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## **The MCMC Procedure**

Number of Observations Read 651 Number of Observations Used 651

Missing Data Information Table						
Variable	_	Observation Indices	Sampling Method	Threads		
PA_m	271	24 25 26 27 31 34 35 36 37 38 39 40 50 56 69 70 72 73 78 87	Direct	12		

	Parameters							
Block	Parameter	Sampling Method	Threads	Initial Value	Prior Distribution			
1	a0	N-Metropolis	12	0.4050	normal(0,var=100)			
	a1			0.3872	normal(0,var=100)			
	a2			0.0258	normal(0,var=100)			
	a3			0.0945	normal(0,var=100)			
	a6			-0.9483	normal(0,var=100)			
	a7a			0.0112	normal(0,var=100)			
	a7b			-0.6152	normal(0,var=100)			
	а7с			0.5691	normal(0,var=100)			
	a7d			-1.4874	normal(0,var=100)			
	a7e			-0.4449	normal(0,var=100)			
	a8c			-0.0629	normal(0,var=100)			
	alp0			2.2103	normal(0,var=100)			
2	b0	N-Metropolis	12	0.5000	normal(0,var=100)			
	b1			0	normal(0,var=100)			
	b2			0	normal(0,var=100)			
	b3			0	normal(0,var=100)			
	<b>b6</b>			0	normal(0,var=100)			
	b7a			0	normal(0,var=100)			
	b7b			0	normal(0,var=100)			
	b7c			0	normal(0,var=100)			
	b7d			0	normal(0,var=100)			
	b7e			0	normal(0,var=100)			
	b8c			0	normal(0,var=100)			

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	alp_b0			1.0000	normal(0,var=100)
3	tau0	N-Metropolis	12	0.4318	normal(0,var=100)
	tau1			0	normal(0,var=100)
	tau2			0	normal(0,var=100)
	tau3			0	normal(0,var=100)
	tau6			0	normal(0,var=100)
	tau7a			0	normal(0,var=100)
	tau7b			0	normal(0,var=100)
	tau7c			0	normal(0,var=100)
	tau7d			0	normal(0,var=100)
	tau7e			0	normal(0,var=100)
	tau8c			0	normal(0,var=100)
4	rhoba	Slice	12	0	uniform(-1,1)

Random Effect Parameters							
Parameter	Sampling Method	Threads	Subject		Subject Values	Prior Distribution	
b	N- Metropolis	12	MRID	84	30886 30980 30997 31009 31052 31309 31540 31641 31738 31820 31915 32001 32113 32137 32146 32336 32399 32407 32433 32627	MVNormal (mu,cov)	

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## **The MCMC Procedure**

Posterior Summaries and Intervals						
Parameter	N	Mean	Standard Deviation	95% HPD Interval		
a0	10000	1.1519	0.5863	0.0220	2.3090	
a1	10000	-0.6644	0.2400	-1.1323	-0.1877	
a2	10000	-0.4818	0.5133	-1.4866	0.5205	
a3	10000	-1.1323	0.5587	-2.2675	-0.0798	
a6	10000	-0.5974	0.4238	-1.4512	0.1979	
a7a	10000	0.8292	0.6825	-0.4893	2.1858	
a7b	10000	0.1145	0.6773	-1.2278	1.4365	
а7с	10000	0.9939	0.5893	-0.1602	2.1566	
a7d	10000	-1.0211	0.7612	-2.5213	0.5020	
а7е	10000	0.0206	0.4881	-0.9609	0.9721	
a8c	10000	0.3849	0.5531	-0.7346	1.4267	
alp0	10000	1.3444	0.2845	0.7622	1.8809	
b0	10000	1.3180	0.2906	0.7260	1.8689	
b1	10000	-0.1336	0.0860	-0.2962	0.0403	
b2	10000	0.00479	0.2893	-0.5502	0.5764	
b3	10000	-0.1358	0.2980	-0.7078	0.4615	
b6	10000	0.1372	0.2649	-0.3949	0.6483	
b7a	10000	-0.2468	0.3816	-0.9963	0.4946	
b7b	10000	0.8895	0.3698	0.1567	1.6008	
b7c	10000	-0.1448	0.3283	-0.7756	0.5235	
b7d	10000	0.1829	0.4143	-0.6311	0.9793	
b7e	10000	0.3229	0.2859	-0.2141	0.9056	
b8c	10000	0.3027	0.2852	-0.2383	0.8711	
alp_b0	10000	-0.0485	0.2636	-0.5628	0.4640	
tau0	10000	-0.3586	0.2148	-0.7912	0.0579	
tau1	10000	0.1441	0.2269	-0.3091	0.5707	
tau2	10000	-0.3327	0.2232	-0.7597	0.1029	
tau3	10000	0.0829	0.2437	-0.3871	0.5684	
tau6	10000	0.7451	0.2191	0.3224	1.1825	
tau7a	10000	-0.4072	0.2812	-0.9276	0.1749	

personality does not predict whether or not someone engages in PA

conscientiousness
predicts time spent
engaged (conditional that
any positive amount of
time was spent); higher
conscientiousness =
greater time spent

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tau7b	10000	2.5627	0.2208	2.1485	3.0083
tau7c	10000	0.1404	0.2809	-0.4026	0.6898
tau7d	10000	0.7271	0.2851	0.1912	1.3061
tau7e	10000	1.6699	0.1999	1.2810	2.0593
tau8c	10000	0.0690	0.2317	-0.3894	0.5167
rhoba	10000	-0.0506	0.1714	-0.3747	0.2868

—higher conscientiousness = greater day-to-day variability in time spent

higher agreeableness = greater day-to-day variability in time spent

higher neuroticism = greater day-to-day variability in time spent SAS Output Page 5 of 42

