## SlapSeg04 Analysis Report

Addendum: Detail for Various Measures of Accuracy

The following tables provide detail corresponding to Figure B-8 in the SlapSeg04 Analysis Report.

## 1 Various Measures of Accuracy (All Data)

The following set of tables shows the percentage of slaps in each dataset, for each segmenter, that contained a given number of fingerprints that matched against rolls above a high threshold ("High") or between high and low thresholds ("Marginal").

Note: in these tables, all true zero values are displayed as "." Values shown as "0.0%" are values less than 0.05% (but greater than 0.0%) that rounded down.

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
12kL	0	0	0.6%	1.5%	0.5%	1.4%	0.9%	0.6%	0.2%	0.3%	2.0%	2.1%	1.4%	0.3%	1.8%	5000
12kL	0	1	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	5000
12kL	0	2	0.0%				0.0%	0.0%	0.0%	0.0%	•		0.0%	0.0%	•	5000
12kL	0	3	0.0%	0.0%	0.0%					0.0%	0.0%		0.0%	0.0%	•	5000
12kL	0	4						0.0%		0.0%	•				•	5000
12kL	1	0	2.8%	1.7%	0.4%	0.0%		0.1%		0.3%	•		0.1%	0.0%	0.0%	5000
12kL	1	1	0.3%	0.3%	0.2%					0.1%	•			0.0%	0.0%	5000
12kL	1	2	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5000
12kL	1	3	0.0%	0.1%	0.1%	0.0%			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5000
12kL	2	0	2.2%	0.4%	0.5%	0.0%	0.0%	0.1%		0.9%	•		0.0%	0.2%	•	5000
12kL	2	1	0.3%	0.4%	0.5%	0.2%	0.1%	0.3%	0.2%	0.3%	0.1%	0.2%	0.2%	0.2%	0.2%	5000
12kL	2	2	0.1%	0.3%	0.3%	0.2%	0.2%	0.1%	0.3%	0.2%	0.3%	0.2%	0.1%	0.1%	0.2%	5000
12kL	3	0	1.1%	2.1%	2.0%	0.6%	0.6%	2.1%	0.5%	1.6%	0.6%	0.6%	0.6%	2.2%	1.6%	5000
12kL	3	1	1.7%	2.3%	2.3%	2.0%	2.0%	1.8%	2.0%	2.3%	1.6%	1.7%	2.0%	2.1%	1.7%	5000
12kL	4	0	90.5%	90.5%	93.1%	95.4%	96.0%	94.8%	96.7%	93.8%	95.2%	95.1%	95.4%	94.6%	94.2%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
12kP	0	0	0.6%	7.0%	1.1%	5.7%	4.2%	2.0%	0.1%	1.4%	13.1%	13.2%	5.6%	2.4%	17.8%	5000
12kP	0	1	0.5%	2.0%	0.5%	0.1%		0.2%	0.1%	0.3%	•	0.0%	0.2%	0.9%	3.8%	5000
12kP	0	2	0.3%	0.6%	0.1%	0.1%	0.0%	0.0%	0.1%	0.1%			0.1%	0.2%	0.8%	5000
12kP	0	3	0.0%	0.1%				0.0%		0.1%	0.0%	0.0%			0.1%	5000
12kP	0	4	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%		5000
12kP	1	0	5.6%	4.3%	0.7%	0.1%		0.4%	0.2%	0.5%	0.0%	0.0%	0.1%	0.2%	0.1%	5000
12kP	1	1	1.6%	2.0%	0.7%	0.1%	0.1%	0.2%	0.1%	0.3%	0.0%		0.1%	0.1%	0.2%	5000
