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

No. Simple No. Post												.
1	Inst	n	δ		Exact			SimSA-VaF	R _{90%}			$GAP_{h \times a}$
25				V-RPD ^a	T(s)	D-RPD	V-RPD ^b	SD	T(s)	ρ_S	ρ_L	- 0/4
25	1	25	0.1	17.64	209.08	0.31	16.07	7120.75	19.65	366	3594	-8.91%
4	2	25	0.1	17.82	197.62	2.25	16.23	6081.68		345	3671	-8.91%
5 25 0.1 18.03 276.61 1.18 16.56 6768.93 10.69 341 3491 8.18% 6 25 0.1 13.60 3616.33 50.51 17.05 6798.85 9.40 396 3611 1.63 364 3309 7.33 1.615 7372.71 11.03 308 390 7.41% 8 26 0.1 17.44 389.97 1.33 16.15 7372.71 11.03 30 3899 7.41% 9.71 10 25 0.1 22.54 389.97 0.42 21.24 772.41 11.06 375 3755 -5.26% 11 25 0.1 22.47 379.78 2.12 23.12 23.11 10.10 375 3755 -5.26% 12 25 0.1 22.73 35.20 8.91 36.20 8.91 36.30 379 >5.56% 13 26 0.1 22.57 35.22 26.24 20.24 <th< td=""><td>3</td><td>25</td><td>0.1</td><td>23.67</td><td>144.43</td><td>1.34</td><td>22.08</td><td>7431.14</td><td>12.17</td><td>342</td><td>3791</td><td></td></th<>	3	25	0.1	23.67	144.43	1.34	22.08	7431.14	12.17	342	3791	
6	4		0.1			1.01				376	3790	
The color of the												
8	6	25	0.1	22.71	245.69	1.23	21.26	6798.85	9.40	396	3611	-6.39%
9	7	25	0.1	18.40	3616.33	0.51	17.05	7189.54	10.63	364	3309	
10	8	25	0.1	17.44	389.70	1.33	16.15	7372.71	11.61	350	3809	-7.41%
11												
12	10	25	0.1	29.76	280.55	2.12		7161.21	10.60	375	3755	-5.26%
13			0.1	24.47	379.78	2.12		7311.13	10.13	320	3842	-5.49%
14	12	25	0.1	24.24	182.83	0.79	22.90	7101.05	9.18	365	3799	-5.54%
15	13	25	0.1	29.86	293.77	1.26	28.18	5804.72	8.84	331	3588	-5.61%
16	14	25	0.1	23.77	355.26	4.28	21.47	4250.87	9.22	352	3795	-9.68%
17	15	25	0.1	17.69	268.58	2.06	16.10	5909.83	8.91	364	3650	-8.98%
18	16	25	0.1	20.28	400.42	2.68	18.37	5262.58	10.48	319	3540	-9.43%
19	17	25	0.1	22.52	256.59	1.72	21.14	6801.49	8.83	305	3592	-6.14%
20	18	25	0.1	33.39	231.16	1.83	31.86	6272.85	9.68	320	3666	-4.57%
21 25 0.1 23.86 3619.26 0.80 22.63 7493.54 9.33 366 3797 -5.18% 22 25 0.1 25.18 316.73 4.47 22.73 4762.52 13.40 328 3411 -9.72% 24 25 0.1 17.69 333.54 1.21 16.10 6304.61 10.86 325 3276 -9.01% 25 25 0.1 16.32 371.05 0.90 15.04 7230.54 10.65 358 3779 -7.84% 26 25 0.5 37.98 251.45 0.54 37.16 15316.94 114.03 1589 15280 -2.15% 27 25 0.5 33.03 252.87 2.53 38.29 1147.34 117.85 142.2 1643 28 25 0.5 36.77 432.73 0.91 35.99 1615.17 96.59 1631 14963 -2.1% 30 25	19	25	0.1	17.97	251.62	1.39	16.38	6675.96	10.71	368	3592	-8.82%
22 25 0.1 25.18 316.73 4.47 22.73 4762.52 13.40 328 3411 -9.72% 23 25 0.1 17.69 333.54 1.21 16.10 6304.61 10.86 325 3276 -9.01% 25 25 0.1 21.22 205.36 1.61 19.77 7132.37 11.98 326 3715 -6.87% 26 25 0.5 37.98 251.45 0.54 37.16 15316.94 114.03 1589 15280 -2.15% 27 25 0.5 39.33 252.87 2.53 38.29 14147.34 117.85 1425 15580 -2.15% 28 25 0.5 36.77 432.73 0.91 35.99 16156.17 96.59 1631 14963 -2.12% 30 25 0.5 38.76 3312.38 1.52 43.25 1539.95 100.59 170 14010 -2.04%	20	25	0.1	17.76	378.27	0.32	16.55	7661.52	9.21	387	3703	-6.82%
23 25 0.1 17.69 333.54 1.21 16.10 6304.61 10.86 325 3276 -9.01% 24 25 0.1 21.22 205.36 1.61 19.77 7132.37 11.98 326 371.5 -6.87% 25 25 0.1 16.32 371.05 0.90 15.04 7230.54 10.65 358 3715 -6.87% 26 25 0.5 37.98 251.45 0.54 37.16 15316.94 114.03 115.09 2.15% 27 25 0.5 39.33 252.87 2.53 38.29 14147.34 117.85 1425 15534 -2.64% 28 25 0.5 36.77 432.73 0.91 35.99 16156.17 96.59 1631 16963 -2.12% 30 25 0.5 36.61 360.91 1.93 35.80 1582.81 99.81 1579 15660 -2.23% 31 25	21	25	0.1	23.86	3619.26	0.80	22.63	7493.54	9.33	366	3797	-5.18%
24 25 0.1 21.22 205.36 1.61 19.77 7132.37 11.98 326 3715 -6.87% 25 25 0.1 16.32 371.05 0.90 15.04 7230.54 10.65 358 3779 -7.84% 26 25 0.5 37.98 251.45 0.54 37.16 15316.94 114.03 1589 15280 -2.15% 27 25 0.5 39.33 252.87 2.53 38.29 14147.34 116.88 1418 16013 -1.97% 29 25 0.5 36.77 432.73 0.91 35.99 16156.17 96.59 1631 14963 -2.12% 30 25 0.5 38.76 334.87 1.19 37.86 15529.74 90.98 1579 15650 -2.32% 31 25 0.5 36.61 3669.71 0.49 35.80 1582.81 98.66 1403 14121 -2.24% <	22	25	0.1	25.18	316.73	4.47	22.73	4762.52	13.40	328	3411	-9.72%
25 25 0.1 16.32 371.05 0.90 15.04 7230.54 10.65 358 3779 -7.84% 26 25 0.5 37.98 251.45 0.54 37.16 15316.94 114.03 1589 15280 -2.15% 27 25 0.5 39.33 252.87 2.53 38.29 14147.34 117.85 1425 15534 -2.64% 28 25 0.5 36.77 432.73 0.91 35.99 16156.17 96.59 1631 14963 -2.12% 30 25 0.5 38.76 334.87 1.19 37.86 15529.74 90.98 1579 16650 -2.23% 31 25 0.5 36.61 3669.71 0.9 35.80 1582.81 169 98.66 1403 14121 -2.22% 33 25 0.5 36.61 366.97 0.9 35.80 1582.81 149.9 146.31 14123 -1.89 </td <td>23</td> <td>25</td> <td>0.1</td> <td>17.69</td> <td>333.54</td> <td>1.21</td> <td>16.10</td> <td>6304.61</td> <td>10.86</td> <td>325</td> <td>3276</td> <td>-9.01%</td>	23	25	0.1	17.69	333.54	1.21	16.10	6304.61	10.86	325	3276	-9.01%
26 25 0.5 37.98 251.45 0.54 37.16 15316.94 114.03 1589 15280 -2.15% 27 25 0.5 39.33 252.87 2.53 38.29 14147.34 117.85 1425 15534 -2.64% 28 25 0.5 42.23 178.96 1.98 41.40 16019.42 116.88 1418 16013 -1.97% 30 25 0.5 38.76 432.73 0.91 35.99 16156.17 96.59 1631 1496.3 -2.12% 31 25 0.5 38.76 334.87 1.19 37.86 15529.74 90.98 1579 15650 -2.32% 31 25 0.5 36.61 366.91 10.49 35.80 1582.81 98.66 1403 14121 -2.22% 32 25 0.5 36.01 344 1.24 36.78 16294.92 116.32 1424 140.40 1418.99 96.59 <td>24</td> <td>25</td> <td>0.1</td> <td>21.22</td> <td>205.36</td> <td>1.61</td> <td>19.77</td> <td>7132.37</td> <td>11.98</td> <td>326</td> <td>3715</td> <td>-6.87%</td>	24	25	0.1	21.22	205.36	1.61	19.77	7132.37	11.98	326	3715	-6.87%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25	25	0.1	16.32	371.05	0.90	15.04	7230.54	10.65	358	3779	-7.84%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	26	25	0.5	37.98	251.45	0.54	37.16	15316.94	114.03	1589	15280	-2.15%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27	25	0.5	39.33	252.87	2.53	38.29	14147.34	117.85	1425	15534	-2.64%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28	25	0.5	42.23	178.96	1.98	41.40	16019.42	116.88	1418	16013	-1.97%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	29	25	0.5	36.77	432.73	0.91	35.99	16156.17	96.59	1631	14963	-2.12%
32 25 0.5 36.61 3669.71 0.49 35.80 15882.81 98.66 1403 14121 -2.22% 33 25 0.5 37.61 445.44 1.24 36.78 16294.92 116.32 1423 17408 -2.21% 34 25 0.5 38.05 350.55 0.61 37.34 17181.95 96.59 1418 15792 -1.89% 35 25 0.5 44.37 317.85 1.80 43.54 15691.37 115.69 1457 14123 -1.88% 36 25 0.5 441.19 426.79 2.14 40.36 16158.74 101.60 1500 16724 -2.02% 37 25 0.5 44.61 329.00 2.43 46.69 13542.89 93.91 1433 16578 -1.93% 39 25 0.5 49.49 457.85 4.22 48.13 10806.69 150.66 1420 16397 -2.76%	30	25	0.5	38.76	334.87	1.19	37.86	15529.74	90.98	1579	15650	-2.32%
