Table 1: Result of SimExact x SimSA-VaR $_{99\%}$ 

The color   The												I
1	Inst	n	δ		Exact			SimSA-VaF	R <sub>99%</sub>			$GAP_{h \times a}$
295   0.1   39.661   1971.02   1.95   28.25   6039.88   17.58   322   31.28   7.70%   3.06   4.22   144.43   1.52   31.91   7358.86   19.01   410   3065   6.6.76%   4.22%   4.25   0.1   30.60   381.41   0.82   30.64   7729.50   18.88   329   3065   4.22%   4.25%   5.25   0.1   30.40   3616.33   0.23   27.44   7105.90   13.28   350   3324   7.23%				V-RPD <sup>a</sup>	T(s)	D-RPD	V-RPD <sup>b</sup>	SD	T(s)	$\rho_S$	$\rho_L$	- 0/4
3	1	25	0.1	30.75	209.08	2.72	29.04	7182.73	36.01	358	3318	-5.54%
4	2	25	0.1	30.61		1.95		6039.89		322	3128	-7.70%
5												
6	4		0.1	30.60		0.82				329		
Record   R												
Section   Sect	6	25	0.1	35.46		1.07	31.20		18.12	362	3350	-12.02%
9	7	25	0.1	30.40	3616.33	0.23	27.34	7183.99	7.59	350	3184	-10.08%
10	8	25	0.1	30.00	389.70	1.68	27.13	7354.67	21.92	364	3337	-9.58%
11												
12	10	25	0.1	39.17	280.55	1.40	33.27	7168.48	25.26	182	3052	-15.08%
13												
14	12	25	0.1	34.55	182.83	0.01	26.05	7008.39	22.14	168	2748	-24.59%
15	13	25	0.1	39.08	293.77	1.44	26.31	5590.46	20.14	161	2404	-32.68%
16	14	25	0.1	40.56	355.26	4.19	33.77	4338.76	26.90	223	2950	-16.74%
17	15	25	0.1	30.54	268.58	1.91	29.86	5880.78	21.18	191	2588	
18	16	25	0.1	36.37	400.42	2.21	29.98	4998.12	21.99	194	2638	-17.58%
19												
20     25     0.1     29.23     378.27     3.01     29.05     7868.92     24.27     196     2924     -0.63%       21     25     0.1     33.49     3619.26     0.95     27.25     7503.32     22.73     198     2666     1.666%       23     25     0.1     43.24     316.73     4.16     35.72     4623.74     25.88     278     3624     -17.39%       24     25     0.1     32.74     205.36     1.29     26.77     6934.35     18.72     167     264     -18.23%       25     0.5     0.1     28.68     371.05     0.49     25.72     7063.15     19.57     194     2572     -10.31%       26     25     0.5     70.11     251.45     0.36     63.91     15224.67     197.80     1602     13952     -8.88%       27     25     0.5     71.30     334.87     2.08     69.05     144172.83     211.64     1660     15547     7.24%       29	18	25	0.1	42.55		1.58	31.96	6558.00	23.48	156	3142	-24.88%
21     25     0.1     33.49     3619.26     0.95     27.25     7503.32     22.73     198     2666     -18.65%       22     25     0.1     43.24     316.73     4.16     35.72     4623.74     25.88     278     3624     -17.30%       24     25     0.1     29.37     333.54     0.31     27.61     6413.99     23.02     181     2764     -6.00%       25     0.1     28.68     371.05     0.49     25.72     7663.15     19.57     194     2572     -10.31%       26     25     0.5     70.11     251.45     0.36     63.91     15224.67     197.80     1602     13952     -8.85%       27     25     0.5     774.80     252.87     2.10     69.38     14172.83     211.64     1660     15547     7.24%       28     25     0.5     71.53     178.96     1.16     70.51     15967.51     212.49     184     15964     -1.42%       29 <td< td=""><td>-</td><td></td><td>0.1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-2.45%</td></td<>	-		0.1									-2.45%
22     25     0.1     43.24     316.73     4.16     35.72     4623.74     25.88     278     3624     -17.39%       23     25     0.1     29.37     333.54     0.31     27.61     6413.99     23.02     181     2764     -6.00%       25     25     0.1     32.74     205.36     1.29     26.77     6934.35     18.72     167     2640     -18.23%       26     25     0.5     70.11     251.45     0.36     63.91     15224.67     197.80     1602     13952     -8.85%       27     25     0.5     71.53     178.96     1.16     70.51     1596.51     160     1594.4     160     1594.7     -7.24%       28     25     0.5     69.52     432.73     0.43     68.55     16846.81     204.40     1763     15303     -1.40%       29     25     0.5     71.30     334.87     2.08     69.05     15438.38     188.80     1533     14635     -3.15% <td>20</td> <td>25</td> <td>0.1</td> <td>29.23</td> <td>378.27</td> <td>3.01</td> <td>29.05</td> <td>7868.92</td> <td>24.27</td> <td>196</td> <td>2924</td> <td>-0.63%</td>	20	25	0.1	29.23	378.27	3.01	29.05	7868.92	24.27	196	2924	-0.63%
23     25     0.1     29.37     333.54     0.31     27.61     6413.99     23.02     181     2764     -6.00%       24     25     0.1     32.74     205.36     1.29     26.77     6934.35     18.72     167     2640     -18.23%       26     25     0.5     70.11     251.45     0.36     63.91     15224.67     197.80     1602     13952     -8.88%       27     25     0.5     74.80     252.87     2.10     69.38     14172.83     211.64     1660     15547     -7.24%       28     25     0.5     71.53     175.96     1.16     70.51     15967.51     212.49     1884     15964     -1.42%       29     25     0.5     70.53     173.30     34.87     2.08     69.05     15483.83     188.80     1533     14635     -3.15%       31     25     0.5     69.13     3669.71     0.45     65.43     15883.89     187.44     1604     14398     -5.35%	21	25	0.1	33.49	3619.26	0.95	27.25	7503.32	22.73	198	2666	-18.65%