12kP	1	2	0.3%	0.5%	0.4%	0.1%	0.1%	0.3%	0.1%	0.2%	0.1%	0.1%	0.1%	0.3%	0.1%	5000
12kP	1	3	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.3%	0.2%	0.3%	0.3%	0.1%	0.1%	0.1%	5000
12kP	2	0	6.1%	2.9%	1.2%	0.1%	0.1%	0.9%	0.4%	1.5%	0.0%	0.1%	0.2%	0.5%	0.5%	5000
12kP	2	1	1.5%	2.3%	1.6%	0.4%	0.4%	1.4%	0.8%	1.5%	0.4%	0.4%	0.5%	0.9%	0.8%	5000
12kP	2	2	0.8%	0.7%	1.1%	0.9%	0.9%	0.7%	0.9%	1.1%	0.7%	0.6%	1.0%	0.8%	0.5%	5000
12kP	3	0	4.1%	10.5%	6.8%	3.2%	2.7%	13.7%	3.6%	7.7%	1.9%	3.9%	3.3%	9.2%	8.0%	5000
12kP	3	1	5.6%	5.8%	7.6%	6.7%	6.4%	5.2%	7.7%	6.7%	5.6%	6.1%	6.8%	6.6%	5.2%	5000
12kP	4	0	73.1%	61.1%	77.9%	82.4%	84.8%	74.8%	85.6%	78.4%	78.0%	75.3%	82.0%	77.8%	62.0%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BAT	0	0	1.3%	3.4%	1.8%	5.3%	4.8%	1.0%	0.4%	0.6%	4.7%	4.7%	5.3%	0.5%	9.2%	2634
BAT	0	1	0.3%	0.6%	0.9%	0.0%	0.0%	0.0%		0.6%		0.0%	0.1%	0.3%	0.1%	2634
BAT	0	2	0.3%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.3%	0.2%	0.2%	0.1%	0.2%		2634
BAT	0	3	0.2%	0.1%	0.2%	0.1%	0.1%	0.0%	0.2%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	2634
BAT	0	4	0.0%		-	0.0%	0.0%	-	0.1%	0.0%		0.0%	-			2634
BAT	1	0	5.9%	2.5%	1.0%	0.1%	0.1%	0.2%	0.2%	1.0%	0.2%	0.1%	0.1%	0.1%	0.2%	2634
BAT	1	1	1.0%	0.6%	0.3%	0.2%	0.2%	0.4%	0.3%	0.5%	0.2%	0.3%	0.2%	0.5%	0.3%	2634
BAT	1	2	0.3%	0.3%	0.3%	0.2%	0.2%	0.5%	0.3%	0.4%	0.3%	0.3%	0.3%	0.3%	0.1%	2634
BAT	1	3	0.1%	0.1%	0.1%		0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.2%	0.2%	0.1%	2634
BAT	2	0	4.2%	1.5%	1.3%	0.5%	0.4%	0.9%	0.6%	1.4%	0.3%	0.5%	0.6%	0.8%	0.6%	2634
BAT	2	1	1.5%	1.7%	1.4%	1.1%	1.1%	1.1%	1.1%	1.3%	1.0%	0.8%	0.8%	0.9%	0.9%	2634
BAT	2	2	0.7%	0.8%	0.8%	0.6%	0.7%	0.6%	1.1%	0.8%	0.8%	0.8%	0.5%	0.8%	0.5%	2634
BAT	3	0	3.7%	7.7%	5.2%	3.0%	3.2%	6.6%	3.9%	4.8%	2.8%	2.8%	3.3%	4.7%	5.3%	2634
BAT	3	1	4.7%	4.9%	5.4%	5.2%	5.1%	5.0%	5.6%	5.3%	5.5%	5.3%	5.1%	5.2%	4.1%	2634
BAT	4	0	75.9%	75.7%	81.2%	83.5%	83.9%	83.4%	86.1%	82.8%	84.0%	84.1%	83.4%	85.6%	78.6%	2634

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BEN	0	0	0.0%	0.7%	0.2%	0.4%	0.3%	0.1%	0.0%	0.0%	0.4%	0.5%	0.4%	0.2%	1.1%	5000
BEN	0	1	0.0%	0.2%	0.1%				0.0%						0.0%	5000
BEN	0	2		0.1%	0.1%	0.0%	0.0%	0.0%		0.0%				0.0%		5000
BEN	0	3	0.1%	0.2%	0.2%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	5000
BEN	0	4	0.3%	0.3%	0.3%	0.3%	0.4%	0.2%	0.3%	0.4%	0.3%	0.3%	0.3%	0.2%	0.3%	5000