33 25 0.5 37.61 445.44 1.24 36.78 16294.92 116.32 1423 17408 -2.21% 34 25 0.5 38.05 350.55 0.61 37.34 17181.95 96.59 1418 15792 -1.89% 35 25 0.5 44.37 317.85 1.80 43.54 15691.37 115.69 1457 14123 -1.88% 36 25 0.5 41.19 426.79 2.14 40.36 16158.74 101.60 1500 16724 -2.02% 37 25 0.5 41.05 214.11 0.34 40.18 16528.91 108.89 1540 16301 -2.11% 38 25 0.5 47.61 329.00 2.43 46.69 13542.89 93.91 141 20 16307 -2.76% 40 25 0.5 39.69 328.24 2.09 38.69 13879.34 100.39 1545 14170 -2.53%	31	25	0.5	44.15	312.38	1.52	43.25	15139.95	100.59	1700	14010	-2.04%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	32	25	0.5	36.61	3669.71	0.49	35.80	15882.81	98.66	1403	14121	-2.22%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33	25	0.5	37.61	445.44	1.24	36.78	16294.92	116.32	1423	17408	-2.21%
36 25 0.5 41.19 426.79 2.14 40.36 16158.74 101.60 1500 16724 -2.02% 37 25 0.5 41.05 214.11 0.34 40.18 16528.91 108.89 1540 16301 -2.11% 38 25 0.5 47.61 329.00 2.43 46.69 13542.89 93.91 1433 16578 -1.93% 39 25 0.5 49.49 457.85 4.22 48.13 10806.69 150.66 1420 16397 -2.76% 40 25 0.5 39.69 328.24 2.09 38.69 13879.34 100.39 1545 14170 -2.53% 41 25 0.5 39.68 294.05 2.17 38.78 15266.47 103.25 1644 16087 -2.25% 43 25 0.5 45.90 259.82 1.77 44.89 14492.62 107.42 1464 16296 -2.18%	34	25	0.5	38.05	350.55	0.61	37.34	17181.95	96.59	1418	15792	-1.89%
37 25 0.5 41.05 214.11 0.34 40.18 16528.91 108.89 1540 16301 -2.11% 38 25 0.5 47.61 329.00 2.43 46.69 13542.89 93.91 1433 16578 -1.93% 39 25 0.5 49.49 457.85 4.22 48.13 10806.69 150.66 1420 16397 -2.76% 40 25 0.5 39.69 328.24 2.09 38.69 13879.34 100.39 1545 14170 -2.53% 41 25 0.5 44.25 470.94 2.43 43.13 12475.14 127.71 1606 14199 -2.53% 42 25 0.5 39.68 294.05 2.17 38.78 15266.47 103.25 1644 16087 -2.25% 43 25 0.5 39.28 307.34 1.50 38.39 15242.87 110.44 1644 16783 -2.25%	35	25	0.5	44.37	317.85	1.80	43.54	15691.37	115.69	1457	14123	-1.88%
38 25 0.5 47.61 329.00 2.43 46.69 13542.89 93.91 1433 16578 -1.93% 39 25 0.5 49.49 457.85 4.22 48.13 10806.69 150.66 1420 16397 -2.76% 40 25 0.5 39.69 328.24 2.09 38.69 13879.34 100.39 1545 14170 -2.53% 41 25 0.5 44.25 470.94 2.43 43.13 12475.14 127.71 1606 14199 -2.53% 42 25 0.5 39.68 294.05 2.17 38.78 15266.47 103.25 1644 16087 -2.25% 43 25 0.5 39.28 307.34 1.50 38.39 15242.87 110.44 1644 16783 -2.25% 45 25 0.5 36.66 431.59 0.23 35.84 16814.10 94.86 1610 15825 -2.22%	36	25	0.5	41.19	426.79	2.14	40.36	16158.74	101.60	1500	16724	-2.02%
39 25 0.5 49.49 457.85 4.22 48.13 10806.69 150.66 1420 16397 -2.76% 40 25 0.5 39.69 328.24 2.09 38.69 13879.34 100.39 1545 14170 -2.53% 41 25 0.5 44.25 470.94 2.43 43.13 12475.14 127.71 1606 14199 -2.53% 42 25 0.5 39.68 294.05 2.17 38.78 15266.47 103.25 1644 16087 -2.25% 43 25 0.5 45.90 259.82 1.77 44.89 14492.62 107.42 1464 16296 -2.18% 44 25 0.5 39.28 307.34 1.50 38.39 15242.87 110.44 1644 16783 -2.25% 45 25 0.5 36.66 431.59 0.23 35.84 16814.10 94.86 1610 15825 -2.22%	37	25	0.5	41.05	214.11	0.34	40.18	16528.91	108.89	1540	16301	-2.11%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	38	25	0.5	47.61	329.00	2.43	46.69	13542.89	93.91	1433	16578	-1.93%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39	25	0.5	49.49	457.85	4.22	48.13	10806.69	150.66	1420	16397	-2.76%
42 25 0.5 39.68 294.05 2.17 38.78 15266.47 103.25 1644 16087 -2.25% 43 25 0.5 45.90 259.82 1.77 44.89 14492.62 107.42 1464 16296 -2.18% 44 25 0.5 39.28 307.34 1.50 38.39 15242.87 110.44 1644 16783 -2.25% 45 25 0.5 36.66 431.59 0.23 35.84 16814.10 94.86 1610 15825 -2.22% 46 25 0.5 40.12 3648.80 0.73 39.29 17129.47 87.84 1685 14384 -2.06% 47 25 0.5 50.49 419.00 4.76 49.04 10886.77 189.81 1485 17501 -2.88% 48 25 0.5 37.81 389.06 1.41 36.84 14404.83 97.87 1418 17300 -2.55%			0.5					13879.34				
43 25 0.5 45.90 259.82 1.77 44.89 14492.62 107.42 1464 16296 -2.18% 44 25 0.5 39.28 307.34 1.50 38.39 15242.87 110.44 1644 16783 -2.25% 45 25 0.5 36.66 431.59 0.23 35.84 16814.10 94.86 1610 15825 -2.22% 46 25 0.5 40.12 3648.80 0.73 39.29 17129.47 87.84 1685 14384 -2.06% 47 25 0.5 50.49 419.00 4.76 49.04 10886.77 189.81 1485 17501 -2.88% 48 25 0.5 37.81 389.06 1.41 36.84 14404.83 97.87 1418 17300 -2.55% 49 25 0.5 36.65 424.59 0.83 35.81 16583.65 98.54 1638 14431 -2.29%			0.5									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
45 25 0.5 36.66 431.59 0.23 35.84 16814.10 94.86 1610 15825 -2.22% 46 25 0.5 40.12 3648.80 0.73 39.29 17129.47 87.84 1685 14384 -2.06% 47 25 0.5 50.49 419.00 4.76 49.04 10886.77 189.81 1485 17501 -2.88% 48 25 0.5 37.81 389.06 1.41 36.84 14404.83 97.87 1418 17300 -2.55% 49 25 0.5 41.58 251.17 1.42 40.80 15803.97 90.17 1454 17091 -1.89% 50 25 0.5 36.65 424.59 0.83 35.81 16583.65 98.54 1638 14431 -2.29% 51 25 2.0 67.14 894.14 0.27 66.89 29879.17 1252.72 5514 44305 -0.37%		25	0.5	45.90	259.82	1.77	44.89	14492.62	107.42	1464	16296	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	44	25	0.5	39.28	307.34			15242.87	110.44		16783	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			0.5									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
50 25 0.5 36.65 424.59 0.83 35.81 16583.65 98.54 1638 14431 -2.29% 51 25 2.0 67.14 894.14 0.27 66.89 29879.17 1252.72 5514 44305 -0.37% 52 25 2.0 74.63 1056.18 1.94 74.41 27005.86 1314.68 5243 47655 -0.30% 53 25 2.0 73.39 755.58 1.07 73.19 29875.02 1290.69 5356 47774 -0.27% 54 25 2.0 69.71 1144.27 0.87 69.55 31051.68 1020.54 5611 44571 -0.23% 55 25 2.0 69.93 1098.47 1.92 69.75 29812.06 1037.16 5560 42428 -0.25% 56 25 2.0 74.97 1100.14 1.49 74.83 28964.41 1229.30 5391 43271 -0.19% <td></td> <td></td> <td>0.5</td> <td></td> <td></td> <td>1.41</td> <td></td> <td>14404.83</td> <td>97.87</td> <td>1418</td> <td></td> <td>-2.55%</td>			0.5			1.41		14404.83	97.87	1418		-2.55%
51 25 2.0 67.14 894.14 0.27 66.89 29879.17 1252.72 5514 44305 -0.37% 52 25 2.0 74.63 1056.18 1.94 74.41 27005.86 1314.68 5243 47655 -0.30% 53 25 2.0 73.39 755.58 1.07 73.19 29875.02 1290.69 5356 47774 -0.27% 54 25 2.0 69.71 1144.27 0.87 69.55 31051.68 1020.54 5611 44571 -0.23% 55 25 2.0 69.93 1098.47 1.92 69.75 29812.06 1037.16 5560 42428 -0.25% 56 25 2.0 74.97 1100.14 1.49 74.83 28964.41 1229.30 5391 43271 -0.19% 57 25 2.0 66.98 4410.68 0.64 66.85 29755.54 1009.43 5661 46058 -0.19% <	49	25	0.5	41.58	251.17	1.42	40.80	15803.97	90.17	1454	17091	
