88.1	model_param = 0 variable = mean	model_param = 0 variable = std	model_param = 0 variable = rhat 0.006	model_param = 0 variable = ess/grad_eval	model_param = 0 variable = ess^2/grad_eval	model_param = 0 variable = accept_total	model_param = 0 variable = accept_0	model_param = 0 variable = accept_1	model_param = 0 variable = accept_2
88.0	1.	1.0	.04			1.0000	1.0000	0.0	0.0
	•		0.005		0.005	0.9995	0.9995	-0.2	-0.2
87.9	0.	1.0	0.004		0.004	0.9990	0.9990		
87.8 <u>n</u> e	0.	1.6	0.003		0.002			-0.4	-0.4
87.7		1.0	.02		0.003	0.9985	0.9985	-0.6	-0.6
87.6	0.	1.0	0.002		0.002	0.9980	0.9980		
87.5	• • •	.2	0.001		0.001	0.9975	0.9975	-0.8	-0.8
87.4	•	3	.00			••	••	-1.0	-1.0
drg	${ m ghmc}$ ${ m drhmc}$ ${ m ghmc}$ ${ m hmc}$ ${ m ref}$ ${ m model_param} = 1 \mid { m variable} = { m mean}$	$drghmc$ $drhmc$ $ghmc$ hmc ref $model_param = 1 \mid variable = std$	${ m drghmc}$ ${ m drhmc}$ ${ m ghmc}$ ${ m hmc}$ ${ m ref}$ ${ m model_param} = 1 \mid { m variable} = { m rhat}$	$drghmc$ $drhmc$ $ghmc$ hmc $model_param = 1 \mid variable = ess/grad_eval$	drghmc drhmc ghmc hmc $ model_param = 1 \mid variable = ess^2/grad_eval $	drghmc drhmc ghmc hmc model_param = 1 variable = accept_total	drghmc drhmc ghmc hmc $model_param = 1 \mid variable = accept_0$	drghmc drhmc model_param = 1 variable = accept_1	drghmc drhmc model_param = 1 variable = accept_2
4.5	2.	.5	.35 0.0016		.0016	1.0000	1.0000	0.0	0.0
4.0	3	1.3	.30 0.0014	0.	.0014	0.9995	0.9995	-0.2	-0.2
3.5	2.	1.2	.25 0.0012	2	.0012				
3.0 en	1.	.5	.20 0.0010	0.	.0010	U. 333U	U.∃∃∃∃U —	-0.4	-0.4
¯		1.1	.15 0.0008	0.	.0008	0.9985	0.9985	-0.6	-0.6
2.0	1.	.0	.10 0.0006	0.	.0006	0.9980	0.9980		
1.5	0.	1.0	.05 0.0004	• o.	.0004	0.0075	0.0075	-0.8	-0.8
0.5	•	1.0	.00 •• 0.0002	o.	.0002	O.5575	0.9975	-1.0	-1.0
dr <u>c</u>	ghmc drhmc ghmc hmc ref model_param = 2 variable = mean	drghmc drhmc ghmc hmc ref model_param = 2 variable = std	drghmc drhmc ghmc hmc ref model_param = 2 variable = rhat	drghmc drhmc ghmc hmc model_param = 2 variable = ess/grad_eval	drghmc drhmc ghmc hmc model_param = 2 variable = ess^2/grad_eval	drghmc drhmc ghmc hmc model_param = 2 variable = accept_total	drghmc drhmc ghmc hmc model_param = 2 variable = accept_0	drghmc drhmc model_param = 2 variable = accept_1	drghmc drhmc model_param = 2 variable = accept_2
0.605	•		• •• • • • • • • • • • • • • • • • • •		0.08	1.0000 ••	1.0000 ••• • • •	0.0 ••••	0.0
0.600	0.0	1.02	0.07			0.9995	0.9995		
	0.0	05	0.06		0.06			-0.2	-0.2
0.595	0.0	1.01	0.05			0.9990	0.9990	-0.4	-0.4
0.590	•	1.01	0.04		0.04	0.9985	0.9985		0.6
0.585	0.0	03	0.03			0.9980	0.9980	-0.6	-0.6
0.580	0.0	1.00	0.02		0.02	•• •	<u> </u>	-0.8	-0.8
0.575	0.0	1.00	0.01			0.9975	0.9975	-1.0 •• ••	-1.0
drg	ghmc drhmc ghmc hmc ref	drghmc drhmc ghmc hmc ref	drghmc drhmc ghmc hmc ref	drghmc drhmc ghmc hmc	drghmc drhmc ghmc hmc	drghmc drhmc ghmc hmc	drghmc drhmc ghmc hmc	drghmc drhmc	drghmc drhmc
	model_param = 3 variable = mean 0.1	model_param = 3 variable = std	model_param = 3 variable = rhat .06	model_param = 3 variable = ess/grad_eval	model_param = 3 variable = ess^2/grad_eval	model_param = 3 variable = accept_total 1.0000 •••	model_param = 3 variable = accept_0 1.0000	model_param = 3 variable = accept_1 0.0	model_param = 3 variable = accept_2 0.0
-0.44	0.1	1.0	0.030						
-0.46	0.1	12	0.025		0.025	U.9995	U.9995 	-0.2	-0.2
-0.48		1.0	0.020		0.020	0.9990	0.9990	-0.4	-0.4
-0.50	•	1.0	.03		0.015	0.9985	0.9985		
-0.52	0.0	1.0	.02		0.010	0.0090	0.0080	-0.6	-0.6
-0.54	0.0	1.0	.01		0.010	0.5900	-	-0.8	-0.8
5,54	0.0	02	0.005		0.005	0.9975	0.9975		
-0.56 drg	ghmc drhmc ghmc hmc ref	drghmc drhmc ghmc hmc ref	drghmc drhmc ghmc hmc ref	drghmc drhmc ghmc hmc	0.000 drghmc drhmc ghmc hmc	drghmc drhmc ghmc hmc	drghmc drhmc ghmc hmc	-1.0 drghmc drhmc	−1.0
	model_param = 4 variable = mean	model_param = 4 variable = std	model_param = 4 variable = rhat	model_param = 4 variable = ess/grad_eval	model_param = 4 variable = ess^2/grad_eval	model_param = 4 variable = accept_total	model_param = 4 variable = accept_0	model_param = 4 variable = accept_1 0.0	model_param = 4 variable = accept_2
2.894	0.03		0.14		0.14				
2 802	0.03	1.0012	0.12		0.12	0.9995	0.9995	-0.2	-0.2
2.032	0.02	1.0010	0.10		0.10	0.9990	0.9990	-0.4	-0.4
2.890	0.02	1.0007	0.08		0.08	0.9985	0.9985		
	• 0.01	1.0003	0.06		0.06			-0.6	-0.6
2.888	0.01	1.0002	0.04		0.04	0.9980	0.9980	-0.8	-0.8
2.886		0.9997	0.02 975		0.02	0.9975	0.9975		
•	0.00	drahma drhma ahara hara a	drahma drhma shara hara sa shara sha	drahma drhma	0.00 drahms drhms abms bms	drahme drhme ahme hme	drahme ahme hme	-1.0 • • • • drahms	-1.0 • •• drahms
dr <u>g</u>					drghmc drhmc ghmc hmc sampler		drghmc drhmc ghmc hmc sampler	argnmc arhmc sampler	argnmc armpler