BEN	1	0	1.0%	0.4%	0.2%			0.1%		0.2%					0.0%	5000
BEN	1	1	0.2%	0.2%	0.2%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5000
BEN	1	2	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%		0.0%	0.1%	0.1%	5000
BEN	1	3	0.5%	0.4%	0.5%	0.5%	0.4%	0.4%	0.5%	0.4%	0.5%	0.6%	0.5%	0.5%	0.4%	5000
BEN	2	0	1.0%	0.4%	0.3%	0.0%		0.1%		0.4%				0.1%		5000
BEN	2	1	0.2%	0.4%	0.4%	0.2%	0.1%	0.5%	0.1%	0.3%	0.2%	0.2%	0.2%	0.2%	0.1%	5000
BEN	2	2	1.2%	1.0%	1.0%	0.9%	1.0%	1.0%	1.2%	1.3%	1.0%	1.0%	0.9%	1.0%	1.1%	5000
BEN	3	0	0.4%	1.1%	1.5%	0.3%	0.3%	0.8%	0.4%	0.8%	0.2%	0.2%	0.2%	1.0%	0.3%	5000
BEN	3	1	3.2%	3.8%	3.7%	3.3%	3.5%	3.2%	3.0%	3.8%	3.2%	3.2%	3.4%	3.5%	3.3%	5000
BEN	4	0	91.7%	90.5%	91.2%	93.9%	93.8%	93.3%	94.3%	92.2%	94.1%	94.1%	93.9%	93.0%	93.1%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
II	0	0	3.1%	4.8%	1.6%	13.3%	7.0%	7.7%	2.0%	1.7%	13.5%	13.2%	13.5%	1.6%	16.4%	5000
II	0	1	1.0%	1.1%	0.6%	0.2%	0.1%	0.5%	0.3%	0.7%	0.2%	0.2%	0.2%	0.5%	0.2%	5000
II	0	2	0.1%	0.3%	0.2%	0.0%	0.1%	0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	0.2%	0.1%	5000
II	0	3	0.1%	0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%			0.0%		0.0%	5000
II	0	4	0.0%				0.0%		0.1%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	5000
II	1	0	6.3%	2.5%	1.8%	0.2%	0.1%	1.2%	0.2%	1.1%	0.0%	0.0%	0.1%	0.3%	0.1%	5000
II	1	1	1.7%	1.3%	1.0%	0.3%	0.3%	0.7%	0.4%	0.9%	0.1%	0.1%	0.3%	0.4%	0.2%	5000
II	1	2	0.3%	0.6%	0.6%	0.2%	0.2%	0.3%	0.3%	0.4%	0.2%	0.2%	0.2%	0.4%	0.2%	5000
II	1	3	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.3%	0.1%	0.1%	0.2%	0.2%	0.1%	5000
II	2	0	8.2%	1.7%	1.3%	0.4%	0.4%	2.3%	0.6%	1.6%	0.3%	0.3%	0.4%	0.8%	0.3%	5000
II	2	1	1.9%	1.8%	2.6%	1.4%	1.5%	2.6%	1.9%	2.3%	1.4%	1.4%	1.6%	1.8%	1.4%	5000
II	2	2	0.7%	0.8%	1.1%	0.8%	1.1%	0.7%	1.0%	1.2%	0.8%	0.9%	0.8%	1.0%	0.8%	5000
II	3	0	4.8%	6.5%	6.5%	3.7%	4.0%	12.3%	6.3%	7.4%	3.0%	3.3%	3.6%	6.0%	5.1%	5000
II	3	1	5.1%	6.4%	7.2%	6.7%	6.9%	5.1%	7.6%	7.9%	6.4%	6.4%	6.6%	7.3%	5.3%	5000
II	4	0	66.3%	72.1%	75.2%	72.5%	78.1%	66.4%	79.0%	74.0%	73.9%	73.7%	72.5%	79.6%	69.5%	5000

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
Ohiol	0	0	0.7%	0.3%	0.1%	0.6%	0.4%				0.8%	0.8%	0.6%		1.2%	1850
Ohiol	0	1	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	1850
Ohiol	1	0	2.2%	2.0%	0.2%	0.1%	0.1%	0.2%	0.1%	0.2%	0.1%		0.1%		0.1%	1850
