

Table 1: Result of SimExact x SimSA-CVaR_{90%}

Inst	n	δ	SimExact		SimSA-CVaR _{90%}						GAP _{b × a}
			C-RPD ^a	T(s)	D-RPD	C-RPD ^b	SD	T(s)	ρ_S	ρ_L	
1	25	0.1	23.68	209.08	0.58	21.46	7127.19	18.66	363	3297	-9.38%
2	25	0.1	23.77	197.62	1.83	22.74	6123.68	9.57	327	3008	-4.30%
3	25	0.1	28.56	144.43	1.16	25.97	7295.99	15.94	392	3678	-9.09%
4	25	0.1	23.03	381.34	0.76	21.29	7151.75	9.02	352	3262	-7.54%
5	25	0.1	23.82	276.61	1.74	21.49	6623.51	8.05	302	2986	-9.80%
6	25	0.1	28.90	245.69	1.58	23.90	6748.83	9.31	334	3240	-17.30%
7	25	0.1	23.59	3616.33	0.24	21.85	7187.90	9.30	310	3031	-7.34%
8	25	0.1	23.03	389.70	0.48	21.57	6976.00	8.48	356	3130	-6.33%
9	25	0.1	26.83	359.97	0.80	20.65	7521.27	35.16	330	3070	-23.05%
10	25	0.1	34.39	280.55	1.91	24.70	6928.57	14.77	375	3352	-28.17%
11	25	0.1	29.99	379.78	0.91	22.35	7333.22	14.62	370	3195	-25.45%
12	25	0.1	28.93	182.83	0.01	20.81	7215.55	12.98	384	3159	-28.06%
13	25	0.1	34.40	293.77	1.10	20.76	5715.35	11.50	308	2887	-39.65%
14	25	0.1	31.17	355.26	4.19	27.00	4368.94	15.54	385	3315	-13.39%
15	25	0.1	23.07	268.58	1.87	22.58	5936.06	9.09	330	2980	-2.12%
16	25	0.1	26.99	400.42	2.44	23.44	5030.65	9.79	356	3037	-13.17%
17	25	0.1	27.31	256.59	1.53	22.17	6765.61	8.17	346	3063	-18.85%
18	25	0.1	37.63	231.16	1.49	22.91	6304.08	11.48	369	3250	-39.12%
19	25	0.1	22.92	251.62	1.27	22.64	6806.08	9.88	323	3305	-1.24%
20	25	0.1	22.72	378.27	0.08	22.60	7869.72	9.47	348	3121	-0.53%
21	25	0.1	28.17	3619.26	0.60	21.16	7599.74	8.39	294	3052	-24.87%
22	25	0.1	32.92	316.73	4.08	29.74	4755.98	12.10	384	3698	-9.65%
23	25	0.1	22.85	333.54	0.94	21.21	6341.64	8.69	319	2885	-7.15%
24	25	0.1	26.43	205.36	1.37	20.95	6879.18	8.56	331	2930	-20.71%
25	25	0.1	21.81	371.05	0.62	21.70	7325.15	11.96	333	3108	-0.49%
26	25	0.5	51.98	251.45	0.19	48.88	15677.58	81.75	1425	13966	-5.95%
27	25	0.5	55.08	252.87	1.95	52.54	13946.84	97.27	1801	15426	-4.61%
28	25	0.5	55.30	178.96	1.79	54.98	16101.66	164.41	1806	16122	-0.58%
29	25	0.5	51.40	432.73	1.09	51.02	16812.30	88.19	1657	15270	-0.74%
30	25	0.5	53.46	334.87	1.78	51.25	15557.07	75.81	1527	14468	-4.13%
31	25	0.5	59.28	312.38	1.00	54.30	15368.70	81.49	1679	15297	-8.41%
32	25	0.5	50.56	3669.71	0.24	50.00	16090.80	85.84	1583	14559	-1.11%
33	25	0.5	51.86	445.44	2.67	48.75	16235.33	97.32	1890	15711	-6.00%
34	25	0.5	50.71	350.55	0.47	49.87	17402.43	128.69	1591	15166	-1.65%
35	25	0.5	57.48	317.85	1.87	54.80	15898.93	142.15	1762	15263	-4.66%
36	25	0.5	54.85	426.79	1.66	50.82	16385.06	171.73	1681	14754	-7.35%
37	25	0.5	53.83	214.11	0.01	48.88	16092.71	127.01	1664	15134	-9.20%
38	25	0.5	60.32	329.00	3.01	50.16	13756.73	110.78	1691	14379	-16.84%
39	25	0.5	68.88	457.85	3.97	65.90	10883.78	210.50	2152	18671	-4.34%
40	25	0.5	54.92	328.24	1.87	52.21	13860.70	95.21	1613	15488	-4.93%
