

**Appendix B: SDKs ranked by TAR @ FAR 0.01% for each dataset.**

DOS-C				DHS2-C			
RI		LI		RI		LI	
R	99.13	R	97.64	I	98.17	I	98.49
I	98.91	H	97.41	R	97.68	R	97.97
H	98.89	I	97.17	H	97.37	F	97.45
O	98.80	O	97.02	O	97.11	H	97.31
Q	98.61	Q	96.69	F	97.06	Q	97.17
P	98.04	P	95.79	Q	96.61	O	96.80
F	97.62	F	95.32	J	96.56	J	96.16
J	97.05	J	94.40	G	96.56	G	96.16
G	96.91	G	93.91	P	95.60	D	95.72
C	96.39	D	93.53	D	95.30	P	95.37
D	96.01	C	93.13	N	92.71	C	91.03
K	94.24	K	89.86	C	90.86	N	90.78
N	94.01	N	88.96	K	88.67	K	88.17
B	91.03	B	84.27	L	80.98	L	80.13
L	87.80	L	81.43	VTB	79.45	VTB	77.63
A	87.63	A	78.09	B	74.99	B	74.07
VTB	83.20	VTB	75.68	A	52.39	A	50.05
E	79.18	E	67.81	E	40.33	E	41.04
M	71.06	M	51.55	M	23.77	M	19.84
AVG	92.87		87.88		83.80		83.23

VISIT_POE				VISIT_POE_BVA			
RI		LI		RI		LI	
R	98.94	R	98.78	R	99.63	R	98.79
H	98.92	H	98.69	I	99.50	H	98.70
O	98.72	I	98.55	H	99.40	I	98.62
I	98.68	O	98.30	O	99.21	O	98.42
F	98.30	P	97.74	F	98.89	Q	97.94
P	98.21	F	97.53	P	98.69	P	97.66
Q	97.76	Q	97.22	Q	98.68	F	97.66
J	97.48	J	96.81	J	98.22	J	97.12
D	97.46	G	96.27	G	98.18	G	96.31
C	97.39	C	96.16	D	97.99	D	96.25
G	96.91	D	96.12	C	97.63	C	95.87
N	95.46	N	94.37	N	96.18	N	94.34
K	94.92	K	92.87	K	95.64	K	92.63
L	89.88	L	87.58	L	91.22	L	87.26
A	87.80	B	84.61	A	89.44	B	83.02
VTB	83.66	A	82.18	B	88.17	A	82.28
M	78.68	VTB	81.18	VTB	82.95	VTB	78.10
E	73.75	E	70.57	E	76.56	E	69.56
B	NA	M	69.78	M	59.60	M	45.00
AVG	93.50		91.33		92.94		89.76

<b>BEN</b>							
<b>RT</b>		<b>LT</b>		<b>RI</b>		<b>LI</b>	
H	99.65	H	99.58	H	99.07	H	98.19
R	99.54	R	99.39	R	98.97	R	97.78
I	99.52	I	99.34	O	98.70	O	97.46
O	99.40	J	99.16	I	98.62	I	97.29
J	99.36	Q	99.04	P	98.17	J	96.32
F	99.23	O	99.03	F	97.93	Q	96.29
Q	99.21	F	98.90	J	97.84	P	96.27
P	99.16	G	98.86	Q	97.78	F	96.07
G	98.93	P	98.55	G	97.36	G	95.28
C	98.81	D	97.98	D	96.45	D	94.24
D	98.75	C	97.79	C	96.36	N	94.13
N	98.19	N	97.39	N	96.32	C	93.31
K	98.18	K	97.00	K	94.79	K	91.15
L	97.81	L	96.78	L	91.82	L	88.54
VTB	96.20	VTB	94.67	A	90.86	A	84.76
A	96.08	A	92.04	VTB	88.54	VTB	83.21
B	93.30	B	90.00	B	86.20	B	79.85
M	93.09	M	88.96	E	72.72	E	63.36
E	91.48	E	87.63	M	36.13	M	34.02
AVG	97.68		96.43		91.30		88.29

