Table 1: Statistical tests results for EUR case study

CN		vs. AVM	AVM vs. RS AVMc		·	
CN						
	p-value	OR/A	p-value	OR/A	p-value	OR/A
1	2E-51	519.13	4.2E-50	39.8387	2.7E-164	20681.47
2	0.37	0.4812	1.4E-6	9.2357	1.8E-09	65.302
3	0.00089	23.8739	1.9E-6	4.483	9.5E-15	107.0274
4	6.2E-73	762.021	1.1E-77	841.972	1.1E-239	641601
5	4.4E-5	0.4201	2.1E-6	11.2793	2E-8	56.6796
6	0.196	0.4743	5.7E-7	12.1957	4.6E-09	61.2846
7	2.4E-91	1105.237	5.5E-57	115.5222	8.6E-235	127679.4
8	3E-29	226.8432	7.8E-15	3.2928	5.3E-72	746.9566
9	2E-26	11.1987	1E-9	0.3754	8.2E-31	12.9782
10	7.5E-124	1604.2	3.6E-68	624.611	7.4E-300	1002001
11	0.000013	36.2306	3.9E-19	7.5478	2.1E-35	273.4625
12	0.0038	19.3479	5.7E-11	7.1057	2.6E-19	137.4813
13	0	67717.97	6.9E-6	37.8511	0	2563201
14	1.8E-45	340.5609	4.9E-46	4.8683	1.3E-153	1657.961
15	3.3E-106	1094.075	1.5E-119	1318.375	0	1442401
16	3.9E-20	141.8856	2.9E-247	398.5118	0	56543.08
17	1.1E-121	1242.610	2.8E-135	224.6878	0	279199.3
18	2E-18	127.5619	1.1E-184	46.6876	9.2E-263	5955.562
19	1.4E-142	23.0115	2.4E-47	363.7817	1.2E-290	8371.149
20	1.1E-31	4.3543	8.9E-111	24.2797	1E-232	105.7199
21	0	10.6608	2.2E-15	2.1624	0	23.053
22	2.3E-46	2.076	5.1E-19	1.5555	3.2E-118	3.2292
23	2.7E-184	15.7691	1.1E-78	611.8857	0	9648.883
24	1.8E-28	2.9279	2.1E-139	12.4816	3.6E-270	36.5452
25	0.7123	519.13	1.1E-21	39.8387	1.6E-20	20681.47
26	1	0.5	1	0.5	1	0.5
27	3E-59	475.0287	4E-9	1.979086	1.9E-100	940.1228
28	1.4E-7	2.169960	4.2E-36	33.13843	1E-66	71.90909
29	1	0.5	1	0.5	1	0.5
30	5.2E-95	0.181274	1.6E-285	1669.450	1.6E-285	1669.450
31	3.4E-49	10.35063	2.8E-33	5.638340	3.4E-145	58.36038
32	1.8E-28	2.92791	1.7E-63	4.508542	1.9E-164	13.20064
33	0.00033	2.267345	3.5E-299	474.6199	0	1076.127
34	1	0.5	0	1413609	0	1943187
* D -						٠

^{*} Bold text values indicate the results obtained based on the iterations count and when a statistically significant difference is not observed.

Table 2: Statistical tests results for SM case study

CN	AVMc vs	. AVM	AVM v	s. RS	AVMc	vs. RS
	p-value	OR/A	p-value	OR/A	p-value	OR/A
1	0.0394	0.4596	0.1162	0.5305	0.0772	0.4655
2	3.4E-79	0.119	1.1E-239	641601	1.1E-239	641601
3	0.000012	0.5752	0.2191	0.5204	4.1E-11	0.6131
4	0.000011	0.4245	7.4E-300	1002001	7.4E-300	1002001
5	4.7E-130	0.0064	1.1E-239	641601	1.1E-239	641601
6	1.7E-16	0.6378	0.281	0.5116	5.4E-19	0.6456
7	5.3E-25	0.3117	1.1E-239	641601	1.1E-239	641601
8	2.5E-133	0	1.1E-239	641601	1.1E-239	641601
9	1.6E-102	0.0626	1.1E-239	641601	1.1E-239	641601
10	2E-98	0.9253	1.1E-239	641601	1.6E-227	577521

^{*} Bold text values indicate the results obtained based on the iterations count and when a statistically significant difference is not observed.

