Table 1: Result of SimExact x SimSA-CVaR $_{90\%}$

			Г		1						
Inst	n	δ		Exact		h	SimSA-CVa				$GAP_{b \times a}$
	0.5	0.1	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 25	0.1	23.77	197.62	1.83	22.74	6123.68	9.57	327	3008	-4.30% -9.09%
3	25	0.1	28.56 23.03	381.34	0.76	25.97	7295.99 7151.75	9.02	352	3678 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 25	0.5	54.92 60.10	328.24 470.94	1.87 2.25	52.21	13860.70 12395.32	95.21	1613	15488 16834	-4.93% -3.36%
41	25	0.5	53.31	294.05	2.25	49.53	15017.09	130.25	1569	14043	-3.36%
42	25	0.5	58.49	259.82	1.56	53.33	14494.90	114.17	1664	15905	-7.09%
44	25	0.5	52.90	307.34	1.36	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	48.25	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%
			1								next page

Table 1: Result of SimExact x SimSA-CVaR $_{90\%}$ (continued)

Name												
	Inst	n	δ	SimE	Exact			SimSA-CVa	$R_{90\%}$			GAPhya
60	11150	,,,		C -RPD a	T(s)	D-RPD	C -RPD b	SD	T(s)	ρ_S	$ ho_L$	0111 0 X a
61	59	25	2.0	95.99	864.16	0.60	94.38	32971.53	2141.34	5283	47402	-1.68%
Geo.	60	25	2.0	101.81	879.07	1.86	100.59	29674.53	2174.79	5336	48220	-1.20%
Geo.	61	25	2.0	101.93	1075.27	1.72	100.10	31310.53	2346.81	5580	49874	-1.79%
64	62	25	2.0	101.99	778.14	0.42	97.34	30893.48	2011.43	5460	49166	-4.55%
66	63	25	2.0	104.17	843.60	1.52	101.10	26387.03	2030.47	5804	49247	-2.95%
66	64	25	2.0	136.28	2239.75	3.97	135.95	22626.06	3791.06	7705	70093	-0.24%
67	65	25	2.0	106.80	1245.02	1.38	105.10	27444.79	1596.17	5755	52563	-1.59%
68	66	25	2.0	118.48	1610.54	2.06	116.46	24968.06	2145.20	6354	57785	-1.70%
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	67	25	2.0	99.00	906.17	1.54	97.76	29059.42	1266.50	5020	46676	-1.26%
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	68	25	2.0	109.31	783.33	1.43	105.33	27739.47	1721.77	5447	51225	-3.64%
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	69	25	2.0	104.34	1192.42	0.75	102.05	29217.15	1428.36	5689	49717	-2.19%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	70	25	2.0	95.29	1123.46	0.16	92.79	31424.23	1216.20	5278	46887	-2.62%
The color of the	71	25	2.0	96.92	4106.05	0.79	93.21	31801.55	1265.95	4827	45431	-3.83%
Texas	72	25	2.0	134.31	2096.17	4.07	133.06	21804.65	3279.55	7453	68414	-0.92%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	73	25	2.0	97.74	1167.98	1.54	95.57	27967.21	1598.41	5351	48908	-2.21%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	74	25	2.0	100.59	897.52	1.51	98.54	30861.44	1583.86	5325	47877	-2.05%
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% 80* 50 0.1 26.38 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 22.14 3631.29 0.75 21.20 7075.73 16.26 324 3151 -4.25% 84* 50 0.1 22.71 3630.00 1.36 22.18 6973.90 28.32 313 3064 -647% 85* 50 0.1 24.53 3630.23 2.50 23.94 613.65 14.81 337 3153 -10.78 86	75	25	2.0	97.22	1156.51	0.65	95.71	31129.27	1252.18	5194	47186	-1.55%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_	50	0.1	24.52	3630.31	2.28	23.35	6179.64	14.32	405	3155	-4.75%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	77*	50	0.1	24.34	3629.56	1.77	22.63	6465.58	15.59	337	3232	-7.01%
80* 50 0.1 20.88 3631.53 0.48 20.38 7230.41 14.83 298 3066 -2.42% 81* 50 0.1 22.145 3629.64 1.11 20.92 6662.90 15.21 368 3403 -7.19% 82* 50 0.1 22.14 3631.29 0.75 21.20 7075.73 16.26 324 3151 4.25% 84* 50 0.1 22.14 3631.09 0.75 21.20 7075.73 16.26 324 3151 4.25% 85* 50 0.1 22.42 3630.00 1.36 22.18 6973.90 28.32 313 3064 -6.47% 86* 50 0.1 22.42 3628.29 1.23 21.09 7271.14 1.43.6 314 3096 -5.95% 87* 50 0.1 22.53 363.05 1.05 22.26 6741.82 14.30 364 3176 -10.75%	78*	50	0.1	22.32	3630.50	0.57	21.59	7640.17	15.51	387	3071	-3.25%
