

NIBAS(null)	10.478	9.979	10.976	5.093	0.051	-0.0011	0.0105
RIEPS(sample)	9.692	8.883	10.501	14.515	0.145	-0.0760	0.0772
NIBAS(sample)	10.517	10.027	11.008	4.909	0.049	0.0027	0.0107
RIEPS(full)	9.713	8.911	10.515	14.531	0.145	-0.0740	0.0751
NIBAS(full)	10.505	10.008	11.002	4.879	0.049	0.0016	0.0113
MHL	10.473	10.203	10.742	1.841	0.018	-0.0016	0.0017
[Z3]							
RIEPS(null)	10.484	10.142	10.827	2.863	0.029	-0.0004	0.0033
NIBAS(null)	10.473	10.131	10.815	2.711	0.027	-0.0015	0.0050
RIEPS(sample)	10.507	10.208	10.807	2.239	0.022	0.0018	0.0027
NIBAS(sample)	10.500	10.183	10.818	2.315	0.023	0.0011	0.0048
RIEPS(full)	10.507	10.209	10.804	2.200	0.022	0.0017	0.0027
NIBAS(full)	10.501	10.181	10.820	2.271	0.023	0.0011	0.0054
MHL	10.527	10.255	10.798	1.840	0.018	0.0037	0.0040

付表 1-2 Data A の相関係数 (同時分布特性)

Model	Cor(logX, logY)							
	Cor	lower	upper	Z(Cor)	W	B	bias	mse
TRUE A	0.910	0.893	0.924	1.526	0.0020	—	—	—
[Z123]								
RIEPS(null)	0.818	0.781	0.850	1.152	0.0020	0.0007	-0.0600	0.0603
NIBAS(null)	0.813	0.774	0.846	1.137	0.0020	0.0008	-0.0633	0.0636
RIEPS(sample)	0.880	0.854	0.901	1.374	0.0020	0.0007	-0.0197	0.0201
NIBAS(sample)	0.870	0.840	0.894	1.332	0.0020	0.0010	-0.0263	0.0268
RIEPS(full)	0.890	0.865	0.910	1.420	0.0020	0.0009	-0.0133	0.0139
NIBAS(full)	0.876	0.847	0.900	1.359	0.0020	0.0012	-0.0222	0.0228
MHL	0.809	0.776	0.838	1.124	0.0020	0.0000	-0.0661	0.0661
[Z12]								
RIEPS(null)	0.818	0.781	0.850	1.152	0.0020	0.0007	-0.0826	0.0830
NIBAS(null)	0.813	0.774	0.846	1.137	0.0020	0.0008	-0.0861	0.0864
RIEPS(sample)	0.880	0.854	0.901	1.374	0.0020	0.0007	-0.0398	0.0402
NIBAS(sample)	0.870	0.840	0.894	1.332	0.0020	0.0010	-0.0527	0.0533
RIEPS(full)	0.890	0.865	0.910	1.420	0.0020	0.0009	-0.0346	0.0351
NIBAS(full)	0.876	0.847	0.900	1.359	0.0020	0.0012	-0.0496	0.0500
MHL	0.809	0.776	0.838	1.124	0.0020	0.0000	-0.0828	0.0996
[Z13]								
RIEPS(null)	0.818	0.781	0.850	1.152	0.0020	0.0007	-0.0703	0.0706
NIBAS(null)	0.813	0.774	0.846	1.137	0.0020	0.0008	-0.0732	0.0735
RIEPS(sample)	0.880	0.854	0.901	1.374	0.0020	0.0007	-0.0227	0.0231
NIBAS(sample)	0.870	0.840	0.894	1.332	0.0020	0.0010	-0.0302	0.0308
RIEPS(full)	0.890	0.865	0.910	1.420	0.0020	0.0009	-0.0176	0.0182
NIBAS(full)	0.876	0.847	0.900	1.359	0.0020	0.0012	-0.0259	0.0264
MHL	0.809	0.776	0.838	1.124	0.0020	0.0000	-0.0720	0.0787
[Z23]								
RIEPS(null)	0.818	0.781	0.850	1.152	0.0020	0.0007	-0.1785	0.1788
NIBAS(null)	0.813	0.774	0.846	1.137	0.0020	0.0008	-0.1806	0.1809
RIEPS(sample)	0.880	0.854	0.901	1.374	0.0020	0.0007	-0.038	0.0384
NIBAS(sample)	0.870	0.840	0.894	1.332	0.0020	0.0010	-0.0578	0.0583
RIEPS(full)	0.890	0.865	0.910	1.420	0.0020	0.0009	-0.0214	0.0217
NIBAS(full)	0.876	0.847	0.900	1.359	0.0020	0.0012	-0.0425	0.0429

MHL	0.809	0.776	0.838	1.124	0.0020	0.0000	-0.1838	0.2015
[Z1]								
RIEPS(null)	0.818	0.781	0.850	1.152	0.0020	0.0007	-0.1056	0.1059
NIBAS(null)	0.813	0.774	0.846	1.137	0.0020	0.0008	-0.1143	0.1149
RIEPS(sample)	0.880	0.854	0.901	1.374	0.0020	0.0007	-0.0696	0.0700
NIBAS(sample)	0.870	0.840	0.894	1.332	0.0020	0.0010	-0.0837	0.0840
RIEPS(full)	0.890	0.865	0.910	1.420	0.0020	0.0009	-0.0659	0.0663
NIBAS(full)	0.876	0.847	0.900	1.359	0.0020	0.0012	-0.0825	0.0831
MHL	0.809	0.776	0.838	1.124	0.0020	0.0000	-0.1131	0.1518
[Z2]								
RIEPS(null)	0.818	0.781	0.850	1.152	0.0020	0.0007	-0.4478	0.4483
NIBAS(null)	0.813	0.774	0.846	1.137	0.0020	0.0008	-0.4903	0.4911
RIEPS(sample)	0.880	0.854	0.901	1.374	0.0020	0.0007	-0.4081	0.4087
NIBAS(sample)	0.870	0.840	0.894	1.332	0.0020	0.0010	-0.4653	0.4661
RIEPS(full)	0.890	0.865	0.910	1.420	0.0020	0.0009	-0.4071	0.4077
NIBAS(full)	0.876	0.847	0.900	1.359	0.0020	0.0012	-0.4644	0.4651
MHL	0.809	0.776	0.838	1.124	0.0020	0.0000	-0.5336	2.8397
[Z3]								
RIEPS(null)	0.818	0.781	0.850	1.152	0.0020	0.0007	-0.1791	0.1794
NIBAS(null)	0.813	0.774	0.846	1.137	0.0020	0.0008	-0.1842	0.1845
RIEPS(sample)	0.880	0.854	0.901	1.374	0.0020	0.0007	-0.0379	0.0381
NIBAS(sample)	0.870	0.840	0.894	1.332	0.0020	0.0010	-0.0565	0.0569
RIEPS(full)	0.890	0.865	0.910	1.420	0.0020	0.0009	-0.0239	0.0242
NIBAS(full)	0.876	0.847	0.900	1.359	0.0020	0.0012	-0.0460	0.0464
MHL	0.809	0.776	0.838	1.124	0.0020	0.0000	-0.1879	0.2141