<b>DHS10</b>							
<b>RT</b>		<b>LT</b>		<b>RI</b>		<b>LI</b>	
R	98.27	R	97.98	R	95.68	H	95.80
I	97.78	I	97.89	H	95.60	R	95.55
H	97.73	H	97.75	O	94.84	O	94.99
O	97.12	O	96.67	I	94.63	I	94.29
J	96.67	Q	96.57	J	92.93	J	91.95
Q	96.61	J	96.52	F	92.30	Q	91.86
F	96.44	F	96.20	P	92.25	P	91.75
G	96.09	G	95.55	Q	91.97	F	90.86
D	95.27	D	94.55	G	90.67	G	89.91
P	95.23	P	94.49	D	89.65	D	88.90
C	92.44	N	90.96	N	89.32	N	87.97
N	91.70	L	90.53	C	87.91	C	86.34
L	91.50	K	90.51	K	87.36	K	86.25
K	89.59	C	90.05	L	79.88	L	79.18
VTB	83.98	VTB	83.99	A	77.49	A	74.07
E	78.89	E	75.33	VTB	73.70	VTB	73.51
A	77.19	A	74.80	B	72.04	B	68.57
M	67.22	M	64.89	E	59.33	E	57.15
B	66.31	B	62.97	M	33.79	M	33.65
AVG	89.79		88.85		83.75		82.77

TXDPS							
RT		LT		RI		LI	
R	99.21	R	99.03	R	98.67	R	98.25
H	99.11	H	98.82	H	98.40	H	98.02
I	98.90	I	98.46	O	98.16	O	97.56
O	98.65	Q	98.32	I	98.14	I	97.36
J	98.56	O	98.17	J	97.75	J	96.95
G	98.11	J	98.04	Q	97.26	Q	96.32
P	97.75	G	97.28	P	97.10	P	95.85
Q	97.26	P	96.75	G	96.70	G	95.85
F	97.07	F	95.53	F	96.43	F	95.07
D	95.89	N	94.38	N	95.92	N	94.67
N	95.65	D	93.85	D	95.11	C	93.89
L	94.98	L	93.45	C	95.10	D	93.75
K	94.92	K	93.44	K	94.64	K	93.68
VTB	89.96	VTB	88.59	L	89.40	L	87.36
E	83.60	C	83.84	A	87.48	VTB	84.64
C	83.00	E	79.62	VTB	86.01	A	81.16
A	81.64	A	77.88	B	81.65	B	76.36
M	66.61	M	67.58	E	76.32	E	71.32
B	61.57	B	62.72	M	46.63	M	46.50
AVG	91.18		90.30		90.89		89.19

<b>OHIO_P2P</b>									
<b>RT</b>		<b>RI</b>		<b>RM</b>		<b>RR</b>		<b>RL</b>	
R	99.89	R	99.83	Q	99.77	Q	99.30	H	99.09
I	99.89	H	99.83	H	99.77	R	99.23	R	99.06
H	99.89	O	99.77	R	99.72	I	99.17	I	98.91
F	99.83	Q	99.71	I	99.67	H	99.03	O	98.87
O	99.77	I	99.71	O	99.65	F	98.80	P	98.51
Q	99.71	F	99.66	F	99.54	O	98.63	F	98.31
D	99.61	P	99.60	P	99.49	P	98.23	Q	98.23
J	99.59	D	99.52	J	98.96	J	97.81	D	96.37
G	99.57	G	99.49	D	98.79	D	97.72	J	95.25
P	99.49	J	99.31	G	98.55	C	97.35	G	94.69
C	99.43	C	99.09	C	98.28	G	97.27	C	94.49
L	99.19	K	98.59	N	96.68	N	94.95	K	93.21
K	98.25	N	97.96	K	96.41	K	94.87	N	93.13
N	97.99	A	97.57	L	96.21	L	94.44	L	85.12
A	97.73	L	97.47	A	94.03	B	90.12	B	82.19
VTB	95.99	VTB	94.81	VTB	91.16	VTB	89.14	A	81.11
B	94.68	E	87.53	B	91.12	A	88.27	VTB	80.77
E	93.82	M	37.23	E	86.08	E	82.76	E	68.78
M	92.78	B	NA	M	42.13	M	35.73	M	21.38
AVG	98.27		94.82		94.00		92.25		88.29