52 25 2.0 74.63 1056.18 1.94 74.41 27005.86 1314.68 5243 47655 -0.30% 53 25 2.0 73.39 755.58 1.07 73.19 29875.02 1290.69 5356 47774 -0.27% 54 25 2.0 69.71 1144.27 0.87 69.55 31051.68 1020.54 5611 44571 -0.23% 55 25 2.0 69.93 1098.47 1.92 69.75 29812.06 1037.16 5560 42428 -0.25% 56 25 2.0 74.97 1100.14 1.49 74.83 28964.41 1229.30 5391 43271 -0.19% 57 25 2.0 66.98 4410.68 0.64 66.85 29755.54 1009.43 5661 46058 -0.19%												
53 25 2.0 73.39 755.58 1.07 73.19 29875.02 1290.69 5356 47774 -0.27% 54 25 2.0 69.71 1144.27 0.87 69.55 31051.68 1020.54 5611 44571 -0.23% 55 25 2.0 69.93 1098.47 1.92 69.75 29812.06 1037.16 5560 42428 -0.25% 56 25 2.0 74.97 1100.14 1.49 74.83 28964.41 1229.30 5391 43271 -0.19% 57 25 2.0 66.98 4410.68 0.64 66.85 29755.54 1009.43 5661 46058 -0.19%												
54 25 2.0 69.71 1144.27 0.87 69.55 31051.68 1020.54 5611 44571 -0.23% 55 25 2.0 69.93 1098.47 1.92 69.75 29812.06 1037.16 5560 42428 -0.25% 56 25 2.0 74.97 1100.14 1.49 74.83 28964.41 1229.30 5391 43271 -0.19% 57 25 2.0 66.98 4410.68 0.64 66.85 29755.54 1009.43 5661 46058 -0.19%												
55 25 2.0 69.93 1098.47 1.92 69.75 29812.06 1037.16 5560 42428 -0.25% 56 25 2.0 74.97 1100.14 1.49 74.83 28964.41 1229.30 5391 43271 -0.19% 57 25 2.0 66.98 4410.68 0.64 66.85 29755.54 1009.43 5661 46058 -0.19%												
56 25 2.0 74.97 1100.14 1.49 74.83 28964.41 1229.30 5391 43271 -0.19% 57 25 2.0 66.98 4410.68 0.64 66.85 29755.54 1009.43 5661 46058 -0.19%												
57 25 2.0 66.98 4410.68 0.64 66.85 29755.54 1009.43 5661 46058 -0.19%												
58 25 2.0 68.58 1201.34 1.33 68.40 31026.65 1221.65 5232 48245 -0.27%												
	58	25	2.0	68.58	1201.34	1.33	68.40	31026.65	1221.65	5232	48245	-0.27%

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

No. Proceedings Process Pro												I
100	Inst	n	δ		Exact			SimSA-VaF	R _{90%}			$GAP_{h \times a}$
10				V-RPD ^a	T(s)	D-RPD	V-RPD ^b	SD	T(s)	ρ_S	ρ_L	0.11.0%
61	59	25	2.0	67.05	864.16	0.21	66.91	32602.66	1004.19	5227	45454	-0.21%
63	60	25	2.0	71.97		2.08	71.71	29218.92	1164.42	5565	43775	-0.36%
64		25	2.0	71.85	1075.27	1.22	71.64	31056.31	1227.61	5390	42614	
66	62		2.0	72.13				31167.00	1149.73	5361		
66												
66	64	25	2.0	91.59	2239.75	4.38	91.21	22464.09	2288.95	5334	43519	-0.41%
67	65	25	2.0	75.47	1245.02	3.89	75.22	27470.04	1418.60	5633	45280	-0.33%
68	66	25	2.0	81.20	1610.54	2.40	80.66	24780.49	1629.38	5734	43973	-0.67%
60	67	25	2.0	70.00	906.17	2.26	69.82	29180.67	1119.10	5282	44645	-0.27%
To	68	25	2.0	77.18	783.33			27454.55	1272.99	5755	48735	-0.20%
T1												
T2	70	25	2.0	67.11	1123.46	0.16	66.80	32109.49	709.38	5561	47906	-0.47%
73 25 2.0 68.28 1167.98 1.03 68.13 2770.91 1162.36 5726 47825 -0.22% 74 25 2.0 70.93 897.52 1.34 70.74 30208.18 1145.96 5323 44098 -0.25% 76* 50 0.1 19.87 3630.31 2.45 18.14 6275.27 16.35 369 3396 -8.72% 77* 50 0.1 18.77 3629.56 2.00 16.72 110.63 312.47 329 3698 -8.07% 78* 50 0.1 16.73 3630.11 3.03 18.96 6554.73 19.64 318 3730 -8.77% 80* 50 0.1 15.96 3631.33 0.74 14.72 14900.07 144.94 401 3300 -8.77% 82* 50 0.1 16.71 3631.29 0.76 15.97 7967.31 154.93 39.9 35.9 19.25%	71	25	2.0	69.42	4106.05	0.91	69.25	31790.40	1023.10	5538	48478	-0.24%
Temporal Process	72	25	2.0	90.60	2096.17	4.52	90.20	21357.40	2524.59	5238	45361	-0.44%
75	73	25	2.0	68.28	1167.98	1.03	68.13	27706.91	1162.36	5726	47825	-0.22%
To To To To To To To To	74	25		70.93	897.52	1.34	70.74	30208.18	1145.96	5323	44098	-0.26%
T7* 50		25	2.0	68.25		0.59	67.89	31296.56	1186.72	5758	44737	-0.53%
78* 50		50	0.1	19.87	3630.31	2.45	18.14	6275.27	16.35	369	3396	-8.72%
79* 50	77*	50	0.1	18.77	3629.56	2.00	17.27	14001.63	112.47	329	3698	-8.01%
80° 50	78*	50	0.1	16.51	3630.50	0.63	15.07	26926.17	1138.93	379	3320	-8.69%
81* 50 0.1 17.34 3629.64 0.88 15.76 29267.73 1554.93 398 3463 -9.12% 82* 50 0.1 16.71 3631.00 1.49 15.07 7634.81 18.13 366 3565 9.79% 84* 50 0.1 16.23 3631.29 0.76 15.02 17137.78 124.05 346 3737 -8.55% 86* 50 0.1 21.73 3630.03 1.64 16.80 32507.89 1131.71 346 3741 -8.60% 86* 50 0.1 16.85 3628.29 1.44 15.61 13219.03 115.06 400 3593 -7.34% 88* 50 0.1 16.24 3630.65 1.29 1.79 15.34 16205.61 288.19 364 3687 7.702% 88* 50 0.1 18.33 3631.02 1.91 16.80 31251.37 2757.84 303 3535 3602 <td>79*</td> <td>50</td> <td>0.1</td> <td>20.78</td> <td>3630.11</td> <td>3.03</td> <td>18.96</td> <td>6554.73</td> <td>19.64</td> <td>318</td> <td>3730</td> <td>-8.77%</td>	79*	50	0.1	20.78	3630.11	3.03	18.96	6554.73	19.64	318	3730	-8.77%
82* 50 0.1 16.71 3631.00 1.49 15.07 7634.81 18.13 366 3565 -9.79% 83* 50 0.1 16.42 3631.29 0.76 15.02 17137.78 124.05 346 3737 -8.55% 84* 50 0.1 18.27 3630.00 1.64 16.80 32507.89 1131.71 346 3741 -8.06% 86* 50 0.1 16.85 3628.29 1.44 15.61 13219.03 115.06 400 3593 -7.34% 87* 50 0.1 19.24 3630.65 1.29 17.95 25969.59 1920.60 325 3512 -6.68% 88* 50 0.1 16.72 3631.50 1.70 15.34 16205.61 288.19 355 3602 -8.24% 99* 50 0.1 18.33 3631.02 1.91 16.80 31251.37 2757.84 303 3358 -8.33% <t< td=""><td></td><td>50</td><td>0.1</td><td>15.96</td><td>3631.53</td><td>0.74</td><td>14.72</td><td>14900.07</td><td>144.94</td><td>401</td><td>3305</td><td>-7.80%</td></t<>		50	0.1	15.96	3631.53	0.74	14.72	14900.07	144.94	401	3305	-7.80%
83* 50 0.1 16.42 3631.29 0.76 15.02 17137.78 124.05 346 3737 -8.55% 84* 50 0.1 18.27 3630.00 1.64 16.80 32507.89 1131.71 346 3741 -8.06% 85* 50 0.1 16.85 3630.23 2.51 20.02 5668.13 15.86 375 3620 -7.83% 86* 50 0.1 19.24 3630.65 1.29 17.95 25969.59 1920.60 325 3512 -6.68% 88* 50 0.1 20.03 3629.23 1.70 15.34 16205.61 288.19 355 3602 -8.24% 89* 50 0.1 18.33 3631.02 1.91 16.80 31251.37 2757.84 303 3358 -8.33% 91* 50 0.1 18.57 3630.68 1.61 18.06 7034.37 16.95 321 3378 -7.27%	81*	50	0.1	17.34	3629.64	0.88	15.76	29267.73	1554.93	398	3463	-9.12%
84* 50 0.1 18.27 3630.00 1.64 16.80 32507.89 1131.71 346 3741 -8.06% 86* 50 0.1 21.73 3630.23 2.51 20.02 5668.13 15.86 375 3620 -7.83% 86* 50 0.1 19.24 3630.65 1.29 17.95 25969.59 1920.60 3253 3512 -6.68% 88* 50 0.1 19.24 3630.65 1.29 17.95 25969.59 1920.60 3253 3512 -6.68% 88* 50 0.1 16.72 3631.00 1.70 15.34 16205.61 288.19 355 3602 -8.24% 90* 50 0.1 19.48 3630.58 1.61 18.00 7034.71 16.95 321 3378 -8.33% 91** 50 0.1 18.50 3631.44 1.97 16.82 6434.06 17.32 333 3597 -9.06% <tr< td=""><td></td><td>50</td><td>0.1</td><td>16.71</td><td>3631.00</td><td>1.49</td><td>15.07</td><td>7634.81</td><td>18.13</td><td>366</td><td>3565</td><td>-9.79%</td></tr<>		50	0.1	16.71	3631.00	1.49	15.07	7634.81	18.13	366	3565	-9.79%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	83*	50	0.1	16.42	3631.29	0.76	15.02	17137.78	124.05	346	3737	-8.55%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	18.27	3630.00	1.64	16.80	32507.89	1131.71	346	3741	-8.06%