注) Z(Cor) から右の項目はすべて r の Z 変換値に関する統計量である。

付表 1-3 Data A の回帰係数 (同時分布特性)

Model	Coefficient				
	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)
TRUE A	0.078	0.652***	0.339***	0.451***	-0.041
[Z123]					
RIEPS(null)	1.765***	0.008	0.717***	0.762***	0.258
NIBAS(null)	1.772***	-0.005	0.725***	0.768***	0.267
RIEPS(sample)	1.463***	0.427**	0.454**	0.606**	-0.018
NIBAS(sample)	1.449***	0.361**	0.496***	0.634**	0.031
RIEPS(full)	1.388***	0.503**	0.407**	0.577**	-0.068
NIBAS(full)	1.389***	0.411**	0.471***	0.619**	-0.004
MHL	1.691***	-0.007	0.740***	0.783***	0.267
[Z12]					
RIEPS(null)	1.765***	0.004	0.717***	0.761**	0.264*
NIBAS(null)	1.732***	0.020	0.699***	0.741**	0.263*
RIEPS(sample)	1.517***	0.205	0.476**	0.545**	0.240*
NIBAS(sample)	1.451***	0.174	0.532***	0.591**	0.240*
RIEPS(full)	1.475***	0.232*	0.446**	0.514*	0.236*
NIBAS(full)	1.418***	0.192	0.518***	0.581**	0.233*
MHL	2.528***	0.018	0.898***	0.994***	0.004
[Z13]					
RIEPS(null)	1.769***	-0.004	0.724***	0.767***	0.267
NIBAS(null)	1.770***	-0.007	0.726***	0.766***	0.269

RIEPS(sample)	1.509***	0.424**	0.464**	0.652**	-0.030
NIBAS(sample)	1.474***	0.355**	0.510***	0.674**	0.024
RIEPS(full)	1.439***	0.477**	0.432**	0.621**	-0.063
NIBAS(full)	1.421***	0.395**	0.486***	0.660**	-0.002
MHL	1.680***	-0.056	0.742***	-0.089	0.364**
[Z23]					
RIEPS(null)	1.768***	0.001	0.722***	0.766***	0.262
NIBAS(null)	1.771***	-0.002	0.722***	0.767***	0.266
RIEPS(sample)	1.386***	0.495***	0.536***	0.693***	-0.164
NIBAS(sample)	1.433***	0.345**	0.597***	0.711***	-0.029
RIEPS(full)	1.268***	0.619***	0.464***	0.676***	-0.249
NIBAS(full)	1.325***	0.413**	0.555***	0.705***	-0.070
MHL	2.133***	0.074	0.018	0.662**	0.677***
[Z1]					
RIEPS(null)	1.768***	0.003	0.717***	0.766***	0.264*
NIBAS(null)	1.756***	0.010	0.709**	0.767***	0.263*
RIEPS(sample)	1.691***	0.126	0.551***	0.734***	0.252*
NIBAS(sample)	1.586***	0.112	0.591***	0.739***	0.249*
RIEPS(full)	1.684***	0.136	0.538***	0.728***	0.250*
NIBAS(full)	1.573***	0.119	0.584***	0.742***	0.247*
MHL	2.954***	-0.027	0.949***	-0.123	0.016
[Z2]					
RIEPS(null)	1.747***	0.004	0.722***	0.734**	0.263*
NIBAS(null)	1.724***	0.005	0.722***	0.751**	0.263*
RIEPS(sample)	1.706***	0.013	0.720***	0.681**	0.262*
NIBAS(sample)	1.670***	0.012	0.721***	0.735**	0.263*
RIEPS(full)	1.701***	0.013	0.719***	0.674**	0.262*
NIBAS(full)	1.673***	0.011	0.721***	0.736**	0.263*
MHL	8.055***	0.040	-0.077	1.495***	0.052
[Z3]					
RIEPS(null)	1.769***	-0.003	0.722***	0.767***	0.268
NIBAS(null)	1.771***	-0.005	0.722***	0.766***	0.270
RIEPS(sample)	1.326***	0.488***	0.547***	0.575**	-0.152
NIBAS(sample)	1.405***	0.343**	0.600***	0.644**	-0.024
RIEPS(full)	1.211***	0.587***	0.491***	0.529**	-0.217
NIBAS(full)	1.321***	0.386**	0.575***	0.611**	-0.046
MHL	2.109***	0.055	-0.006	0.033	0.748***

付表1-4 Data A の回帰係数の W var. および B var.