24     25     0.1     32.74     205.36     1.29     26.77     6934.35     18.72     167     2640     -18.23%       25     25     0.1     28.68     371.05     0.49     25.72     7063.15     19.57     194     2572     -10.31%       26     25     0.5     74.80     252.87     2.10     69.38     14172.83     211.64     1660     15547     -7.24%       28     25     0.5     71.53     178.96     1.16     70.51     15967.51     212.49     1884     15964     -1.42%       29     25     0.5     69.52     432.73     0.43     68.55     16846.81     204.40     1763     15303     -1.40%       30     25     0.5     77.78     312.38     1.07     74.42     15397.72     213.48     1730     15370     -4.33%       32     25     0.5     69.82     445.44     1.79     67.04     16633.65     259.60     1731     15664     -3.99%	22	25	0.1	43.24	316.73	4.16	35.72	4623.74	25.88	278	3624	-17.39%
25     25     0.1     28.68     371.05     0.49     25.72     7063.15     19.57     194     2572     -10.31%       26     25     0.5     70.11     251.45     0.36     63.91     15224.67     197.80     1602     13952     -8.85%       27     25     0.5     71.80     252.87     2.10     69.38     14172.83     211.64     1600     15547     -7.24%       28     25     0.5     75.75     178.96     1.16     70.51     15967.51     212.49     184     15964     1.60     1242%       29     25     0.5     69.52     432.73     0.43     68.55     16846.81     204.40     1763     15303     -1.40%       30     25     0.5     69.13     3669.71     0.45     69.05     15483.83     188.40     1537     15370     -4.33%       31     25     0.5     69.82     445.44     1.79     67.04     16633.65     259.60     1731     15664     -3.99%	23	25	0.1	29.37	333.54	0.31	27.61	6413.99	23.02	181	2764	-6.00%
26     25     0.5     70.11     251.45     0.36     63.91     15224.67     197.80     1602     13952     -8.85%       27     25     0.5     74.80     252.87     2.10     69.38     14172.83     221.64     1660     15547     -7.24%       28     25     0.5     71.53     178.96     1.16     70.51     15967.51     212.49     1884     15964     -1.42%       29     25     0.5     69.52     432.73     0.43     68.55     16846.81     204.40     1703     15303     -1.40%       30     25     0.5     77.78     312.38     1.07     74.42     15357.72     213.48     1730     15370     -3.15%       31     25     0.5     69.82     445.44     1.79     67.04     16633.65     259.60     1731     15664     -3.99%       34     25     0.5     65.99     350.55     2.21     65.77     17500.94     77.41     969     13320     -0.32%	24	25	0.1	32.74	205.36	1.29	26.77	6934.35	18.72	167	2640	-18.23%
27     25     0.5     74.80     252.87     2.10     69.38     14172.83     211.64     1660     15547     -7.24%       28     25     0.5     71.53     178.96     1.16     70.51     15967.51     212.49     1884     15964     -1.42%       29     25     0.5     69.52     432.73     0.43     68.55     16846.81     204.40     1763     15303     -1.40%       30     25     0.5     77.78     312.38     1.07     74.42     15357.72     213.48     1730     15370     -4.33%       31     25     0.5     69.13     3669.71     0.45     65.43     15883.98     187.44     1604     14398     -5.35%       33     25     0.5     69.82     445.44     1.79     67.04     16633.65     299.60     1731     15664     -3.99%       34     25     0.5     75.62     317.85     2.21     65.77     17500.94     77.41     969     13320     -0.35%	25	25	0.1	28.68	371.05	0.49	25.72	7063.15	19.57	194	2572	-10.31%
28     25     0.5     71.53     178.96     1.16     70.51     15967.51     212.49     1884     15964     -1.42%       29     25     0.5     69.52     432.73     0.43     68.55     16846.81     204.40     1763     15303     -1.40%       30     25     0.5     77.78     312.38     1.07     74.42     15357.72     213.48     1730     15370     -4.33%       32     25     0.5     69.13     3669.71     0.45     65.43     15888.98     187.44     1604     14398     -5.35%       33     25     0.5     69.82     445.44     1.79     67.04     16633.65     259.60     1731     15664     -3.99%       34     25     0.5     69.99     350.55     2.21     65.77     1750.94     77.41     969     13320     -0.32%       35     25     0.5     75.62     317.85     2.11     74.18     16390.77     120.02     93     14424     -1.91%	26	25	0.5	70.11	251.45	0.36	63.91	15224.67	197.80	1602	13952	-8.85%
29     25     0.5     69.52     432.73     0.43     68.55     16846.81     204.40     1763     15303     -1.40%       30     25     0.5     71.30     334.87     2.08     69.05     15483.83     188.80     1533     14635     -3.15%       31     25     0.5     69.13     3669.71     0.45     65.43     15883.98     187.44     1604     14398     -5.35%       33     25     0.5     69.92     445.44     1.79     67.04     16633.65     259.60     1731     15664     -3.99%       34     25     0.5     65.99     350.55     2.21     65.77     17500.94     77.41     969     13320     -0.32%       35     25     0.5     75.62     317.85     2.11     74.18     16390.77     120.02     993     14242     -1.91%       36     25     0.5     75.62     317.85     2.11     74.18     16390.77     120.02     993     14242     -1.91%	27	25	0.5	74.80	252.87	2.10	69.38	14172.83	211.64	1660	15547	-7.24%