Table 3: Statistical tests results for RnL case study

CN	AVMc vs	s. AVM	AVM ·	vs. RS	AVMc	vs. RS
	p-value	OR/A	p-value	OR/A	p-value	OR/A
1	5.1E-7	0.6105	4.5E-29	0.2537	6.4E-14	0.3264
2	1.4E-10	0.65	7.5E-35	301.2494	7.5E-35	301.2494
3	2.1E-19	0.7109	1.9E-34	296.7717	1.9E-34	296.7717
4	1.3E-34	0.7418	1.7E-211	3110.154	8.1E-208	3964.432
5	0.7631	0.4929	1.5E-179	361201	1.5E-179	361201
6	1.8E-32	0.6932	1.5E-179	361201	1.5E-179	361201
7	1.6E-29	0.7296	2.2E-132	2395.03	2.2E-132	2395.03
8	8.2E-32	0.7387	1.1E-239	641601	1.1E-239	641601
9	0.8186	0.4946	1.5E-179	361201	1.5E-179	361201
10	6.8E-23	0.7305	1.5E-179	361201	1.5E-179	361201

^{*} Bold text values indicate the results obtained based on the iterations count and when a statistically significant difference is not observed.

Table 4: Time analysis results for GCS case study

able 4: Time analysis results for GCS case stud				
CN	AVMc vs. AVMo			
	p-value	A12		
1	0.242095165656469	0.51780555555556		
2	2.04407660542855e-05	0.64204444444445		
3	0.207962787662303	0.54572777777778		
4	0.0269798530399067	0.51640555555556		
5	0.000226505115941915	0.4757		
6	2.20817643480401e-05	0.402783333333333		
7	4.65396798161641e-34	0.249668		
8	4.30994691508143e-06	0.407761111111111		
9	1.90061040918768e-14	0.2826		
10	4.44927396310504e-14	0.351961111111111		
11	0.506086639131583	0.461303125		
12	1.54675611449862e-19	0.590061111111111		
13	0.453179218345633	0.4728833333333333		
14	7.57805567790709e-55	0.182188		
15	1.22614767038829e-30	0.250615625		
16	3.67406555487535e-50	0.182626		
17	2.70242230607853e-40	0.751354		
18	0.767350328493715	0.394475		
19	1.2761687162404e-83	0.91397		
20	2.5801134441283e-32	0.6134125		
21	2.33920599296375e-94	0.0775138888888889		
22	3.38376161331536e-05	0.42377777777778		
23	3.84746923710645e-06	0.67934444444444		
24	4.5443449640494e-07	0.59882777777778		
25	8.53304338876996e-15	0.724916666666667		
26	2.18915090136179e-08	0.639761111111111		
27	3.60418273280431e-47	0.17873125		
28	3.850380020366e-33	0.283275		
29	2.15517083440303e-20	0.396041666666667		
30	2.01110380440486e-20	0.316698		

Table 5: Time analysis results for EUR case study

CN	AVMc vs. AVMo	o for Ecre case state
01	p-value	A12
1	0.0211639776797247	0.53809444444444
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	4.1026497866781e-31	0.7813666666666667
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	6.48176941894066e-17	0.686711111111111
$\begin{vmatrix} 3 \\ 4 \end{vmatrix}$	0.647665352429637	0.500741625
5	8.74202081331382e-29	0.72604375
$\begin{vmatrix} 5 \\ 6 \end{vmatrix}$	6.80938712165824e-39	0.7893375
7		
1 '	0.315397770121235	0.409859375
8	6.26880776188357e-05	0.56513125
9	0.035798647213272	0.486609375
10	0.163130718568261	0.404742
11	9.56545518877792e-44	0.775986
12	5.50948236706432e-39	0.743552
13	5.64900806015247e-37	0.13759921875
14	2.93793030931245e-20	0.60478046875
15	0.000308834294831892	0.44361527777778
16	1.37637869258542e-13	0.647351388888889
17	9.48069871899825e-07	0.421483673469388
18	1.64074833582333e-31	0.68679387755102
19	5.91944980690168e-23	0.246613265306122
20	0.958927949088525	0.504222448979592
21	0.000296702630664139	0.589180945821855
22	2.22468328140096e-44	0.618003122130395
23	5.9006571746279e-49	0.26307520661157
24	0.000156812376891785	0.507763636363636
25	6.08444058639736e-12	0.633830612244898
26	8.5099655225299e-51	0.131333333333333
27	0.931807581023853	0.462858163265306
28	3.09834581961454e-18	0.76701875
29	6.50537207458085e-44	0.277007142857143
30	1.76428355364497e-12	0.703748979591837
31	1.3093050087817e-47	0.790906
32	0.000156812376891785	0.507763636363636
33	1.25936240947292e-24	0.680074489795918
34	3.44922882267569e-79	0.096362040186445

