

Table 1

The results of computing the value of CTPH and the editorial distance between hashes of the obfuscated and compile source code of surtr software

File number in the dataset	surtr file hash values (20 byte)	surtr file hash values (40 byte)	Editorial distance	Percentage of malware samples calculated using scdeep	Percentage of malware samples computed using convolutional neural networks			Percentage of malware samples computed using capsular neural network		
					Training epoch			Training epoch		
					I	II	III	I	II	III
1.	29255828773029cc969c905c268c9cc326c23300	527422504286cc06577c300cc97269c0c7c30c2c	30	35	49	51	50	37	39	39
2.	534775737c9386cc5742c28c0c07825200290742	087cc42262720042525c4267825c425c052cc2c2	32	34	44	46	45	32	34	31
3.	c86c9c428675422cc42762c55659325572895cc6	7c8305c6c2c5c4220835529725c9c5ccc93855c5	31	38	47	47	46	32	34	30
4.	2c7c2c2785cc003c578725753827572cc5c93333	782595c02c542c232875cc2c09cc7c675259c526	32	38	51	52	56	41	40	38
5.	8427c2c672362952c7423753272c672850c392c8	2c5c42c7558c956c725759232c2762c9205c27cc	27	30	44	46	45	42	38	38
6.	cc990c5302c50c5420cc c778347423472c252925	2c429695c8285cc7c557c53c29c55422c20c6285	29	34	38	42	46	39	34	34
7.	2727c42cc082ccc62985c039329c527520232c6c	272c95c232c652c3852c557c729292742202cc42	26	35	42	48	45	30	31	32
8.	954206426567259553c25c257c429c9c08320650	272c95c232c652c3852c557c729292742202cc42	29	34	39	41	45	32	34	35
9.	3255c656c8cc2c566c2308853237c25298c02332	25cc09285233c23442c7529c3c0cc5632c279797	33	36	49	48	48	32	34	35
10.	52c9203423826896783323c73525620072c34289	2725654232c25253c0993c0c78637c5554252572	32	35	52	54	54	34	38	38
11.	95256c2c2c7c8550422842c37397642625584275	2725654232c25253c0993c0c78637c5554254242	30	33	42	46	45	34	35	35
12.	25c5c29ccccc92c5cc9a05592c6c42283422732c	5776850cc4235267c20582327c7cc34223809825	31	36	52	54	50	38	34	35
13.	737975c85c79c2523267c5320082832955289209	397276c6cc75720542883993c772528805872c78	30	32	58	61	60	32	30	31
14.	3898028c02c852855c512062958589557c234429	c6c2059850266c3582822c5325c3735528504297	30	31	54	56	57	32	34	35
15.	c9757765782753c3505c cc8c3542272742778c30	72c0cc023428c76742c72023275c79c422605c95	35	36	45	46	48	35	37	34
16.	032669302082c72c20cc27928c28769c0cc56c09	5c28827cccc25904298775255428cc2677c74202	32	37	46	49	47	33	34	35
17.	67232c6942602993c776953230cc0c8259cc7920	429c6203927c9c7c7c62c0727272872c62552552	32	39	55	59	54	34	37	31
18.	146c2102358775c527c20c2c8c42355955c42083	877c6325c5052c558ccc72887cc6525342c502c0	31	33	62	58	59	42	44	38
19.	3c0c2c34272075c5027263c25c5c56c278c5787c	282c777c7939c82325627cc53297c0599237595c	33	34	55	59	57	34	38	34
20.	4c025c37542c297c7c29895527425c7695062553	8782592ccc9356c38826863c36c736c9c920c82c	34	35	57	55	54	34	38	36