Ohiol	1	1	0.1%	0.2%	0.1%							0.1%		0.1%		1850
Ohiol	2	0	2.7%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	1850
Ohiol	2	1	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%		0.1%			0.1%	0.1%	0.1%	1850
Ohiol	2	2		0.1%	0.1%			0.1%	0.1%		0.1%	0.1%				1850
Ohiol	3	0	0.7%	1.8%	0.9%	0.4%	0.4%	1.3%	0.5%	1.3%	0.2%	0.2%	0.5%	1.1%	2.7%	1850
Ohiol	3	1	0.7%	1.1%	1.2%	0.4%	0.7%	0.5%	0.9%	1.1%	0.8%	0.7%	0.6%	0.8%	1.0%	1850
Ohiol	4	0	92.8%	94.0%	97.0%	98.2%	98.2%	97.8%	98.3%	97.2%	98.0%	98.1%	98.1%	97.8%	94.7%	1850

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
TX	0	0	1.7%	9.3%	3.9%	6.2%	5.6%	1.5%	0.3%	4.3%	8.1%	11.4%	6.3%	1.8%	9.7%	5000
TX	0	1	0.7%	3.0%	1.4%	0.1%	0.1%	0.3%	0.0%	1.3%	0.0%	0.1%	0.1%	0.7%	1.5%	5000
TX	0	2	0.3%	0.6%	0.4%		0.0%	0.1%		0.2%				0.1%	0.4%	5000
TX	0	3	0.1%	0.2%	0.0%	0.0%		0.0%	0.0%	0.1%		0.0%	0.0%	0.0%	0.0%	5000
TX	0	4	0.0%		0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%			5000
TX	1	0	6.6%	4.3%	1.3%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%		0.1%	0.2%	0.1%	5000
TX	1	1	2.0%	1.7%	0.6%	0.1%	0.0%	0.1%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.1%	5000
TX	1	2	0.3%	0.5%	0.3%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.2%	5000
TX	1	3	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	0.1%	5000
TX	2	0	6.1%	2.3%	1.3%	0.2%	0.1%	0.7%	0.3%	0.8%	0.1%	0.2%	0.2%	0.5%	0.6%	5000
TX	2	1	1.4%	1.8%	1.3%	0.5%	0.5%	0.7%	0.5%	0.7%	0.4%	0.4%	0.5%	0.9%	0.6%	5000
TX	2	2	0.7%	0.6%	0.7%	0.8%	0.6%	1.0%	1.0%	0.7%	0.9%	0.9%	0.8%	0.7%	0.9%	5000
TX	3	0	5.1%	8.2%	7.9%	2.9%	2.8%	13.3%	4.3%	5.5%	2.4%	2.5%	3.0%	5.8%	7.7%	5000
TX	3	1	5.3%	5.3%	6.7%	7.0%	6.5%	5.2%	8.0%	7.3%	6.3%	6.1%	6.5%	7.3%	5.4%	5000
TX	4	0	69.7%	62.1%	73.9%	81.9%	83.5%	76.8%	85.1%	78.1%	81.5%	78.1%	82.1%	81.6%	72.6%	5000

## 2 Various Measures of Accuracy (Excluding Problem Rolls)

The following set of tables shows the same data, but excluding all slaps for which the *rolled* data had serious data errors or exceptionally poor quality.

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Datase
2kL	0	0	0.5%	1.4%	0.4%	1.3%	0.8%	0.5%	0.1%	0.2%	1.9%	2.0%	1.3%	0.3%	1.7%	497
2kL	0	1	0.2%	0.2%	0.1%					0.0%			0.0%	0.0%	0.1%	497
2kL	0	2	0.0%					0.0%		0.0%				0.0%		497
2kL	0	3								0.0%				-		497
2kL	0	4						0.0%		0.0%						497
2kL	1	0	2.8%	1.7%	0.4%	0.0%		0.1%		0.3%			0.0%	0.0%	0.0%	497
