Table 1

ML IDS performance test results without minimization.
(*athena* 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.	4,12565456	34,73654568	27	17	16	14	3	21
1.	3,83256458	33,46545654	32	14	14	17	6	26
2.	3,74563214	32,74563285	21	16	16	19	4	24
3.	4,25632145	33,63164853	23	18	18	15	8	28
4.	4,34987564	34,83791465	25	17	19	16	9	26
5.	3,96548954	34,86482465	29	16	21	17	5	21
6.	4,02565478	35,76482564	31	13	19	19	6	25
7.	3,43245611	36,34686542	24	11	17	18	3	26
8.	3,40123546	37,66482654	29	14	15	17	4	24
9.	3,83265498	38,43158945	23	11	16	17	7	24
10.	4,23564898	33,63485645	34	14	14	18	8	26
11.	4,33256545	39,72321562	28	11	15	19	9	19
12.	4,42314565	32,62126456	34	16	13	16	8	18
13.	4,13564895	33,92321256	29	18	14	14	9	17
14.	3,84565456	37,62321456	22	18	12	18	3	15
15.	3,68532156	36,52258546	29	11	15	16	4	16
16.	3,54982564	38,64976463	30	17	14	15	5	18
17.	3,72321456	37,94976521	34	15	15	17	5	16
18.	4,13546589	37,61973648	28	13	11	17	4	14
19.	4,36548987	38,64976523	35	10	16	18	9	18

Table 2

ML IDS performance test results with minimization
(*athena* 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.	2,12256489	1,43654562	15	8	9	9	3	32
1.	2,34564523	1,12301232	16	7	10	8	8	34
2.	1,61597564	1,50123214	17	9	13	9	7	38
3.	1,44562156	1,61232565	18	11	9	7	8	39
4.	1,91564856	1,82331232	13	10	11	11	9	34
5.	2,62564879	1,80232145	12	8	7	9	5	35
6.	2,74565231	1,60232145	14	16	9	12	6	29
7.	1,60321564	1,52032145	16	9	12	8	10	28
8.	1,94156545	1,12312356	15	11	10	10	8	30
9.	2,34565456	1,83245623	11	15	8	11	5	31
10.	2,84896542	1,41598745	13	10	10	13	6	28
11.	4,61203212	1,83201232	15	16	12	9	7	29
12.	1,21023215	1,70321562	10	12	10	11	8	41
13.	2,52321456	1,52032156	18	13	8	10	9	44
14.	1,15123545	1,41023156	16	17	16	9	9	45
15.	1,26541232	2,60321564	17	10	11	8	8	37
16.	2,32121825	1,30321564	15	12	10	12	7	34
17.	1,62321456	1,50325621	16	11	12	14	9	35
18.	1,73201232	1,81236523	14	10	12	11	6	30
19.	2,42002123	1,70321564	11	8	10	10	8	32