## **The MCMC Procedure**

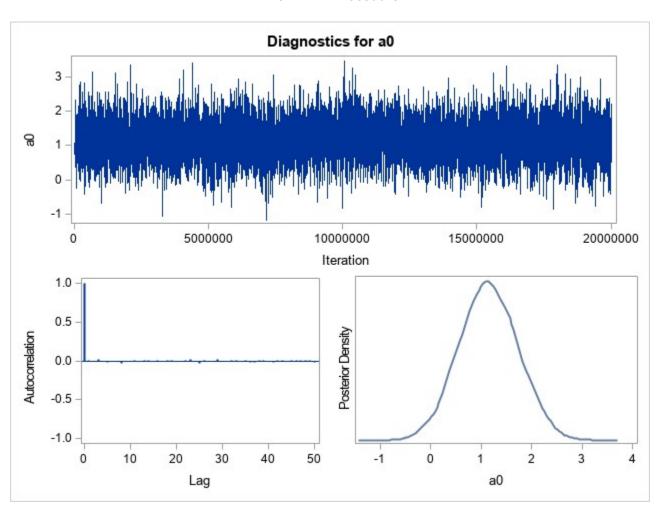
Effective Sample Sizes						
Parameter	ESS	Autocorrelation Time	Efficiency			
a0	10000.0	1.0000	1.0000			
a1	9768.5	1.0237	0.9768			
a2	9476.0	1.0553	0.9476			
a3	10000.0	1.0000	1.0000			
a6	9633.4	1.0381	0.9633			
a7a	10000.0	1.0000	1.0000			
a7b	10000.0	1.0000	1.0000			
а7с	10414.5	0.9602	1.0414			
a7d	10000.0	1.0000	1.0000			
a7e	9768.3	1.0237	0.9768			
a8c	10000.0	1.0000	1.0000			
alp0	10000.0	1.0000	1.0000			
b0	3013.8	3.3181	0.3014			
b1	9494.7	1.0532	0.9495			
b2	2190.9	4.5644	0.2191			
b3	5120.0	1.9531	0.5120			
b6	2188.8	4.5686	0.2189			
b7a	4035.7	2.4779	0.4036			
b7b	1363.6	7.3333	0.1364			
b7c	1575.2	6.3484	0.1575			
b7d	1686.3	5.9303	0.1686			
b7e	2682.3	3.7282	0.2682			
b8c	3032.2	3.2979	0.3032			
alp_b0	4165.3	2.4008	0.4165			
tau0	10000.0	1.0000	1.0000			
tau1	10000.0	1.0000	1.0000			
tau2	9637.9	1.0376	0.9638			
tau3	9760.7	1.0245	0.9761			
tau6	9775.3	1.0230	0.9775			
tau7a	9559.7	1.0461	0.9560			

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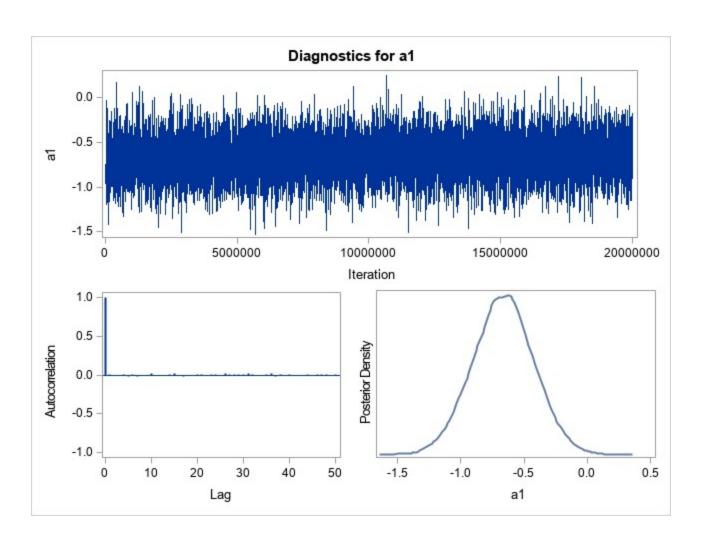
tau7b	10000.0	1.0000	1.0000
tau7c	10000.0	1.0000	1.0000
tau7d	10000.0	1.0000	1.0000
tau7e	10000.0	1.0000	1.0000
tau8c	10000.0	1.0000	1.0000
rhoba	9214.5	1.0852	0.9214

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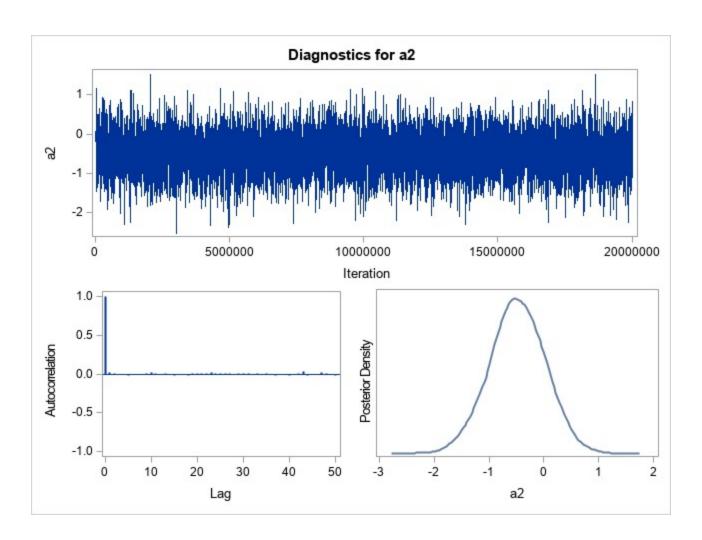