<b>OHIO_P2P</b>									
<b>LT</b>		<b>LI</b>		<b>LM</b>		<b>LR</b>		<b>LL</b>	
R	99.89	R	99.71	R	99.53	R	99.13	H	98.68
O	99.89	H	99.71	H	99.38	H	99.07	O	98.40
I	99.89	O	99.66	I	99.37	I	99.03	R	98.33
H	99.89	I	99.66	Q	99.31	Q	98.97	Q	97.88
F	99.89	Q	99.60	O	99.14	O	98.74	I	97.71
D	99.81	P	99.49	F	99.09	F	98.58	P	97.19
Q	99.77	F	99.37	P	98.86	P	98.16	F	96.59
G	99.66	C	99.14	J	98.28	D	97.87	D	94.59
P	99.60	G	99.08	D	97.95	J	97.34	J	94.25
J	99.60	J	98.88	G	97.94	C	96.79	G	92.61
C	99.14	D	98.74	C	97.88	G	96.77	C	90.95
L	99.04	N	98.26	K	95.96	K	93.64	K	90.72
K	98.47	K	98.25	N	95.79	N	93.51	N	89.38
N	97.89	L	96.55	L	95.09	L	92.96	L	79.81
VTB	95.02	A	95.99	A	92.54	VTB	88.27	B	78.05
A	94.00	VTB	95.17	VTB	90.49	A	87.38	A	76.04
B	91.62	B	93.48	B	88.22	B	86.56	VTB	75.90
E	91.05	E	87.94	E	82.62	E	81.47	E	64.32
M	89.23	M	42.89	M	36.76	M	34.37	M	12.48
<i>AVG</i>	<i>97.54</i>		<i>94.82</i>		<i>92.85</i>		<i>91.51</i>		<i>85.47</i>

<b>OHIO_P2R</b>									
<b>RT</b>		<b>RI</b>		<b>RM</b>		<b>RR</b>		<b>RL</b>	
R	99.89	H	99.81	R	99.71	R	99.18	H	98.79
I	99.85	I	99.77	H	99.70	H	99.16	O	98.57
H	99.73	R	99.71	I	99.58	Q	99.14	R	98.44
Q	99.71	O	99.61	Q	99.54	I	99.08	I	98.38
F	99.70	Q	99.57	O	99.43	O	98.74	Q	98.12
O	99.49	P	99.37	P	99.26	F	98.36	P	97.92
D	99.39	F	99.37	F	99.18	P	97.89	F	97.05
G	99.30	D	99.12	G	98.56	D	97.80	J	96.15
J	99.22	C	99.07	J	98.54	J	97.53	D	95.55
P	98.86	G	98.99	D	98.48	C	97.04	G	95.15
L	98.82	J	98.79	C	98.42	G	96.99	C	94.90
C	98.29	N	98.56	L	97.84	L	95.28	N	92.43
K	97.88	K	98.09	N	97.32	N	95.09	K	90.07
N	97.42	L	97.46	K	96.10	K	94.19	L	87.97
VTB	93.44	A	95.98	A	93.48	A	86.01	A	80.01
A	93.02	VTB	90.21	VTB	87.76	B	83.19	B	77.24
E	91.39	E	85.88	B	87.40	VTB	82.52	VTB	73.25
B	88.82	M	63.61	E	86.12	E	81.27	E	70.90
M	88.45	B	NA	M	64.84	M	50.89	M	30.07
AVG	96.98		95.72		94.80		92.07		87.95