41	25	0.5	60.10	470.94	2.25	58.08	12395.32	130.25	1859	16834	-3.36%
42	25	0.5	53.31	294.05	2.42	49.53	15017.09	66.82	1569	14043	-7.09%
43	25	0.5	58.49	259.82	1.56	53.33	14494.90	114.17	1664	15905	-8.81%
44	25	0.5	52.90	307.34	1.24	51.91	15066.20	90.79	1736	15357	-1.88%
45	25	0.5	50.77	431.59	0.16	48.28	16756.07	87.05	1589	14491	-4.91%
46	25	0.5	52.02	3648.80	0.76	48.95	16888.71	92.84	1555	14249	-5.90%
47	25	0.5	68.36	419.00	4.08	66.98	10904.88	182.31	2356	20203	-2.03%
48	25	0.5	52.23	389.06	1.54	48.90	14304.10	81.58	1706	15166	-6.36%
49	25	0.5	55.55	251.17	1.60	49.98	16162.15	78.36	1673	14874	-10.02%
50	25	0.5	50.47	424.59	0.62	49.37	16351.13	101.25	1563	14584	-2.17%
51	25	2.0	96.32	894.14	0.10	94.19	30066.94	1262.18	5276	47353	-2.21%
52	25	2.0	104.59	1056.18	2.60	103.58	27443.87	2068.13	5436	51240	-0.97%
53	25	2.0	104.20	755.58	1.38	103.44	29899.84	2043.85	5227	50494	-0.73%
54	25	2.0	98.50	1144.27	0.41	97.88	31123.83	1392.43	5480	49149	-0.64%
55	25	2.0	99.09	1098.47	0.97	98.20	29558.31	1247.63	5439	47868	-0.90%
56	25	2.0	104.64	1100.14	1.48	101.35	28600.16	1432.82	5423	49373	-3.14%
57	25	2.0	95.57	4410.68	0.24	94.58	29814.54	1290.64	4925	46257	-1.04%
58	25	2.0	97.70	1201.34	1.04	96.30	31436.44	1934.51	5656	50369	-1.43%

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Table 1: Result of SimExact x SimSA-CVaR_{90%} (continued)

Inst	n	δ	SimExact		SimSA-CVaR _{90%}						GAP _{b × a}
			C-RPD ^a	T(s)	D-RPD	C-RPD ^b	SD	T(s)	ρ_S	ρ_L	
59	25	2.0	95.99	864.16	0.60	94.38	32971.53	2141.34	5283	47402	-1.68%
60	25	2.0	101.81	879.07	1.86	100.59	29674.53	2174.79	5336	48220	-1.20%
61	25	2.0	101.93	1075.27	1.72	100.10	31310.53	2346.81	5580	49874	-1.79%
62	25	2.0	101.99	778.14	0.42	97.34	30893.48	2011.43	5460	49166	-4.55%
63	25	2.0	104.17	843.60	1.52	101.10	26387.03	2030.47	5804	49247	-2.95%
64	25	2.0	136.28	2239.75	3.97	135.95	22626.06	3791.06	7705	70093	-0.24%
65	25	2.0	106.80	1245.02	1.38	105.10	27444.79	1596.17	5755	52563	-1.59%
66	25	2.0	118.48	1610.54	2.06	116.46	24968.06	2145.20	6354	57785	-1.70%
67	25	2.0	99.00	906.17	1.54	97.76	29059.42	1266.50	5020	46676	-1.26%
68	25	2.0	109.31	783.33	1.43	105.33	27739.47	1721.77	5447	51225	-3.64%
69	25	2.0	104.34	1192.42	0.75	102.05	29217.15	1428.36	5689	49717	-2.19%
70	25	2.0	95.29	1123.46	0.16	92.79	31424.23	1216.20	5278	46887	-2.62%
71	25	2.0	96.92	4106.05	0.79	93.21	31801.55	1265.95	4827	45431	-3.83%
72	25	2.0	134.31	2096.17	4.07	133.06	21804.65	3279.55	7453	68414	-0.92%
73	25	2.0	97.74	1167.98	1.54	95.57	27967.21	1598.41	5351	48908	-2.21%
74	25	2.0	100.59	897.52	1.51	98.54	30861.44	1583.86	5325	47877	-2.05%
75	25	2.0	97.22	1156.51	0.65	95.71	31129.27	1252.18	5194	47186	-1.55%
76*	50	0.1	24.52	3630.31	2.28	23.35	6179.64	14.32	405	3155	-4.75%
