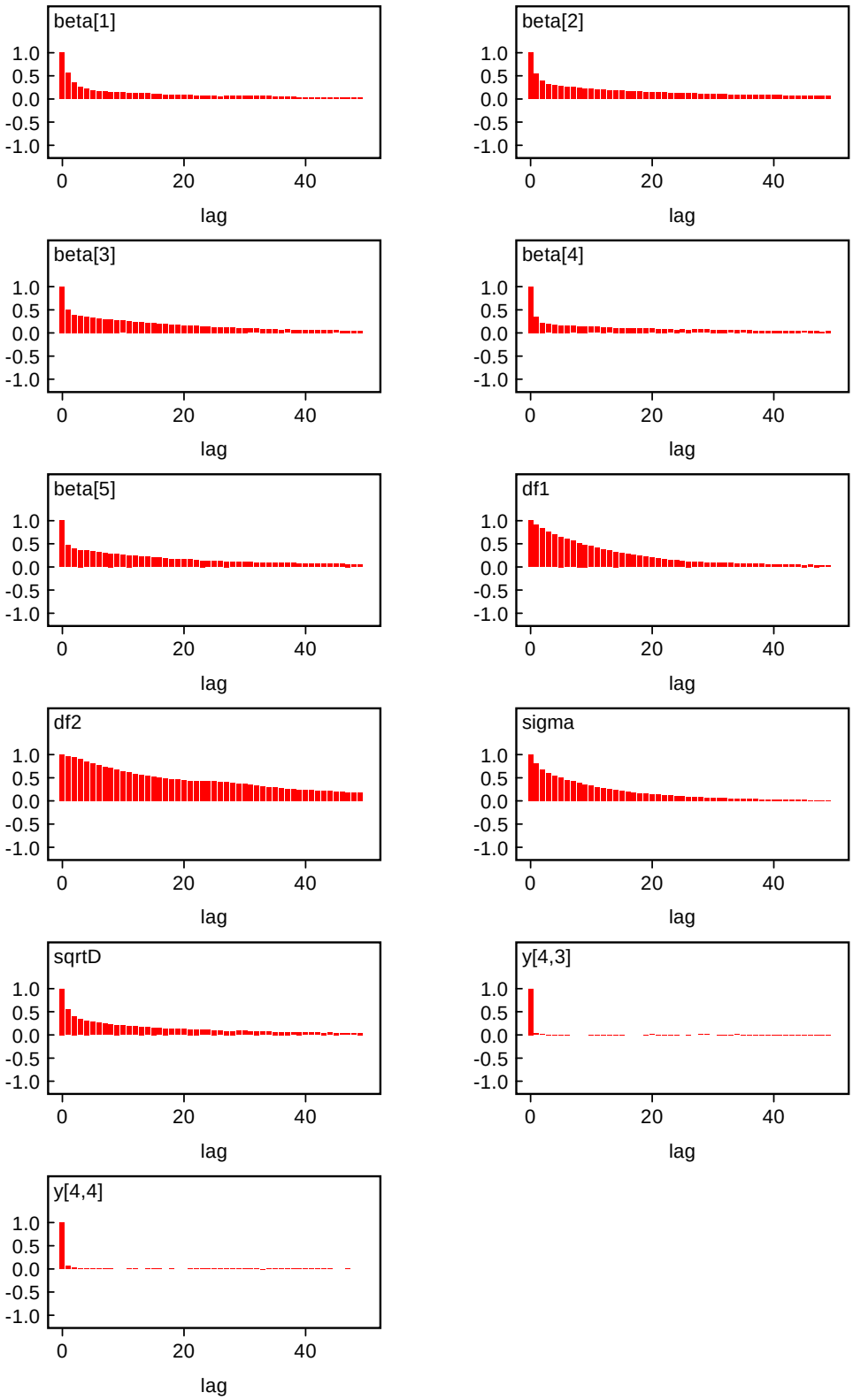




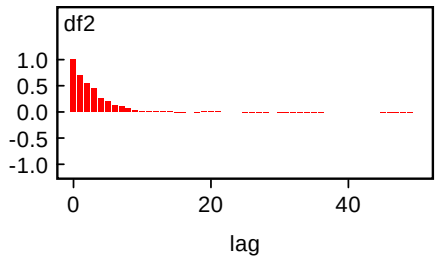


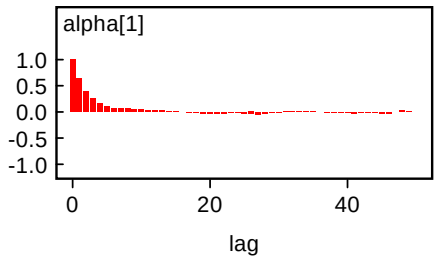


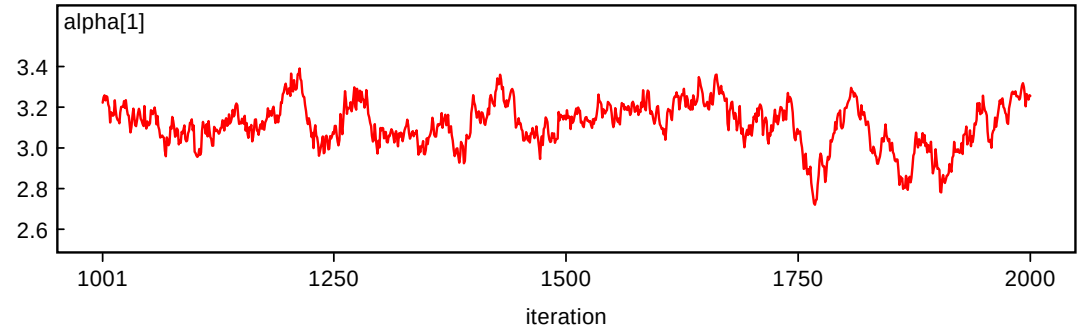