87* 50 0.1 19.24 3630.65 1.29 17.95 25969.59 1920.60 325 3512 -6.68% 88* 50 0.1 20.03 3629.23 1.96 18.62 7323.97 43.45 304 3687 -7.02% 88* 50 0.1 16.72 3631.50 1.70 15.34 16205.61 288.19 355 3602 -8.24% 90* 50 0.1 19.48 3630.58 1.61 18.06 7034.37 16.95 321 3378 -7.27% 92* 50 0.1 18.57 3630.68 1.34 17.20 15422.63 104.41 314 3583 -7.38% 93* 50 0.1 18.50 3631.44 1.97 16.82 6434.06 17.32 333 3597 -9.06% 95* 50 0.1 16.21 3632.06 1.38 14.88 14778.13 116.49 312 3566 8.20%	85*	50	0.1	21.73	3630.23	2.51	20.02	5668.13	15.86	375	3620	-7.83%
88* 50 0.1 20.03 3629.23 1.96 18.62 7323.97 43.45 304 3687 -7.02% 89* 50 0.1 16.72 3631.50 1.70 15.34 16205.61 288.19 355 3602 -8.24% 99* 50 0.1 18.33 3631.02 1.91 16.80 31251.37 2757.84 303 3358 -8.33% 91* 50 0.1 19.48 3630.58 1.61 18.06 7034.37 16.95 321 3378 -7.27% 92* 50 0.1 18.57 3630.68 1.34 17.20 15422.63 104.41 314 3583 -7.28% 93* 50 0.1 18.50 3631.44 1.97 16.82 6434.06 17.32 323 3597 -9.06% 95* 50 0.1 16.21 3632.77 2.44 17.43 28716.88 1348.18 385 3661 -8.20%	86*	50	0.1	16.85	3628.29	1.44	15.61	13219.03	115.06	400	3593	-7.34%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	19.24	3630.65	1.29	17.95	25969.59	1920.60	325	3512	-6.68%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	20.03	3629.23	1.96	18.62	7323.97	43.45	304	3687	-7.02%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	16.72	3631.50	1.70	15.34	16205.61	288.19	355	3602	-8.24%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	18.33	3631.02	1.91	16.80	31251.37	2757.84	303	3358	-8.33%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	19.48	3630.58	1.61	18.06	7034.37	16.95	321	3378	-7.27%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	92*	50	0.1	18.57	3630.68	1.34	17.20	15422.63	104.41	314		-7.38%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	18.50		1.97		6434.06	17.32	323	3597	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	16.21	3632.06		14.88	14778.13	116.49	312	3566	-8.20%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	96*	50	0.1	19.11	3632.77	2.44	17.43	28716.88	1348.18	385	3681	-8.81%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		50	0.1	17.59		1.55		6721.20	18.44	309		-8.88%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
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114* 50 0.5 37.77 3701.87 1.40 36.91 29784.18 1473.84 1556 14465 -2.28% 115* 50 0.5 38.66 3698.00 1.88 37.72 7258.04 15.93 1693 15248 -2.43% 116* 50 0.5 40.38 3693.92 1.62 39.51 16624.10 103.21 1547 17618 -2.16%												
115* 50 0.5 38.66 3698.00 1.88 37.72 7258.04 15.93 1693 15248 -2.43% 116* 50 0.5 40.38 3693.92 1.62 39.51 16624.10 103.21 1547 17618 -2.16%												
116* 50 0.5 40.38 3693.92 1.62 39.51 16624.10 103.21 1547 17618 -2.16%												
Continued on the next page	116*	50	0.5	40.38	3693.92	1.62	39.51	16624.10	103.21			

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

Inst	n	δ	SimI	Exact			SimSA-VaF	$R_{90\%}$			$GAP_{b \times a}$
11150	,,,	L .	V -RPD a	T(s)	D-RPD	V -RPD b	SD	T(s)	ρ_S	ρ_L	G111 0 X a
117*	50	0.5	39.28	3691.77	1.66	38.47	31773.75	1216.19	1438	16822	-2.07%
118*	50	0.5	37.82	3695.75	1.54	37.01	6464.55	17.12	1435	15280	-2.14%
119*	50	0.5	39.75	3702.59	2.35	38.75	14536.64	124.26	1646	14840	-2.51%
120*	50	0.5	35.57	3690.70	1.32	34.85	28261.87	1308.72	1570	15675	-2.03%
121*	50	0.5	39.47	3705.25	2.02	38.58	7191.84	17.45	1550	17643	-2.27%
122*	50	0.5	37.74	3696.22	2.17	36.91	16638.15	115.91	1684	14380	-2.22%
123*	50	0.5	39.32	3691.08	1.28	38.43	32042.85	1164.14	1407	16176	-2.28%
124*	50	0.5	37.07	3646.83	1.78	36.15	7102.08	16.07	1402	14810	-2.47%
125*	50	0.5	37.15	3641.99	0.88	36.33	16025.21	117.84	1432	17363	-2.21%
126*	50	2.0	71.57	4494.43	2.29	71.36	31380.17	1430.33	5201	43337	-0.30%
127*	50	2.0	71.94	4617.19	1.74	71.69	6836.67	17.13	5382	47783	-0.36%
128*	50	2.0	68.49	4487.87	0.62	68.33	16478.31	112.02	5453	45995	-0.23%
129*	50	2.0	73.04	4554.07	2.76	72.67	31517.47	1202.27	5277	46178	-0.51%
130*	50	2.0	65.61	4478.45	0.63	65.43	6071.15	15.81	5246	46339	-0.27%
131*	50	2.0	67.29	4476.31	0.94	66.98	14496.26	109.13	5445	46950	-0.47%
132*	50	2.0	69.02	4599.14	1.78	68.66	28569.36	1256.29	5582	44375	-0.51%
133*	50	2.0	69.50	4642.70	0.79	69.36	7656.87	16.26	5633	46031	-0.20%
134*	50	2.0	67.68	4505.26	1.78	67.41	17148.72	101.69	5777	42535	-0.40%
135*	50	2.0	74.16	4628.07	2.51	73.94	33076.55	1089.22	5691	44270	-0.29%
136*	50	2.0	67.84	4458.52	1.46	67.63	6678.15	17.81	5712	46271	-0.31%
137*	50	2.0	67.36	4457.67	1.24	67.02	14803.69	129.82	5400	42392	-0.50%
138*	50	2.0	72.04	4554.44	1.90	71.81	28535.79	1517.75	5239	43667	-0.31%
139*	50	2.0	68.00	4557.57	1.37	67.72	6567.71	17.13	5624	46025	-0.42%
140*	50	2.0	72.51	4655.48	1.87	72.20	15368.05	116.84	5663	45999	-0.42%
141*	50	2.0	70.56	4480.91	1.68	70.22	29953.82	1335.72	5588	47309	-0.49%
142*	50	2.0	71.94	4575.03	1.44	71.57	6277.86	16.46	5510	44072	-0.52%
143*	50	2.0	70.03	4549.38	1.36	69.79	14692.39	125.85	5749	44645	-0.35%
144*	50	2.0	72.13	4702.10	2.32	71.80	28184.17	1368.07	5749	45539	-0.45%
145*	50	2.0	64.60	4379.22	0.94	64.25	6967.30	22.05	5578	44167	-0.54%
146*	50	2.0	73.56	4656.51	2.11	73.28	15975.02	129.48	5233	42881	-0.37%
147*	50	2.0	69.63	4542.94	2.87	69.48	30347.83	1417.13	5412	45814	-0.21%
148*	50	2.0	70.11	4011.50	1.54	69.72	7073.23	18.99	5415	45721	-0.56%
149*	50	2.0	68.43	3882.66	1.78	68.16	15857.48	122.36	5659	42492	-0.39%
150*	50	2.0	67.19	3840.16	1.02	66.87	29903.66	791.15	5287	44710	-0.47%
151*	75	0.1	18.71	3627.29	1.86	17.37	6863.53	25.29	317	3728	-7.13%
152*	75	0.1	17.73	3623.12	1.98	16.26	16025.19	128.62	332	3484	-8.32%
153*	75	0.1	16.59	3625.34	1.26	15.15	30306.25	1181.98	308	3394	-8.69%
154*	75	0.1	16.24	3624.57	0.18	14.68	6017.27	24.91	316	3557	-9.62%
155*	75	0.1	16.63	3625.54	1.91	15.22	14812.55	133.53	325	3411	-8.48%
156*	75	0.1	16.05	3625.07	0.93	14.64	28659.40	1468.91	320	3332	-8.78%
157*	75	0.1	19.63	3624.51	1.86	18.13	6635.63	30.96	362	3285	-7.63%
158*	75	0.1	17.04	3625.24	2.07	15.50	15221.39	147.36	336	3784	-9.01%