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28	25	0.5	71.53	178.96	1.16	70.51	15967.51	212.49	1884	15964	-1.42%
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	29	25	0.5	69.52	432.73	0.43	68.55	16846.81	204.40	1763	15303	-1.40%
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	30	25	0.5	71.30	334.87	2.08	69.05	15483.83	188.80	1533	14635	-3.15%
33     25     0.5     69.82     445.44     1.79     67.04     16633.65     259.60     1731     15664     -3.99%       34     25     0.5     65.99     350.55     2.21     65.77     17500.94     77.41     969     13320     -0.32%       35     25     0.5     75.62     317.85     2.11     74.18     16390.77     120.02     993     14242     -1.91%       36     25     0.5     72.02     426.79     1.76     67.43     16179.37     98.71     894     13304     -6.37%       37     25     0.5     71.84     214.11     0.53     69.38     16354.89     99.68     904     13400     -3.43%       38     25     0.5     76.87     329.00     0.35     66.54     13538.05     86.65     860     12786     -13.44%       39     25     0.5     74.56     328.24     1.87     73.51     14159.94     98.18     910     13634     -1.40%	31	25	0.5	77.78	312.38	1.07	74.42	15357.72	213.48	1730	15370	-4.33%
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	32	25	0.5	69.13	3669.71	0.45	65.43	15883.98	187.44	1604	14398	-5.35%
35     25     0.5     75.62     317.85     2.11     74.18     16390.77     120.02     993     14242     -1.91%       36     25     0.5     72.02     426.79     1.76     67.43     16179.37     98.71     894     13304     -6.37%       37     25     0.5     71.84     214.11     0.53     69.38     16354.89     99.68     904     13400     -3.43%       38     25     0.5     76.87     329.00     0.35     66.54     13538.05     86.65     860     12786     -13.44%       39     25     0.5     93.51     457.85     3.97     91.48     11204.71     169.58     1111     17478     -2.17%       40     25     0.5     74.56     328.24     1.87     73.51     14159.94     98.18     910     13634     -1.40%       41     25     0.5     79.60     470.94     2.54     75.95     12301.01     113.69     1063     14344     -4.58%	33	25	0.5	69.82	445.44	1.79	67.04	16633.65	259.60	1731	15664	-3.99%
36     25     0.5     72.02     426.79     1.76     67.43     16179.37     98.71     894     13304     -6.37%       37     25     0.5     71.84     214.11     0.53     69.38     16354.89     99.68     904     13400     -3.43%       38     25     0.5     76.87     329.00     0.35     66.54     13538.05     86.65     860     12786     -13.44%       39     25     0.5     93.51     457.85     3.97     91.48     11204.71     169.58     1111     17478     -2.17%       40     25     0.5     74.56     328.24     1.87     73.51     14159.94     98.18     910     13634     -1.40%       41     25     0.5     79.60     470.94     2.54     75.95     12301.01     113.69     1063     14334     -4.58%       42     25     0.5     70.51     294.05     1.69     68.05     15484.15     86.82     976     12844     -3.49%	34	25	0.5	65.99	350.55	2.21	65.77	17500.94	77.41	969	13320	-0.32%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	35	25	0.5	75.62	317.85	2.11	74.18	16390.77	120.02	993	14242	-1.91%
38     25     0.5     76.87     329.00     0.35     66.54     13538.05     86.65     860     12786     -13.44%       39     25     0.5     93.51     457.85     3.97     91.48     11204.71     169.58     1111     17478     -2.17%       40     25     0.5     74.56     328.24     1.87     73.51     14159.94     98.18     910     13634     -1.40%       41     25     0.5     79.60     470.94     2.54     75.95     12301.01     113.69     1063     14334     -4.58%       42     25     0.5     70.51     294.05     1.69     68.05     15484.15     86.82     976     12844     -3.49%       43     25     0.5     73.88     259.82     0.88     73.47     14631.72     96.10     1022     14050     -0.55%       44     25     0.5     69.64     307.34     0.87     69.39     15473.95     102.53     1079     13912     -0.35%	36	25	0.5	72.02	426.79	1.76	67.43	16179.37	98.71	894	13304	-6.37%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37	25	0.5	71.84	214.11	0.53	69.38	16354.89	99.68	904	13400	-3.43%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	38	25	0.5	76.87	329.00	0.35	66.54	13538.05	86.65	860	12786	-13.44%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39	25	0.5	93.51	457.85	3.97	91.48	11204.71	169.58	1111	17478	-2.17%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	40	25	0.5	74.56	328.24	1.87	73.51	14159.94	98.18	910	13634	-1.40%