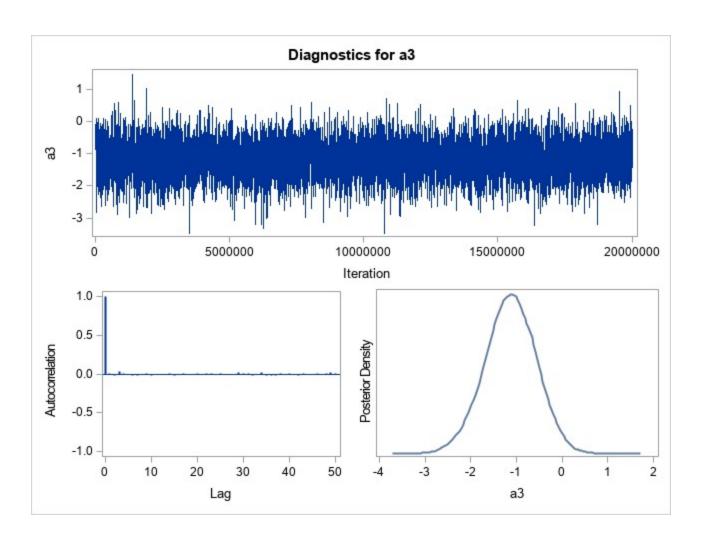
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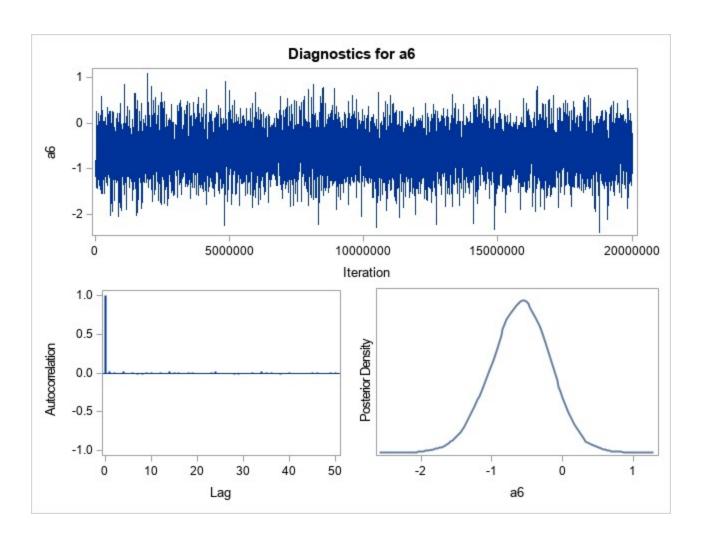
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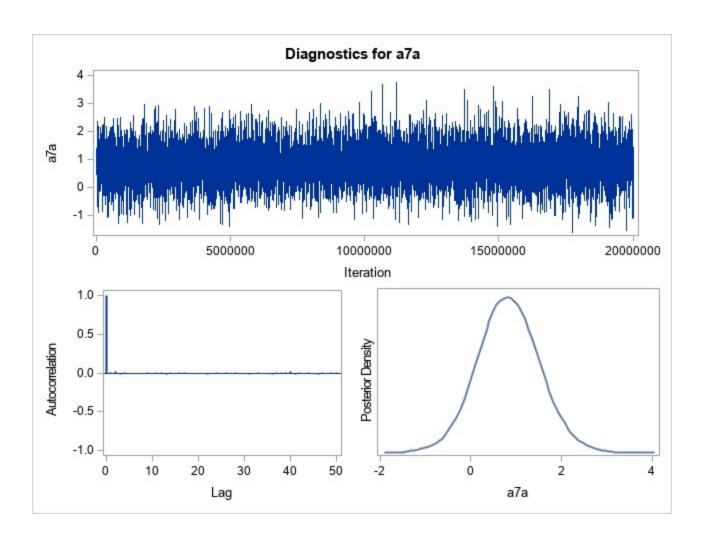
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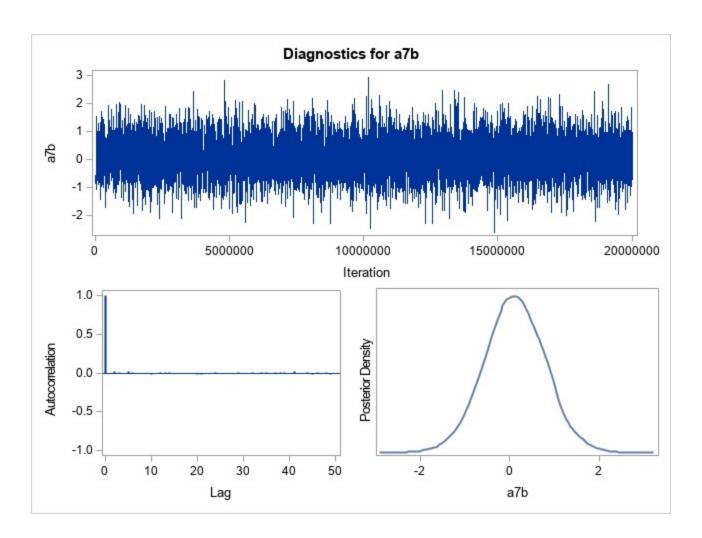
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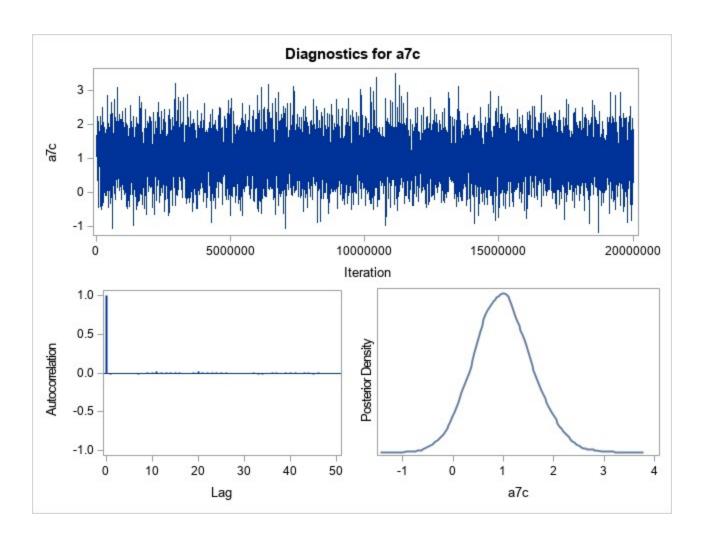
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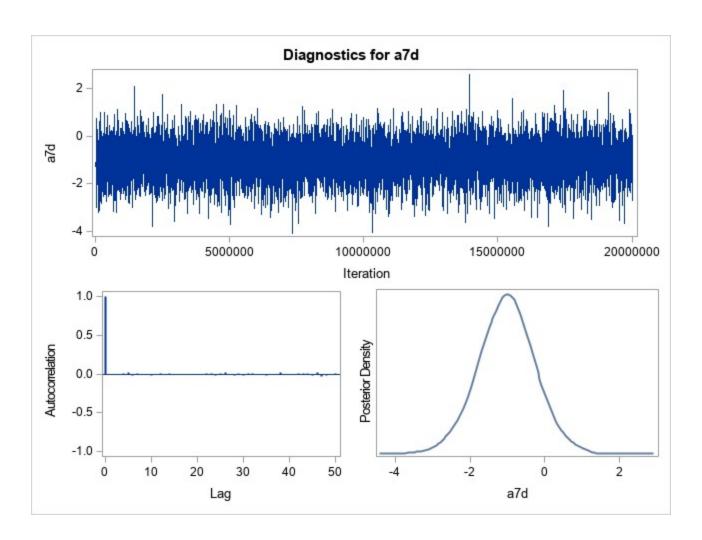