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% 84* 50 0.1 22.14 3631.29 0.75 21.20 7075.73 16.26 324 3151 -4.25% 84* 50 0.1 26.80 3630.23 2.50 23.94 6136.56 14.81 337 3153 -10.67% 86* 50 0.1 22.453 3630.65 1.05 22.67 7465.97 14.13 335 3075 -7.58% 87* 50 0.1 22.543 3630.65 1.02 22.67 7465.97 14.13 335 3075 -7.58% 88* 50 0.1 22.543 3631.50 1.42 21.60 7161.21 15.53 351 3121 -1.71%	79*	50	0.1	26.31	3630.11	2.43	22.43	5532.01	14.93	364	3176	-14.75%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80*	50	0.1	20.88	3631.53	0.48	20.38	7230.41	14.83	298	3066	-2.42%
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% 86* 50 0.1 22.42 3628.29 1.23 21.09 7271.14 14.36 314 305 -5.95% 87* 50 0.1 22.43 3630.65 1.05 22.67 7465.97 14.13 335 3075 -7.5% 88* 50 0.1 25.54 3629.23 1.81 22.80 6741.82 14.30 364 3176 -10.75% 89* 50 0.1 23.97 3631.50 1.42 21.60 7161.21 15.53 351 3121 -1.71% 90* 50 0.1 23.97 3630.68 1.41 22.45 7268.21 14.64 331 2947 -11.16%	81*	50	0.1	22.54	3629.64	1.11	20.92	6662.90	15.21	368	3403	-7.19%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	82*	50	0.1	21.95	3631.00	1.60	21.36	6533.29	15.72	353	3073	-2.70%
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 22.53 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 23.97 3631.02 1.78 23.79 6455.73 15.04 395 3457 -0.78% 91* 50 0.1 23.37 3630.68 1.11 21.25 7008.71 14.34 384 3184 -9.92% 93* 50 0.1 23.33 3631.44 2.03 21.18 6052.79 13.15 319 294 -10.77% <t< td=""><td>83*</td><td>50</td><td>0.1</td><td>22.14</td><td>3631.29</td><td>0.75</td><td>21.20</td><td>7075.73</td><td>16.26</td><td>324</td><td>3151</td><td>-4.25%</td></t<>	83*	50	0.1	22.14	3631.29	0.75	21.20	7075.73	16.26	324	3151	-4.25%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	84*	50	0.1	23.71	3630.00	1.36	22.18	6973.90	28.32	313	3064	-6.47%
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 1.992% 93* 50 0.1 23.93 3629.82 1.62 21.08 6886.18 29.08 340 2932 -11.94% 94* <t< td=""><td></td><td>50</td><td>0.1</td><td>26.80</td><td>3630.23</td><td>2.50</td><td>23.94</td><td>6136.56</td><td>14.81</td><td>337</td><td>3153</td><td>-10.67%</td></t<>		50	0.1	26.80	3630.23	2.50	23.94	6136.56	14.81	337	3153	-10.67%
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 3630.68 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 23.73 3631.44 2.03 21.18 6052.79 13.15 319 2932 -11.14% 94* 50 0.1 20.37 3632.06 0.67 20.49 7729.21 13.62 304 3025 -2.28%			0.1							314	3096	-5.95%
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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% <			1									
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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%												
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%			-									
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%												
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%			-									
113* 50 0.5 53.35 3688.00 1.75 52.23 15310.30 93.68 1750 15711 -2.09%												
114* EO OE EOOO 9701 07 1 EO 40 05 10101 00 00 1051 11005 11005 11005			-									
114* 50 0.5 52.00 3701.87 1.53 49.85 16181.28 93.87 1671 14395 -4.12%			1									
115* 50 0.5 53.78 3698.00 1.75 52.89 14551.07 93.24 1703 15169 -1.67%	_		1									
116* 50 0.5 54.21 3693.92 1.39 51.80 16741.66 92.27 1565 14739 -4.44% Continued on the next page	110	90	0.5	54.21	ə093.92	1.39	91.80	10/41.00	92.21			