2kL	1	1	0.3%	0.3%	0.2%					0.0%				0.0%		497
2kL	1	2	0.1%	0.0%	0.1%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	497
2kL	1	3		0.1%	0.1%	0.0%			0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	497
2kL	2	0	2.2%	0.4%	0.5%	0.0%	0.0%	0.1%		0.9%			0.0%	0.1%		497
2kL	2	1	0.1%	0.2%	0.3%	0.1%	0.0%	0.2%	0.1%	0.2%	0.0%	0.1%	0.1%	0.1%	0.1%	497
2kL	2	2	0.1%	0.3%	0.3%	0.2%	0.2%	0.1%	0.3%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	497
2kL	3	0	1.1%	2.0%	1.8%	0.5%	0.5%	2.0%	0.4%	1.5%	0.5%	0.5%	0.5%	2.1%	1.5%	497
2kL	3	1	1.6%	2.3%	2.3%	1.9%	2.0%	1.7%	1.9%	2.3%	1.5%	1.6%	1.9%	2.1%	1.7%	49
2kL	4	0	90.9%	91.0%	93.5%	95.8%	96.4%	95.3%	97.1%	94.3%	95.7%	95.5%	95.9%	95.1%	94.7%	497
ataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slans in Datas
	High O	Marginal 0	<b>123ID</b>	Aware1	Aware2	Cogent1	Cogent2	IAFIS	<b>NEC</b> 0.1%	NIST	Sagem1	Sagem2	SHB 5.5%	Sonda	UltraScan	•
2kP	0	0	0.6%	6.9%	1.1%	5.6%	<b>Cogent2</b> 3.9%	2.0%	0.1%	1.4%	<b>Sagem1</b> 12.8%	12.9%	5.5%	2.4%	17.8%	49
2kP 2kP	0	0 1	0.6% 0.5%	6.9% 2.0%	1.1% 0.5%	5.6% 0.1%	3.9%	2.0% 0.2%	0.1% 0.1%	1.4% 0.3%			5.5% 0.2%	2.4% 0.9%	17.8% 3.7%	496 496
2kP 2kP 2kP	0 0 0	0 1 2	0.6% 0.5% 0.3%	6.9% 2.0% 0.5%	1.1% 0.5% 0.1%	5.6% 0.1% 0.1%		2.0% 0.2% 0.0%	0.1%	1.4% 0.3% 0.1%	12.8%	12.9% 0.0%	5.5% 0.2% 0.1%	2.4% 0.9% 0.2%	17.8% 3.7% 0.8%	49 49 49
2kP 2kP 2kP 2kP	0 0 0 0	0 1	0.6% 0.5% 0.3% 0.0%	6.9% 2.0% 0.5% 0.1%	1.1% 0.5%	5.6% 0.1%	3.9% 0.0%	2.0% 0.2%	0.1% 0.1% 0.1%	1.4% 0.3% 0.1% 0.1%	12.8%	12.9% 0.0%	5.5% 0.2%	2.4% 0.9%	17.8% 3.7% 0.8% 0.1%	496 496 496 496
2kP 2kP 2kP 2kP 2kP	0 0 0	0 1 2 3 4	0.6% 0.5% 0.3% 0.0%	6.9% 2.0% 0.5% 0.1%	1.1% 0.5% 0.1%	5.6% 0.1% 0.1%	3.9%	2.0% 0.2% 0.0% 0.0%	0.1% 0.1% 0.1% 0.0%	1.4% 0.3% 0.1% 0.1%	12.8%	12.9% 0.0%	5.5% 0.2% 0.1%	2.4% 0.9% 0.2%	17.8% 3.7% 0.8% 0.1%	490 490 490 490 490
2kP 2kP 2kP 2kP 2kP 2kP	0 0 0 0 0	0 1 2 3	0.6% 0.5% 0.3% 0.0%	6.9% 2.0% 0.5% 0.1%	1.1% 0.5% 0.1% 	5.6% 0.1% 0.1% 	3.9% 0.0% 0.0%	2.0% 0.2% 0.0% 0.0%	0.1% 0.1% 0.1% 0.0% 0.2%	1.4% 0.3% 0.1% 0.1%	12.8% 0.0%	12.9% 0.0%	5.5% 0.2% 0.1%	2.4% 0.9% 0.2%	17.8% 3.7% 0.8% 0.1%	49 49 49 49 49
2kP 2kP 2kP 2kP 2kP 2kP 2kP	0 0 0 0	0 1 2 3 4 0	0.6% 0.5% 0.3% 0.0%	6.9% 2.0% 0.5% 0.1%	1.1% 0.5% 0.1%	5.6% 0.1% 0.1%	3.9% 0.0% 0.0%	2.0% 0.2% 0.0% 0.0%	0.1% 0.1% 0.1% 0.0%	1.4% 0.3% 0.1% 0.1%	12.8%	12.9% 0.0%	5.5% 0.2% 0.1%	2.4% 0.9% 0.2%	17.8% 3.7% 0.8% 0.1%	49 49 49 49 49 49