<b>OHIO_P2R</b>									
<b>LT</b>		<b>LI</b>		<b>LM</b>		<b>LR</b>		<b>LL</b>	
I	99.81	H	99.66	H	99.62	R	98.88	R	98.86
R	99.77	R	99.60	R	99.54	Q	98.86	H	98.71
H	99.70	I	99.54	Q	99.49	I	98.79	Q	98.45
F	99.64	O	99.42	I	99.48	H	98.75	O	98.29
Q	99.54	Q	99.26	P	99.14	O	97.97	I	98.10
G	99.39	P	99.26	O	99.14	F	97.59	P	97.39
J	99.30	F	99.12	F	98.84	P	96.87	F	96.03
D	99.19	J	99.00	D	98.40	D	96.70	J	94.42
O	99.14	G	98.81	C	98.33	J	96.58	D	94.39
C	98.71	D	98.74	J	98.23	C	95.85	C	93.92
P	98.69	C	98.63	G	97.97	G	95.82	G	93.61
L	98.53	N	97.98	N	96.84	N	93.07	N	91.32
K	97.42	K	97.88	K	96.21	L	92.19	K	89.25
N	97.37	L	96.81	L	96.19	K	92.00	L	84.42
VTB	91.90	A	95.46	A	91.41	A	83.51	A	76.25
A	90.70	VTB	90.28	VTB	86.88	E	78.89	B	73.72
E	88.94	B	88.91	E	84.38	B	77.91	E	68.72
B	84.99	E	85.37	B	84.09	VTB	77.41	VTB	66.76
M	83.54	M	59.55	M	53.78	M	49.18	M	28.93
<i>AVG</i>	<i>96.12</i>		<i>94.91</i>		<i>93.58</i>		<i>90.36</i>		<i>86.40</i>

<b>SD29_P2P</b>											
<b>RT</b>		<b>LT</b>		<b>RI</b>		<b>LI</b>		<b>RM</b>		<b>LM</b>	
R	100.0	Q	100.0	O	99.44	H	98.33	R	98.89	R	99.44
Q	100.0	R	99.44	R	98.33	I	97.27	H	98.33	O	98.37
J	99.44	I	99.44	H	98.33	R	97.22	P	97.78	I	98.33
H	99.44	H	99.44	J	97.78	P	97.22	O	97.22	H	98.33
O	98.89	P	98.33	P	96.67	O	97.22	I	97.22	J	97.22
I	98.89	O	98.33	I	96.25	Q	96.25	Q	96.11	Q	96.81
P	98.33	J	98.33	F	94.72	F	94.44	J	95.84	P	96.67
G	98.33	G	97.78	D	94.03	C	94.44	K	95.06	G	96.11
C	98.33	F	97.78	Q	93.97	K	94.03	G	94.03	F	95.42
F	96.39	N	97.22	N	93.41	J	94.03	F	93.89	D	92.82
D	95.84	D	95.60	C	93.33	D	92.99	C	93.89	K	92.78
N	95.00	C	95.00	G	92.30	N	92.22	N	93.33	C	92.22
L	92.22	L	92.36	K	90.56	G	91.67	D	90.84	N	89.83
A	92.22	A	90.28	L	85.70	L	84.58	A	85.00	L	85.87
K	90.56	M	89.44	A	79.76	A	80.28	L	82.78	A	81.15
M	89.44	K	89.37	B	78.33	VTB	80.08	VTB	79.49	VTB	77.61
B	86.11	B	83.33	VTB	75.04	B	72.92	B	77.36	B	76.25
E	81.32	VTB	78.97	E	61.67	E	64.17	E	61.81	E	61.11
VTB	76.67	E	77.78	M	24.44	M	28.47	M	33.89	M	23.89