Table 1: Result of SimExact x SimSA-CVaR $_{90\%}$ (continued)

			SimE	Paraet			SimSA-CVa	D			
Inst	n	δ	C-RPD ^a	T(s)	D-RPD	C -RPD b	SD SD	T(s)	0.0	0.5	$GAP_{b \times a}$
117*	50	0.5	54.28	3691.77	1.47	51.32	16284.25	102.96	ρ_S 1805	$\frac{\rho_L}{15481}$	-5.46%
118*	50		52.64		1.25	51.13					-2.87%
119*	50	0.5		3695.75 3702.59			16232.36	80.90	1705	15143	-5.32%
120*	50	0.5	54.15 49.35	3690.70	1.80	51.27 48.19	14326.41 17116.34	89.31 87.29	1647 1552	15098 14100	-3.32%
121*	50	0.5	55.00	3705.25	2.18	52.73	14738.27	98.64	1771	15904	-4.14%
122*											
123*	50	0.5	52.01	3696.22	1.86 0.90	50.79 48.45	15269.79	90.76	1760	15058	-2.35%
124*	50		53.42	3691.08		50.97	14581.85	100.73	1763	16140	-9.29% -0.88%
125*	50	0.5	51.42	3646.83	1.54	50.97	15719.28 15813.72	95.77	1615	15129	
	50	0.5 2.0	50.88 104.17	3641.99 4494.43	0.74		26876.42	1601.93	1557	15058 49618	-1.29%
126*	50	2.0			2.15	102.09			5336		-2.00%
			104.68	4617.19	1.79		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%

Table 1: Result of SimExact x SimSA-CVaR $_{90\%}$ (continued)

			SimF	Exact			SimSA-CVa	Room			
Inst	n	δ	C-RPD ^a	T(s)	D-RPD	C -RPD b	SD	T(s)	ρ_S	ρ_L	$GAP_{b \times a}$
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		113.72	1764	15427	-2.71%
182*	75	0.5	53.80	3653.63	1.72	52.33	15689.49 15306.67	158.12	1667	15207	-2.71%
											-2.73%
183*	75	0.5	51.74	3658.78	1.43	50.54	14108.34	96.95	1614	14900	
184*	75	0.5	51.51	3656.67	1.89	51.28	16520.56		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%
									Continu	and on the	e next page

Table 1: Result of SimExact x SimSA-CVaR $_{90\%}$ (continued)