159*	75	0.1	17.45	3625.34	2.16	16.19	29255.77	1200.13	343	3698	-7.23%
160*	75	0.1	17.64	3625.46	2.26	15.93	6795.58	20.77	385	3631	-9.70%
161*	75	0.1	17.49	3623.68	2.09	15.87	15354.06	108.12	399	3480	-9.25%
162*	75	0.1	18.77	3625.13	1.12	17.38	29224.08	1058.35	379	3547	-7.39%
163*	75	0.1	16.56	3623.73	0.82	15.25	6433.99	24.64	328	3578	-7.90%
164*	75	0.1	18.28	3625.49	1.45	16.74	15619.14	115.90	348	3390	-8.41%
165*	75	0.1	18.39	3625.53	2.64	16.81	29748.59	1093.89	313	3307	-8.58%
166*	75	0.1	17.73	3624.68	1.86	16.34	6778.99	23.20	312	3708	-7.83%
167*	75	0.1	17.36	3625.88	2.01	15.74	15884.92	115.87	303	3659	-9.34%
168*	75	0.1	16.75	3626.39	2.32	15.32	30064.35	1124.89	352	3515	-8.53%
169*	75	0.1	20.45	3624.77	1.22	18.82	6798.68	22.02	361	3387	-7.98%
170*	75	0.1	20.24	3625.94	2.12	18.77	15436.93	149.44	379	3501	-7.25%
171*	75	0.1	16.35	3626.12	2.59	14.82	29627.30	2953.09	328	3790	-9.39%
172*	75	0.1	17.19	3623.52	1.63	15.90	6168.01	22.25	360	3659	-7.49%
173*	75	0.1	17.61	3626.27	2.20	15.94	14102.91	105.61	401	3289	-9.45%
174*	75	0.1	17.80	3625.35	1.26	16.48	27065.44	1142.64	339	3363	-7.39%
									Continu	and on the	e next page

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

		Ι		SimI	Exact			SimSA-VaF	Room			
175	Inst	n	δ			D-RPD	V -RPD b			ρs	ρι.	$GAP_{b \times a}$
175	175*	75	0.1									-10.40%
1775 6.5 0.88 985.862 1.86 3.78 314860 1.504 1.584 1.282 2.537 178** 75 0.5 3.83 3650.63 1.34 3.504 1257.33 110.33 110.13 110.13 110.13 110.13 10.14 1.204 2.207 180** 75 0.5 3.53 3605.23 1.04 3.54 2789.14 110.32 140 127 2.47% 182*** 75 0.5 3.53 3605.63 1.87 3.887 1418.06 12.40 148 1331 2.216*** 184*** 75 0.5 3.53 365.63 1.22 3.67 669.39 12.33 161 1070 2.24**** 185*** 75 0.5 3.83 365.63 1.22 3.67 3601.29 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 </td <td></td>												
175° 75 0.5 0.82 3850.83 3655.58 0.41 37.34 6320.11 21.43 1255 15142 2-2.40% 180° 75 0.5 36.85 3660.32 0.14 35.04 24759.32 113.52 120 1875 2-2.40% 181° 75 0.5 36.83 3650.24 1.66 36.34 0872.01 118.06 112.07 24.07 48.83 1.63 2-2.40% 183° 75 0.0 37.33 3650.83 1.67 38.03 2143.03 18.58 150 30.14 36.75 2.07 185° 75 0.5 38.48 365.83 1.67 36.33 224.33 18.58 150 30.17 30.17 30.17 30.17 30.17 30.17 30.17 30.17 30.17 30.17 30.17 30.17 30.17 30.12 30.17 30.12 30.17 30.12 30.12 30.12 30.12 30.12 30.12 30.12 <td></td>												
179												
180								14579.36				-2.60%
1812												
1829						1.06						
184° 75		75										
185* 75	183*	75	0.5	37.53	3658.78	1.67	36.53	27423.35	1185.80	1519	15361	-2.67%
186* 75												
187* 75	185*	75	0.5	38.08	3658.31	2.30	37.09	16016.40	117.65	1410	17028	-2.61%
188* 75	186*	75	0.5	39.48	3662.65	2.15	38.57	30401.29	1077.05	1442	17601	-2.29%
189* 75	187*	75	0.5	39.17	3661.38	1.23	38.34	6809.45	18.51	1450	15471	-2.12%
191° 75	188*	75	0.5	35.84	3655.08	1.10	34.97	16072.97	99.05	1485	16222	-2.42%
191* 75	189*	75	0.5	39.05	3658.92	1.20	38.17	30613.87	1033.43	1546	16156	-2.25%
192* 75												
192* 75							37.13	15490.71				
193* 75												
194* 75												
195* 75												
196* 75												
197* 75		75			3662.00							
198* 75		75						15857.24				-2.17%
199* 75		75										
200* 75 0.5 39.50 3659.51 1.74 38.52 15521.54 124.51 1417 17209 -2.46% 201* 75 2.0 68.27 3852.70 1.58 68.04 29312.11 1150.85 5359 45633 -0.34% 202* 75 2.0 71.19 3953.76 1.33 70.86 1447.41 87.50 5561 46801 -0.30% 204* 75 2.0 66.26 3883.43 0.29 66.08 28221.08 1157.02 5691 48508 -0.28% 205* 75 2.0 66.26 388.41 0.29 66.08 28221.08 1157.02 5691 48508 -0.28% 205* 75 2.0 66.84 1.99 65.69 6773.20 25.538 47275 0.07% 207* 75 2.0 66.02 3865.74 1.75 65.87 1558.56 131.70 544 48334 -0.23% 210**		75						6810.95	23.59			-2.38%
201* 75 2.0 68.27 3852.70 1.58 68.04 29312.11 1150.85 5359 45633 -0.34% 202* 75 2.0 72.42 3896.04 1.87 72.20 6471.91 22.78 5261 44863 -0.30% 203* 75 2.0 66.26 3883.43 0.29 66.08 28221.08 1157.02 5616 48608 -0.28% 205* 75 2.0 66.26 3883.43 0.29 66.08 28221.08 1157.02 5616 48699 -0.24% 206* 75 2.0 66.41 3996.44 0.96 68.22 15445.68 117.02 5538 47596 -0.27% 207* 75 2.0 66.09 3894.08 1.69 65.69 6773.20 25.95 538 47596 -0.27% 209* 75 2.0 66.09 3894.01 1.63 68.45 29395.28 1317.0 544 48334 -0.23%												
203* 75 2.0 71.19 3953.76 1.33 70.86 14947.41 87.50 5546 46010 -0.47% 204* 75 2.0 66.26 3883.43 0.29 66.08 28221.08 1157.02 5691 48508 -0.28% 206* 75 2.0 66.41 3906.44 0.96 68.22 1545.68 117.02 5538 47596 -0.27% 207* 75 2.0 68.81 390.44 0.96 68.22 1545.68 117.02 5538 47596 -0.27% 208* 75 2.0 66.09 3894.08 1.69 65.69 6773.20 25.95 5389 42725 -0.60% 209* 75 2.0 66.02 3865.74 1.75 65.87 15585.36 131.70 544 4834 -0.23% 210* 75 2.0 70.72 3978.65 1.64 70.53 6512.38 22.53 5370 43461 -0.27% <		75			3852.70	1.58						-0.34%
204* 75 2.0 66.26 3883.43 0.29 66.08 2821.08 1157.02 5691 48508 -0.28% 205* 75 2.0 67.79 3920.68 1.81 67.62 6578.37 21.62 5406 46899 -0.24% 206* 75 2.0 68.41 3906.44 0.96 68.22 15445.68 117.02 5538 47596 -0.27% 207* 75 2.0 68.82 3880.91 1.63 68.45 29355.28 1137.36 5524 45282 -0.53% 208* 75 2.0 66.02 3894.08 1.69 65.69 6773.20 25.95 538 48079 -0.61% 209* 75 2.0 66.02 3895.05 1.64 70.53 6512.38 22.59 538 48079 -0.48% 211* 75 2.0 70.20 3915.02 2.26 69.86 29394.60 1239.36 5238 48079 -0.48%	202*	75	2.0	72.42	3896.04	1.87	72.20	6471.91	22.78	5261	44863	-0.30%
205* 75 2.0 67.79 3920.68 1.81 67.62 6578.37 21.62 5406 46899 -0.24% 206* 75 2.0 68.41 3906.44 0.96 68.22 15445.68 117.02 5538 47596 -0.27% 207* 75 2.0 68.82 3880.91 1.63 68.45 29355.28 1137.36 5524 45282 -0.53% 208* 75 2.0 66.09 3894.08 1.69 65.69 6773.20 25.95 5389 42725 -0.61% 209* 75 2.0 66.02 3895.74 1.75 65.87 15585.36 131.70 544 48334 -0.23% 210** 75 2.0 70.20 3915.02 2.26 69.86 29394.60 1239.36 528 48079 -0.48% 211** 75 2.0 70.72 3978.65 1.64 70.53 6512.38 22.53 5370 43461 -0.27%	203*	75	2.0	71.19	3953.76	1.33	70.86	14947.41	87.50	5546	46010	-0.47%
206* 75 2.0 68.41 3906.44 0.96 68.22 15445.68 117.02 5538 47596 -0.27% 207* 75 2.0 68.82 3880.91 1.63 68.45 29355.28 1137.36 5524 45282 -0.53% 208* 75 2.0 66.09 3894.08 1.69 65.69 6773.20 25.95 5389 42725 -0.61% 209* 75 2.0 66.02 3895.74 1.75 65.87 15585.36 131.70 5444 48334 -0.23% 210* 75 2.0 70.22 3915.02 2.26 69.86 29394.60 1239.36 5238 48079 -0.48% 211* 75 2.0 70.72 3978.65 1.64 70.53 6512.38 22.53 5370 43461 -0.27% 212** 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.50% </td <td>204*</td> <td>75</td> <td>2.0</td> <td>66.26</td> <td>3883.43</td> <td>0.29</td> <td>66.08</td> <td>28221.08</td> <td>1157.02</td> <td>5691</td> <td>48508</td> <td>-0.28%</td>	204*	75	2.0	66.26	3883.43	0.29	66.08	28221.08	1157.02	5691	48508	-0.28%