<b>SD29_P2R</b>											
<b>RT</b>		<b>LT</b>		<b>RI</b>		<b>LI</b>		<b>RM</b>		<b>LM</b>	
R	100.0	R	99.17	R	99.35	O	98.61	H	99.58	H	99.44
H	99.86	H	98.75	H	99.31	H	98.61	R	99.31	R	99.31
I	99.72	I	98.65	O	99.03	I	98.28	I	98.89	Q	99.17
Q	99.44	Q	98.61	I	98.73	R	97.92	O	98.75	I	99.03
O	99.31	O	98.61	P	97.87	P	97.36	Q	98.33	O	98.96
G	98.98	J	98.19	Q	97.78	Q	96.67	J	97.92	J	98.50
J	98.89	G	97.85	J	97.29	J	95.75	F	97.81	F	97.53
F	98.75	P	97.78	F	96.26	F	95.70	G	97.50	G	96.85
D	98.46	F	97.52	G	96.25	K	94.62	P	97.36	P	96.67
P	98.19	D	96.68	N	94.63	G	94.44	K	96.03	D	95.42
N	96.60	N	95.28	D	94.29	N	93.75	C	95.97	K	94.58
C	96.39	C	94.58	K	93.04	D	93.32	D	95.89	N	94.17
K	95.42	K	94.28	C	92.78	C	93.06	N	95.83	C	94.03
L	94.17	L	93.19	A	86.94	L	83.09	A	90.69	L	88.99
VTB	89.21	VTB	87.73	L	86.54	A	82.50	L	88.28	A	85.64
A	87.10	A	85.28	VTB	78.83	VTB	78.91	VTB	83.84	VTB	81.48
M	83.69	M	82.76	B	77.42	B	74.03	B	80.83	B	75.14
E	82.50	E	79.60	E	66.03	E	66.87	E	71.77	E	68.44
B	76.53	B	76.20	M	46.26	M	42.69	M	49.03	M	43.66

SD29_R2R											
RT		LT		RI		LI		RM		LM	
R	100.0	R	100.0	R	100.0	O	100.0	R	100.0	R	100.0
Q	100.0	Q	100.0	O	100.0	J	100.0	Q	100.0	P	100.0
O	100.0	H	100.0	I	100.0	I	100.0	O	100.0	O	100.0
K	100.0	G	99.73	H	100.0	H	100.0	I	100.0	I	100.0
I	100.0	J	99.44	Q	99.44	G	99.49	H	100.0	H	100.0
H	100.0	I	99.44	G	99.44	R	99.44	L	99.44	Q	99.44
J	99.44	O	98.89	F	99.44	Q	99.44	G	99.44	G	99.44
G	99.44	F	98.89	P	98.89	P	98.89	F	99.44	J	98.89
P	98.89	D	98.89	J	98.89	F	97.78	P	98.89	F	98.41
N	98.89	P	97.78	D	98.33	D	97.78	J	98.89	L	98.33
L	98.89	L	97.22	C	97.22	K	96.82	D	98.89	C	98.33
F	98.89	K	96.67	N	95.56	N	95.56	K	98.33	K	97.78
D	98.89	N	96.11	K	95.56	L	95.56	C	98.33	D	97.22
C	97.78	C	93.33	L	95.08	C	95.56	N	97.61	N	95.56
VTB	94.72	VTB	91.27	A	93.95	A	90.84	VTB	95.58	A	90.56
A	88.89	A	85.32	VTB	89.45	VTB	88.20	A	93.89	VTB	88.48
M	86.90	M	81.81	M	87.22	B	80.70	M	90.56	M	85.0
E	86.67	E	81.67	E	83.33	M	79.86	E	85.0	E	82.78
B	77.22	B	72.22	B	82.22	E	79.03	B	83.97	B	82.78