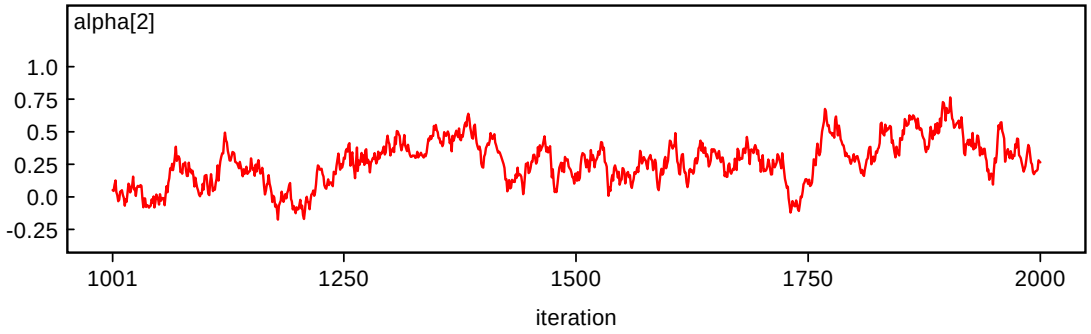


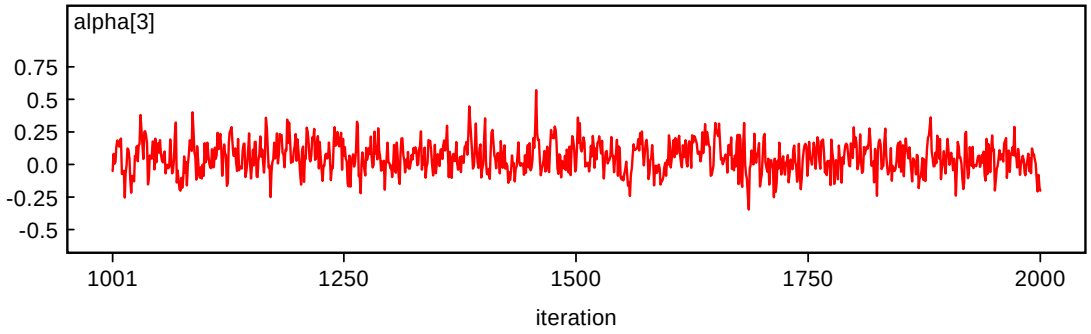
df2 and alpha1 with a thin of 10 -- autocorrelations go to zero by lag 10*10=100 more or less.