2kP 2kP 2kP 2kP 2kP 2kP 2kP 2kP	0 0 0 0 0 1 1	0 1 2 3 4 0	0.6% 0.5% 0.3% 0.0% 5.5% 1.4%	6.9% 2.0% 0.5% 0.1% 4.3% 1.9% 0.5%	1.1% 0.5% 0.1%  0.7% 0.6% 0.3%	5.6% 0.1% 0.1% 0.1% 0.1%	3.9% 0.0% 0.0% 0.1%	2.0% 0.2% 0.0% 0.0% 0.4% 0.1% 0.2%	0.1% 0.1% 0.1% 0.0% 0.2% 0.1%	1.4% 0.3% 0.1% 0.1% 0.5% 0.3% 0.2%	12.8% 0.0% 0.0% 0.0%	12.9% 0.0% 	5.5% 0.2% 0.1% 0.1% 0.1%	2.4% 0.9% 0.2%  0.2% 0.1% 0.2%	17.8% 3.7% 0.8% 0.1%  0.1% 0.2% 0.1%	49 49 49 49 49 49 49
2kP	0 0 0 0 0 1 1 1	0 1 2 3 4 0 1	0.6% 0.5% 0.3% 0.0% 5.5% 1.4% 0.2%	6.9% 2.0% 0.5% 0.1% 4.3% 1.9% 0.5% 0.1%	1.1% 0.5% 0.1%  0.7% 0.6% 0.3% 0.1%	5.6% 0.1% 0.1% 	3.9% 0.0% 0.0% 0.1% 0.1%	2.0% 0.2% 0.0% 0.0% 0.4% 0.1%	0.1% 0.1% 0.1% 0.0% 0.2% 0.1%	1.4% 0.3% 0.1% 0.1% 0.5% 0.3% 0.2% 0.1%	12.8% 	12.9% 0.0% 0.0% 0.0%	5.5% 0.2% 0.1% 0.1% 0.1%	2.4% 0.9% 0.2% 0.2% 0.1% 0.2%	17.8% 3.7% 0.8% 0.1% 0.1% 0.2% 0.1% 0.1%	490 490 490 490 490 490 490 490 490
2kP	0 0 0 0 0 1 1 1 1 2	0 1 2 3 4 0 1 2 3	0.6% 0.5% 0.3% 0.0% 5.5% 1.4% 0.2% 0.1% 6.1%	6.9% 2.0% 0.5% 0.1%  4.3% 1.9% 0.5% 0.1% 2.9%	1.1% 0.5% 0.1% 0.7% 0.6% 0.3% 0.1% 1.2%	5.6% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	3.9% 0.0% 0.0% 0.1% 0.1% 0.1%	2.0% 0.2% 0.0% 0.0%  0.4% 0.1% 0.2% 0.1% 0.9%	0.1% 0.1% 0.1% 0.0% 0.2% 0.1% 0.2% 0.2% 0.4%	1.4% 0.3% 0.1% 0.1% 0.5% 0.3% 0.2% 0.1% 1.5%	12.8% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0%	12.9% 0.0%  0.0% 0.0%  0.1% 0.2% 0.1%	5.5% 0.2% 0.1%  0.1% 0.1% 0.1% 0.1% 0.2%	2.4% 0.9% 0.2% 0.2% 0.1% 0.2% 0.1% 0.5%	17.8% 3.7% 0.8% 0.1% 0.1% 0.2% 0.1% 0.1% 0.5%	49/ 49/ 49/ 49/ 49/ 49/ 49/ 49/
2kP	0 0 0 0 0 1 1 1 1 2 2	0 1 2 3 4 0 1 2 3 0	0.6% 0.5% 0.3% 0.0% 5.5% 1.4% 0.2% 0.1% 6.1% 1.4%	6.9% 2.0% 0.5% 0.1% 4.3% 1.9% 0.5% 0.1% 2.9% 2.3%	1.1% 0.5% 0.1% 0.7% 0.6% 0.3% 0.1% 1.2% 1.6%	5.6% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1	3.9% 0.0% 0.0% 0.1% 0.1% 0.1% 0.1%	2.0% 0.2% 0.0% 0.0%  0.4% 0.1% 0.2% 0.1% 0.9% 1.3%	0.1% 0.1% 0.0% 0.2% 0.1% 0.1% 0.4% 0.2%	1.4% 0.3% 0.1% 0.1% 0.5% 0.3% 0.2% 0.1% 1.5% 1.4%	12.8% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.2%	12.9% 0.0%  0.0% 0.0%  0.1% 0.2% 0.1% 0.4%	5.5% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.4%	2.4% 0.9% 0.2% 0.2% 0.1% 0.2% 0.1% 0.5% 0.8%	17.8% 3.7% 0.8% 0.1% 0.1% 0.2% 0.1% 0.1% 0.5% 0.7%	49 49 49 49 49 49 49 49