43     25     0.5     73.88     259.82     0.88     73.47     14631.72     96.10     1022     14050     -0.55%       44     25     0.5     69.64     307.34     0.87     69.39     15473.95     102.53     1079     13912     -0.35%       45     25     0.5     67.79     431.59     3.01     65.18     17170.16     68.02     891     12864     -3.85%       46     25     0.5     66.95     3648.80     0.94     66.61     17024.01     91.78     938     12576     -0.51%       47     25     0.5     90.31     419.00     4.10     89.53     10950.54     164.52     1234     17808     -0.86%       48     25     0.5     70.69     389.06     0.88     63.28     14138.86     79.28     916     12520     -10.49%       49     25     0.5     73.63     251.17     1.56     65.35     16113.85     74.32     936     13102     -11.25%												
44     25     0.5     69.64     307.34     0.87     69.39     15473.95     102.53     1079     13912     -0.35%       45     25     0.5     67.79     431.59     3.01     65.18     17170.16     68.02     891     12864     -3.85%       46     25     0.5     66.95     3648.80     0.94     66.61     17024.01     91.78     938     12576     -0.51%       47     25     0.5     90.31     419.00     4.10     89.53     10950.54     164.52     1234     17808     -0.86%       48     25     0.5     70.69     389.06     0.88     63.28     14138.86     79.28     916     12520     -10.49%       49     25     0.5     73.63     251.17     1.56     65.35     16113.85     74.32     936     13102     -11.25%       50     25     0.5     67.70     424.59     0.66     67.65     16503.88     85.44     909     12844     -0.08%												
45     25     0.5     67.79     431.59     3.01     65.18     17170.16     68.02     891     12864     -3.85%       46     25     0.5     66.95     3648.80     0.94     66.61     17024.01     91.78     938     12576     -0.51%       47     25     0.5     90.31     419.00     4.10     89.53     10950.54     164.52     1234     17808     -0.86%       48     25     0.5     70.69     389.06     0.88     63.28     14138.86     79.28     916     12520     -10.49%       49     25     0.5     73.63     251.17     1.56     65.35     16113.85     74.32     936     13102     -11.25%       50     25     0.5     67.70     424.59     0.66     67.65     16503.88     85.44     909     12844     -0.08%       51     25     2.0     132.89     894.14     0.05     132.69     29822.23     1921.68     5174     46637     -0.16%												
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$												
47     25     0.5     90.31     419.00     4.10     89.53     10950.54     164.52     1234     17808     -0.86%       48     25     0.5     70.69     389.06     0.88     63.28     14138.86     79.28     916     12520     -10.49%       49     25     0.5     73.63     251.17     1.56     65.35     16113.85     74.32     936     13102     -11.25%       50     25     0.5     67.70     424.59     0.66     67.65     16503.88     85.44     909     12844     -0.08%       51     25     2.0     132.89     894.14     0.05     132.69     29822.23     1921.68     5174     46637     -0.16%       52     25     2.0     141.78     1056.18     1.96     141.48     27421.92     2557.36     5709     51991     -0.21%       53     25     2.0     141.98     755.58     1.64     140.46     30051.80     2566.29     5702     50900     -1.07%												
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51     25     2.0     132.89     894.14     0.05     132.69     29822.23     1921.68     5174     46637     -0.16%       52     25     2.0     141.78     1056.18     1.96     141.48     27421.92     2557.36     5709     51991     -0.21%       53     25     2.0     141.98     755.58     1.64     140.46     30051.80     2566.29     5702     50900     -1.07%       54     25     2.0     133.37     1144.27     0.52     131.10     31268.66     2424.13     5506     48459     -1.70%       55     25     2.0     134.88     1098.47     1.05     133.99     29587.54     2311.54     5439     48473     -0.66%       56     25     2.0     141.51     1100.14     1.01     134.98     28515.24     2246.55     5296     47749     -4.61%       57     25     2.0     130.60     4410.68     0.40     129.07     29813.22     2077.70     5213     45680     -1.			0.5									
52     25     2.0     141.78     1056.18     1.96     141.48     27421.92     2557.36     5709     51991     -0.21%       53     25     2.0     141.98     755.58     1.64     140.46     30051.80     2566.29     5702     50900     -1.07%       54     25     2.0     133.37     1144.27     0.52     131.10     31268.66     2424.13     5506     48459     -1.70%       55     25     2.0     134.88     1098.47     1.05     133.99     29587.54     2311.54     5439     48473     -0.66%       56     25     2.0     141.51     1100.14     1.01     134.98     28515.24     2246.55     5296     47749     -4.61%       57     25     2.0     130.60     4410.68     0.40     129.07     29813.22     2077.70     5213     45680     -1.17%       58     25     2.0     134.06     1201.34     1.08     133.56     31134.61     2820.94     5362     49657     -0												
