

Table 1

ML IDS performance test results without minimization.  
(*mimikatz* was used as obfuscated test malware)

iteration	RPS (ms)	Latency (ms)	Throughroup (mbit/s)	htop (CPU core utilization, %)				RAM (utilization, %)
				I	II	III	IV	
0.	3,10235485	20,32562875	11	18	12	12	2	10
1.	4,30236587	21,12365852	15	17	17	17	5	13
2.	4,23256458	12,20357468	14	11	18	18	2	16
3.	3,23528745	23,15285645	13	16	12	12	3	12
4.	5,02325478	20,32562875	15	14	18	18	1	14
5.	5,03256481	21,12365852	15	15	17	18	2	15
6.	4,23215641	20,32654561	12	18	12	12	3	12
7.	4,36287546	22,35645654	11	18	12	12	2	11
8.	3,26548752	22,03201235	10	17	17	17	3	12
9.	6,35287546	21,23202321	12	11	18	18	4	11
10.	3,25648751	20,23658287	16	16	12	12	4	10
11.	7,23562542	12,20357468	14	14	18	18	1	11
12.	6,12365487	23,15285645	16	15	17	18	2	13
13.	4,23215641	24,35823654	12	18	12	20	3	12
14.	4,36287546	25,12352014	11	17	17	12	2	12
15.	4,23215641	24,23582545	13	16	12	12	3	15
16.	4,36287546	12,20357468	15	18	18	18	2	12
17.	3,25648751	24,35823654	15	17	17	20	2	14
18.	7,23562542	25,12352014	12	14	18	18	4	14
19.	6,12365487	24,23582545	11	12	18	18	5	11

Table 2

ML IDS performance test results with minimization  
(*mimikatz* was used as obfuscated test malware)

iteration	RPS (ms)	Latency (ms)	Throughroup (mbit/s)	htop (CPU core utilization, %)				RAM (utilization, %)
				I	II	III	IV	
0.	1,23254565	1,23654787	24	10	16	8	2	31
1.	2,32156478	2,03214568	20	11	17	10	3	32
2.	3,12305654	2,35648712	20	7	10	16	3	34
3.	2,32565874	1,23564721	28	2	10	14	2	32
4.	3,12032457	2,34564658	24	8	8	11	3	34
5.	2,12365478	1,23654787	23	11	2	10	5	31
6.	1,03241236	1,35465231	24	12	8	2	3	30
7.	1,02356542	1,02356542	22	2	8	15	4	31
8.	2,34564658	1,32565487	27	10	12	11	5	30
9.	1,23654787	2,35682785	12	7	7	11	2	29
10.	2,34564658	2,12365445	21	7	10	2	3	31
11.	1,23654787	2,65487123	26	2	11	7	3	29
12.	3,12365211	1,02356542	23	2	8	15	5	30
13.	2,34564658	1,32565487	22	8	2	10	3	31
14.	1,23654787	1,03241236	27	7	7	11	4	30
15.	2,03214568	7,65487826	12	7	10	2	5	29
16.	2,35648712	2,12325428	22	2	11	7	2	31
17.	1,23564721	1,23654787	29	11	2	10	3	29
18.	2,34564658	2,03214568	22	12	10	8	2	34
19.	1,23547821	2,35648712	26	10	12	9	1	32