77*	50	0.1	24.34	3629.56	1.77	22.63	6465.58	15.59	337	3232	-7.01%
78*	50	0.1	22.32	3630.50	0.57	21.59	7640.17	15.51	387	3071	-3.25%
79*	50	0.1	26.31	3630.11	2.43	22.43	5532.01	14.93	364	3176	-14.75%
80*	50	0.1	20.88	3631.53	0.48	20.38	7230.41	14.83	298	3066	-2.42%
81*	50	0.1	22.54	3629.64	1.11	20.92	6662.90	15.21	368	3403	-7.19%
82*	50	0.1	21.95	3631.00	1.60	21.36	6533.29	15.72	353	3073	-2.70%
83*	50	0.1	22.14	3631.29	0.75	21.20	7075.73	16.26	324	3151	-4.25%
84*	50	0.1	23.71	3630.00	1.36	22.18	6973.90	28.32	313	3064	-6.47%
85*	50	0.1	26.80	3630.23	2.50	23.94	6136.56	14.81	337	3153	-10.67%
86*	50	0.1	22.42	3628.29	1.23	21.09	7271.14	14.36	314	3096	-5.95%
87*	50	0.1	24.53	3630.65	1.05	22.67	7465.97	14.13	335	3075	-7.58%
88*	50	0.1	25.54	3629.23	1.81	22.80	6741.82	14.30	364	3176	-10.75%
89*	50	0.1	21.97	3631.50	1.42	21.60	7161.21	15.53	351	3121	-1.71%
90*	50	0.1	23.97	3631.02	1.78	23.79	6455.73	15.04	395	3457	-0.78%
91*	50	0.1	25.27	3630.58	1.41	22.45	7268.21	14.64	331	2947	-11.16%
92*	50	0.1	23.59	3630.68	1.11	21.25	7008.71	14.34	384	3184	-9.92%
93*	50	0.1	23.94	3629.82	1.62	21.08	6886.18	29.08	340	2932	-11.94%
94*	50	0.1	23.73	3631.44	2.03	21.18	6052.79	13.15	319	2894	-10.77%
95*	50	0.1	20.97	3632.06	0.67	20.49	7729.21	13.62	304	3025	-2.28%
96*	50	0.1	24.53	3632.77	2.13	22.61	6445.30	15.34	361	3450	-7.86%
97*	50	0.1	23.06	3631.00	1.89	21.20	6528.98	14.06	284	2857	-8.09%
98*	50	0.1	23.15	3631.14	1.06	18.61	6257.50	15.24	321	2932	-19.63%
99*	50	0.1	21.82	3619.11	1.61	21.61	6921.57	15.88	337	3193	-0.97%
100*	50	0.1	23.92	3619.63	0.64	21.97	7148.67	14.54	354	3171	-8.17%
101*	50	0.5	53.30	3691.40	2.36	52.58	13983.69	94.03	1592	14785	-1.36%
102*	50	0.5	55.43	3701.87	2.01	53.40	15053.13	99.71	1842	15876	-3.66%
103*	50	0.5	51.34	3693.11	0.46	49.89	17026.59	85.22	1670	15256	-2.81%
104*	50	0.5	55.00	3695.26	2.37	54.02	13294.70	93.39	1723	15384	-1.79%
105*	50	0.5	50.03	3698.51	0.52	48.25	16229.68	88.45	1606	14387	-3.55%
106*	50	0.5	51.52	3691.56	0.65	49.79	15362.19	94.98	1670	15231	-3.36%
107*	50	0.5	52.06	3701.60	1.52	50.58	14871.99	95.36	1810	15368	-2.84%
108*	50	0.5	51.43	3700.53	0.74	50.60	15902.75	93.69	1658	15040	-1.62%
109*	50	0.5	51.29	3693.62	1.56	50.90	15983.69	95.48	1635	15055	-0.76%
110*	50	0.5	57.10	3695.31	3.16	56.49	14433.05	95.51	1754	15651	-1.08%
111*	50	0.5	50.98	3689.99	1.29	49.95	16664.01	84.46	1696	15079	-2.02%
112*	50	0.5	52.22	3687.81	1.11	50.91	16668.42	83.57	1625	14845	-2.50%
113*	50	0.5	53.35	3688.00	1.75	52.23	15310.30	93.68	1750	15711	-2.09%
114*	50	0.5	52.00	3701.87	1.53	49.85	16181.28	93.87	1671	14395	-4.12%
115*	50	0.5	53.78	3698.00	1.75	52.89	14551.07	93.24	1703	15169	-1.67%
116*	50	0.5	54.21	3693.92	1.39	51.80	16741.66	92.27	1565	14739	-4.44%

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			C-RPD ^a	T(s)	D-RPD	C-RPD ^b	SD	T(s)	ρ_S	ρ_L	