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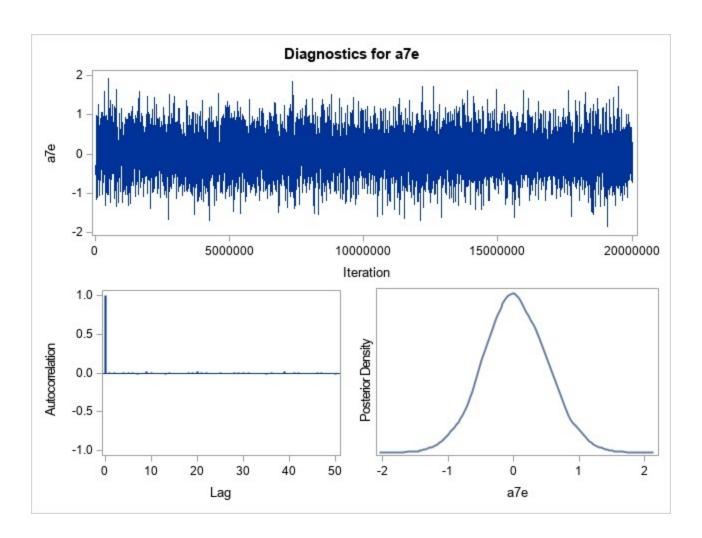
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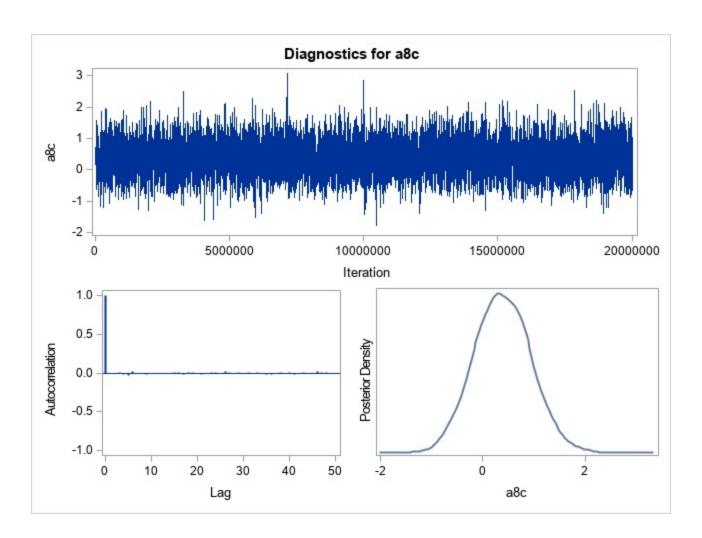
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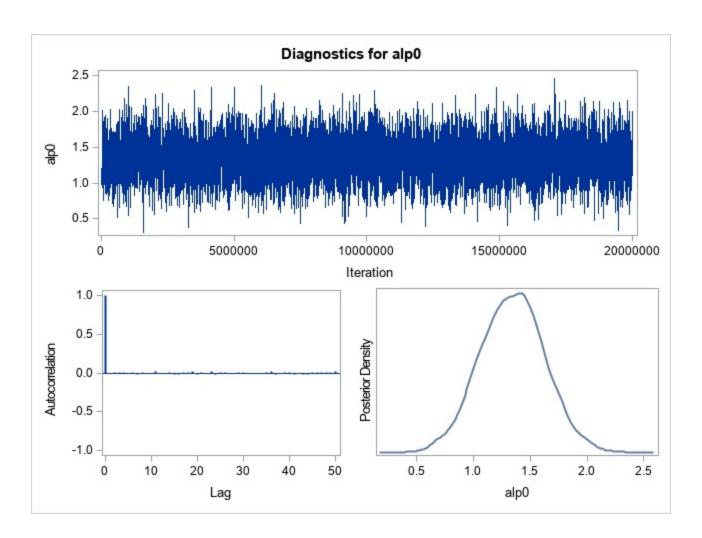
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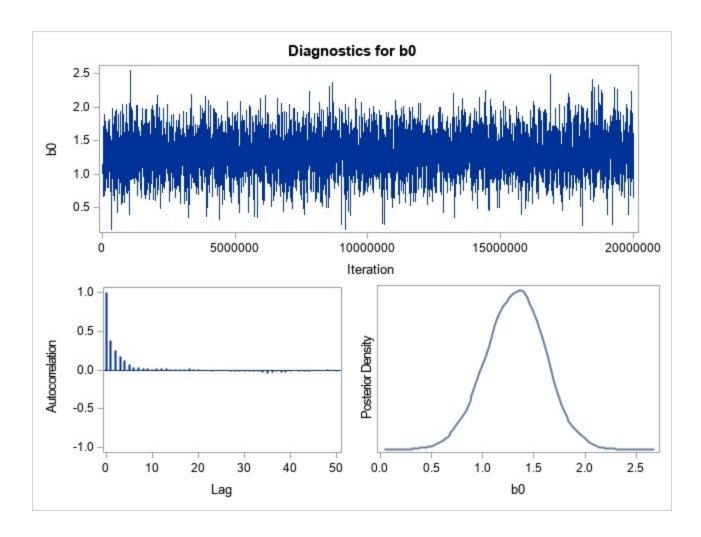
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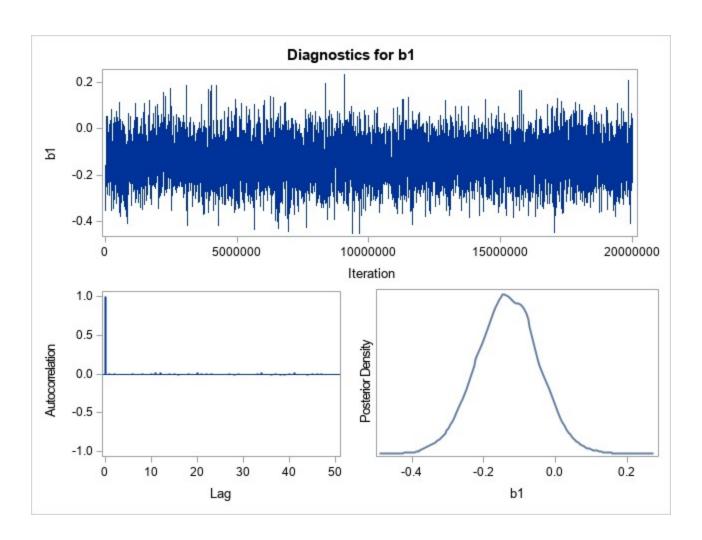