53     25     2.0     141.98     755.58     1.64     140.46     30051.80     2566.29     5702     50900     -1.07%       54     25     2.0     133.37     1144.27     0.52     131.10     31268.66     2424.13     5506     48459     -1.70%       55     25     2.0     134.88     1098.47     1.05     133.99     29587.54     2311.54     5439     48473     -0.66%       56     25     2.0     141.51     1100.14     1.01     134.98     28515.24     2246.55     5296     47749     -4.61%       57     25     2.0     130.60     4410.68     0.40     129.07     29813.22     2077.70     5213     45680     -1.17%       58     25     2.0     134.06     1201.34     1.08     133.56     31134.61     2820.94     5362     49657     -0.37%												
54     25     2.0     133.37     1144.27     0.52     131.10     31268.66     2424.13     5506     48459     -1.70%       55     25     2.0     134.88     1098.47     1.05     133.99     29587.54     2311.54     5439     48473     -0.66%       56     25     2.0     141.51     1100.14     1.01     134.98     28515.24     2246.55     5296     47749     -4.61%       57     25     2.0     130.60     4410.68     0.40     129.07     29813.22     2077.70     5213     45680     -1.17%       58     25     2.0     134.06     1201.34     1.08     133.56     31134.61     2820.94     5362     49657     -0.37%												
55     25     2.0     134.88     1098.47     1.05     133.99     29587.54     2311.54     5439     48473     -0.66%       56     25     2.0     141.51     1100.14     1.01     134.98     28515.24     2246.55     5296     47749     -4.61%       57     25     2.0     130.60     4410.68     0.40     129.07     29813.22     2077.70     5213     45680     -1.17%       58     25     2.0     134.06     1201.34     1.08     133.56     31134.61     2820.94     5362     49657     -0.37%												
56     25     2.0     141.51     1100.14     1.01     134.98     28515.24     2246.55     5296     47749     -4.61%       57     25     2.0     130.60     4410.68     0.40     129.07     29813.22     2077.70     5213     45680     -1.17%       58     25     2.0     134.06     1201.34     1.08     133.56     31134.61     2820.94     5362     49657     -0.37%												
57     25     2.0     130.60     4410.68     0.40     129.07     29813.22     2077.70     5213     45680     -1.17%       58     25     2.0     134.06     1201.34     1.08     133.56     31134.61     2820.94     5362     49657     -0.37%												
58     25     2.0     134.06     1201.34     1.08     133.56     31134.61     2820.94     5362     49657     -0.37%												
Continued on the next page	58	25	2.0	134.06	1201.34	1.08	133.56	31134.61	2820.94			

Table 1: Result of SimExact x SimSA-VaR  $_{99\%}$  (continued)

Inst	n	δ	SimE	Exact			SimSA-VaF	R <sub>99%</sub>			$GAP_{b \times a}$
			V-RPD <sup>a</sup>	T(s)	D-RPD	$V$ -RPD $^b$	SD	T(s)	$\rho_S$	$\rho_L$	- 0/4
59	25	2.0	131.97	864.16	0.44	131.86	32820.73	987.11	2961	41696	-0.09%
60	25	2.0	137.54	879.07	1.84	137.20	30510.05	1049.46	3264	44640	-0.25%
61	25	2.0	139.13	1075.27	0.94	137.21	31377.33	980.13	3100	44644	-1.38%
62	25	2.0	138.31	778.14	0.35	135.08	31110.08	1021.20	2953	44024	-2.33%
63	25	2.0	142.08	843.60	2.11	140.25	26750.06	1091.88	2965	44156	-1.28%
64	25	2.0	193.86	2239.75	4.86	188.05	22812.79	2205.33	4197	60920	-2.99%
65	25	2.0	145.43	1245.02	3.75	142.57	27814.22	1083.32	3125	46490	-1.97%
66	25	2.0	164.68	1610.54	2.24	164.50	24915.94	1437.89	3507	50604	-0.11%
68	25 25	2.0	134.44 151.21	906.17 783.33	1.87	133.91	29164.87 27851.16	866.03 795.69	2855 3162	41476 45292	-0.39% -3.29%
69	25	2.0	144.69	1192.42	1.82	139.17	29460.86	1077.93	3074	44464	-3.82%
70	25	2.0	130.70	1123.46	0.15	127.42	31887.32	871.52	2806	40598	-2.52%
71	25	2.0	130.12	4106.05	0.90	126.76	31721.62	809.29	2785	39776	-2.58%
72	25	2.0	190.22	2096.17	4.68	182.94	21724.64	2094.73	4074	59334	-3.83%
73	25	2.0	133.89	1167.98	0.24	133.65	27670.31	675.34	2936	42704	-0.18%
74	25	2.0	136.70	897.52	1.52	133.64	30763.71	753.31	2852	42270	-2.25%
75	25	2.0	133.58	1156.51	0.55	129.22	31267.17	810.17	3041	41394	-3.27%
76*	50	0.1	30.74	3630.31	2.24	28.93	6060.19	45.07	163	2706	-5.89%
77*	50	0.1	31.41	3629.56	1.81	31.26	6810.09	38.98	221	3060	-0.46%
78*	50	0.1	30.77	3630.50	0.53	27.98	7663.21	26.15	197	2954	-9.06%
79*	50	0.1	32.52	3630.11	2.14	29.45	5647.84	26.18	182	2696	-9.44%
80*	50	0.1	26.13	3631.53	0.48	25.58	7060.72	39.10	203	2632	-2.11%
81*	50	0.1	28.63	3629.64	1.14	26.15	6516.06	44.48	160	2512	-8.68%
82*	50	0.1	28.66	3631.00	1.31	28.37	6453.07	45.45	195	2688	-1.01%
83*	50	0.1	29.11	3631.29	1.05	27.87	7018.26	44.20	202	2886	-4.26%
84*	50	0.1	29.79	3630.00	1.38	27.77	7019.35	43.03	168	2762	-6.81%
85*	50	0.1	33.64	3630.23	3.16	31.72	6176.21	50.91	202	2874	-5.69%
86*	50	0.1	29.19	3628.29	1.24	29.04	7417.79	54.16	165	2736	-0.55%
87*	50	0.1	31.80	3630.65	1.04	27.31	7000.49	44.23	137	2534	-14.13%
88*	50	0.1	32.78	3629.23	1.79	29.02	6818.44	37.09	206	2910	-11.47%
89*	50	0.1	27.54	3631.50	1.39	27.28	7502.70	32.82	220	2922	-0.92%
90*	50	0.1	30.66	3631.02	1.75	29.76	6377.07	44.40	186	2812	-2.92%
91*	50	0.1	31.58	3630.58	1.47	27.46	7027.65	45.82	167	2560	-13.05%
92*	50	0.1	30.01	3630.68	1.29	27.16	7105.32	46.29	173	2826	-9.50%
93*	50	0.1	30.97	3629.82	1.58	26.89	7047.45	46.86	171	2662	-13.16%
94*	50	0.1	29.72	3631.44	2.05	28.47	6195.96	33.26	179	2632	-4.18%