207* 75 2.0 68.82 3880.91 1.63 68.45 29355.28 1137.36 5524 45282 -0.53% 208* 75 2.0 66.09 3894.08 1.69 65.69 6773.20 25.95 5389 42725 -0.61% 209* 75 2.0 66.02 3865.74 1.75 65.87 15585.36 131.70 544 48334 -0.23% 210* 75 2.0 70.20 3915.02 2.26 69.86 29394.60 1239.36 5238 48079 -0.48% 211* 75 2.0 71.09 3903.56 1.28 70.88 15260.39 118.40 5209 47742 -0.29% 213* 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.59% 214* 75 2.0 67.26 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% <td>205*</td> <td>75</td> <td>2.0</td> <td>67.79</td> <td>3920.68</td> <td>1.81</td> <td>67.62</td> <td>6578.37</td> <td>21.62</td> <td>5406</td> <td>46899</td> <td>-0.24%</td>	205*	75	2.0	67.79	3920.68	1.81	67.62	6578.37	21.62	5406	46899	-0.24%
208* 75 2.0 66.09 3894.08 1.69 65.69 6773.20 25.95 5389 42725 -0.61% 209* 75 2.0 66.02 3865.74 1.75 65.87 15585.36 131.70 5444 48334 -0.23% 210* 75 2.0 70.20 3915.02 2.26 69.86 29394.60 1239.36 5238 48079 -0.48% 211* 75 2.0 70.72 3978.65 1.64 70.53 6512.38 22.53 5370 43461 -0.27% 212* 75 2.0 71.09 3993.56 1.28 70.88 15260.39 118.40 5209 47742 -0.29% 213* 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.50% 214* 75 2.0 66.12 3897.91 1.32 65.79 29274.00 1079.25 5569 46722 -0.49% <td>206*</td> <td>75</td> <td>2.0</td> <td>68.41</td> <td>3906.44</td> <td>0.96</td> <td>68.22</td> <td>15445.68</td> <td>117.02</td> <td>5538</td> <td>47596</td> <td>-0.27%</td>	206*	75	2.0	68.41	3906.44	0.96	68.22	15445.68	117.02	5538	47596	-0.27%
209* 75 2.0 66.02 3865.74 1.75 65.87 15585.36 131.70 5444 48334 -0.23% 210* 75 2.0 70.20 3915.02 2.26 69.86 29394.60 1239.36 5238 48079 -0.48% 211* 75 2.0 70.72 3978.65 1.64 70.53 6512.38 22.53 5370 43461 -0.27% 212* 75 2.0 71.09 3903.56 1.28 70.88 15260.39 118.40 5209 47742 -0.29% 213* 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.50% 214* 75 2.0 66.23 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% 216* 75 2.0 66.63 3884.92 1.56 67.23 31701.78 1106.82 569 46739 -0.58% <td>207*</td> <td>75</td> <td>2.0</td> <td>68.82</td> <td>3880.91</td> <td>1.63</td> <td>68.45</td> <td>29355.28</td> <td>1137.36</td> <td>5524</td> <td>45282</td> <td>-0.53%</td>	207*	75	2.0	68.82	3880.91	1.63	68.45	29355.28	1137.36	5524	45282	-0.53%
210* 75 2.0 70.20 3915.02 2.26 69.86 29394.60 1239.36 5238 48079 -0.48% 211* 75 2.0 70.72 3978.65 1.64 70.53 6512.38 22.53 5370 43461 -0.27% 212* 75 2.0 71.09 3903.56 1.28 70.88 15260.39 118.40 5209 47742 -0.29% 213* 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.50% 214* 75 2.0 67.26 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% 215* 75 2.0 70.63 3925.52 2.79 70.30 16635.79 107.19 5553 48095 -0.47% 216* 75 2.0 67.63 3884.92 1.56 67.23 31701.78 1106.82 5698 46739 -0.58% <td>208*</td> <td>75</td> <td>2.0</td> <td>66.09</td> <td>3894.08</td> <td>1.69</td> <td>65.69</td> <td>6773.20</td> <td>25.95</td> <td>5389</td> <td>42725</td> <td>-0.61%</td>	208*	75	2.0	66.09	3894.08	1.69	65.69	6773.20	25.95	5389	42725	-0.61%
211* 75 2.0 70.72 3978.65 1.64 70.53 6512.38 22.53 5370 43461 -0.27% 212* 75 2.0 71.09 3903.56 1.28 70.88 15260.39 118.40 5209 47742 -0.29% 213* 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.50% 214* 75 2.0 67.26 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% 215* 75 2.0 67.63 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% 216* 75 2.0 67.63 3884.92 1.56 67.23 31701.78 1106.82 5698 46739 -0.58% 217* 75 2.0 70.83 3916.87 1.98 70.59 6318.75 21.05 5569 45483 -0.37%	209*	75	2.0	66.02	3865.74	1.75	65.87	15585.36	131.70	5444	48334	-0.23%
212* 75 2.0 71.09 3903.56 1.28 70.88 15260.39 118.40 5209 47742 -0.29% 213* 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.50% 214* 75 2.0 67.26 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% 215* 75 2.0 70.63 3925.52 2.79 70.30 16635.79 107.19 5553 48095 -0.47% 216* 75 2.0 67.63 3884.92 1.56 67.23 31701.78 1106.82 5698 46739 -0.58% 217* 75 2.0 70.83 3916.87 1.98 70.59 6318.75 21.05 5569 45483 -0.35% 218* 75 2.0 68.16 3897.91 2.28 67.95 15304.93 118.41 5299 44394 -0.31% <td>210*</td> <td>75</td> <td>2.0</td> <td>70.20</td> <td>3915.02</td> <td>2.26</td> <td>69.86</td> <td>29394.60</td> <td>1239.36</td> <td>5238</td> <td>48079</td> <td>-0.48%</td>	210*	75	2.0	70.20	3915.02	2.26	69.86	29394.60	1239.36	5238	48079	-0.48%
213* 75 2.0 66.12 3897.10 1.32 65.79 29274.00 1079.25 5575 42561 -0.50% 214* 75 2.0 67.26 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% 215* 75 2.0 70.63 3925.52 2.79 70.30 16635.79 107.19 5553 48095 -0.47% 216* 75 2.0 67.63 3884.92 1.56 67.23 31701.78 1106.82 5698 46739 -0.58% 217* 75 2.0 70.83 3916.87 1.98 70.59 6318.75 21.05 5569 45483 -0.35% 218* 75 2.0 68.16 3897.91 2.28 67.95 15304.93 118.41 5299 44394 -0.31% 219* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51%	211*	75	2.0	70.72	3978.65	1.64	70.53	6512.38	22.53	5370	43461	-0.27%
214* 75 2.0 67.26 3892.84 1.18 66.93 7216.75 19.78 5209 46722 -0.49% 215* 75 2.0 70.63 3925.52 2.79 70.30 16635.79 107.19 5553 48095 -0.47% 216* 75 2.0 67.63 3884.92 1.56 67.23 31701.78 1106.82 5698 46739 -0.58% 217* 75 2.0 70.83 3916.87 1.98 70.59 6318.75 21.05 5569 45483 -0.35% 218* 75 2.0 68.16 3897.91 2.28 67.95 15304.93 118.41 5299 44394 -0.31% 219* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51% 221* 75 2.0 68.61 3914.69 2.52 68.42 16555.90 104.09 5616 42714 -0.28%	212*	75	2.0	71.09	3903.56	1.28	70.88	15260.39	118.40	5209	47742	-0.29%
215* 75 2.0 70.63 3925.52 2.79 70.30 16635.79 107.19 5553 48095 -0.47% 216* 75 2.0 67.63 3884.92 1.56 67.23 31701.78 1106.82 5698 46739 -0.58% 217* 75 2.0 70.83 3916.87 1.98 70.59 6318.75 21.05 5569 45483 -0.35% 218* 75 2.0 68.16 3897.91 2.28 67.95 15304.93 118.41 5299 44394 -0.31% 219* 75 2.0 70.99 3899.50 1.43 70.70 29492.33 1277.25 5539 48073 -0.41% 220* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51% 221* 75 2.0 66.61 3914.69 2.52 68.42 16555.90 104.09 5616 42714 -0.28% <td>213*</td> <td>75</td> <td>2.0</td> <td>66.12</td> <td>3897.10</td> <td>1.32</td> <td>65.79</td> <td>29274.00</td> <td>1079.25</td> <td>5575</td> <td>42561</td> <td>-0.50%</td>	213*	75	2.0	66.12	3897.10	1.32	65.79	29274.00	1079.25	5575	42561	-0.50%