117*	50	0.5	54.28	3691.77	1.47	51.32	16284.25	102.96	1805	15481	-5.46%
118*	50	0.5	52.64	3695.75	1.25	51.13	16232.36	80.90	1705	15143	-2.87%
119*	50	0.5	54.15	3702.59	1.80	51.27	14326.41	89.31	1647	15098	-5.32%
120*	50	0.5	49.35	3690.70	1.15	48.19	17116.34	87.29	1552	14100	-2.36%
121*	50	0.5	55.00	3705.25	2.18	52.73	14738.27	98.64	1771	15904	-4.14%
122*	50	0.5	52.01	3696.22	1.86	50.79	15269.79	90.76	1760	15058	-2.35%
123*	50	0.5	53.42	3691.08	0.90	48.45	14581.85	100.73	1763	16140	-9.29%
124*	50	0.5	51.42	3646.83	1.54	50.97	15719.28	95.77	1615	15129	-0.88%
125*	50	0.5	50.88	3641.99	0.74	50.22	15813.72	90.04	1557	15058	-1.29%
126*	50	2.0	104.17	4494.43	2.15	102.09	26876.42	1601.93	5336	49618	-2.00%
127*	50	2.0	104.68	4617.19	1.79	103.86	28842.67	1616.35	5541	50630	-0.79%
128*	50	2.0	98.55	4487.87	0.55	98.08	32412.03	1561.40	5298	49265	-0.48%
129*	50	2.0	105.76	4554.07	2.41	105.31	25781.06	1581.30	5844	51880	-0.42%
130*	50	2.0	96.04	4478.45	0.56	95.53	31497.52	1514.27	5191	46592	-0.52%
131*	50	2.0	98.08	4476.31	1.18	96.76	29654.93	1633.11	5359	48932	-1.34%
132*	50	2.0	100.84	4599.14	1.44	100.01	29023.79	1558.76	5464	49293	-0.82%
133*	50	2.0	101.37	4642.70	0.56	100.30	30549.63	1444.47	5564	50651	-1.06%
134*	50	2.0	98.42	4505.26	1.37	95.61	29573.67	1189.42	5401	47692	-2.86%
135*	50	2.0	108.51	4628.07	2.38	107.52	27808.83	1753.13	5696	52924	-0.91%
136*	50	2.0	97.86	4458.52	1.23	96.49	31595.43	1200.45	5279	47290	-1.40%
137*	50	2.0	98.04	4457.67	0.92	97.12	31571.90	1424.66	5365	47380	-0.94%
138*	50	2.0	105.72	4554.44	1.75	104.36	29759.61	1677.94	5892	50711	-1.29%
139*	50	2.0	99.78	4557.57	1.01	99.63	31432.54	1262.39	5382	48592	-0.16%
140*	50	2.0	106.00	4655.48	1.93	104.66	28135.81	1588.69	5510	50645	-1.27%
141*	50	2.0	102.63	4480.91	1.38	102.06	32263.23	1379.92	5271	49180	-0.55%
142*	50	2.0	104.26	4575.03	0.88	102.35	31388.91	1480.68	5389	51105	-1.83%
143*	50	2.0	101.64	4549.38	1.75	100.10	31333.22	1522.90	5253	49253	-1.52%
144*	50	2.0	106.82	4702.10	1.79	105.63	28702.69	1579.77	5690	52311	-1.11%
145*	50	2.0	94.11	4379.22	0.44	91.99	33439.14	1329.75	5196	47654	-2.24%
146*	50	2.0	106.52	4656.51	1.78	103.72	28296.26	1563.05	5741	51218	-2.63%
147*	50	2.0	100.70	4542.94	2.03	100.04	29816.06	1552.63	5442	49654	-0.65%
148*	50	2.0	103.01	4011.50	1.09	98.15	27816.25	1671.92	6036	52418	-4.72%
149*	50	2.0	101.06	3882.66	1.58	100.31	30219.20	1581.18	5354	49551	-0.74%
150*	50	2.0	97.86	3840.16	0.80	97.72	29924.42	1455.87	5125	47153	-0.14%
151*	75	0.1	23.57	3627.29	1.90	21.23	6815.71	21.00	314	2850	-9.94%
152*	75	0.1	23.59	3623.12	1.77	21.09	6132.50	21.08	337	3021	-10.59%
153*	75	0.1	22.12	3625.34	1.48	22.05	6467.01	23.39	400	3467	-0.34%
154*	75	0.1	20.96	3624.57	0.04	19.96	6605.49	20.07	342	3027	-4.75%