2kP	0 0 0 0 0 1 1 1 1 2	0 1 2 3 4 0 1 2 3 0	0.6% 0.5% 0.3% 0.0% 5.5% 1.4% 0.2% 0.1% 6.1% 1.4% 0.7%	6.9% 2.0% 0.5% 0.1% 4.3% 1.9% 0.5% 0.1% 2.9% 2.3% 0.7%	1.1% 0.5% 0.1%  0.7% 0.6% 0.3% 0.1% 1.2% 1.6% 1.0%	5.6% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1	3.9% 0.0% 0.1% 0.1% 0.1% 0.4% 0.9%	2.0% 0.2% 0.0% 0.0% 0.4% 0.1% 0.2% 0.1% 0.9% 1.3% 0.6%	0.1% 0.1% 0.1% 0.0% 0.2% 0.1% 0.2% 0.4% 0.7% 0.8%	1.4% 0.3% 0.1% 0.1% 0.5% 0.3% 0.2% 0.1% 1.5% 1.4% 1.0%	12.8% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.3% 0.6%	12.9% 0.0% 0.0% 0.0% 0.1% 0.2% 0.1% 0.4% 0.6%	5.5% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.4% 0.9%	2.4% 0.9% 0.2% 0.2% 0.1% 0.2% 0.1% 0.5% 0.8%	17.8% 3.7% 0.8% 0.1% 0.1% 0.2% 0.1% 0.1% 0.5% 0.5%	490 490 490 490 490 490 490 490 490 490
Dataset  2kP  2kP  2kP  2kP  2kP  2kP  2kP  2k	0 0 0 0 0 1 1 1 1 2 2	0 1 2 3 4 0 1 2 3 0 1 2	0.6% 0.5% 0.3% 0.0% 5.5% 1.4% 0.2% 0.1% 6.1% 1.4%	6.9% 2.0% 0.5% 0.1% 4.3% 1.9% 0.5% 0.1% 2.9% 2.3%	1.1% 0.5% 0.1% 0.7% 0.6% 0.3% 0.1% 1.2% 1.6%	5.6% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1	3.9% 0.0% 0.0% 0.1% 0.1% 0.1% 0.1%	2.0% 0.2% 0.0% 0.0%  0.4% 0.1% 0.2% 0.1% 0.9% 1.3%	0.1% 0.1% 0.0% 0.2% 0.1% 0.1% 0.4% 0.2%	1.4% 0.3% 0.1% 0.1% 0.5% 0.3% 0.2% 0.1% 1.5% 1.4%	12.8% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.2%	12.9% 0.0%  0.0% 0.0%  0.1% 0.2% 0.1% 0.4%	5.5% 0.2% 0.1% 0.1% 0.1% 0.1% 0.1% 0.2% 0.4%	2.4% 0.9% 0.2% 0.2% 0.1% 0.2% 0.1% 0.5% 0.8%	17.8% 3.7% 0.8% 0.1% 0.1% 0.2% 0.1% 0.1% 0.5% 0.7%	Slaps in Datas 496 496 496 496 496 496 496 496 496 496

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BAT	0	0	1.1%	2.9%	1.4%	4.6%	4.0%	0.6%	0.3%	0.5%	4.2%	4.2%	4.5%	0.4%	8.3%	2523
BAT	0	1	0.2%	0.4%	0.6%				-	0.3%	•			0.2%		2523
BAT	0	2	0.2%	•	0.0%	·	·	0.0%	0.0%	0.1%	•	÷	0.0%	0.0%	·	2523
BAT	0	3	0.0%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	•	•	0.0%	0.0%	0.0%	2523
BAT	0	4	0.0%	•	•	0.0%	•		0.0%	0.0%		0.0%				2523
BAT	1	0	5.8%	2.5%	0.9%	0.1%	0.1%	0.2%	0.1%	0.9%	0.1%	0.1%	0.1%	0.1%	0.1%	2523
BAT	1	1	0.7%	0.4%	0.1%	0.0%	0.1%	0.0%	-	0.2%		0.0%		0.0%	0.1%	2523
BAT	1	2	0.2%	0.1%	0.1%	0.1%	0.1%	0.3%	0.2%	0.3%	0.2%	0.2%	0.2%	0.3%	0.0%	2523
BAT	1	3	0.0%	0.1%	0.1%		0.0%	0.0%	0.0%	-	0.0%	0.0%	0.1%	0.2%	0.0%	2523
BAT	2	0	4.0%	1.1%	1.0%	0.2%	0.2%	0.4%	0.3%	1.1%	0.1%	0.2%	0.3%	0.3%	0.3%	2523