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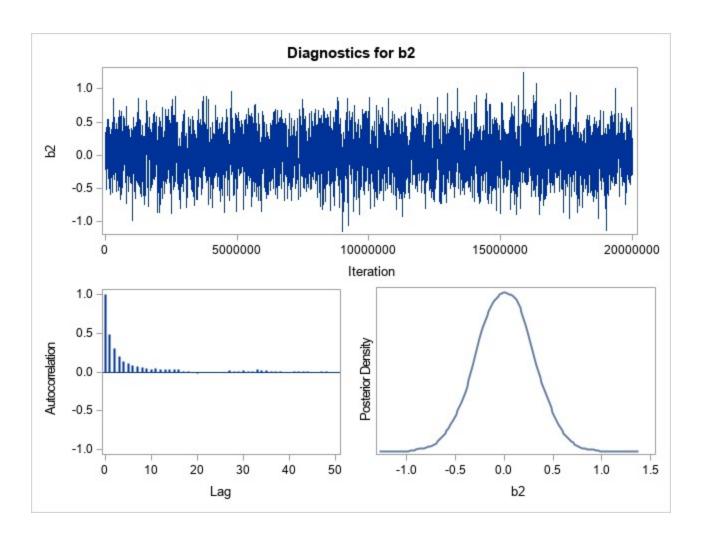
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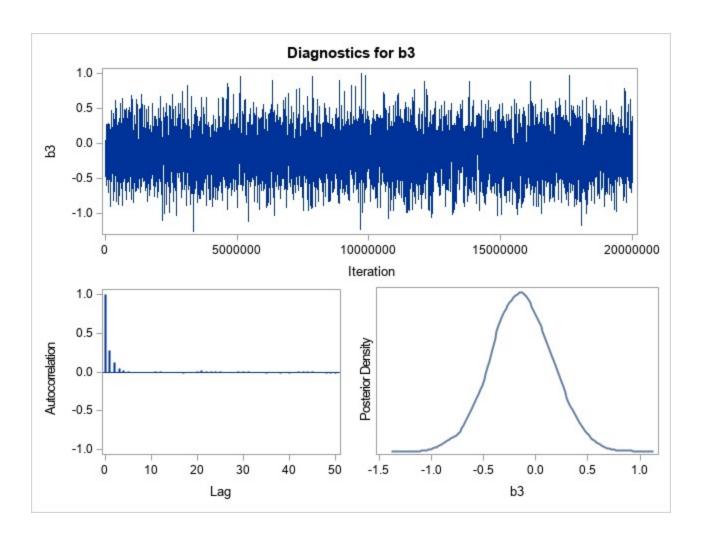
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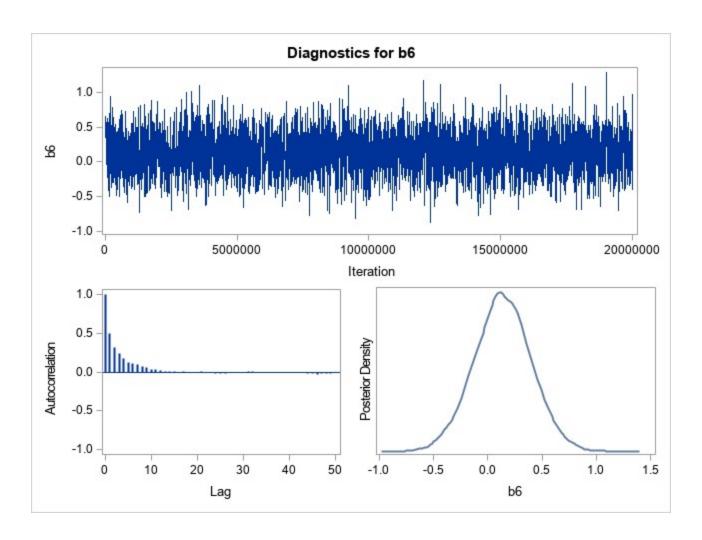
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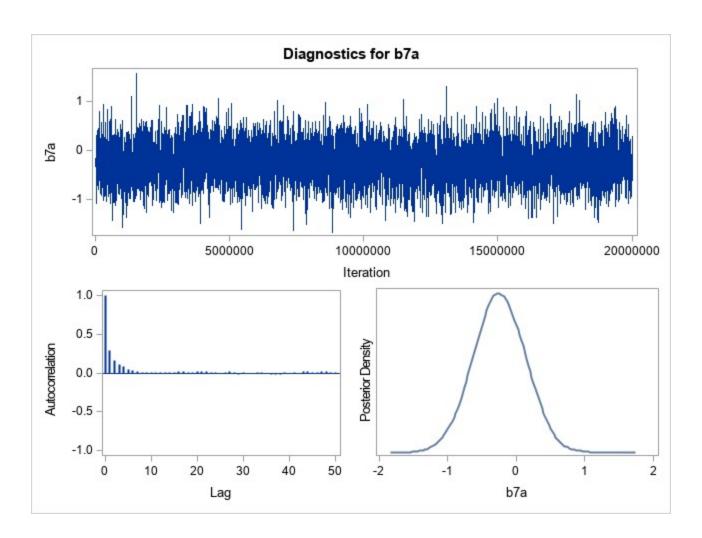
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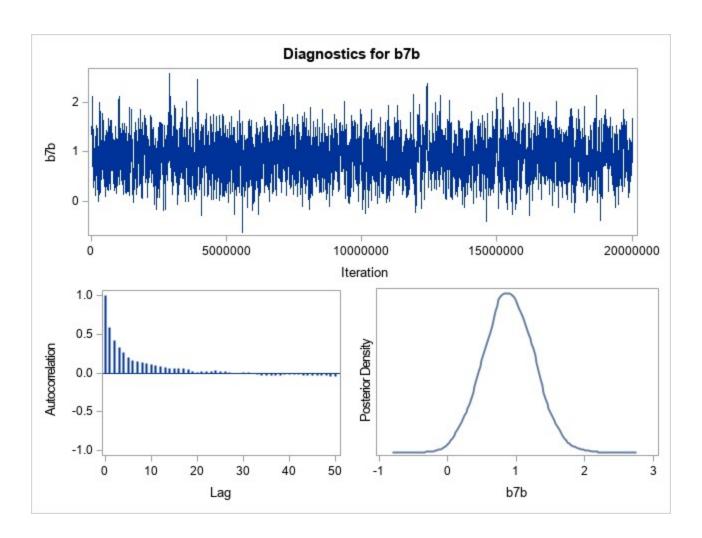
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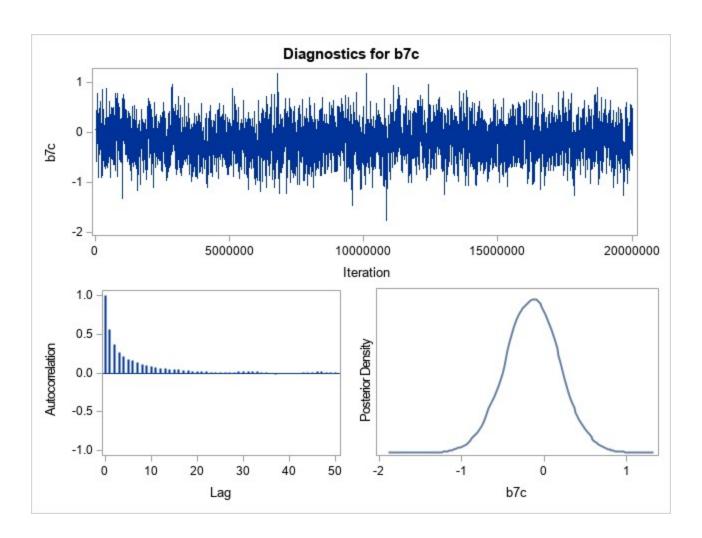