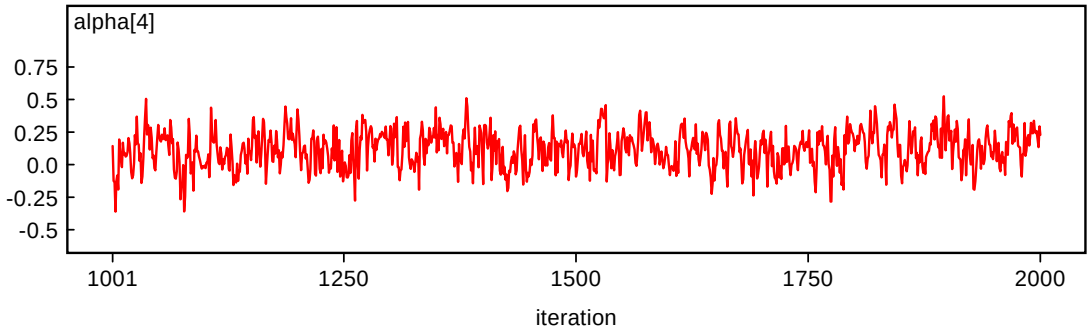

df2
1.0
0.5
0.0
-0.5
-1.0
0
20
40
lag

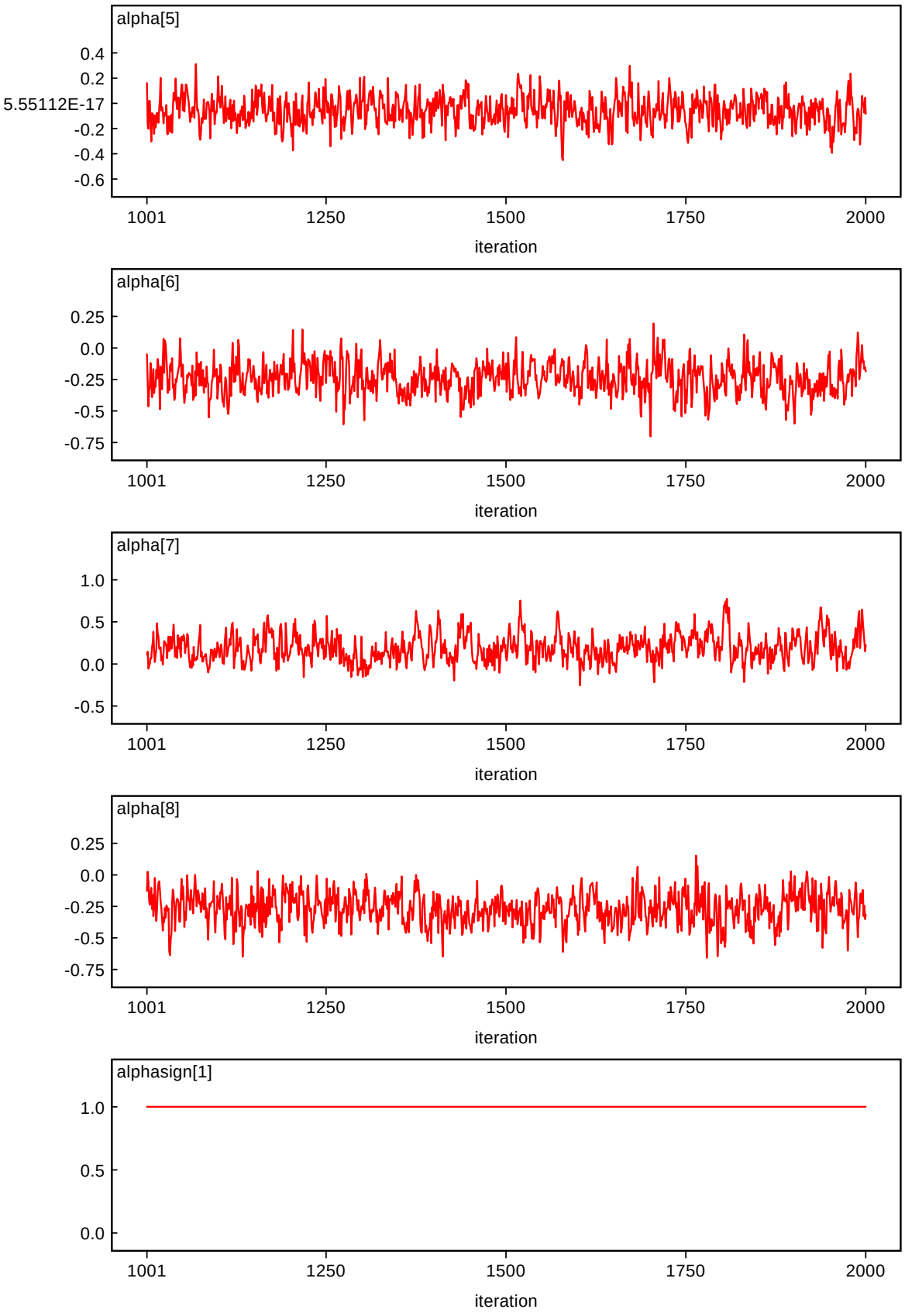

alpha[1]
1.0
0.5
0.0
-0.5
-1.0
0
20
40
lag

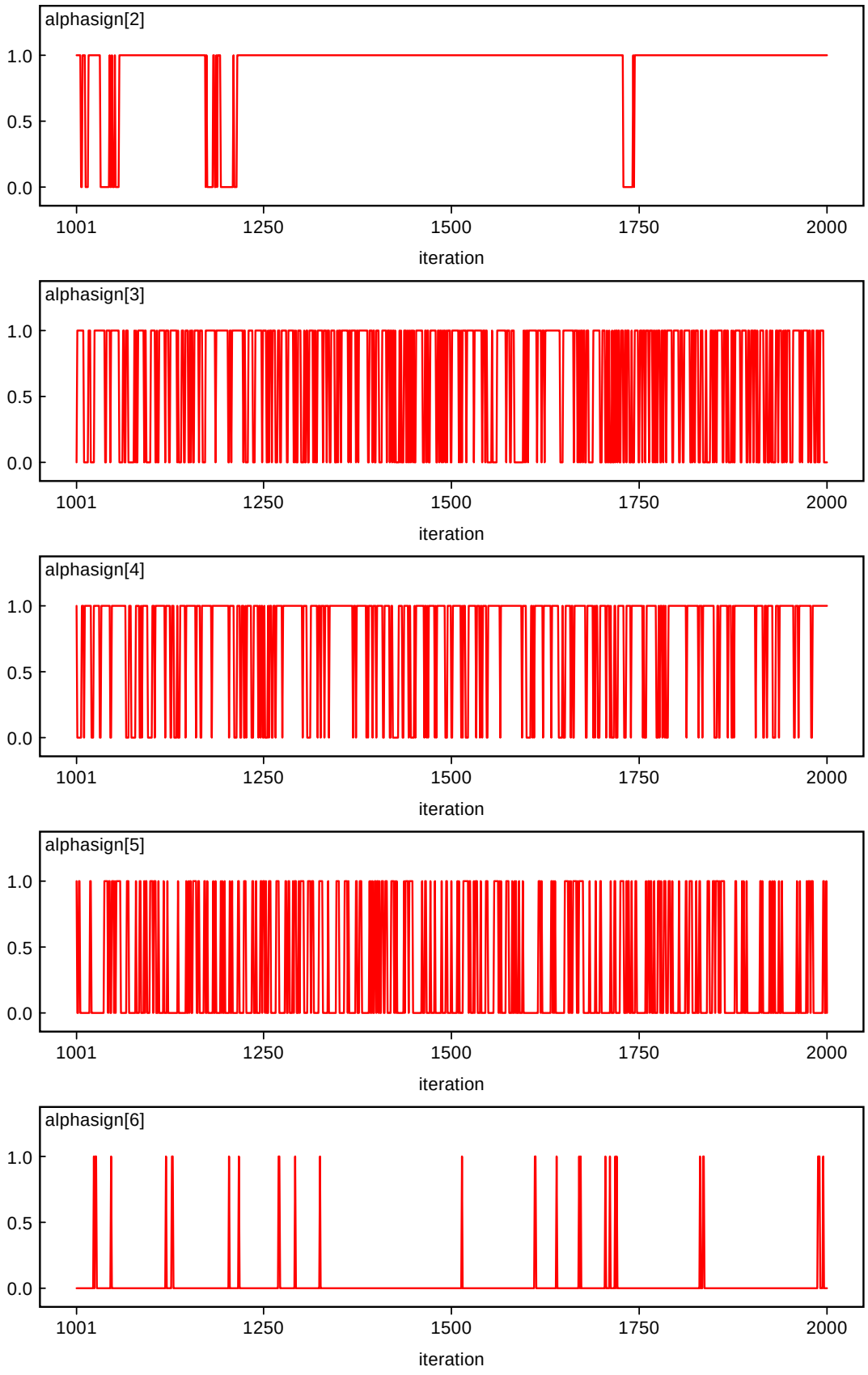

alpha[1]
3.4
3.2
3.0
2.8
2.6
1001
1250
1500
1750
2000
iteration

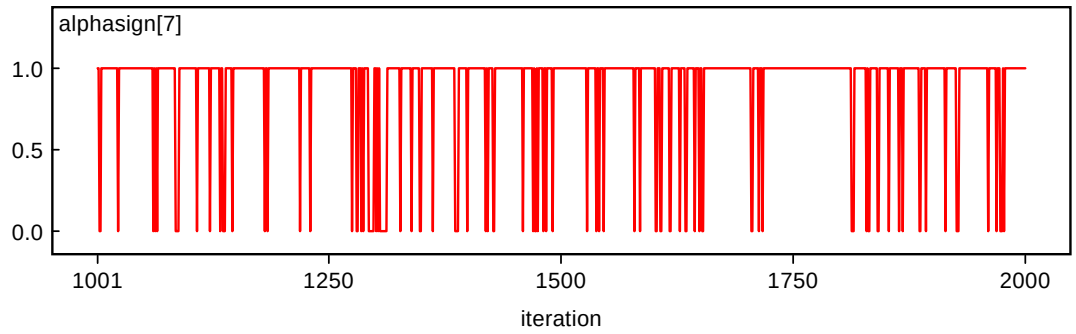

alpha[2]
1.0
0.75
0.5
0.25
0.0
-0.25