95*	50	0.1	26.97	3632.06	1.21	26.56	7480.74	34.92	171	2604	-1.52%
96*	50	0.1	30.93	3632.77	2.18	30.25	6432.54	46.73	214	2876	-2.17%
97*	50	0.1	29.69	3631.00	1.86	26.32	6371.36	46.74	196	2452	-11.33%
98*	50	0.1	29.18	3631.14	0.77	24.45	6216.57	39.56	200	2796	-16.20%
99*	50	0.1	28.35	3619.11	1.44	26.66	6562.79	33.08	151	2504	-5.96%
100*	50	0.1	29.42	3619.63	0.80	28.70	7156.16	32.77	190	2956	-2.46%
101*	50	0.5	70.86	3691.40	2.34	68.26	14066.19	119.45	952	13174	-3.67%
102*	50	0.5	76.31	3701.87	1.70	74.25	15250.22	119.00	921	14068	-2.69%
103*	50	0.5	70.58	3693.11	0.46	65.73	17056.79	66.70	919	13478	-6.88%
104*	50	0.5	74.09	3695.26	2.98	73.64	13246.55	110.12	921	13426	-0.60%
105*	50	0.5	66.54	3698.51	0.46	65.60	16353.87	111.52	928	12718	-1.40%
106*	50	0.5	70.51	3691.56	0.90	67.01	15567.09	132.35	933	13236	-4.97%
107*	50	0.5	71.10	3701.60	1.20	70.85	15123.30	126.32	939	13400	-0.34%
108*	50 50	0.5	69.32 69.15	3700.53 3693.62	0.69 1.54	68.97 67.86	16403.13 15897.39	120.44 121.89	818	14154 13036	-0.51% -1.86%
110*	50	0.5	75.94	3695.31	2.34	75.53	14203.77	132.53	969	13662	-0.54%
1111*	50	0.5	69.73	3689.99	1.20	69.51	17497.15	128.40	942	14130	-0.31%
112*	50	0.5	69.94	3687.81	0.96	69.77	16897.69	116.37	977	13504	-0.23%
113*	50	0.5	72.36	3688.00	1.64	70.51	15674.08	103.65	962	14020	-2.56%
114*	50	0.5	70.73	3701.87	0.95	70.20	16859.68	129.86	937	13642	-0.75%
115*	50	0.5	72.53	3698.00	1.95	72.24	14831.72	141.58	890	13810	-0.41%
116*	50	0.5	71.24	3693.92	2.09	70.13	16812.26	133.67	964	13448	-1.55%
											e next page

Table 1: Result of SimExact x SimSA-VaR  $_{99\%}$  (continued)

			SimE	Exact			SimSA-VaF	l nord			
Inst	n	δ	V-RPD <sup>a</sup>	T(s)	D-RPD	$V$ -RPD $^b$	SD	T(s)	$\rho_S$	$\rho_L$	$GAP_{b \times a}$
117*	50	0.5	74.42	3691.77	1.19	71.21	16693.69	122.99	980	14128	-4.31%
118*	50	0.5	71.69	3695.75	1.40	68.23	16257.37	110.65	913	12944	-4.83%
119*	50	0.5	72.27	3702.59	2.08	71.93	14632.68	83.14	818	13306	-0.47%
120*	50	0.5	68.92	3690.70	0.63	66.52	17595.43	99.69	876	13190	-3.48%
121*	50	0.5	75.45	3705.25	1.89	68.75	14840.87	114.81	892	13904	-8.88%
122*	50	0.5	69.91	3696.22	2.09	66.43	15158.78	103.54	862	12586	-4.98%
123*	50	0.5	70.69	3691.08	0.70	67.51	14709.54	134.44	917	14140	-4.50%
124*	50	0.5	69.74	3646.83	1.66	68.35	15855.85	108.66	941	13342	-1.98%
125*	50	0.5	70.13	3641.99	0.74	68.16	16187.65	111.55	1016	13788	-2.81%
126*	50	2.0	143.39	4494.43	2.25	138.51	26670.88	913.18	3004	42778	-3.40%
127*	50	2.0	146.86	4617.19	2.01	142.25	28929.85	761.03	3090	45390	-3.14%
128*	50	2.0	134.83	4487.87	0.55	131.88	32176.52	675.57	2959	42982	-2.19%
129*	50	2.0	146.55	4554.07	2.28	145.16	25858.77	884.75	3120	45416	-0.95%
130*	50	2.0	131.89	4478.45	0.41	131.59	31383.28	1013.07	3162	42378	-0.22%
131*	50	2.0	135.57	4476.31	0.82	135.23	29693.40	853.18	2976	44068	-0.25%
132*	50	2.0	139.67	4599.14	1.31	135.44	28531.88	1069.35	3107	43262	-3.03%
133*	50	2.0	141.09	4642.70	0.76	138.92	30737.39	1120.47	3189	44810	-1.54%
134*	50	2.0	136.90	4505.26	1.60	131.74	29854.94	1008.92	2865	41654	-3.76%
135*	50	2.0	151.46	4628.07	2.21	149.58	28059.34	1276.78	3359	47700	-1.24%
136*	50	2.0	133.59	4458.52	1.31	132.92	31464.47	939.12	2880	41418	-0.51%
137*	50	2.0	136.52	4457.67	0.98	134.63	32007.60	969.13	3035	43818	-1.38%
138*	50	2.0	147.52	4554.44	1.70	144.59	29920.05	1153.29	3212	45426	-1.99%
139*	50	2.0	138.75	4557.57	1.17	137.97	31608.55	1071.35	2988	42900	-0.56%
140*	50	2.0	148.18	4655.48	2.02	144.10	28066.84	1139.90	3055	44448	-2.75%
141*	50	2.0	142.15	4480.91	1.43	140.85	32313.40	1079.01	3110	43732	-0.92%
142*	50	2.0	142.85	4575.03	1.31	138.23	31310.81	1140.89	3295	44896	-3.24%
143*	50 50	2.0	140.47 150.02	4549.38 4702.10	1.66 1.75	138.73	31371.72 29032.79	1043.55 1065.65	2954 3257	42832 46756	-1.24% -0.73%
145*	50	2.0	130.92	4379.22	1.75	129.96	32514.20	789.32	2699	41226	-0.73%
146*	50	2.0	146.87	4656.51	1.77	145.16	28842.28	999.90	3138	46110	-1.16%
147*	50	2.0	135.25	4542.94	1.44	134.99	30432.30	992.38	3052	44734	-0.19%
148*	50	2.0	143.30	4011.50	0.86	137.55	28215.44	1093.35	3108	46286	-4.01%
149*	50	2.0	141.66	3882.66	1.49	138.54	30724.56	1053.04	3174	44502	-2.20%
150*	50	2.0	135.16	3840.16	0.77	133.69	29835.05	650.11	2988	42274	-1.09%
151*	75	0.1	29.71	3627.29	1.72	29.39	7014.65	41.35	193	2710	-1.07%
152*	75	0.1	31.21	3623.12	1.70	30.42	6419.85	66.01	251	2926	-2.50%
153*	75	0.1	29.08	3625.34	1.08	27.47	6407.70	73.17	186	2764	-5.55%
154*	75	0.1	27.12	3624.57	0.04	25.47	6459.13	54.99	155	2590	-6.06%
155*	75	0.1	29.70	3625.54	2.10	29.52	6679.27	68.64	158	2684	-0.63%
156*	75	0.1	27.09	3625.07	0.79	26.89	6907.90	77.13	211	2818	-0.73%
157*	75	0.1	30.06	3624.51	1.73	27.58	6655.44	79.93	217	2808	-8.24%
158*	75	0.1	30.63	3625.24	1.40	26.51	6204.30	60.40	211	2678	-13.46%
159*	75	0.1	27.95	3625.34	1.50	26.87	7199.42	57.68	165	2720	-3.89%
160*	75	0.1	28.35	3625.46	2.11	28.24	6255.98	44.25	213	2732	-0.38%
161*	75	0.1	29.51	3623.68	1.92	29.26	6095.88	63.96	170	2804	-0.85%
162*	75	0.1	30.18	3625.13	1.04	27.45	6727.49	52.61	198	2662	-9.04%
163*	75	0.1	27.79	3623.73	0.58	27.56	6962.04	66.83	203	2746	-0.81%
164*	75	0.1	30.46	3625.49	1.30	27.07	6780.45	76.30	184	2768	-11.12%