Model	W					B				
	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)
TRUE A	0.202	0.047	0.037	0.083	0.034	—	—	—	—	—
[Z123]										
RIEPS(null)	0.190	0.047	0.041	0.096	0.044	0.0003	0.0028	0.0011	0.0006	0.0014
NIBAS(null)	0.191	0.046	0.041	0.096	0.043	0.0006	0.0019	0.0008	0.0004	0.0009
RIEPS(sample)	0.178	0.046	0.039	0.088	0.041	0.0054	0.0014	0.0006	0.0015	0.0008
NIBAS(sample)	0.182	0.044	0.038	0.090	0.040	0.0037	0.0018	0.0008	0.0022	0.0011
RIEPS(full)	0.173	0.045	0.038	0.086	0.040	0.0066	0.0016	0.0008	0.0015	0.0008
NIBAS(full)	0.178	0.043	0.037	0.088	0.039	0.0073	0.0014	0.0008	0.0030	0.0008
MHL	0.253	0.061	0.048	0.103	0.044	0.0000	0.0000	0.0000	0.0000	0.0000



付表 1-5 Data A の回帰係数の bias および mse

Model	bias					mse				
	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)
TRUE A	—	—	—	—	—	—	—	—	—	—
[Z123]										
RIEPS (null)	21.735	-0.987	1.118	0.688	7.282	21.736	0.991	1.122	0.690	7.338
NIBAS (null)	21.814	-1.007	1.142	0.702	7.496	21.816	1.009	1.144	0.703	7.531
RIEPS (sample)	17.842	-0.346	0.339	0.342	0.553	17.867	0.351	0.347	0.352	0.864
NIBAS (sample)	17.660	-0.446	0.466	0.405	1.750	17.677	0.451	0.473	0.417	1.926
RIEPS (full)	16.870	-0.228	0.201	0.278	-0.654	16.901	0.236	0.217	0.291	0.950
NIBAS (full)	16.882	-0.370	0.391	0.371	0.914	16.917	0.375	0.400	0.390	1.134
MHL	20.772	-1.011	1.187	0.735	7.494	20.772	1.011	1.187	0.735	7.494
[Z12]										
RIEPS (null)	21.735	-0.987	1.118	0.688	7.282	21.729	0.995	1.124	0.693	7.427
NIBAS (null)	21.814	-1.007	1.142	0.702	7.496	21.321	0.971	1.068	0.648	7.399
RIEPS (sample)	17.842	-0.346	0.339	0.342	0.553	18.553	0.687	0.419	0.225	6.843
NIBAS (sample)	17.660	-0.446	0.466	0.405	1.750	17.710	0.734	0.580	0.320	6.844
RIEPS (full)	16.870	-0.228	0.201	0.278	-0.654	18.011	0.646	0.331	0.169	6.749
NIBAS (full)	16.882	-0.370	0.391	0.371	0.914	17.288	0.707	0.536	0.301	6.684
MHL	20.772	-1.011	1.187	0.735	7.494	31.561	3.033	1.175	0.913	0.201
[Z13]										
RIEPS (null)	21.735	-0.987	1.118	0.688	7.282	21.781	1.009	1.142	0.698	7.552
NIBAS (null)	21.814	-1.007	1.142	0.702	7.496	21.794	1.013	1.147	0.698	7.597
RIEPS (sample)	17.842	-0.346	0.339	0.342	0.553	18.459	0.355	0.376	0.451	0.745
NIBAS (sample)	17.660	-0.446	0.466	0.405	1.750	18.010	0.460	0.512	0.499	1.746
RIEPS (full)	16.870	-0.228	0.201	0.278	-0.654	17.565	0.275	0.286	0.386	0.887
NIBAS (full)	16.882	-0.370	0.391	0.371	0.914	17.326	0.398	0.443	0.467	1.219
MHL	20.772	-1.011	1.187	0.735	7.494	20.638	1.412	0.957	0.874	4.701
[Z23]										
RIEPS (null)	21.735	-0.987	1.118	0.688	7.282	21.775	0.999	1.132	0.698	7.454
NIBAS (null)	21.814	-1.007	1.142	0.702	7.496	21.805	1.004	1.132	0.699	7.533
RIEPS (sample)	17.842	-0.346	0.339	0.342	0.553	16.879	0.246	0.586	0.542	3.075
NIBAS (sample)	17.660	-0.446	0.466	0.405	1.750	17.479	0.473	0.764	0.585	0.741
RIEPS (full)	16.870	-0.228	0.201	0.278	-0.65	15.374	0.062	0.374	0.507	5.096
NIBAS (full)	16.882	-0.370	0.391	0.371	0.914	16.105	0.370	0.641	0.583	1.034
MHL	20.772	-1.011	1.187	0.735	7.494	26.467	0.858	0.712	0.341	2.392
[Z1]										
RIEPS (null)	21.735	-0.987	1.118	0.688	7.282	21.772	0.996	1.121	0.698	7.427
NIBAS (null)	21.814	-1.007	1.142	0.702	7.496	21.623	0.985	1.098	0.699	7.404
RIEPS (sample)	17.842	-0.346	0.339	0.342	0.553	20.787	0.807	0.633	0.627	7.131
NIBAS (sample)	17.660	-0.446	0.466	0.405	1.750	19.439	0.829	0.750	0.639	7.064
RIEPS (full)	16.870	-0.228	0.201	0.278	-0.654	20.694	0.792	0.598	0.614	7.082
NIBAS (full)	16.882	-0.370	0.391	0.371	0.914	19.274	0.819	0.731	0.645	7.023
MHL	20.772	-1.011	1.187	0.735	7.494	37.157	4.614	1.167	0.777	0.260
[Z2]										
RIEPS (null)	21.735	-0.987	1.118	0.688	7.282	21.513	0.994	1.132	0.645	7.417
NIBAS (null)	21.814	-1.007	1.142	0.702	7.496	21.244	0.992	1.132	0.669	7.417
RIEPS (sample)	17.842	-0.346	0.339	0.342	0.553	20.979	0.981	1.125	0.522	7.381
NIBAS (sample)	17.660	-0.446	0.466	0.405	1.750	20.560	0.982	1.130	0.634	7.404
RIEPS (full)	16.870	-0.228	0.201	0.278	-0.654	20.916	0.980	1.123	0.508	7.391
NIBAS (full)	16.882	-0.370	0.391	0.371	0.914	20.598	0.983	1.129	0.636	7.412
MHL	20.772	-1.011	1.187	0.735	7.494	102.81	116.54	0.579	1.434	0.397
[Z3]										
RIEPS (null)	21.735	-0.987	1.118	0.688	7.282	21.786	1.006	1.132	0.699	7.586
NIBAS (null)	21.814	-1.007	1.142	0.702	7.496	21.803	1.009	1.133	0.698	7.635
RIEPS (sample)	17.842	-0.346	0.339	0.342	0.553	16.114	0.255	0.617	0.291	2.781