1001
1250
1500
1750
2000
iteration

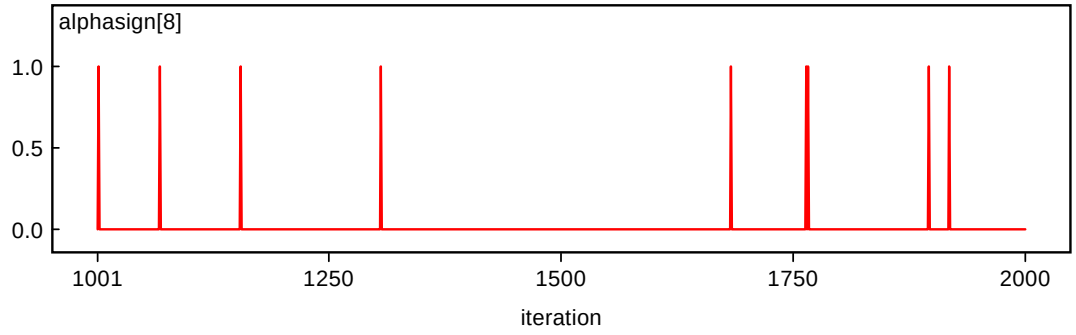

alpha[3]
0.75
0.5
0.25
0.0
-0.25
-0.5
1001
1250
1500
1750
2000
iteration

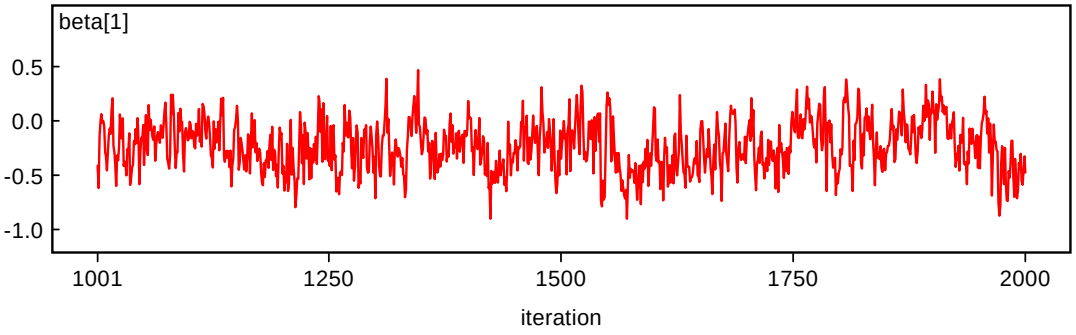

alpha[4]
0.75
0.5
0.25
0.0
-0.25
-0.5
1001
1250
1500
1750
2000
iteration

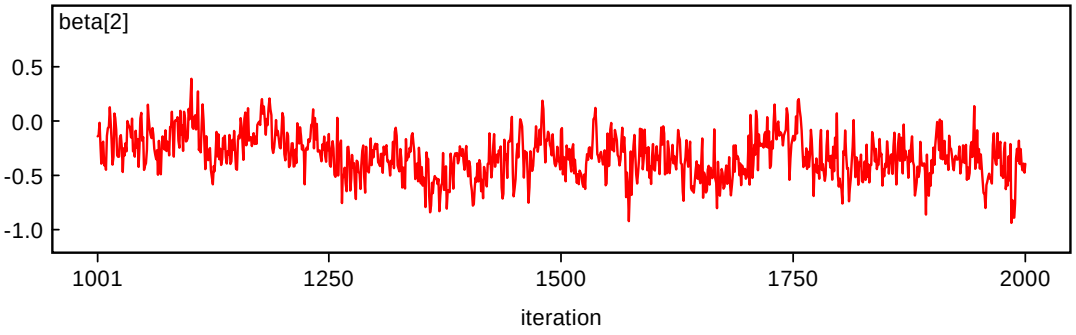

alpha[5]
0.4
0.2
5.55112E-17
-0.2
-0.4
-0.6