Part		1	1	g: T	3			G: GA GV	D			I
9337 100 0.1 21.84 8360.03 1.18 21.72 6951.50 29.43 365 3100 0.576 234* 100 0.1 22.24 3601.16 2.13 22.22 2077.71 28.46 314 29.67 1.44% 236** 100 0.1 22.278 803.03 0.92 21.13 621.28* 30.22 32.30 30.22 30.5 7.27% 237** 100 0.1 22.278 803.03 0.92 21.13 621.28* 314 23.63 -2.47 338** 100 0.1 22.47 803.09 1.0 22.06 603.58 80.88 20.33 3.13 309.1 -3.24 410** 100 0.1 22.38 309.00 2.1 22.06 603.58 80.88 30.93 30.33 31.33 30.30 3.1 4.34 414*** 100 0.1 22.37 808.02 2.1 2.0 60.35 2.2	Inst	n	δ			D DDD	C D D D b				0-	$GAP_{b \times a}$
2345 100 0.1 22.243 363.1.6 2.13 2.23 6797.71 28.66 314 207 1.44% 2357 100 0.1 22.23 363.1.6 2.00 6013.87 30.32 30.55 3365 7.27% 2374 100 0.1 22.27 3693.99 1.34 21.0 6013.87 30.61 355 3365 7.27% 2374 100 0.1 22.47 3623.92 21.34 22.27 6093.58 28.06 29.0 30.34 1.34% 2407 100 0.1 22.37 3629.82 1.35 21.06 692.04 30.3 30.3 31.04 2.34% 2417 100 0.1 22.38 368.05 2.0 2.10 685.06 29.22 333 30.3 3.0 4.25% 2447 100 0.1 22.37 360.04 2.2 2.3 30.3 3.3 3.3 3.3 3.3 3.3 3.3 <td>222*</td> <td>100</td> <td>0.1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.57%</td>	222*	100	0.1									0.57%
1935 100 0.11 22 23 s 3831.18 2.00 2.11 691.38 332 3055 2.54% 236* 100 0.11 22.278 3605.30 0.92 21.13 0212.87 30.61 352 3055 2.267 2387 100 0.11 22.278 3629.99 1.13 21.40 6981.37 34.00 314 2983 -3.00 314 22.27 30.00 33.08 316 3022 4.62% 30.00 31.3 1.34 21.00 0.11 22.48 3629.98 1.93 21.00 602.40 30.07 318 300 1.01 22.38 380.90 2.04 21.00 602.02 33.08 30.00 3.00 </td <td></td>												
3387* 100 0.1 2.2.78 38.930 9.92 21.13 671.277 30.61 355 33.65 7.778 2387* 100 0.1 22.27 362.90 1.34 21.14 691.27 30.08 316 3202 -5.078 2394* 100 0.1 22.27 362.92 2.14 22.27 693.85 2.96 295 3013 1.34% 2414* 100 0.1 22.48 362.986 2.27 22.06 602.108 3.05 313 1.34% 2414* 100 0.1 22.38 363.02 2.13 22.06 602.108 3.05 300 3.105 32.5 368 3100 2.926 2444* 100 0.1 22.38 363.03 2.21 21.01 685.00 31.21 290 3054 -6.03% 2444* 100 0.1 22.38 363.04 23.8 22.21 61.34 31.4 31.22 30.23												
238* 100 0.1 22.27 39.29.99 1.34 21.40 69.12.3 30.08 31.6 20.90 6.00 3.20 2.60.57% 2.30.90 2.20 60.01 22.57 362.90 2.14 22.27 6938.58 28.90 29.5 30.13 1.34% 240* 100 0.1 22.48 3629.90 2.13 21.06 662.04 30.67 318 30.04 -2.30% 241* 100 0.1 22.38 3638.05 2.23 22.06 662.04 30.25 33.8 30.00 2.30.6 242* 100 0.1 22.38 3630.05 2.0 21.14 655.06 29.22 335 30.04 -7.73% 244* 100 0.1 22.27 3693.69 1.6 21.78 683.22 30.16 38.5 32.20 30.04 36.0 30.24 4.6 4.0 4.1 4.4 4.0 4.0 4.1 4.4 4.0 4.0 4.2 <td></td>												