NIBAS(sample)	17.660	-0.446	0.466	0.405	1.750	17.120	0.477	0.774	0.436	0.917
RIEPS(full)	16.870	-0.228	0.201	0.278	-0.65	14.637	0.109	0.452	0.190	4.340
NIBAS(full)	16.882	-0.370	0.391	0.371	0.914	16.045	0.411	0.699	0.362	0.725
MHL	20.772	-1.011	1.187	0.735	7.494	26.332	1.037	0.701	0.891	3.799

付表 2-1 Data A' の平均値 (周辺分布特性)

Model	Mean						
	log $\bar{X}$	lower	upper	W	B	bias	mse
TRUE A'	10.463	10.350	10.577	1.668	—	—	—
[Z123]							
RIEPS(null)	10.441	10.123	10.758	2.496	0.025	-0.0022	0.0033
NIBAS(null)	10.425	10.118	10.732	2.302	0.023	-0.0037	0.0047
RIEPS(sample)	10.449	10.145	10.754	2.309	0.023	-0.0014	0.0025
NIBAS(sample)	10.432	10.129	10.734	2.201	0.022	-0.0030	0.0045
RIEPS(full)	10.453	10.151	10.756	2.275	0.023	-0.0010	0.0024
NIBAS(full)	10.439	10.137	10.742	2.198	0.022	-0.0023	0.0041
MHL	10.491	10.252	10.731	1.460	0.015	0.0027	0.0027
[Z12]							
RIEPS(null)	10.373	9.964	10.783	4.092	0.041	-0.0086	0.0095
NIBAS(null)	10.343	9.971	10.715	3.164	0.032	-0.0115	0.0128
RIEPS(sample)	10.397	10.022	10.773	3.459	0.035	-0.0063	0.0072
NIBAS(sample)	10.376	10.020	10.733	2.893	0.029	-0.0083	0.0100
RIEPS(full)	10.406	10.035	10.776	3.400	0.034	-0.0055	0.0062
NIBAS(full)	10.374	10.024	10.725	2.871	0.029	-0.0085	0.0098
MHL	10.499	10.245	10.753	1.643	0.016	0.0034	0.0034
[Z13]							
RIEPS(null)	10.450	10.125	10.774	2.597	0.026	-0.0013	0.0029
NIBAS(null)	10.441	10.128	10.754	2.362	0.024	-0.0021	0.0040
RIEPS(sample)	10.464	10.157	10.771	2.356	0.024	0.0001	0.0019
NIBAS(sample)	10.452	10.147	10.756	2.227	0.022	-0.0011	0.0036
RIEPS(full)	10.463	10.158	10.768	2.324	0.023	0.0000	0.0019
NIBAS(full)	10.459	10.155	10.763	2.217	0.022	-0.0004	0.0035
MHL	10.418	10.173	10.662	1.525	0.015	-0.0044	0.0044
[Z23]							
RIEPS(null)	10.406	10.079	10.734	2.610	0.026	-0.0055	0.0064
NIBAS(null)	10.395	10.070	10.720	2.361	0.024	-0.0065	0.0085
RIEPS(sample)	10.426	10.130	10.723	2.164	0.022	-0.0036	0.0044
NIBAS(sample)	10.415	10.110	10.720	2.152	0.022	-0.0046	0.0064
RIEPS(full)	10.426	10.135	10.717	2.110	0.021	-0.0036	0.0040
NIBAS(full)	10.419	10.116	10.722	2.137	0.021	-0.0043	0.0060
MHL	10.510	10.279	10.742	1.362	0.014	0.0045	0.0045
[Z1]							
RIEPS(null)	10.377	9.927	10.826	4.939	0.049	-0.0083	0.0093
NIBAS(null)	10.356	9.968	10.743	3.478	0.035	-0.0103	0.0117
RIEPS(sample)	10.423	10.016	10.829	4.046	0.040	-0.0039	0.0054
NIBAS(sample)	10.383	10.007	10.758	3.152	0.032	-0.0077	0.0099
RIEPS(full)	10.426	10.022	10.829	3.979	0.040	-0.0036	0.0053
NIBAS(full)	10.397	10.029	10.766	3.136	0.031	-0.0063	0.0082
MHL	10.495	10.234	10.755	1.716	0.017	0.0028	0.0031
[Z2]							

RIEPS(null)	9.423	8.557	10.290	17.441	0.174	-0.0994	0.1002
NIBAS(null)	9.848	9.412	10.284	4.048	0.040	-0.0588	0.0594
RIEPS(sample)	9.571	8.762	10.380	14.753	0.148	-0.0853	0.0863
NIBAS(sample)	9.860	9.430	10.290	3.945	0.039	-0.0577	0.0583
RIEPS(full)	9.573	8.770	10.377	14.513	0.145	-0.0851	0.0861
NIBAS(full)	9.878	9.438	10.319	3.963	0.040	-0.0559	0.0567
MHL	10.465	10.207	10.723	1.504	0.015	0.0008	0.0043
[Z3]							
RIEPS(null)	10.421	10.090	10.752	2.689	0.027	-0.0041	0.0050
NIBAS(null)	10.405	10.078	10.732	2.431	0.024	-0.0056	0.0076
RIEPS(sample)	10.440	10.143	10.737	2.182	0.022	-0.0022	0.0032
NIBAS(sample)	10.438	10.124	10.751	2.183	0.022	-0.0024	0.0059
RIEPS(full)	10.437	10.143	10.730	2.147	0.021	-0.0026	0.0032
NIBAS(full)	10.432	10.122	10.741	2.163	0.022	-0.0030	0.0058
MHL	10.442	10.197	10.688	1.532	0.015	-0.0020	0.0020