155*	75	0.1	22.18	3625.54	1.79	21.28	6514.18	21.64	280	2848	-4.06%
156*	75	0.1	21.03	3625.07	0.84	20.74	6738.65	26.52	372	2997	-1.39%
157*	75	0.1	24.33	3624.51	1.43	21.36	6626.99	27.24	311	3018	-12.21%
158*	75	0.1	22.65	3625.24	1.73	21.27	6136.44	21.13	334	2947	-6.08%
159*	75	0.1	21.96	3625.34	1.47	21.78	7250.77	21.87	353	3136	-0.82%
160*	75	0.1	22.46	3625.46	2.10	21.82	6252.33	20.44	367	3038	-2.89%
161*	75	0.1	22.88	3623.68	1.67	21.73	5904.24	21.24	361	3330	-5.02%
162*	75	0.1	23.78	3625.13	1.16	20.87	6725.08	22.00	357	3073	-12.23%
163*	75	0.1	21.30	3623.73	0.65	20.89	6821.11	19.31	322	2946	-1.94%
164*	75	0.1	23.69	3625.49	1.08	21.30	6677.78	19.80	290	2904	-10.09%
165*	75	0.1	24.01	3625.53	2.50	22.69	6081.60	37.07	412	3137	-5.49%
166*	75	0.1	23.72	3624.68	1.20	22.28	7009.88	19.44	314	2987	-6.09%
167*	75	0.1	22.59	3625.88	1.82	21.78	6819.96	20.33	368	3139	-3.56%
168*	75	0.1	22.43	3626.39	2.09	21.46	6416.66	20.16	367	2923	-4.35%
169*	75	0.1	25.76	3624.77	1.19	21.82	6717.69	21.11	342	3258	-15.29%
170*	75	0.1	26.11	3625.94	2.23	22.79	6562.39	21.36	390	3187	-12.74%
171*	75	0.1	21.87	3626.12	2.21	21.48	6543.68	20.17	307	3015	-1.79%
172*	75	0.1	22.39	3623.52	1.36	21.60	7121.16	21.27	358	2881	-3.54%
173*	75	0.1	23.45	3626.27	2.21	22.92	6573.71	23.78	345	3074	-2.26%
174*	75	0.1	23.52	3625.35	1.40	20.90	6959.88	23.04	315	3017	-11.14%

Continued on the next page

Table 1: Result of SimExact x SimSA-CVaR_{90%} (continued)

Inst	n	δ	SimExact		SimSA-CVaR _{90%}						GAP _{b × α}
			C-RPD ^a	T(s)	D-RPD	C-RPD ^b	SD	T(s)	ρ_S	ρ_L	
175*	75	0.1	22.43	3624.28	1.57	21.95	6076.80	24.63	380	3405	-2.15%
176*	75	0.5	51.33	3650.35	1.68	51.28	16010.93	96.67	1457	14558	-0.11%
177*	75	0.5	54.75	3653.62	1.77	54.26	14828.79	118.85	1779	16006	-0.89%
178*	75	0.5	53.39	3659.63	1.12	53.19	15193.06	118.07	1831	16039	-0.37%
179*	75	0.5	50.74	3655.58	0.07	49.42	15217.52	104.02	1575	14747	-2.59%
180*	75	0.5	51.43	3660.23	1.58	50.81	15488.32	94.15	1666	15137	-1.20%
181*	75	0.5	52.00	3659.24	0.83	50.59	15689.49	113.72	1764	15427	-2.71%
182*	75	0.5	53.80	3653.63	1.72	52.33	15306.67	158.12	1667	15207	-2.73%
183*	75	0.5	51.74	3658.78	1.43	50.54	14108.34	96.95	1614	14900	-2.32%
184*	75	0.5	51.51	3656.67	1.89	51.28	16520.56	107.15	1824	15544	-0.45%
185*	75	0.5	52.93	3658.31	1.93	52.45	14670.04	97.13	1638	14999	-0.91%
186*	75	0.5	55.24	3662.65	1.69	53.32	14118.72	116.89	1809	16213	-3.47%
187*	75	0.5	53.40	3661.38	1.17	50.81	15786.43	102.36	1767	15452	-4.85%
188*	75	0.5	49.67	3655.08	0.55	49.26	15731.95	83.84	1713	15001	-0.83%
189*	75	0.5	53.18	3658.92	1.01	51.43	15617.75	96.44	1562	15018	-3.30%
190*	75	0.5	53.70	3660.92	2.20	52.11	14098.59	100.19	1743	15031	-2.96%
191*	75	0.5	52.48	3656.11	1.54	51.77	15773.80	100.31	1656	15308	-1.36%