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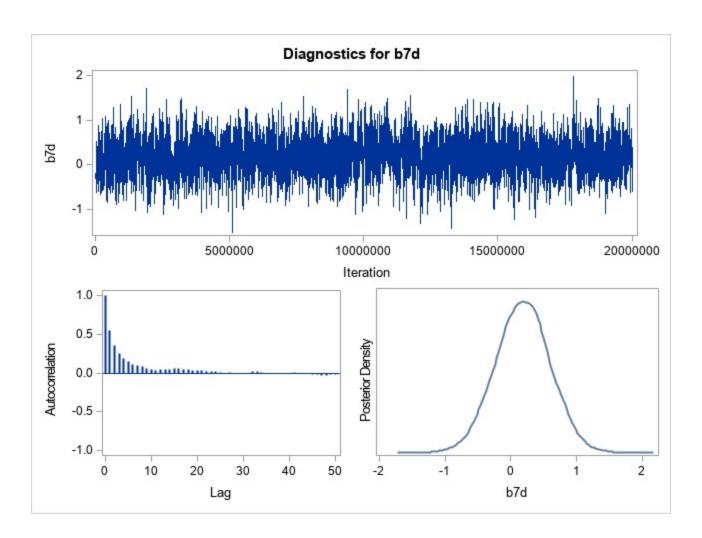
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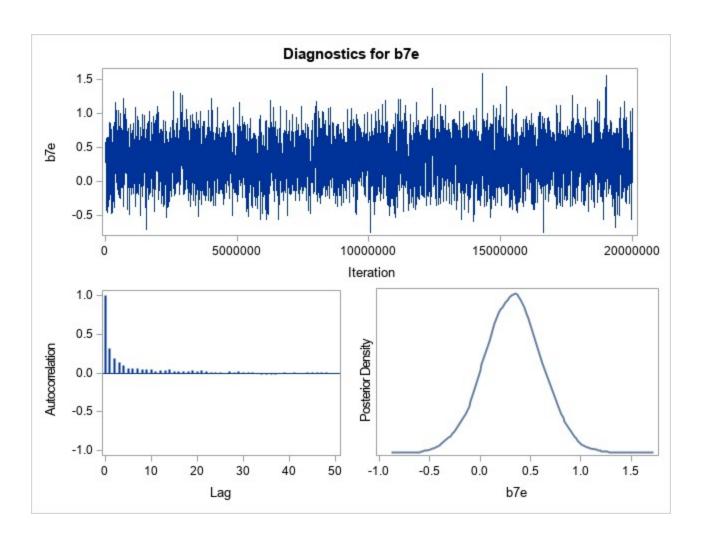
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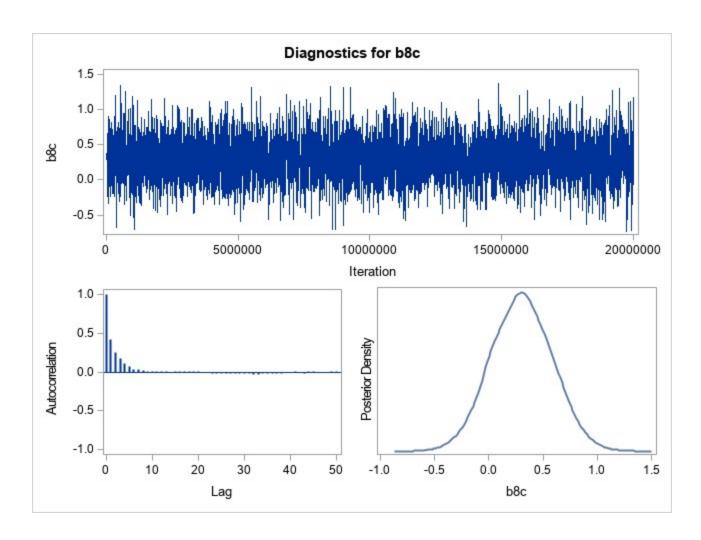
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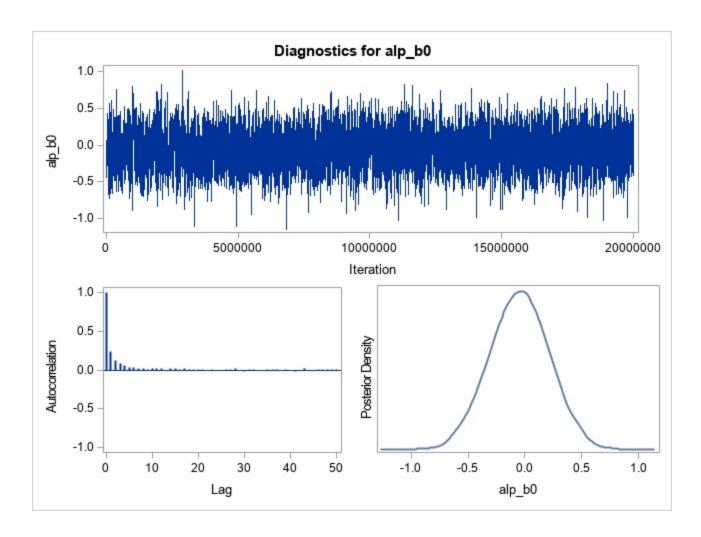
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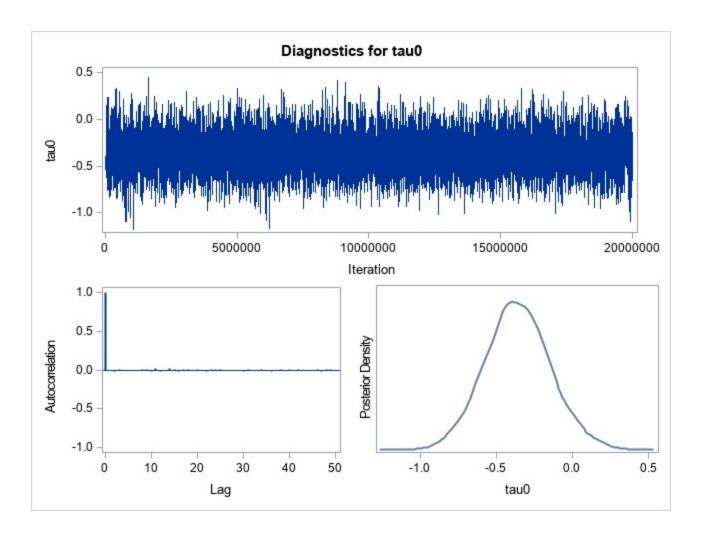