付表 2-2 Data A' の相関係数 (同時分布特性)

Model	Cor(logX, logY)							
	Cor	lower	upper	Z(Cor)	W	B	bias	mse
TRUE A'	0.909	0.893	0.923	1.522	0.0020	—	—	—
[Z123]								
RIEPS(null)	0.821	0.783	0.853	1.159	0.0020	0.0009	-0.0582	0.0585
NIBAS(null)	0.815	0.777	0.846	1.141	0.0020	0.0007	-0.0622	0.0624
RIEPS(sample)	0.885	0.861	0.906	1.400	0.0020	0.0007	-0.0157	0.0161
NIBAS(sample)	0.875	0.845	0.900	1.355	0.0020	0.0014	-0.0224	0.0231
RIEPS(full)	0.895	0.873	0.914	1.448	0.0020	0.0007	-0.0091	0.0098
NIBAS(full)	0.884	0.857	0.906	1.394	0.0020	0.0012	-0.0166	0.0173
MHL	0.798	0.763	0.828	1.092	0.0020	0.0000	-0.0733	0.0775
[Z12]								
RIEPS(null)	0.780	0.733	0.819	1.045	0.0020	0.0010	-0.0851	0.0855
NIBAS(null)	0.761	0.711	0.804	0.999	0.0020	0.0011	-0.0973	0.0977
RIEPS(sample)	0.846	0.813	0.874	1.242	0.0020	0.0009	-0.0415	0.0419
NIBAS(sample)	0.819	0.776	0.855	1.155	0.0020	0.0015	-0.0592	0.0598
RIEPS(full)	0.854	0.823	0.879	1.270	0.0020	0.0006	-0.0365	0.0367
NIBAS(full)	0.826	0.786	0.860	1.177	0.0020	0.0014	-0.0546	0.0551
MHL	0.757	0.716	0.792	0.988	0.0020	0.0000	-0.1001	0.1187
[Z13]								
RIEPS(null)	0.807	0.769	0.839	1.118	0.0020	0.0005	-0.0673	0.0675
NIBAS(null)	0.802	0.761	0.837	1.105	0.0020	0.0009	-0.0704	0.0707
RIEPS(sample)	0.883	0.858	0.904	1.391	0.0020	0.0008	-0.0170	0.0174
NIBAS(sample)	0.871	0.841	0.895	1.336	0.0020	0.0012	-0.0253	0.0259
RIEPS(full)	0.893	0.870	0.913	1.438	0.0020	0.0009	-0.0104	0.0111
NIBAS(full)	0.879	0.849	0.902	1.370	0.0020	0.0014	-0.0202	0.0209
MHL	0.807	0.773	0.836	1.117	0.0020	0.0000	-0.0673	0.0700
[Z23]								
RIEPS(null)	0.638	0.570	0.697	0.755	0.0020	0.0009	-0.1782	0.1786
NIBAS(null)	0.632	0.562	0.692	0.744	0.0020	0.0009	-0.1825	0.1829
RIEPS(sample)	0.858	0.828	0.884	1.287	0.0020	0.0008	-0.0334	0.0337
NIBAS(sample)	0.827	0.789	0.858	1.178	0.0020	0.0010	-0.0542	0.0546

RIEPS(full)	0.884	0.859	0.904	1.392	0.0020	0.0007	-0.0169	0.0173
NIBAS(full)	0.847	0.813	0.875	1.244	0.0020	0.0010	-0.0412	0.0416
MHL	0.598	0.538	0.652	0.690	0.0020	0.0000	-0.2044	0.2229
[Z1]								
RIEPS(null)	0.753	0.703	0.796	0.981	0.0020	0.0009	-0.1024	0.1028
NIBAS(null)	0.728	0.672	0.776	0.924	0.0020	0.0011	-0.1193	0.1197
RIEPS(sample)	0.817	0.778	0.850	1.149	0.0020	0.0010	-0.0604	0.0608
NIBAS(sample)	0.785	0.738	0.824	1.058	0.0020	0.0011	-0.0817	0.0822
RIEPS(full)	0.822	0.782	0.855	1.163	0.0020	0.0012	-0.0574	0.0579
NIBAS(full)	0.786	0.737	0.826	1.060	0.0020	0.0013	-0.0814	0.0819
MHL	0.744	0.700	0.781	0.958	0.0020	0.0001	-0.1088	0.1377
[Z2]								
RIEPS(null)	0.212	0.106	0.314	0.215	0.0020	0.0010	-0.4580	0.4584
NIBAS(null)	0.165	0.045	0.280	0.166	0.0020	0.0017	-0.4893	0.4900
RIEPS(sample)	0.268	0.162	0.368	0.275	0.0020	0.0011	-0.4212	0.4217
NIBAS(sample)	0.179	0.063	0.290	0.181	0.0020	0.0015	-0.4798	0.4804
RIEPS(full)	0.269	0.159	0.373	0.276	0.0020	0.0014	-0.4205	0.4211
NIBAS(full)	0.180	0.065	0.290	0.182	0.0020	0.0014	-0.4792	0.4798
MHL	0.140	0.037	0.240	0.141	0.0020	0.0007	-0.5052	3.1014
[Z3]								
RIEPS(null)	0.631	0.565	0.690	0.744	0.0020	0.0007	-0.1826	0.1829
NIBAS(null)	0.623	0.552	0.684	0.729	0.0020	0.0009	-0.1885	0.1889
RIEPS(sample)	0.859	0.828	0.884	1.288	0.0020	0.0009	-0.0333	0.0337
NIBAS(sample)	0.823	0.783	0.855	1.165	0.0020	0.0011	-0.0570	0.0574
RIEPS(full)	0.878	0.851	0.900	1.367	0.0020	0.0009	-0.0206	0.0211
NIBAS(full)	0.845	0.809	0.874	1.237	0.0020	0.0013	-0.0425	0.0430
MHL	0.591	0.530	0.646	0.679	0.0020	0.0000	-0.2088	0.2247