Table 6: Time analysis results for RnL case study

CN	AVMc vs. AVMo	
	p-value	A12
1	1.39264268867485e-18	0.67575
2	0.949891575971729	0.491983333333333
3	0.000293899625819954	0.39987777777778
4	0.00546614388130036	0.559471875
5	2.00921045122681e-20	0.758294444444444
6	7.07728865583596e-08	0.693633333333333
7	0.51246597541752	0.3604875
8	0.00044281468490699	0.423121875
9	0.000440501950623558	0.62044444444444
10	8.92135277617721e-07	0.3799

Table 7: Time analysis results for SM case study

CN	AVMc vs. AVMo	
	p-value	A12
1	0.0558479539551689	0.381488888888889
2	1.0416308798266e-53	0.847175
3	2.23386130082787e-05	0.58185
4	1.66575946562658e-07	0.419806
5	2.90895258804192e-64	0.946384375
6	3.03165385049612e-06	0.451772222222222
7	0.861556081458092	0.497021875
8	0.0631635912917018	0.502028125
9	1.2085114096779e-62	0.88803125
10	1.58735719138689e-47	0.1052083333333333

Table 8: Total time taken (in milliseconds) by AVMo and AVMc for GCS case study $\,$

CN	AVMo	AVMc (inc. seed time)	Seed time for AVMc
1	46.603	57.307	3.05
$\frac{1}{2}$	157.883	134.616	6.41
3		93.527	3.19
4	80.254		
_	41.067	53.142	1.98
5	29.525	59.252	1.65
6	203.067	282.839	8.49
7	751.76	639.418	17.31
8	201.519	295.446	2.98
9	247.74	244.54	3.49
10	85.94	105.721	2.66
11	1214.15	1116.161	14.35
12	5751.348	3197.374	2.18
13	409.532	414.909	7.18
14	4693.912	4302.487	49.15
15	2110.662	2002.306	22.54
16	2077.279	2653.039	20.47
17	40681.867	17219.057	45.61
18	42276.26	16210.637	52.66
19	6259.721	948.294	27.97
20	25756.38	13645.966	16.38
21	2905.383	2986.41	8.47
22	356.264	491.449	5.47
23	251.24	257.827	26.83
24	994.12	976.712	22.7
25	726.198	684.624	16.5
26	399.925	499.93	11.22
27	760.645	948.453	7.34
28	267.791	803.013	27.86
29	3993.808	3608.066	31.69
30	1760.544	2752.641	24.48

Table 9: Total time taken (in milliseconds) by AVMo and AVMc for EUR case study $\,$