238* 100 0.1 24.49 3631,77 1.06 22.90 6961,23 30.08 316 3202 -6.75% 2390 100 0.1 22.257 3699,02 2.14 22.27 6035,88 28.96 295 3013 1.1.34% 241* 100 0.1 22.78 3628,61 2.37 22.06 6224,94 30.8 3100 3.18 300 1.1.34% 243** 100 0.1 23.38 3630,62 2.0 21.94 6550.60 29.22 335 303 -7.73% 244** 100 0.1 22.37 369.64 2.39 21.01 688.20 31.21 290 3034 -6.05% 244** 100 0.1 22.23 369.64 2.38 22.12 613.44 31.47 27.27 33.22 2.427% 244*** 100 0.1 22.38 369.02 2.13 20.41 6685.45 2.848 35.2 392.2 2.												
239* 100 0.1 22.57 362.90 2.14 22.27 6388.88 2.8.96 265 30.31 1.3.4% 2401* 100 0.1 22.48 302.986 1.53 21.96 62.04 30.67 31.88 3010 -3.16% 242** 100 0.1 22.81 360.202 1.53 21.00 630.198 30.18 300 32.98 -9.26% 243** 100 0.1 22.57 3630.96 2.39 21.01 6580.20 31.21 290 3054 -6.03% 244** 100 0.1 22.23 3630.46 2.39 21.01 6586.20 31.21 290 3054 -6.03% 244** 100 0.1 22.23 3630.42 1.68 20.41 6586.52 23.43 32.92 299 -1.08% 244** 100 0.1 22.33 360.24 1.13 20.47 22.68 33.12 36.5 20.95 3.23 <th< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		-										
240* 100 0.1 22.48 3629.86 1.93 21.96 6621.04 30.67 318 3094 2.30% 241* 100 0.1 22.78 3028.01 2.37 22.06 627.98 32.88 30.00 -1.0% 242* 100 0.1 22.78 303.02 2.15 30.00 2.15 30.00 2.10 30.00 30.00 2.10 605.00 29.22 335 3036 -7.73% 244* 100 0.1 22.25 369.98 1.60 21.78 6283.22 30.16 385 32.36 -3.48% 246* 100 0.1 22.23 360.92 1.16 22.12 631.74 31.47 37.92 3022 22.27 247* 100 0.1 22.33 360.22 20.7 22.86 631.67 31.02 362.90 1.58% 244* 100 0.1 22.33 360.22 2.07 22.26 6853.28 29.36 <td></td>												
241* 100												
242* 100		-										
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 22.37 3629.88 1.60 21.78 6283.22 30.16 38.85 3363 3296 1.68 20.41 6685.55 28.48 325 3022 2.27% 247** 100 0.1 22.33 3630.22 2.07 22.66 6371.67 31.02 365 2909 1.55 1.55% 249** 100 0.1 22.33 369.92 1.13 20.47 7072.95 30.45 364 2955 -1.16% 250** 100 0.5 55.33 3670.73 2.37 54.85 14856.42 136.44 1657 1618 -1.30% 252*** 100 0.5 52.31		-										
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289* 100 2.0 100.78 3920.50 2.00 100.45 30330.18 1806.29 5356 47969 -0.33%		100	2.0	99.47		1.20		30899.99	1787.70	5452	49361	
	288*	100	2.0	104.63	3953.05	1.65	101.64	29968.77	1690.80	5473	49976	-2.86%
290* 100 2.0 102.55 3963.06 1.95 101.62 29200.43 1802.80 5531 49559 -0.91%	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%

Table 1: Result of SimExact x SimSA-CVaR $_{90\%}$ (continued)

Inst		δ	SimE	xact			SimSA-CVa	R _{90%}			CAD
Inst	n	0	C -RPD a	T(s)	D-RPD	C -RPD b	SD	T(s)	ρ_S	ρ_L	$GAP_{b\times a}$
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%