192*	75	0.5	53.01	3661.06	2.12	52.81	15356.75	108.57	1586	15244	-0.37%
193*	75	0.5	51.90	3659.74	2.15	50.64	14973.87	103.62	1752	15127	-2.44%
194*	75	0.5	55.88	3656.41	1.14	51.78	15467.33	101.27	1767	15838	-7.33%
195*	75	0.5	55.53	3660.65	2.14	53.05	15400.71	94.67	1680	15209	-4.47%
196*	75	0.5	53.40	3662.00	2.27	52.37	15414.05	96.78	1704	14878	-1.95%
197*	75	0.5	51.95	3657.42	1.38	51.66	16702.87	105.34	1667	14713	-0.55%
198*	75	0.5	54.89	3663.46	2.25	53.05	15096.42	107.34	1699	15597	-3.36%
199*	75	0.5	51.24	3658.72	1.12	50.33	16453.26	102.82	1616	14835	-1.78%
200*	75	0.5	54.53	3659.51	1.51	52.30	13949.54	127.00	1894	16474	-4.09%
201*	75	2.0	101.94	3852.70	1.60	99.84	30593.34	1378.17	5477	48172	-2.06%
202*	75	2.0	107.31	3896.04	1.68	105.87	28378.20	1608.74	5574	54187	-1.33%
203*	75	2.0	104.87	3953.76	1.09	103.74	29113.82	1727.25	5751	51733	-1.08%
204*	75	2.0	99.09	3883.43	0.47	97.49	29131.77	1323.77	5267	48245	-1.61%
205*	75	2.0	100.94	3920.68	1.67	99.75	30112.89	1964.12	5463	48874	-1.18%
206*	75	2.0	101.18	3906.44	0.93	98.78	29744.37	2075.21	5570	49081	-2.37%
207*	75	2.0	102.98	3880.91	1.43	102.17	29500.95	1636.73	5563	50393	-0.79%
208*	75	2.0	99.46	3894.08	1.74	98.65	27044.50	1472.33	5164	48216	-0.81%
209*	75	2.0	96.67	3865.74	1.18	95.02	31200.35	1344.61	5368	47483	-1.71%
210*	75	2.0	104.60	3915.02	1.85	103.32	27958.70	1355.78	5481	50274	-1.22%
211*	75	2.0	105.25	3978.65	1.98	104.66	27356.88	1751.18	5747	52071	-0.56%
212*	75	2.0	104.61	3903.56	1.16	102.05	30666.19	1607.52	5687	51634	-2.45%
213*	75	2.0	99.73	3897.10	0.63	97.84	30372.92	1255.40	5367	49694	-1.89%
214*	75	2.0	98.98	3892.84	1.18	97.91	29684.64	1041.54	5273	49269	-1.08%
215*	75	2.0	103.34	3925.52	2.10	101.86	27153.10	1429.34	5603	49205	-1.43%
216*	75	2.0	100.16	3884.92	1.29	99.36	30118.57	1340.49	5545	48789	-0.80%
217*	75	2.0	102.86	3916.87	1.83	102.14	29389.81	1372.33	5060	48812	-0.70%
218*	75	2.0	100.75	3897.91	2.10	100.00	28207.28	1402.23	5362	48198	-0.75%
219*	75	2.0	105.43	3899.50	1.20	100.73	29354.74	1333.86	5542	50971	-4.46%
220*	75	2.0	105.02	3914.66	1.95	103.67	29486.60	1410.80	5612	50835	-1.28%
221*	75	2.0	101.67	3914.69	2.03	101.30	29610.29	1435.98	5355	49240	-0.37%
222*	75	2.0	100.01	3901.81	1.48	99.69	31471.25	1424.11	5570	48855	-0.32%
223*	75	2.0	105.79	3955.01	2.23	104.45	29457.47	1604.30	5777	50359	-1.26%
224*	75	2.0	99.60	3903.67	1.09	97.28	31084.88	1366.57	5495	48858	-2.32%
225*	75	2.0	107.78	3940.44	1.29	106.89	27683.52	1802.68	5983	54726	-0.82%
226*	100	0.1	23.93	3628.33	2.40	22.63	6278.48	30.45	299	3056	-5.42%
227*	100	0.1	23.61	3628.47	2.15	21.50	6364.38	30.95	314	2996	-8.94%
228*	100	0.1	23.38	3629.94	1.13	20.49	6310.10	25.44	362	2997	-12.35%
229*	100	0.1	22.26	3630.06	2.39	21.83	6802.39	28.02	320	3021	-1.90%