1001
1250
1500
1750
2000
iteration
alpha[6]
0.25
0.0
-0.25
-0.5
-0.75
1001
1250
1500
1750
2000
iteration
alpha[7]
1.0
0.5
0.0
-0.5
1001
1250
1500
1750
2000
iteration
alpha[8]
0.25
0.0
-0.25
-0.5
-0.75
1001
1250
1500
1750
2000
iteration
alphasign[1]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration

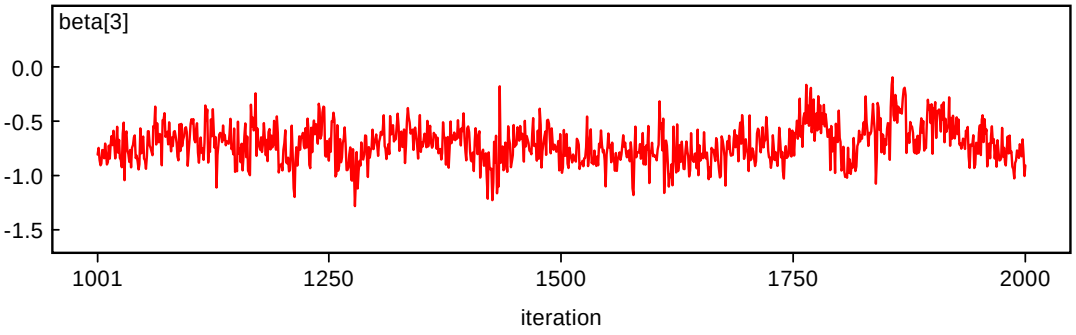

alphasign[2]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration
alphasign[3]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration
alphasign[4]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration
alphasign[5]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration
alphasign[6]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration

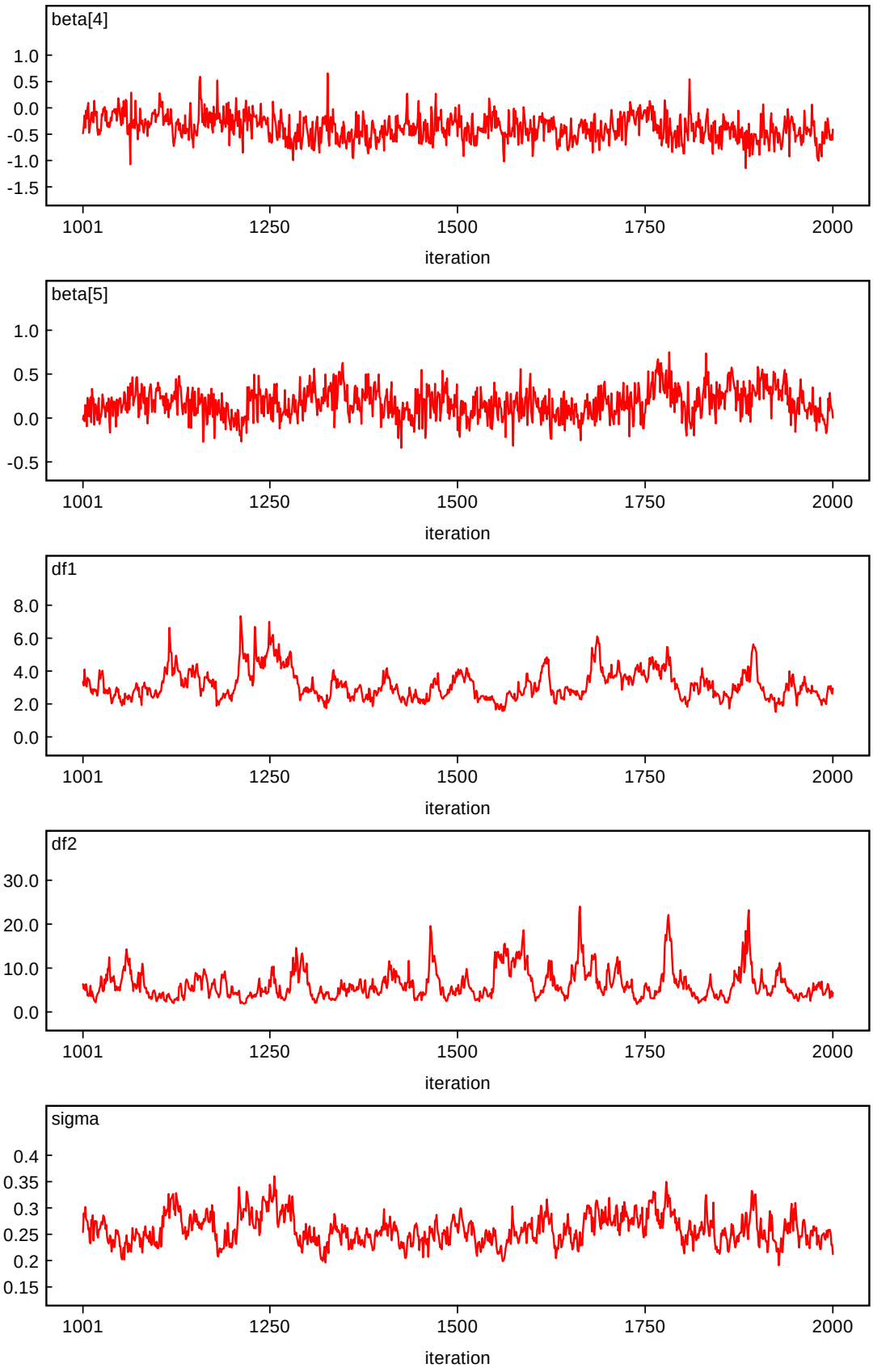

alphasign[7]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration

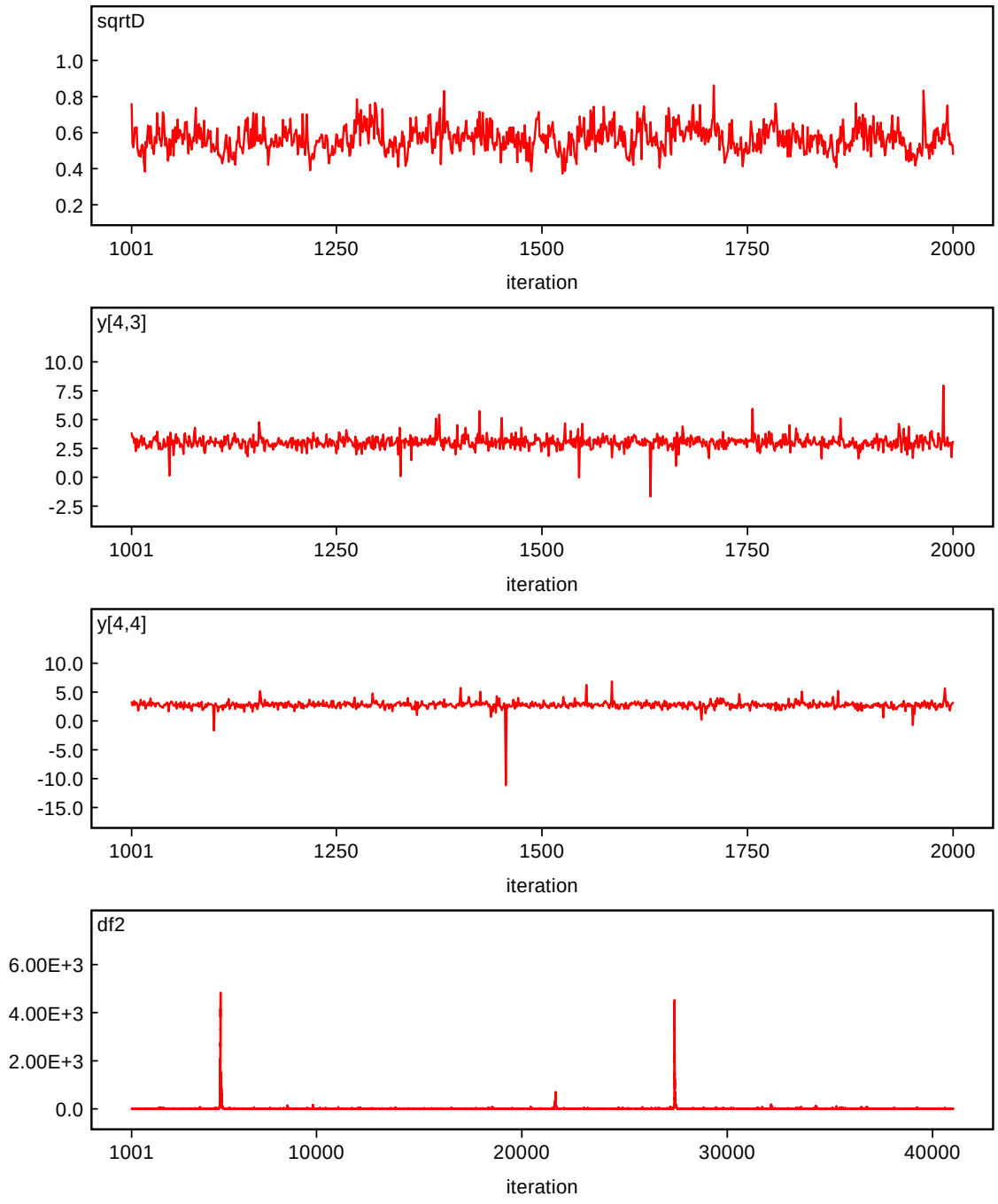

alphasign[8]
1.0
0.5
0.0
1001
1250
1500
1750
2000
iteration


beta[1]
0.5
0.0
-0.5
-1.0
1001
1250
1500
1750
2000
iteration


beta[2]
0.5
0.0
-0.5
-1.0
1001
1250
1500
1750
2000
iteration


beta[3]
0.0
-0.5
-1.0
-1.5
1001
1250
1500
1750
2000
iteration


beta[4]
1.0
0.5
0.0
-0.5
-1.0
-1.5
1001
1250
1500
1750
2000
iteration
beta[5]
1.0
0.5
0.0
-0.5
1001
1250
1500
1750
2000
iteration
df1
8.0
6.0
4.0
2.0
0.0
1001
1250
1500
1750
2000
iteration
df2
30.0
20.0
10.0
0.0
1001
1250
1500
1750
2000
iteration
sigma
0.4
0.35
0.3
0.25
0.2
0.15
1001
1250
1500
1750
2000
iteration


sqrtD
1.0
0.8
0.6
0.4
0.2
1001
1250
1500
1750
2000
iteration
y[4,3]
10.0
7.5
5.0
2.5
0.0
-2.5
1001
1250
1500
1750
2000
iteration
y[4,4]
10.0
5.0
0.0
-5.0
-10.0
-15.0
1001
1250
1500
1750
2000
iteration
df2
6.00E+3
4.00E+3
2.00E+3
0.0
1001
10000
20000
30000
40000
iteration