216* 75 2.0 67.63 3884.92 1.56 67.23 31701.78 1106.82 5698 46739 -0.58% 217* 75 2.0 70.83 3916.87 1.98 70.59 6318.75 21.05 5569 45483 -0.35% 218* 75 2.0 68.16 3897.91 2.28 67.95 15304.93 118.41 5299 44394 -0.31% 219* 75 2.0 70.99 3899.50 1.43 70.70 29492.33 1277.25 5539 48073 -0.41% 220* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51% 221* 75 2.0 68.61 3914.69 2.52 68.42 16555.90 104.09 5616 42714 -0.28% 222* 75 2.0 67.71 3901.81 2.02 67.46 31464.74 1069.10 5669 44077 -0.37% <td>214*</td> <td>75</td> <td>2.0</td> <td>67.26</td> <td>3892.84</td> <td>1.18</td> <td>66.93</td> <td>7216.75</td> <td>19.78</td> <td>5209</td> <td>46722</td> <td>-0.49%</td>	214*	75	2.0	67.26	3892.84	1.18	66.93	7216.75	19.78	5209	46722	-0.49%
217* 75 2.0 70.83 3916.87 1.98 70.59 6318.75 21.05 5569 45483 -0.35% 218* 75 2.0 68.16 3897.91 2.28 67.95 15304.93 118.41 5299 44394 -0.31% 219* 75 2.0 70.99 3899.50 1.43 70.70 29492.33 1277.25 5539 48073 -0.41% 220* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51% 221* 75 2.0 68.61 3914.69 2.52 68.42 16555.90 104.09 5616 42714 -0.28% 222* 75 2.0 67.71 3901.81 2.02 67.46 31464.74 1069.10 5669 44077 -0.37% 223* 75 2.0 71.11 3955.01 2.13 70.82 6148.71 21.97 5315 46127 -0.41%	215*	75	2.0	70.63	3925.52	2.79	70.30	16635.79	107.19	5553	48095	-0.47%
218* 75 2.0 68.16 3897.91 2.28 67.95 15304.93 118.41 5299 44394 -0.31% 219* 75 2.0 70.99 3899.50 1.43 70.70 29492.33 1277.25 5539 48073 -0.41% 220* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51% 221* 75 2.0 68.61 3914.69 2.52 68.42 16555.90 104.09 5616 42714 -0.28% 222* 75 2.0 67.71 3901.81 2.02 67.46 31464.74 1069.10 5669 44077 -0.37% 223* 75 2.0 71.11 3955.01 2.13 70.82 6148.71 21.97 5315 46127 -0.41% 224* 75 2.0 66.64 3903.67 1.57 66.36 14221.95 127.29 5662 45660 -0.42% <td>216*</td> <td>75</td> <td>2.0</td> <td>67.63</td> <td>3884.92</td> <td>1.56</td> <td>67.23</td> <td>31701.78</td> <td>1106.82</td> <td>5698</td> <td>46739</td> <td>-0.58%</td>	216*	75	2.0	67.63	3884.92	1.56	67.23	31701.78	1106.82	5698	46739	-0.58%
219* 75 2.0 70.99 3899.50 1.43 70.70 29492.33 1277.25 5539 48073 -0.41% 220* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51% 221* 75 2.0 68.61 3914.69 2.52 68.42 16555.90 104.09 5616 42714 -0.28% 222* 75 2.0 67.71 3901.81 2.02 67.46 31464.74 1069.10 5669 44077 -0.37% 223* 75 2.0 67.11 3955.01 2.13 70.82 6148.71 21.97 5315 46127 -0.41% 224* 75 2.0 66.64 3903.67 1.57 66.36 14221.95 127.29 5662 45660 -0.42% 225* 75 2.0 71.95 3940.44 1.51 71.55 27742.54 1501.03 5698 45765 -0.56% <td>217*</td> <td>75</td> <td>2.0</td> <td>70.83</td> <td>3916.87</td> <td>1.98</td> <td>70.59</td> <td>6318.75</td> <td>21.05</td> <td>5569</td> <td>45483</td> <td>-0.35%</td>	217*	75	2.0	70.83	3916.87	1.98	70.59	6318.75	21.05	5569	45483	-0.35%
220* 75 2.0 70.69 3914.66 2.18 70.33 7237.22 22.37 5390 42635 -0.51% 221* 75 2.0 68.61 3914.69 2.52 68.42 16555.90 104.09 5616 42714 -0.28% 222* 75 2.0 67.71 3901.81 2.02 67.46 31464.74 1069.10 5669 44077 -0.37% 223* 75 2.0 67.11 3955.01 2.13 70.82 6148.71 21.97 5315 46127 -0.41% 224* 75 2.0 66.64 3903.67 1.57 66.36 14221.95 127.29 5662 45660 -0.42% 225* 75 2.0 71.95 3940.44 1.51 71.55 27742.54 1501.03 5698 45765 -0.56% 226* 100 0.1 18.30 3628.33 2.61 16.62 6278.42 30.88 373 3797 -9.17%	218*	75	2.0	68.16	3897.91	2.28	67.95	15304.93	118.41	5299	44394	-0.31%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	219*	75	2.0	70.99	3899.50	1.43	70.70	29492.33	1277.25	5539	48073	-0.41%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	220*	75	2.0	70.69	3914.66	2.18	70.33	7237.22	22.37	5390	42635	-0.51%
223* 75 2.0 71.11 3955.01 2.13 70.82 6148.71 21.97 5315 46127 -0.41% 224* 75 2.0 66.64 3903.67 1.57 66.36 14221.95 127.29 5662 45660 -0.42% 225* 75 2.0 71.95 3940.44 1.51 71.55 27742.54 1501.03 5698 45765 -0.56% 226* 100 0.1 18.30 3628.33 2.61 16.62 6278.42 30.88 373 3797 -9.17% 227* 100 0.1 18.27 3628.47 2.06 16.80 14977.83 158.28 370 3570 -8.02% 228* 100 0.1 18.29 3629.94 1.40 16.75 28505.15 1394.45 312 3479 -8.42% 229* 100 0.1 16.98 3630.06 2.55 15.50 6483.80 30.45 337 3608 -8.75%	221*	75	2.0	68.61	3914.69	2.52	68.42	16555.90	104.09	5616	42714	-0.28%
224* 75 2.0 66.64 3903.67 1.57 66.36 14221.95 127.29 5662 45660 -0.42% 225* 75 2.0 71.95 3940.44 1.51 71.55 27742.54 1501.03 5698 45765 -0.56% 226* 100 0.1 18.30 3628.33 2.61 16.62 6278.42 30.88 373 3797 -9.17% 227* 100 0.1 18.27 3628.47 2.06 16.80 14977.83 158.28 370 3570 -8.02% 228* 100 0.1 18.29 3629.94 1.40 16.75 28505.15 1394.45 312 3479 -8.42% 229* 100 0.1 16.98 3630.06 2.55 15.50 6483.80 30.45 337 3608 -8.75% 230* 100 0.1 17.19 3630.66 1.99 15.78 14838.44 126.90 399 3373 -8.21%	222*	75	2.0	67.71	3901.81	2.02	67.46	31464.74	1069.10	5669	44077	-0.37%
225* 75 2.0 71.95 3940.44 1.51 71.55 27742.54 1501.03 5698 45765 -0.56% 226* 100 0.1 18.30 3628.33 2.61 16.62 6278.42 30.88 373 3797 -9.17% 227* 100 0.1 18.27 3628.47 2.06 16.80 14977.83 158.28 370 3570 -8.02% 228* 100 0.1 18.29 3629.94 1.40 16.75 28505.15 1394.45 312 3479 -8.42% 229* 100 0.1 16.98 3630.06 2.55 15.50 6483.80 30.45 337 3608 -8.75% 230* 100 0.1 17.19 3630.66 1.99 15.78 14838.44 126.90 399 3373 -8.21% 231* 100 0.1 16.97 3628.87 1.22 15.41 28491.56 1146.55 399 3749 -9.20%	223*	75	2.0	71.11	3955.01	2.13	70.82	6148.71	21.97	5315	46127	-0.41%
226* 100 0.1 18.30 3628.33 2.61 16.62 6278.42 30.88 373 3797 -9.17% 227* 100 0.1 18.27 3628.47 2.06 16.80 14977.83 158.28 370 3570 -8.02% 228* 100 0.1 18.29 3629.94 1.40 16.75 28505.15 1394.45 312 3479 -8.42% 229* 100 0.1 16.98 3630.06 2.55 15.50 6483.80 30.45 337 3608 -8.75% 230* 100 0.1 17.19 3630.66 1.99 15.78 14838.44 126.90 399 3373 -8.21% 231* 100 0.1 16.97 3628.87 1.22 15.41 28491.56 1146.55 399 3749 -9.20%	224*	75	2.0	66.64	3903.67	1.57	66.36	14221.95	127.29	5662	45660	-0.42%
227* 100 0.1 18.27 3628.47 2.06 16.80 14977.83 158.28 370 3570 -8.02% 228* 100 0.1 18.29 3629.94 1.40 16.75 28505.15 1394.45 312 3479 -8.42% 229* 100 0.1 16.98 3630.06 2.55 15.50 6483.80 30.45 337 3608 -8.75% 230* 100 0.1 17.19 3630.66 1.99 15.78 14838.44 126.90 399 3373 -8.21% 231* 100 0.1 16.97 3628.87 1.22 15.41 28491.56 1146.55 399 3749 -9.20%	225*	75	2.0	71.95	3940.44	1.51	71.55	27742.54	1501.03	5698	45765	-0.56%