230*	100	0.1	23.09	3630.66	1.85	21.49	7174.94	27.60	321	3112	-6.95%
231*	100	0.1	22.16	3628.87	0.94	21.50	6673.85	29.98	345	3183	-2.97%
232*	100	0.1	23.08	3631.19	2.08	22.55	6699.46	30.99	338	3134	-2.30%

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Table 1: Result of SimExact x SimSA-CVaR_{90%} (continued)

Inst	n	δ	SimExact		SimSA-CVaR _{90%}						GAP _{b × α}
			C-RPD ^a	T(s)	D-RPD	C-RPD ^b	SD	T(s)	ρ_S	ρ_L	
233*	100	0.1	21.84	3630.93	1.98	21.72	6651.50	29.43	365	3100	-0.57%
234*	100	0.1	22.64	3631.16	2.13	22.32	6797.71	28.46	314	2957	-1.44%
235*	100	0.1	22.23	3631.18	2.00	21.60	6913.87	30.32	352	3055	-2.84%
236*	100	0.1	22.78	3630.30	0.92	21.13	6212.87	30.61	355	3365	-7.27%
237*	100	0.1	22.27	3629.99	1.34	21.40	6918.17	54.40	314	2963	-3.90%
238*	100	0.1	24.49	3631.77	1.66	22.90	6961.23	30.08	316	3202	-6.52%
239*	100	0.1	22.57	3629.92	2.14	22.27	6938.58	28.96	295	3013	-1.34%
240*	100	0.1	22.48	3629.86	1.93	21.96	6624.04	30.67	318	3094	-2.30%
241*	100	0.1	22.78	3628.61	2.37	22.06	6267.98	32.58	368	3100	-3.16%
242*	100	0.1	23.81	3630.22	1.53	21.60	6391.98	30.18	360	3298	-9.26%
243*	100	0.1	23.78	3630.59	2.04	21.94	6550.66	29.22	335	3036	-7.73%
244*	100	0.1	22.36	3630.46	2.39	21.01	6886.20	31.21	290	3054	-6.03%
245*	100	0.1	22.57	3629.88	1.60	21.78	6283.22	30.16	385	3236	-3.48%
246*	100	0.1	22.41	3630.41	2.38	22.12	6134.74	31.47	278	2979	-1.29%
247*	100	0.1	20.88	3629.40	1.68	20.41	6685.45	28.48	325	3022	-2.27%
248*	100	0.1	23.23	3630.22	2.07	22.86	6371.67	31.02	365	2969	-1.58%
249*	100	0.1	21.36	3629.62	1.13	20.47	7072.95	30.45	364	2985	-4.16%
250*	100	0.1	22.31	3629.04	1.66	21.62	6853.28	29.36	298	2980	-3.09%
251*	100	0.5	55.33	3670.73	2.37	54.85	14856.42	136.54	1657	16018	-0.85%
252*	100	0.5	53.79	3669.59	1.81	52.08	14910.23	114.70	1639	14870	-3.17%
253*	100	0.5	52.21	3666.34	1.22	49.73	14497.25	100.45	1602	14654	-4.74%
254*	100	0.5	53.17	3671.62	1.89	51.92	15473.69	110.26	1637	15110	-2.36%
255*	100	0.5	52.31	3671.32	1.86	51.62	16626.15	117.82	1660	15059	-1.30%
256*	100	0.5	52.08	3669.33	0.95	51.70	15380.16	118.41	1781	15341	-0.74%
257*	100	0.5	54.40	3676.05	1.91	54.18	15565.45	150.82	1703	15360	-0.41%
258*	100	0.5	51.74	3673.19	1.94	51.56	15602.47	122.66	1634	14894	-0.36%
259*	100	0.5	53.05	3675.25	2.15	52.63	15896.40	121.03	1656	15289	-0.80%
260*	100	0.5	52.19	3675.47	1.75	50.81	15912.09	120.59	1672	14841	-2.66%
261*	100	0.5	54.68	3671.44	0.95	54.03	14972.17	154.19	1936	16444	-1.19%
262*	100	0.5	52.34	3671.76	1.37	51.66	16172.14	114.68	1676	15290	-1.28%
263*	100	0.5	55.08	3673.91	1.86	53.66	15984.36	131.30	1748	15521	-2.59%
264*	100	0.5	52.90	3670.28	2.54	51.82	16248.62	122.76	1711	15457	-2.05%
265*	100	0.5	53.73	3672.20	1.68	53.14	15653.56	128.23	1674	15549	-1.09%
266*	100	0.5	54.18	3668.73	2.16	53.93	14545.85	117.66	1845	15760	-0.46%