注) Z(Cor) から右の項目はすべて r の Z 変換値に関する統計量である。

付表 2-3 Data A' の回帰係数 (同時分布特性)

Model	Coefficient				
	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)
TRUE A'	-0.058	0.640***	0.346***	0.366***	-0.012
[Z123]					
RIEPS(null)	1.520***	0.008	0.715***	0.631**	0.294*
NIBAS(null)	1.519***	0.001	0.720***	0.635**	0.299*
RIEPS(sample)	1.199***	0.443**	0.435**	0.403*	0.014
NIBAS(sample)	1.106***	0.385**	0.480***	0.441*	0.063
RIEPS(full)	1.102***	0.516***	0.388**	0.366	-0.028
NIBAS(full)	1.044**	0.440**	0.446**	0.415*	0.030
MHL	1.552***	-0.052	0.772***	0.780**	0.316*
[Z12]					
RIEPS(null)	1.520***	0.001	0.719***	0.634**	0.299**
NIBAS(null)	1.513***	0.003	0.717***	0.632**	0.300**
RIEPS(sample)	1.260***	0.210	0.468**	0.389	0.276*
NIBAS(sample)	1.118***	0.178	0.531***	0.446*	0.282*
RIEPS(full)	1.241***	0.230*	0.447**	0.372	0.269*
NIBAS(full)	1.079**	0.197	0.510***	0.437*	0.279*
MHL	2.977***	-0.033	0.950***	0.862***	-0.020



[Z13]					
RIEPS(null)	1.521***	0.002	0.719***	0.636**	0.298*
NIBAS(null)	1.517***	0.008	0.716***	0.635**	0.294*
RIEPS(sample)	1.271***	0.446**	0.430**	0.528**	0.000
NIBAS(sample)	1.162***	0.382**	0.484***	0.551**	0.052
RIEPS(full)	1.201***	0.518***	0.384**	0.499**	-0.044
NIBAS(full)	1.106***	0.429**	0.455**	0.534**	0.022
MHL	1.203**	0.033	0.721***	-0.071	0.326*
[Z23]					
RIEPS(null)	1.518***	0.008	0.720***	0.631**	0.290
NIBAS(null)	1.514***	0.007	0.721***	0.632**	0.292*
RIEPS(sample)	1.076***	0.495***	0.537***	0.366	-0.110
NIBAS(sample)	1.066***	0.358**	0.594***	0.454*	0.013
RIEPS(full)	0.915**	0.611***	0.471***	0.297	-0.182
NIBAS(full)	0.989**	0.412**	0.562***	0.416*	-0.018
MHL	1.676***	-0.031	0.056	0.551*	0.836***
[Z1]					
RIEPS(null)	1.522***	0.002	0.718***	0.636**	0.299**
NIBAS(null)	1.531***	-0.006	0.728***	0.635**	0.300**
RIEPS(sample)	1.442***	0.151	0.516**	0.602**	0.281*
NIBAS(sample)	1.244***	0.133	0.566***	0.607**	0.289*
RIEPS(full)	1.430***	0.162	0.504**	0.597**	0.278*
NIBAS(full)	1.221***	0.138	0.560***	0.605**	0.289*
MHL	3.027***	-0.022	0.954***	-0.006	-0.007
[Z2]					
RIEPS(null)	1.504***	0.003	0.721***	0.608*	0.299**
NIBAS(null)	1.495***	0.003	0.721***	0.625**	0.299**
RIEPS(sample)	1.475***	0.009	0.719***	0.564*	0.299**
NIBAS(sample)	1.452***	0.008	0.720***	0.613**	0.299**
RIEPS(full)	1.460***	0.011	0.719***	0.548*	0.299**
NIBAS(full)	1.426***	0.011	0.720***	0.604**	0.299**
MHL	8.082***	0.033	0.003	1.394***	-0.003
[Z3]					
RIEPS(null)	1.521***	0.003	0.721***	0.636**	0.296
NIBAS(null)	1.518***	0.006	0.721***	0.636**	0.293
RIEPS(sample)	1.128***	0.499***	0.532***	0.466*	-0.124
NIBAS(sample)	1.123***	0.345**	0.596***	0.536**	0.017
RIEPS(full)	1.032***	0.586***	0.482***	0.434*	-0.181
NIBAS(full)	1.039***	0.404**	0.561***	0.503**	-0.017
MHL	2.015***	-0.077	0.004	0.073	0.914***

付表 2-4 Data A' の回帰係数の W var. および B var.

Model	W					B				
	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)
TRUE A'	0.203	0.045	0.036	0.083	0.034	—	—	—	—	—
[Z123]										
RIEPS(null)	0.202	0.047	0.042	0.099	0.045	0.0004	0.0026	0.0011	0.0008	0.0012
NIBAS(null)	0.205	0.048	0.041	0.099	0.044	0.0013	0.0021	0.0008	0.0006	0.0009
RIEPS(sample)	0.188	0.047	0.040	0.091	0.042	0.0060	0.0016	0.0008	0.0014	0.0008
NIBAS(sample)	0.194	0.045	0.039	0.092	0.040	0.0082	0.0020	0.0011	0.0025	0.0010