228* 100 0.1 18.29 3629.94 1.40 16.75 28505.15 1394.45 312 3479 -8.42% 229* 100 0.1 16.98 3630.06 2.55 15.50 6483.80 30.45 337 3608 -8.75% 230* 100 0.1 17.19 3630.66 1.99 15.78 14838.44 126.90 399 3373 -8.21% 231* 100 0.1 16.97 3628.87 1.22 15.41 28491.56 1146.55 399 3749 -9.20%	226*	100	0.1	18.30	3628.33	2.61	16.62	6278.42	30.88	373	3797	-9.17%
229* 100 0.1 16.98 3630.06 2.55 15.50 6483.80 30.45 337 3608 -8.75% 230* 100 0.1 17.19 3630.66 1.99 15.78 14838.44 126.90 399 3373 -8.21% 231* 100 0.1 16.97 3628.87 1.22 15.41 28491.56 1146.55 399 3749 -9.20%	227*	100	0.1	18.27	3628.47	2.06	16.80	14977.83	158.28	370	3570	-8.02%
230* 100 0.1 17.19 3630.66 1.99 15.78 14838.44 126.90 399 3373 -8.21% 231* 100 0.1 16.97 3628.87 1.22 15.41 28491.56 1146.55 399 3749 -9.20%	228*	100	0.1	18.29	3629.94	1.40	16.75	28505.15	1394.45	312	3479	-8.42%
231* 100 0.1 16.97 3628.87 1.22 15.41 28491.56 1146.55 399 3749 -9.20%	229*	100	0.1	16.98	3630.06	2.55	15.50	6483.80	30.45	337	3608	-8.75%
	230*	100	0.1	17.19	3630.66	1.99	15.78	14838.44	126.90	399	3373	-8.21%
232* 100 0.1 17.43 3631.19 2.06 16.00 6226.39 28.32 382 3462 -8.24%	231*	100	0.1	16.97	3628.87	1.22	15.41	28491.56	1146.55	399	3749	-9.20%
	232*	100	0.1	17.43	3631.19	2.06	16.00	6226.39	28.32	382	3462	-8.24%

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

Inst	n	δ		Exact			SimSA-VaF	R _{90%}			$GAP_{b \times a}$
	,,,	Ů	$V-RPD^a$	T(s)	D-RPD	V -RPD b	SD	T(s)	ρ_S	ρ_L	0111 0×a
233*	100	0.1	16.11	3630.93	2.11	14.63	14675.82	123.79	304	3849	-9.22%
234*	100	0.1	16.98	3631.16	2.17	15.44	28698.45	1285.67	339	3547	-9.04%
235*	100	0.1	16.52	3631.18	2.11	15.19	6907.19	30.48	313	3579	-8.01%
236*	100	0.1	17.02	3630.30	1.39	15.43	15611.01	134.84	349	3370	-9.30%
237*	100	0.1	16.98	3629.99	1.75	15.56	29559.18	1044.77	398	3549	-8.34%
238*	100	0.1	19.16	3631.77	1.93	17.65	7181.25	28.95	392	3337	-7.91%
239*	100	0.1	17.39	3629.92	2.44	16.00	16642.98	127.07	380	3564	-7.96%
240*	100	0.1	16.47	3629.86	1.82	14.95	31077.04	1037.56	322	3771	-9.25%
241*	100	0.1	17.00	3628.61	2.72	15.31	6584.87	28.72	341	3455	-9.94%
242*	100	0.1	18.31	3630.22	1.97	16.84	15055.67	120.61	311	3654	-8.05%
243*	100	0.1	18.06	3630.59	2.38	16.52	29104.20	1110.19	340	3771	-8.50%
244*	100	0.1	17.00	3630.46	2.45	15.51	6667.09	30.18	339	3331	-8.72%
245*	100	0.1	17.31	3629.88	1.78	15.87	15483.80	130.88	364	3815	-8.33%
246*	100	0.1	17.15	3630.41	2.53	15.50	28957.23	1342.10	325	3551	-9.60%
247*	100	0.1	16.46	3629.40	1.56	14.94	6720.14	29.56	323	3363	-9.22%
248*	100	0.1	17.87	3630.22	2.28	16.41	15718.53	138.05	304	3485	-8.17%
249*	100	0.1	16.26	3629.62	1.58	14.85	29901.52	1184.95	342	3709	-8.65%
250*	100	0.1	16.95	3629.04	1.97	15.45	6772.56	30.38	353	3591	-8.84%
251*	100	0.5	39.81	3670.73	2.70	38.85	15998.75	128.93	1514	15881	-2.43%
252*	100	0.5	38.94	3669.59	2.08	38.02	30218.89	1156.73	1428	14643	-2.36%
253*	100	0.5	38.05	3666.34	1.37	37.12	6865.09	27.48	1670	14201	-2.43%
254*	100	0.5	37.83	3671.62	2.39	36.94	15866.08	122.32	1671	17196	-2.35%
255*	100	0.5	37.59	3671.32	2.00	36.77	29578.29	1153.16	1603	15048	-2.17%
256*	100	0.5	37.28	3669.33	1.19	36.39	6277.68	30.82	1614	14684	-2.39%
257*	100	0.5	38.76	3676.05	2.13	37.84	14986.51	153.08	1414	14652	-2.37%
258*	100	0.5	36.59	3673.19	2.18	35.65	28975.78	1514.46	1459	16269	-2.55%
259*	100	0.5	38.32	3675.25	2.33	37.41	6968.50	30.06	1583	14991	-2.37%
260*	100	0.5	37.15	3675.47	2.20	36.30	16410.31	151.15	1512	15039	-2.29%
261*	100	0.5	38.74	3671.44	1.24	37.77	30862.15	1350.23	1623	16790	-2.51%
262*	100	0.5	37.38	3671.76	1.67	36.57	6837.50	32.48	1509	16410	-2.17%
263*	100	0.5	39.54	3673.91	1.83	38.64	16108.96	137.13	1509	14225	-2.28%
264*	100	0.5	38.28	3670.28	2.18	37.47	30382.77	1362.09	1577	16696	-2.13%
265*	100	0.5	38.65	3672.20	1.87	37.79	7178.14	32.10	1693	14512	-2.23%
266*	100	0.5	38.78	3668.73	2.58	37.89	16166.55	121.36	1678	15470	-2.29%
267*	100	0.5	37.68	3680.27	1.72	36.71	30442.93	1051.87	1638	16361	-2.56%
268*	100	0.5	38.89	3672.65	2.23	38.00	6536.64	29.49	1567	17224	-2.28%
269*	100	0.5	37.55	3670.80	2.38	36.69	15417.69	130.61	1506	15820	-2.27%
270*	100	0.5	37.43	3670.96	1.71	36.55	29362.77	1174.82	1630	15659	-2.36%
271*	100	0.5	38.92	3671.13	2.51	38.05	6021.10	28.76	1488	16541	-2.24%
272*	100	0.5	37.25	3670.81	1.88	36.41	14655.40	126.39 2441.53	1432	15244	-2.27% -2.30%
273*	100	0.5	39.61	3671.96 3667.29	2.07	38.70	28304.27 6547.44		1634	14269	
274*	100	0.5	36.20	3668.29	1.44	36.16	15234.77	65.12 299.75	1634	14916	-2.12% -2.41%
275*		0.5	37.05 70.57			70.20	15234.77		1657	14513	-0.53%
276*	100	2.0	67.91	3949.97 3926.60	2.58 2.76	67.56	28939.23 6775.70	2618.97 62.04	5381 5239	43661 44356	-0.53%
278*	100	2.0	66.84	3926.60	1.46	66.52	15647.60	266.87	5519	47215	-0.52%
279*	100	2.0	68.22	3908.45	2.36	67.85	29578.68	2565.33	5238	46470	-0.49%
280*	100	2.0	66.26	3925.18	2.04	66.09	6590.67	58.62	5204	46361	-0.34%
281*	100	2.0	67.00	3913.92	1.21	66.79	15539.96	294.08	5787	46953	-0.25%
282*	100	2.0	70.05	3991.09	2.14	69.88	29795.57	2613.40	5575	42432	-0.32%
283*	100	2.0	66.64	3951.09	2.14	66.32	6271.02	62.79	5606	42432	-0.25%
284*	100	2.0	68.67	3964.62	2.41	68.34	14772.64	273.66	5587	42331	-0.48%
285*	100	2.0	65.55	3974.14	2.41	65.41	28418.49	2933.47	5571	45278	-0.48%
286*	100	2.0	70.72	3981.04	1.20	70.52	6341.96	64.41	5672	42259	-0.21%
287*	100	2.0	66.56	3944.69	1.73	66.22	14952.17	347.31	5708	48968	-0.51%
288*	100	2.0	69.70	3953.05	1.98	69.54	28629.73	3017.56	5497	43777	-0.24%
289*	100	2.0	68.43	3920.50	2.43	68.13	6601.79	59.77	5720	46249	-0.44%
290*	100	2.0	68.10	3963.06	1.93	67.84	16156.65	302.46	5239	45187	-0.38%
	1 - 50	0	1 -51.10	2230.00	100			552.10			e next page

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

Inst		δ	SimE	xact			SimSA-VaF	R _{90%}			CAD
Inst	n	0	V -RPD a	T(s)	D-RPD	V -RPD b	SD	T(s)	ρ_S	ρ_L	$GAP_{b \times a}$
291*	100	2.0	69.26	3943.37	2.58	68.90	30202.21	4323.28	5645	44343	-0.52%
292*	100	2.0	68.12	3931.38	1.77	67.87	6367.56	126.56	5586	46549	-0.37%
293*	100	2.0	68.47	3928.42	2.18	68.27	15095.65	858.18	5380	46598	-0.29%
294*	100	2.0	68.80	3946.25	2.30	68.57	29092.11	3883.76	5791	44957	-0.33%
295*	100	2.0	68.05	3926.84	2.16	67.89	7064.94	42.93	5352	44629	-0.23%
296*	100	2.0	69.11	3945.21	2.43	68.89	16651.29	224.70	5711	43171	-0.31%
297*	100	2.0	66.22	3930.84	1.51	66.07	31525.44	2323.51	5487	44326	-0.21%
298*	100	2.0	71.04	3955.18	2.19	70.80	6949.50	62.33	5370	48729	-0.34%
299*	100	2.0	65.72	3932.68	1.48	65.59	15943.98	268.20	5583	44789	-0.20%
300*	100	2.0	67.33	3921.59	1.91	67.00	30651.67	2458.66	5355	48410	-0.49%