165*	75	0.1	30.19	3625.53	2.09	29.98	6546.77	36.12	230	3068	-0.69%
166*	75	0.1	31.63	3624.68	1.26	27.34	6754.29	40.76	168	2650	-13.56%
167*	75	0.1	29.14	3625.88	1.81	27.96	6786.53	41.02	195	2864	-4.06%
168*	75	0.1	28.81	3626.39	2.09	28.41	6241.81	38.48	194	2568	-1.38%
169* 170*	75 75	0.1	32.74 33.41	3624.77 3625.94	1.15 1.91	27.35 31.03	6523.18 6689.95	41.42	161	2672 2814	-16.48% -7.13%
170**	75 75	0.1	28.54	3626.12	2.49	27.66	6436.65	39.78	158	2516	-7.13%
171**	75	0.1	30.02	3623.52	1.43	29.43	7614.68	41.18	237	3010	-3.09%
173*	75	0.1	31.43	3626.27	2.48	29.43	6412.66	33.05	150	2668	-5.35%
174*	75	0.1	30.80	3625.35	1.27	26.25	7022.30	23.63	182	2594	-14.78%
11.4	10	0.1	50.60	3020.00	1.21	20.20	1022.00	20.00		ued on the	

Table 1: Result of SimExact x SimSA-VaR  $_{99\%}$  (continued)

			SimE	Exact			SimSA-VaF	Room			
Inst	n	δ	V-RPD <sup>a</sup>	T(s)	D-RPD	$V$ -RPD $^b$	SD SD	T(s)	$\rho_S$	$\rho_L$	$GAP_{b \times a}$
175*	75	0.1	29.42	3624.28	1.36	28.99	6241.49	40.43	204	2962	-1.45%
176*	75	0.5	68.98	3650.35	1.65	68.81	16305.09	89.29	925	13562	-0.24%
177*	75	0.5	74.51	3653.62	1.71	73.67	14929.32	162.63	1024	14248	-1.13%
178*	75	0.5	72.20	3659.63	1.03	71.91	15595.85	136.59	1028	14592	-0.41%
179*	75	0.5	70.27	3655.58	0.09	65.91	15224.46	127.03	911	13004	-6.21%
180*	75	0.5	69.84	3660.23	1.87	68.18	15311.72	146.22	927	12816	-2.39%
181*	75	0.5	70.30	3659.24	0.82	70.16	16036.68	160.16	1033	13788	-0.20%
182*	75	0.5	70.40	3653.63	1.52	70.11	15516.71	130.86	910	13858	-0.40%
183*	75	0.5	69.97	3658.78	1.46	69.55	13985.18	116.55	856	12504	-0.60%
184*	75	0.5	69.46	3656.67	1.10	66.35	16387.45	106.39	856	12994	-4.47%
185*	75	0.5	72.59	3658.31	2.12	69.99	14551.84	104.83	965	13406	-3.58%
186*	75	0.5	74.62	3662.65	1.61	73.78	14513.80	137.65	947	14458	-1.12%
187*	75	0.5	71.52	3661.38	1.21	70.37	16383.87	123.01	959	14246	-1.61%
188*	75	0.5	66.47	3655.08	0.66	66.34	15903.23	165.94	873	13140	-0.20%
189*	75	0.5	70.89	3658.92	1.02	67.93	15594.24	161.09	833	13288	-4.18%
190*	75	0.5	72.76	3660.92	2.44	69.56	14319.32	71.36	965	13368	-4.40%
191*	75	0.5	70.43	3656.11	1.31	70.19	16160.60	79.62	1040	13800	-0.34%
192*	75	0.5	72.49	3661.06	1.82	71.06	15471.54	82.13	907	13630	-1.98%
193*	75	0.5	70.06	3659.74	1.96	69.70	15036.23	77.89	913	13610	-0.51%
194*	75	0.5	75.15	3656.41	1.13	69.00	15334.52	81.63	1005	13464	-8.19%
195*	75	0.5	75.33	3660.65	1.93	72.75	15682.29	81.53	1016	14074	-3.43%
196*	75	0.5	73.88	3662.00	2.24	70.08	15452.52	76.48	909	13330	-5.15%
197*	75	0.5	70.71	3657.42	1.50	69.69	16745.13	79.65	974	13336	-1.44%
198*	75	0.5	75.16	3663.46	2.20	71.30	15107.58	68.22	950	13462	-5.14%
199*	75	0.5	70.15	3658.72	1.02	65.97	16434.38	77.40	863	13108	-5.96%
200*	75	0.5	73.15	3659.51	1.29	72.93	14131.97	83.50	1023	13842	-0.29%
201*	75	2.0	143.49	3852.70	1.34	135.78	30478.00	755.87	2875	42912	-5.37%
202*	75	2.0	149.30	3896.04	1.75	147.97	28579.92	1216.33	3179	46966	-0.89%
203*	75	2.0	146.07	3953.76	1.08	143.39	29070.31	913.97	3251	45238	-1.83%
204*	75	2.0	139.45	3883.43	0.07	134.90	29163.24	1005.02	3140	43230	-3.26%
205*	75	2.0	140.52	3920.68	1.59	140.35	30671.27	1172.99	3234	45592	-0.12%
206*	75 75	2.0	139.25 144.71	3906.44	0.68 1.66	138.60	30601.63 29707.64	789.67 1122.60	2952 3130	45564 45410	-0.47% -2.07%
208*	75	2.0	140.53	3894.08	1.41	136.66	27073.79	881.86	3009	42564	-2.75%
209*	75	2.0	134.13	3865.74	1.12	134.07	31052.93	666.01	2946	42182	-0.04%
210*	75	2.0	147.23	3915.02	2.04	140.70	27471.14	720.80	3152	43418	-4.44%
211*	75	2.0	147.59	3978.65	2.10	146.72	27490.68	976.00	3376	45968	-0.59%
212*	75	2.0	146.21	3903.56	1.23	141.24	30828.26	1092.61	3201	45300	-3.39%
213*	75	2.0	140.08	3897.10	0.48	131.77	29591.78	950.59	2772	41552	-5.93%
214*	75	2.0	138.84	3892.84	1.29	133.62	29287.22	736.07	3025	42356	-3.76%
215*	75	2.0	142.41	3925.52	2.70	141.06	27127.57	480.85	3058	43316	-0.95%
216*	75	2.0	139.33	3884.92	1.24	138.99	29984.18	476.39	2968	43136	-0.25%
217*	75	2.0	142.73	3916.87	1.85	138.29	29236.51	471.13	3056	43382	-3.11%
218*	75	2.0	138.93	3897.91	2.10	138.52	28671.90	374.23	3048	44546	-0.30%
219*	75	2.0	146.60	3899.50	1.15	144.08	30171.75	395.47	3092	46006	-1.72%
220*	75	2.0	147.11	3914.66	2.10	145.02	29786.24	506.11	3276	44986	-1.42%
221*	75	2.0	142.03	3914.69	2.44	137.76	28999.55	471.26	3017	42392	-3.01%
222*	75	2.0	139.70	3901.81	1.50	137.10	31693.33	367.90	3038	43114	-1.86%
223*	75	2.0	147.83	3955.01	2.66	147.51	29408.04	430.99	3206	45098	-0.21%
224*	75	2.0	138.29	3903.67	1.08	134.83	31239.41	399.63	2782	42508	-2.51%
225*	75	2.0	151.02	3940.44	1.54	148.19	27493.91	592.11	3340	46620	-1.87%
226*	100	0.1	31.16	3628.33	2.26	30.72	6252.14	50.91	181	2716	-1.42%
227*	100	0.1	30.30	3628.47	2.09	29.08	6554.97	57.48	226	2780	-4.04%
228*	100	0.1	29.60	3629.94	1.25	27.33	6317.85	53.82	199	2628	-7.64%
229*	100	0.1	29.24	3630.06	2.26	27.15	6636.48	56.74	195	2666	-7.14%
230*	100	0.1	30.59	3630.66	1.83	26.69	7270.77	53.95	214	2734	-12.77%
231*	100	0.1	28.42	3628.87	1.46	25.37	6433.31	53.54	210	2596	-10.73%
232*	100	0.1	30.96	3631.19	1.92	29.17	6863.27	53.45	235	2970	-5.79%

Table 1: Result of SimExact x SimSA-VaR  $_{99\%}$  (continued)