RIEPS(full)	0.184	0.046	0.039	0.089	0.041	0.0074	0.0012	0.0007	0.0012	0.0007
NIBAS(full)	0.190	0.044	0.038	0.090	0.040	0.0072	0.0018	0.0010	0.0031	0.0009
MHL	0.269	0.062	0.045	0.111	0.048	0.0000	0.0000	0.0000	0.0000	0.0000
[Z12]										
RIEPS(null)	0.203	0.030	0.050	0.105	0.032	0.0011	0.0011	0.0021	0.0024	0.0000
NIBAS(null)	0.214	0.031	0.047	0.103	0.032	0.0053	0.0010	0.0015	0.0016	0.0000
RIEPS(sample)	0.196	0.030	0.046	0.098	0.030	0.0051	0.0006	0.0010	0.0017	0.0001
NIBAS(sample)	0.207	0.030	0.043	0.098	0.031	0.0080	0.0011	0.0013	0.0020	0.0001
RIEPS(full)	0.195	0.031	0.046	0.097	0.030	0.0058	0.0005	0.0009	0.0014	0.0001
NIBAS(full)	0.205	0.031	0.043	0.097	0.031	0.0050	0.0007	0.0008	0.0017	0.0001
MHL	0.337	0.050	0.052	0.115	0.026	0.0000	0.0000	0.0000	0.0000	0.0000
[Z13]										
RIEPS(null)	0.201	0.045	0.041	0.096	0.046	0.0001	0.0019	0.0008	0.0000	0.0011
NIBAS(null)	0.203	0.046	0.040	0.096	0.045	0.0005	0.0019	0.0007	0.0000	0.0009
RIEPS(sample)	0.186	0.045	0.039	0.088	0.042	0.0066	0.0015	0.0007	0.0013	0.0008
NIBAS(sample)	0.192	0.044	0.038	0.089	0.041	0.0061	0.0017	0.0009	0.0010	0.0009
RIEPS(full)	0.181	0.045	0.039	0.086	0.041	0.0063	0.0015	0.0008	0.0017	0.0008
NIBAS(full)	0.188	0.043	0.037	0.088	0.040	0.0071	0.0017	0.0010	0.0016	0.0009
MHL	0.264	0.060	0.046	0.097	0.045	0.0000	0.0000	0.0000	0.0000	0.0000
[Z23]										
RIEPS(null)	0.202	0.033	0.029	0.097	0.050	0.0002	0.0012	0.0000	0.0003	0.0016
NIBAS(null)	0.204	0.034	0.029	0.097	0.050	0.0011	0.0009	0.0000	0.0003	0.0011
RIEPS(sample)	0.177	0.038	0.029	0.085	0.042	0.0072	0.0009	0.0003	0.0024	0.0009
NIBAS(sample)	0.188	0.034	0.029	0.088	0.040	0.0069	0.0012	0.0002	0.0039	0.0010
RIEPS(full)	0.167	0.038	0.028	0.080	0.039	0.0108	0.0008	0.0003	0.0019	0.0009
NIBAS(full)	0.183	0.034	0.029	0.086	0.039	0.0074	0.0008	0.0003	0.0040	0.0007
MHL	0.425	0.061	0.033	0.147	0.063	0.0000	0.0000	0.0000	0.0000	0.0000
[Z1]										
RIEPS(null)	0.201	0.026	0.051	0.096	0.032	0.0001	0.0006	0.0015	0.0000	0.0000
NIBAS(null)	0.208	0.028	0.047	0.096	0.032	0.0034	0.0008	0.0014	0.0000	0.0000
RIEPS(sample)	0.196	0.028	0.047	0.093	0.031	0.0024	0.0006	0.0010	0.0006	0.0001
NIBAS(sample)	0.205	0.028	0.043	0.094	0.031	0.0037	0.0005	0.0008	0.0004	0.0000
RIEPS(full)	0.195	0.028	0.046	0.093	0.031	0.0022	0.0008	0.0014	0.0005	0.0001
NIBAS(full)	0.205	0.028	0.043	0.094	0.031	0.0064	0.0008	0.0011	0.0006	0.0000
MHL	0.360	0.050	0.054	0.111	0.029	0.0615	0.0003	0.0002	0.0098	0.0009
[Z2]										
RIEPS(null)	0.209	0.009	0.029	0.128	0.032	0.0030	0.0001	0.0000	0.0067	0.0000
NIBAS(null)	0.240	0.015	0.029	0.108	0.032	0.0189	0.0002	0.0000	0.0026	0.0000
RIEPS(sample)	0.207	0.009	0.029	0.120	0.032	0.0023	0.0001	0.0000	0.0052	0.0000
NIBAS(sample)	0.238	0.015	0.029	0.105	0.032	0.0185	0.0003	0.0000	0.0022	0.0000
RIEPS(full)	0.207	0.009	0.029	0.119	0.032	0.0024	0.0001	0.0000	0.0045	0.0000
NIBAS(full)	0.237	0.015	0.029	0.105	0.032	0.0180	0.0002	0.0000	0.0021	0.0000
MHL	0.652	0.049	0.060	0.207	0.065	0.2679	0.0011	0.0026	0.0026	0.0037
[Z3]										
RIEPS(null)	0.201	0.033	0.029	0.096	0.051	0.0001	0.0014	0.0000	0.0000	0.0021
NIBAS(null)	0.202	0.033	0.029	0.096	0.050	0.0005	0.0011	0.0000	0.0000	0.0016
RIEPS(sample)	0.176	0.038	0.028	0.083	0.042	0.0084	0.0011	0.0003	0.0022	0.0010
NIBAS(sample)	0.187	0.034	0.029	0.088	0.040	0.0075	0.0012	0.0003	0.0011	0.0010
RIEPS(full)	0.168	0.038	0.028	0.079	0.040	0.0106	0.0008	0.0003	0.0019	0.0007
NIBAS(full)	0.182	0.034	0.029	0.085	0.039	0.0058	0.0010	0.0004	0.0013	0.0009
MHL	0.404	0.062	0.034	0.141	0.067	0.0261	0.0000	0.0007	0.0080	0.0000