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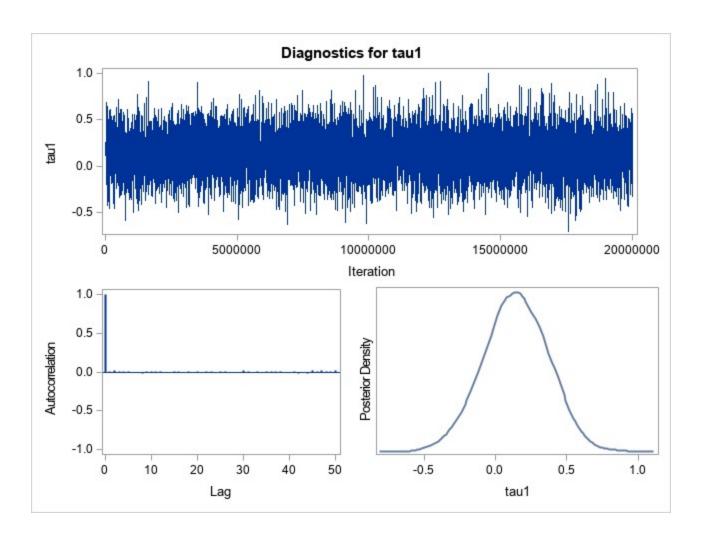
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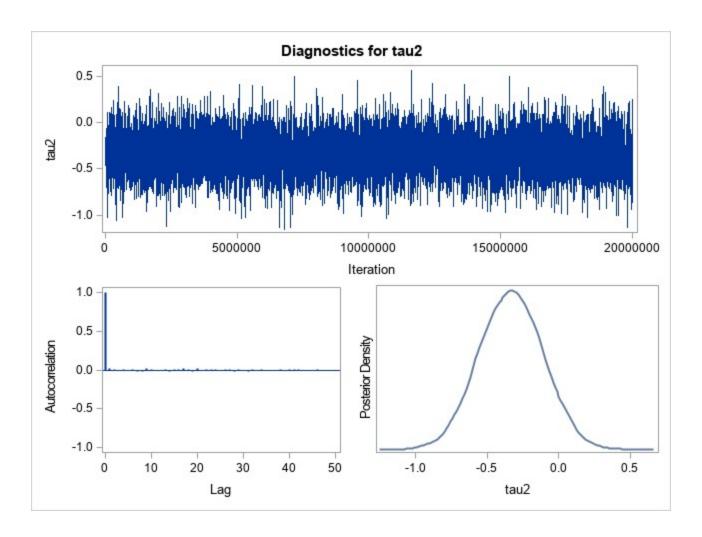
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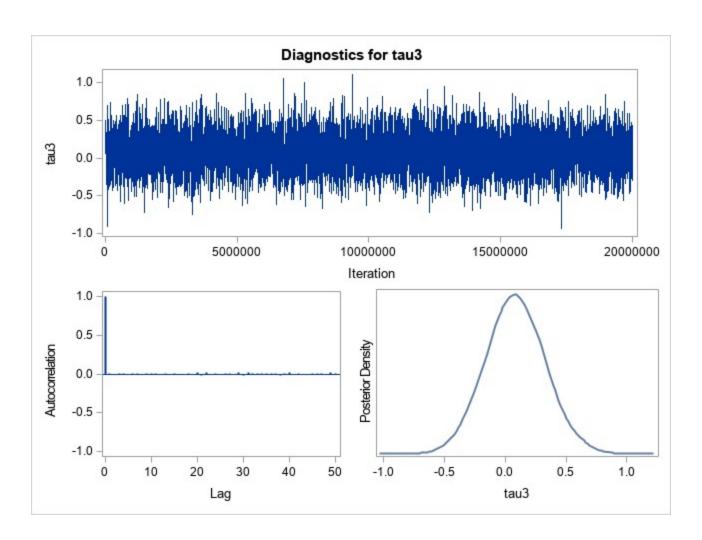
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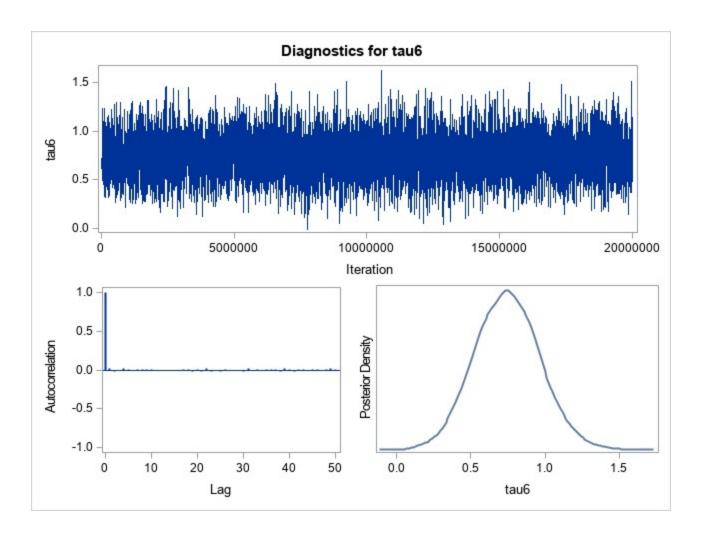
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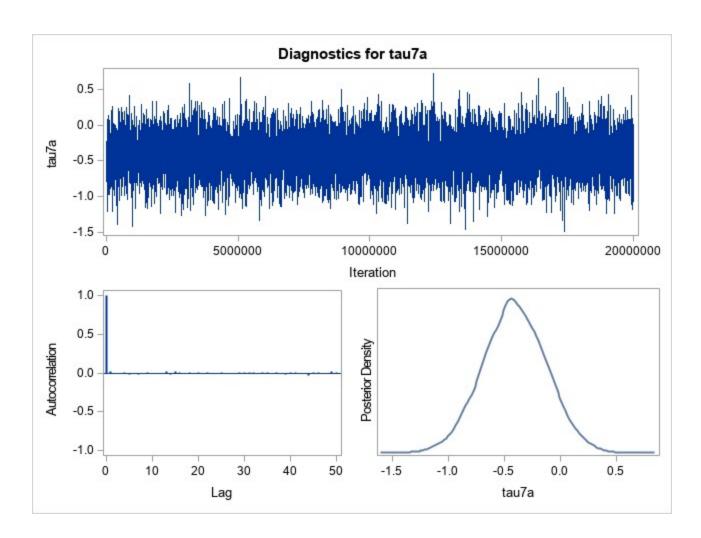