Inst	n	δ		Exact			SimSA-VaR				$GAP_{b \times a}$
			V-RPD <sup>a</sup>	T(s)	D-RPD	V-RPD <sup>b</sup>	SD	T(s)	$\rho_S$	$\rho_L$	- 0/4
233*	100	0.1	28.64	3630.93	1.95	28.37	6992.70	55.98	207	2884	-0.95%
234*	100	0.1	29.51	3631.16	2.25	28.07	6800.11	52.40	219	2624	-4.91%
235*	100	0.1	28.70	3631.18	1.75	25.09	6713.71	58.66	192	2572	-12.56%
236*	100	0.1	29.83	3630.30	1.04	28.92	6236.58	58.84	216	2822	-3.03%
237*	100	0.1	29.08	3629.99	1.24	27.77	7019.71	54.51	201	2716	-4.51%
238*	100	0.1	31.05	3631.77	1.70	30.73	7106.99	58.64	196	2974	-1.05%
239*	100	0.1	29.82	3629.92	2.07	27.45	6720.33	52.03	133	2592	-7.96%
240*	100	0.1	30.29	3629.86	1.95	28.22	6490.84	53.57	194	2594	-6.83%
241*	100	0.1	28.96	3628.61	2.44	26.56	6030.42	59.55	202	2580	-8.31%
242*	100	0.1	30.62	3630.22	1.65	30.52	6695.84	70.19	189	2924	-0.33% -6.99%
243*	100	0.1	31.35	3630.59	2.10	29.16	6547.51	53.68	158	2570	
244*	100	0.1	28.76	3630.46	2.68	28.54	6639.04	52.26	192	2640	-0.76%
245*	100	0.1	29.16	3629.88	1.61	29.01	6574.74	52.85	190 217	2918	-0.52%
247*	100	0.1	29.12	3630.41 3629.40	2.50 1.68	28.84	6274.68	62.31 55.47	176	2692	-0.98% -1.10%
			26.25				6422.27				
248*	100	0.1	29.54 27.35	3630.22 3629.62	2.01 1.22	29.18	6560.08 7313.92	54.94 57.66	190	2938	-1.22% -2.47%
250*	100	0.1	29.09	3629.04	1.75	28.95	6861.90	64.93	194	2700	-0.50%
251*	100	0.1	74.54	3670.73	2.55	73.94	15143.09	110.04	1040	14384	-0.80%
252*	100	0.5	72.80	3669.59	1.86	71.70	15214.22	97.14	945	13754	-1.51%
253*	100	0.5	69.64	3666.34	1.37	69.28	14771.90	90.04	976	13122	-0.52%
254*	100	0.5	73.23	3671.62	2.52	70.59	15420.05	82.67	942	13114	-3.60%
255*	100	0.5	71.75	3671.32	1.82	68.09	16510.10	87.81	952	12906	-5.10%
256*	100	0.5	71.35	3669.33	0.96	69.39	15272.33	95.89	958	13340	-2.75%
257*	100	0.5	74.08	3676.05	1.91	73.18	15433.99	100.15	968	13714	-1.21%
258*	100	0.5	72.36	3673.19	2.43	69.11	15439.61	90.10	986	12944	-4.49%
259*	100	0.5	71.53	3675.25	2.16	71.37	16184.42	84.14	985	13680	-0.22%
260*	100	0.5	71.37	3675.47	1.97	71.29	16046.07	103.23	989	13486	-0.12%
261*	100	0.5	75.67	3671.44	0.92	75.52	15023.25	115.68	1080	14864	-0.20%
262*	100	0.5	70.45	3671.76	1.25	69.25	16270.23	95.15	963	13374	-1.70%
263*	100	0.5	74.99	3673.91	1.61	71.82	16187.16	98.53	1024	14052	-4.23%
264*	100	0.5	71.89	3670.28	1.94	71.72	16311.84	102.09	1036	13862	-0.23%
265*	100	0.5	73.65	3672.20	1.91	72.11	15637.19	99.35	990	13688	-2.09%
266*	100	0.5	74.07	3668.73	2.26	72.72	14606.56	108.26	959	13794	-1.83%
267*	100	0.5	71.22	3680.27	1.54	69.76	15214.03	96.35	863	13798	-2.05%
268*	100	0.5	71.76	3672.65	2.00	70.45	15417.90	81.86	940	13096	-1.83%
269*	100	0.5	73.69	3670.80	2.40	73.40	16036.81	66.73	924	14080	-0.40%
270*	100	0.5	72.48	3670.96	1.71	71.21	14971.45	94.73	993	13712	-1.74%
271*	100	0.5	73.85	3671.13	2.11	70.81	14444.81	90.88	826	13024	-4.11%
272*	100	0.5	72.57	3670.81	1.67	69.30	15983.78	106.05	975	13308	-4.51%
273*	100	0.5	73.70	3671.96	2.03	71.30	14746.50	97.37	992	13504	-3.25%
274*	100	0.5	68.98	3667.29	1.22	68.31	16458.82	100.50	812	13032	-0.96%
275*	100	0.5	68.72	3668.29	1.73	68.59	15899.57	110.27	946	13110	-0.20%
276*	100	2.0	146.65	3949.97	2.54	146.47	28265.14	560.90	3010	44828	-0.12%
277*	100	2.0	144.24	3926.60	2.22	142.44	29319.40	589.72	3285	46230	-1.25%
278*	100	2.0	141.89	3908.45	1.55	140.63	28307.23	517.46	3098	43522	-0.89%
279*	100	2.0	140.96 136.50	3925.18 3915.92	2.19	140.64	29784.73	573.76 484.33	3082	43878	-0.23% -1.67%
281*	100	2.0	142.16	3915.92	1.80 0.93	134.23	31222.35 29011.19	548.11	3015	43884	-1.67%
281*	100	2.0	142.16	3924.11	1.94	138.49	28930.21		3015 2971	43884	-3.04%
283*	100	2.0	145.04	3991.09	1.94	138.57	29452.58	516.45 494.75	2946	43044	-3.04%
284*	100	2.0	143.21	3964.62	2.09	142.94	30573.92	519.45	2981	44196	-0.19%
285*	100	2.0	141.20	3974.14	1.55	137.66	29959.95	479.26	2883	42524	-2.50%
286*	100	2.0	152.42	3981.04	0.95	150.76	29211.76	692.33	3428	49960	-1.09%
287*	100	2.0	139.36	3944.69	1.63	136.39	30617.39	481.22	2932	42652	-2.13%
288*	100	2.0	145.88	3953.05	1.50	145.63	30926.50	548.34	3134	45718	-0.17%
289*	100	2.0	140.06	3920.50	2.13	138.67	29926.91	513.28	3006	42608	-0.99%
290*	100	2.0	142.14	3963.06	2.01	141.82	29637.68	551.81	3006	44308	-0.22%
			1								e next page

Table 1: Result of SimExact x SimSA-VaR  $_{99\%}$  (continued)

T		δ	SimExact				CAD				
Inst	n	0	$V$ -RPD $^a$	T(s)	D-RPD	$V$ -RPD $^b$	SD	T(s)	$\rho_S$	$\rho_L$	$GAP_{b \times a}$
291*	100	2.0	146.43	3943.37	2.44	146.17	28319.87	718.58	3228	46226	-0.17%
292*	100	2.0	140.98	3931.38	1.37	138.38	28271.59	485.27	3041	43338	-1.84%
293*	100	2.0	140.55	3928.42	2.34	140.21	29785.75	521.70	3189	43810	-0.24%
294*	100	2.0	146.77	3946.25	2.38	146.38	30558.30	520.27	3190	45622	-0.27%
295*	100	2.0	140.69	3926.84	1.57	140.38	28628.79	529.50	3079	44826	-0.22%
296*	100	2.0	141.99	3945.21	2.50	141.78	28301.08	573.26	3235	44650	-0.15%
297*	100	2.0	143.83	3930.84	1.59	137.39	29844.84	470.80	2771	42142	-4.48%
298*	100	2.0	146.30	3955.18	1.95	141.38	28165.96	513.24	2835	44046	-3.37%
299*	100	2.0	140.80	3932.68	1.28	134.76	31622.46	545.77	2932	43822	-4.29%
300*	100	2.0	139.63	3921.59	1.66	135.67	30144.77	537.49	3052	42652	-2.83%