1 622.96 26.546 5.78 2 108.969 28.003 2.77 3 2198.556 257.868 8.70 4 770.98 43.744 3.94 5 115.952 44.008 4.19 6 1717.617 366.94 11.27 7 2688.443 98.461 6.10 8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 899.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463	CN	A X 7 X f	A3734 (: 14:)	C 14: C ANIM
2 108.969 28.003 2.77 3 2198.556 257.868 8.70 4 770.98 43.744 3.94 5 115.952 44.008 4.19 6 1717.617 366.94 11.27 7 2688.443 98.461 6.10 8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921	CN	AVMo	AVMc (inc. seed time)	Seed time for AVMc
3 2198.556 257.868 8.70 4 770.98 43.744 3.94 5 115.952 44.008 4.19 6 1717.617 366.94 11.27 7 2688.443 98.461 6.10 8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 160	1			
4 770.98 43.744 3.94 5 115.952 44.008 4.19 6 1717.617 366.94 11.27 7 2688.443 98.461 6.10 8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201	1			' '
5 115.952 44.008 4.19 6 1717.617 366.94 11.27 7 2688.443 98.461 6.10 8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064	1 -			
6 1717.617 366.94 11.27 7 2688.443 98.461 6.10 8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24	1			
7 2688.443 98.461 6.10 8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 <td>1</td> <td></td> <td></td> <td>_</td>	1			_
8 1748.609 43.863 2.91 9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385<	1 -			
9 18378.365 3245.554 1.58 10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 27.98 28 1008	1	2688.443	98.461	6.10
10 6586.966 299.23 6.69 11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 27.98	1	1748.609	43.863	2.91
11 1623.918 121.259 14.76 12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 27.98 28 100838.249 79968.736 28.13 <t< td=""><td>9</td><td>18378.365</td><td>3245.554</td><td>1.58</td></t<>	9	18378.365	3245.554	1.58
12 10716.56 1940.276 17.13 13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31	10	6586.966	299.23	6.69
13 8990.694 952.113 9.92 14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 8336.75 32.99 32	11	1623.918	121.259	14.76
14 5015.167 253.041 4.03 15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 </td <td>12</td> <td>10716.56</td> <td>1940.276</td> <td>17.13</td>	12	10716.56	1940.276	17.13
15 10567.098 292.665 3.95 16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23	13	8990.694	952.113	9.92
16 2979.524 127.89 2.81 17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	14	5015.167	253.041	4.03
17 11298.865 290.961 9.94 18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	15	10567.098	292.665	3.95
18 2843.337 128.559 3.48 19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	16	2979.524	127.89	2.81
19 1463.78 1316.461 2.95 20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	17	11298.865	290.961	9.94
20 3405.946 3217.385 16.68 21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	18	2843.337	128.559	3.48
21 1263.72 1362.921 11.97 22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	19	1463.78	1316.461	2.95
22 8501.279 1609.72 16.43 23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	20	3405.946	3217.385	16.68
23 15734.201 8512.05 18.63 24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	21	1263.72	1362.921	11.97
24 22382.064 1142.153 6.75 25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	22	8501.279	1609.72	16.43
25 8022.745 4038.881 24.02 26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	23	15734.201	8512.05	18.63
26 214.089 143.234 4.66 27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	24	22382.064	1142.153	6.75
27 42549.385 41055.987 2798 28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	25	8022.745	4038.881	24.02
28 100838.249 79968.736 28.13 29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	26	214.089	143.234	4.66
29 3202.302 15437.926 19.35 30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	27	42549.385	41055.987	2798
30 122467.941 120040.499 38.12 31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	28	100838.249	79968.736	28.13
31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	29	3202.302	15437.926	19.35
31 204609.013 83336.75 32.99 32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	1	122467.941	120040.499	38.12
32 22382.064 1142.153 6.23 33 79268.666 32672.927 25.57	1	204609.013	83336.75	32.99
33 79268.666 32672.927 25.57		22382.064		
	1 -			
34 755.719 1187.952 15.46	34	755.719	1187.952	15.46

Table 10: Total time taken (in milliseconds) by AVMo and AVMc for RnL case study

CN	AVMo	AVMc (inc. seed time)	Seed time for AVMc
1	1259.242	322.613	3.42
2	452.444	434.811	4.37
3	173.173	132.044	1.35
4	8705.456	7094.592	9.65
5	607.999	250.69	3.02
6	268.78	198.783	2.14
7	9388.842	8573.249	20.02
8	861.53	835.903	11.17
9	361.688	306.798	2.04
10	236.736	230.686	1.89

Table 11: Total time taken (in milliseconds) by AVMo and AVMc for SM case study $_$

CN	AVMo	AVMc (inc. seed time)	Seed time for AVMc
1	1579.76	1054.326	11.54
2	106831.818	24367.141	34.88
3	16857.24	13459.406	23.16
4	3539.63	2145.803	15.54
5	22176.187	3115.784	15.06
6	1365.426	890.887	9.98
7	3979.318	3297.637	13.73
8	4191.864	4037.774	18.37
9	8422.947	2453.477	12.51
10	767.544	361.106	2.38