267*	100	0.5	52.48	3680.27	1.54	52.13	14992.33	134.91	1612	15109	-0.68%
268*	100	0.5	53.77	3672.65	1.87	52.35	15405.40	109.50	1626	15297	-2.63%
269*	100	0.5	53.32	3670.80	2.30	52.01	15841.74	141.37	1712	15201	-2.47%
270*	100	0.5	52.74	3670.96	1.59	51.20	15024.42	122.63	1769	15791	-2.91%
271*	100	0.5	54.16	3671.13	2.22	53.54	14960.68	146.14	1653	15433	-1.14%
272*	100	0.5	52.20	3670.81	1.44	50.12	15737.38	109.02	1666	14736	-3.98%
273*	100	0.5	55.13	3671.96	1.94	54.09	14924.10	133.74	1761	15809	-1.90%
274*	100	0.5	50.44	3667.29	1.21	49.78	16611.54	118.47	1666	14776	-1.30%
275*	100	0.5	51.14	3668.29	1.72	49.72	16014.49	126.02	1480	14754	-2.78%
276*	100	2.0	105.43	3949.97	2.12	103.07	28942.40	1652.10	5790	52783	-2.24%
277*	100	2.0	102.21	3926.60	2.13	101.43	28732.95	1575.90	5394	48383	-0.76%
278*	100	2.0	100.82	3908.45	1.26	100.48	28431.75	1553.74	5656	50340	-0.34%
279*	100	2.0	101.54	3925.18	2.12	101.40	29862.74	1530.59	5505	48497	-0.14%
280*	100	2.0	98.83	3915.92	1.81	98.43	31292.63	1618.37	5337	47634	-0.41%
281*	100	2.0	100.47	3924.11	1.02	99.69	29493.81	1851.36	5951	50650	-0.78%
282*	100	2.0	105.08	3991.09	1.90	103.11	29469.08	1927.14	6032	50772	-1.87%
283*	100	2.0	100.95	3951.91	1.90	99.75	29490.27	1597.97	5423	48436	-1.18%
284*	100	2.0	103.16	3964.62	2.13	102.71	30611.12	1771.08	5560	48926	-0.43%
285*	100	2.0	100.07	3974.14	1.68	98.42	29871.06	1632.18	5218	48785	-1.65%
286*	100	2.0	107.26	3981.04	0.93	106.87	28645.00	2282.83	6126	53090	-0.36%
287*	100	2.0	99.47	3944.69	1.20	98.97	30899.99	1787.70	5452	49361	-0.50%
288*	100	2.0	104.63	3953.05	1.65	101.64	29968.77	1690.80	5473	49976	-2.86%
289*	100	2.0	100.78	3920.50	2.00	100.45	30330.18	1806.29	5356	47969	-0.33%
290*	100	2.0	102.55	3963.06	1.95	101.62	29200.43	1802.80	5531	49559	-0.91%

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Table 1: Result of SimExact x SimSA-CVaR_{90%} (continued)

Inst	n	δ	SimExact		SimSA-CVaR _{90%}						GAP _{$b \times a$}
			C-RPD ^a	T(s)	D-RPD	C-RPD ^b	SD	T(s)	ρ_S	ρ_L	
291*	100	2.0	104.35	3943.37	2.23	103.35	27994.08	2026.31	5684	49995	-0.96%
292*	100	2.0	101.05	3931.38	1.44	100.81	28473.58	1854.86	5345	50877	-0.23%
293*	100	2.0	101.99	3928.42	1.97	101.55	29464.36	1613.45	5472	49864	-0.43%
294*	100	2.0	104.01	3946.25	2.36	103.52	29952.67	1852.78	5563	50381	-0.48%
295*	100	2.0	101.72	3926.84	1.58	98.77	28802.58	1881.10	5696	49985	-2.90%
296*	100	2.0	102.89	3945.21	2.31	102.62	28081.43	1866.63	5815	51116	-0.27%
297*	100	2.0	100.90	3930.84	1.59	100.76	33058.01	2370.52	5287	49246	-0.14%
298*	100	2.0	105.45	3955.18	1.91	104.90	28541.80	1864.30	5654	51265	-0.52%
299*	100	2.0	99.39	3932.68	1.30	97.60	33009.94	2516.56	5404	48178	-1.80%
300*	100	2.0	100.22	3921.59	1.68	99.18	30133.18	1698.62	5597	49121	-1.03%