

Table 1

ML IDS performance test results without minimization.
(dyre 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.	2,56898741	21,20324568	15	16	24	26	3	17
1.	2,35648796	19,23654789	17	18	21	24	4	16
2.	1,36985214	20,32565878	16	17	20	20	2	18
3.	2,35648798	18,32658987	12	14	23	20	9	14
4.	2,36547987	20,32568521	11	16	25	21	4	11
5.	1,98753012	21,32569875	19	18	20	19	6	16
6.	1,86023014	21,35698524	20	18	14	18	2	17
7.	2,35648975	20,34895645	17	17	16	22	7	15
8.	1,32654897	19,35678954	18	14	17	26	5	13
9.	2,35648987	19,01235987	13	19	19	24	6	15
10.	1,23598945	18,23658756	18	22	22	21	1	17
11.	2,35795123	20,35987654	16	16	24	23	3	15
12.	1,30012356	19,12359563	11	17	26	25	5	16
13.	2,32654898	20,15658974	18	18	19	26	6	14
14.	2,36987501	20,36987564	16	16	22	21	4	18
15.	2,35795123	19,13658524	17	18	29	20	8	16
16.	1,23548971	20,35689564	21	17	24	24	6	19
17.	1,98764523	19,23657895	26	15	22	26	8	17
18.	2,35648979	19,13658565	18	14	26	25	7	11
19.	2,01235648	20,16895645	19	16	24	22	7	15

Table 2

ML IDS performance test results with minimization
(dyre 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.	0,35648756	8,12365874	24	10	12	8	3	32
1.	0,12354789	6,56856489	27	11	14	7	5	34
2.	0,14753698	5,69568465	25	9	16	9	7	35
3.	1,23654878	8,35795145	24	10	11	8	5	32
4.	0,12565488	5,64598756	22	11	12	8	3	31
5.	0,65487954	8,46589878	29	13	14	9	4	30
6.	0,12355648	7,65895423	25	15	16	11	9	28
7.	1,23698754	8,64597456	24	10	12	12	5	29
8.	2,36549811	7,56548654	20	8	10	7	4	30
9.	1,23545687	6,59862546	20	9	11	8	5	34
10.	0,23589791	5,65456854	28	10	8	10	4	29
11.	0,35795648	8,65486548	24	12	9	12	5	24
12.	0,35468532	7,45657895	23	15	11	12	5	23
13.	0,16548978	7,58987898	22	11	10	11	6	31
14.	0,35648971	8,64856584	27	12	7	16	7	30
15.	0,35695465	7,55648652	19	10	9	8	5	35
16.	1,35698562	9,65485651	21	11	11	14	4	33
17.	0,36548978	4,36548987	26	10	11	12	5	34
18.	0,35987564	7,64825648	24	11	13	11	5	32
19.	0,32654894	7,01265874	22	13	11	10	2	29