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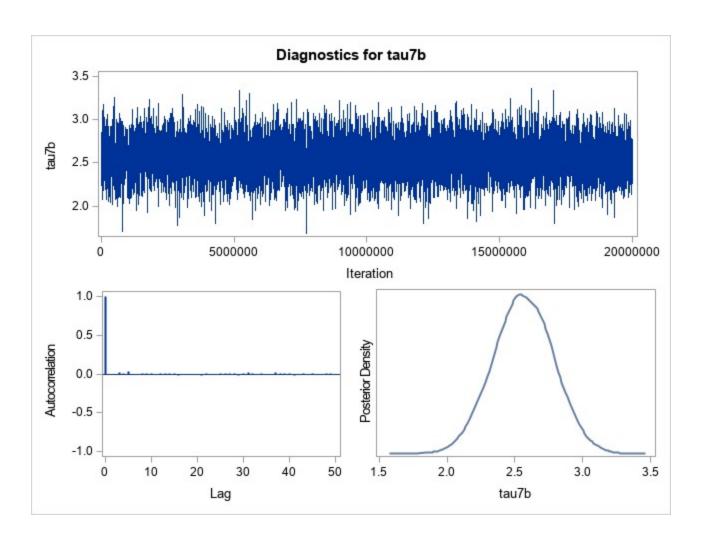
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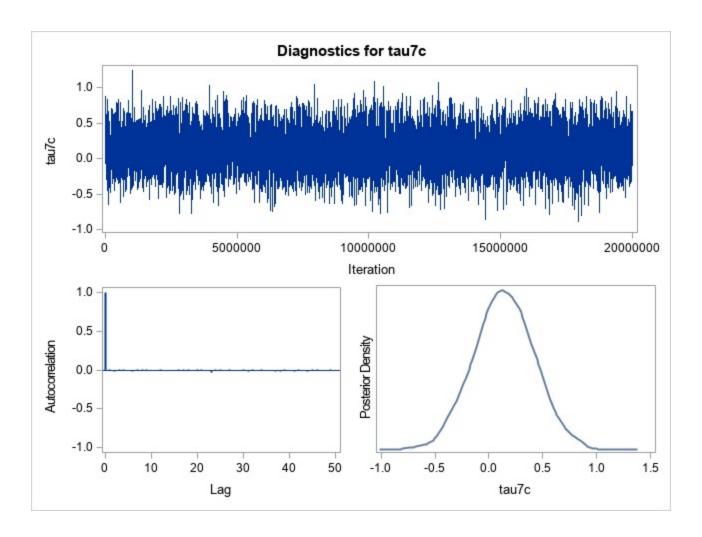
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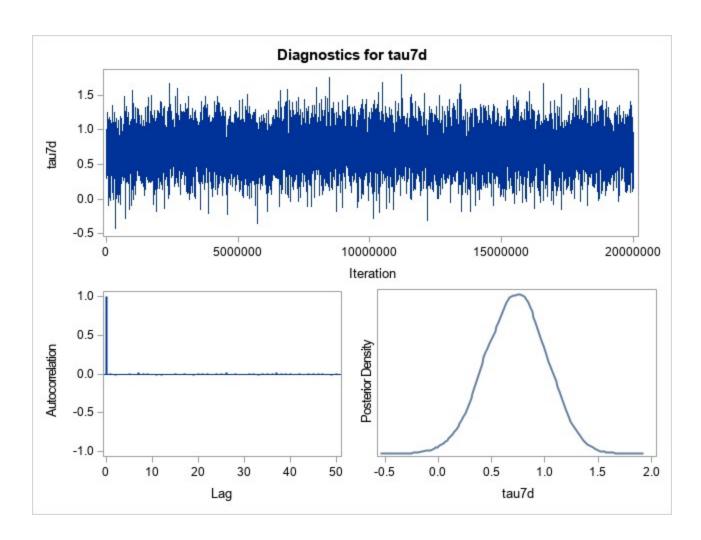
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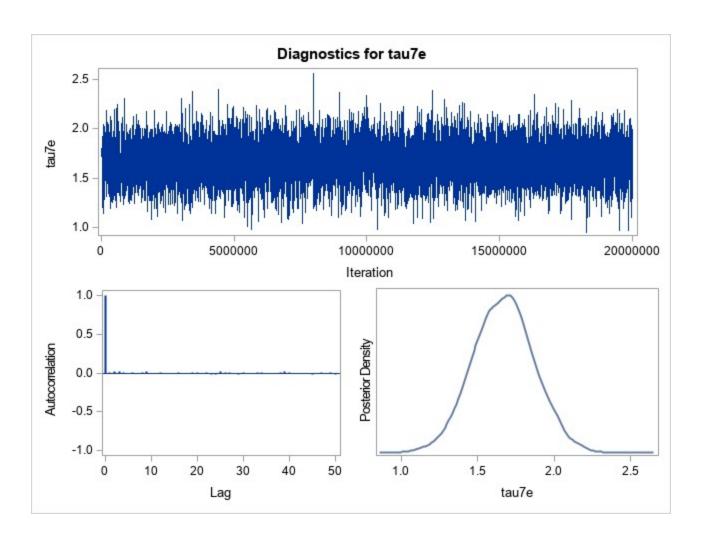
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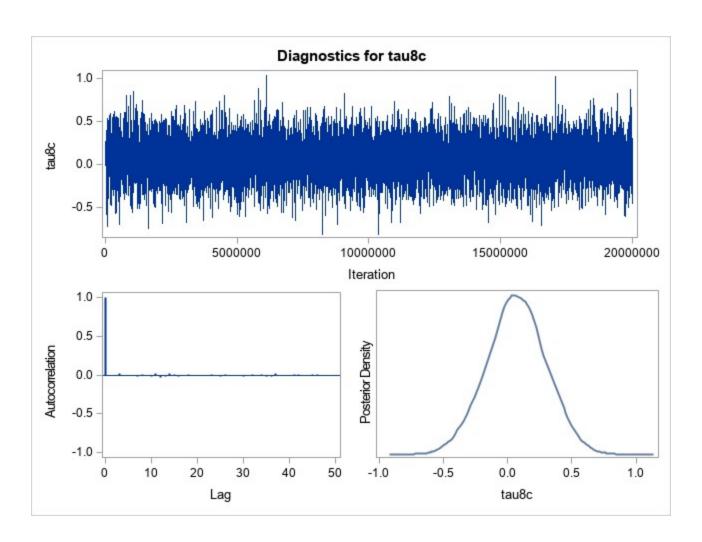
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