付表 2-5 Data A' の回帰係数の bias および mse

Model	bias					mse				
	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)	cons	$\beta$ (Z1)	$\beta$ (Z2)	$\beta$ (Z3)	$\beta$ (X)
TRUE A'	—	—	—	—	—	—	—	—	—	—
[Z123]										
RIEPS(null)	26.414	-0.988	1.066	0.728	26.505	26.416	0.991	1.070	0.733	26.669
NIBAS(null)	26.402	-0.998	1.079	0.737	26.928	26.410	1.001	1.082	0.741	27.051
RIEPS(sample)	21.057	-0.307	0.257	0.104	2.219	21.097	0.313	0.269	0.146	3.320
NIBAS(sample)	19.499	-0.399	0.386	0.207	6.483	19.558	0.405	0.398	0.248	7.032
RIEPS(full)	19.437	-0.193	0.121	0.002	-1.392	19.489	0.201	0.142	0.095	2.690
NIBAS(full)	18.454	-0.313	0.287	0.136	3.559	18.509	0.320	0.300	0.204	4.412
MHL	26.951	-1.082	1.229	1.136	28.383	26.951	1.386	1.045	1.101	35.065
[Z12]										
RIEPS(null)	26.415	-0.998	1.076	0.735	26.980	26.421	0.999	1.084	0.747	26.980
NIBAS(null)	26.297	-0.995	1.069	0.731	26.997	26.324	0.996	1.075	0.739	26.997
RIEPS(sample)	22.077	-0.673	0.351	0.066	24.916	22.109	0.674	0.363	0.132	24.931
NIBAS(sample)	19.690	-0.722	0.533	0.222	25.444	19.746	0.724	0.543	0.253	25.457
RIEPS(full)	21.747	-0.640	0.291	0.019	24.308	21.784	0.641	0.304	0.105	24.320
NIBAS(full)	19.042	-0.693	0.474	0.197	25.221	19.078	0.694	0.481	0.227	25.235
MHL	50.781	-1.052	1.743	1.359	-0.734	50.781	2.717	1.414	1.400	0.031
[Z13]										
RIEPS(null)	26.437	-0.997	1.077	0.741	26.830	26.437	0.999	1.081	0.742	26.982
NIBAS(null)	26.375	-0.987	1.066	0.739	26.484	26.377	0.990	1.069	0.739	26.616
RIEPS(sample)	22.248	-0.302	0.242	0.447	0.998	22.289	0.308	0.254	0.457	2.636
NIBAS(sample)	20.427	-0.404	0.397	0.509	5.511	20.468	0.409	0.406	0.517	6.098
RIEPS(full)	21.080	-0.190	0.108	0.366	-2.854	21.121	0.200	0.136	0.383	3.784
NIBAS(full)	19.503	-0.329	0.315	0.461	2.874	19.553	0.335	0.327	0.475	3.876
MHL	21.113	-0.949	1.082	-1.194	29.245	21.113	1.052	1.086	0.824	4.374
[Z23]										
RIEPS(null)	26.381	-0.987	1.080	0.728	26.140	26.383	0.988	1.080	0.730	26.369
NIBAS(null)	26.317	-0.989	1.081	0.730	26.338	26.323	0.991	1.081	0.732	26.494
RIEPS(sample)	18.995	-0.227	0.550	0.001	-8.584	19.048	0.232	0.552	0.132	8.976
NIBAS(sample)	18.824	-0.440	0.715	0.242	2.160	18.875	0.443	0.716	0.296	3.522
RIEPS(full)	16.306	-0.046	0.361	-0.186	-14.82	16.398	0.063	0.364	0.220	15.036
NIBAS(full)	17.538	-0.357	0.622	0.138	-0.521	17.596	0.359	0.624	0.220	2.352
MHL	29.026	-1.048	-0.839	0.508	73.524	29.026	1.132	0.625	0.617	5.150
[Z1]										
RIEPS(null)	26.454	-0.997	1.073	0.743	26.967	26.455	0.998	1.079	0.743	26.967
NIBAS(null)	26.601	-1.009	1.102	0.739	26.991	26.619	1.010	1.108	0.739	26.991
RIEPS(sample)	25.115	-0.765	0.489	0.647	25.393	25.128	0.766	0.498	0.650	25.404
NIBAS(sample)	21.810	-0.792	0.633	0.662	26.048	21.833	0.793	0.638	0.665	26.053
RIEPS(full)	24.918	-0.747	0.454	0.635	25.116	24.930	0.748	0.467	0.638	25.125
NIBAS(full)	21.420	-0.784	0.616	0.657	26.100	21.461	0.785	0.623	0.660	26.107
MHL	51.628	-1.034	1.756	-1.017	0.366	51.793	3.478	1.290	0.622	0.113
[Z2]										
RIEPS(null)	26.146	-0.995	1.081	0.664	26.973	26.162	0.996	1.081	0.700	26.973
NIBAS(null)	25.993	-0.995	1.081	0.712	26.975	26.093	0.995	1.081	0.725	26.976
RIEPS(sample)	25.660	-0.986	1.077	0.544	26.931	25.672	0.986	1.077	0.578	26.932
NIBAS(sample)	25.281	-0.987	1.080	0.678	26.967	25.382	0.987	1.080	0.690	26.968
RIEPS(full)	25.421	-0.983	1.075	0.500	26.945	25.435	0.983	1.075	0.533	26.945
NIBAS(full)	24.839	-0.983	1.079	0.653	26.974	24.939	0.983	1.080	0.665	26.975
MHL	136.155	-0.949	-0.990	2.818	0.736	136.43	47.66	0.484	1.943	0.201
[Z3]										
RIEPS(null)	26.436	-0.995	1.081	0.742	26.662	26.436	0.997	1.081	0.742	26.957
NIBAS(null)	26.383	-0.991	1.081	0.741	26.377	26.385	0.992	1.081	0.741	26.597
RIEPS(sample)	19.865	-0.220	0.537	0.276	-9.714	19.923	0.226	0.539	0.304	10.101

NIBAS(sample)	19.784	-0.461	0.722	0.469	2.479	19.836	0.464	0.724	0.478	3.670
RIEPS(full)	18.253	-0.084	0.393	0.188	-14.68	18.333	0.095	0.396	0.222	14.848
NIBAS(full)	18.376	-0.369	0.621	0.377	-0.516	18.420	0.373	0.623	0.390	2.635
MHL	34.702	-1.121	-0.989	-0.801	80.262	34.806	1.168	0.750	0.920	5.508