BAT	2	1	0.9%	1.2%	0.9%	0.6%	0.4%	0.5%	0.6%	0.7%	0.5%	0.3%	0.4%	0.4%	0.5%	2523
BAT	2	2	0.6%	0.6%	0.6%	0.5%	0.6%	0.6%	0.8%	0.7%	0.6%	0.6%	0.3%	0.5%	0.4%	2523
BAT	3	0	2.9%	7.2%	4.4%	2.1%	2.3%	5.7%	2.8%	3.9%	1.8%	1.8%	2.4%	3.7%	4.4%	2523
BAT	3	1	4.3%	4.6%	5.1%	4.8%	4.6%	4.6%	5.1%	4.8%	5.0%	4.9%	4.6%	4.7%	3.8%	2523
BAT	4	0	79.0%	79.0%	84.7%	87.0%	87.4%	87.0%	89.6%	86.2%	87.4%	87.5%	86.9%	89.1%	82.0%	2523
Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
BEN	0	0	0.0%	0.7%	0.2%	Cogent1 0.4%	Cogent2 0.3%	0.1%	0.0%	<b>NIST</b> 0.0%	<b>Sagem1</b> 0.4%	<b>Sagem2</b> 0.5%	<b>SHB</b> 0.4%	Sonda 0.2%	1.1%	4940
BEN BEN	0	0 1	0.0% 0.0%	0.7% 0.2%	0.2% 0.1%	0.4%	0.3%			0.0%	_			0.2%	1.1% 0.0%	4940 4940
BEN BEN BEN	0 0 0	0 1 2	0.0% 0.0%	0.7% 0.2% 0.1%	0.2% 0.1% 0.1%	_	0.3%	0.1%	0.0% 0.0%	0.0%	0.4%	0.5%	0.4%	0.2%	1.1% 0.0%	4940 4940 4940
BEN BEN BEN BEN	0 0 0 0	0 1 2 3	0.0% 0.0% 0.0%	0.7% 0.2% 0.1% 0.1%	0.2% 0.1% 0.1% 0.1%	0.4%	0.3% 0.0% 0.0%	0.1% 0.0%	0.0% 0.0% 0.0%	0.0% 0.0% 0.0%	0.4%	0.5%	0.4%	0.2% 0.0% 0.0%	1.1% 0.0% 0.0%	4940 4940 4940 4940
BEN BEN BEN BEN BEN	0 0 0 0	0 1 2 3 4	0.0% 0.0% 0.0% 0.1%	0.7% 0.2% 0.1% 0.1% 0.1%	0.2% 0.1% 0.1% 0.1% 0.1%	0.4% 0.0%	0.3% 0.0% 0.0% 0.0%	0.1% 0.0% 0.0%	0.0% 0.0%	0.0% 0.0% 0.0% 0.1%	0.4% 0.0% 0.0%	0.5%	0.4%	0.2% 0.0% 0.0% 0.0%	1.1% 0.0% 0.0% 0.1%	4940 4940 4940 4940 4940
BEN BEN BEN BEN BEN BEN	0 0 0 0 0 0	0 1 2 3 4 0	0.0% 0.0% 0.0% 0.1% 1.1%	0.7% 0.2% 0.1% 0.1% 0.1% 0.4%	0.2% 0.1% 0.1% 0.1% 0.1% 0.2%	0.4% 0.0% 0.0%	0.3% 0.0% 0.0% 0.0%	0.1% 0.0% 0.0% 0.1%	0.0% 0.0% 0.0%	0.0% 0.0% 0.0% 0.1% 0.2%	0.4% 0.0% 0.0%	0.5%	0.4% 0.0% 0.1%	0.2% 0.0% 0.0% 0.0%	1.1% 0.0% 0.0% 0.1% 0.0%	4940 4940 4940 4940 4940
BEN BEN BEN BEN BEN BEN	0 0 0 0 0 0 1 1	0 1 2 3 4 0	0.0% 0.0% 0.0% 0.1% 1.1% 0.1%	0.7% 0.2% 0.1% 0.1% 0.1% 0.4% 0.2%	0.2% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1%	0.4% 0.0% 0.0%	0.3% 0.0% 0.0% 0.0%	0.1% 0.0% 0.0% 0.1% 0.0%	0.0% 0.0% 0.0% 0.1%	0.0% 0.0% 0.0% 0.1% 0.2% 0.0%	0.4%  0.0% 0.0%	0.5% 0.0% 0.1%	0.4% - 0.0% 0.1% - 0.0%	0.2%  0.0% 0.0% 0.0%	1.1% 0.0% 0.0% 0.1% 0.0% 0.0%	4940 4940 4940 4940 4940 4940
BEN BEN BEN BEN BEN BEN BEN	0 0 0 0 0 1 1	0 1 2 3 4 0 1	0.0% 0.0% 0.0% 0.1% 1.1% 0.1%	0.7% 0.2% 0.1% 0.1% 0.1% 0.4% 0.2% 0.1%	0.2% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1%	0.4%  0.0%  0.0%  0.0%	0.3% 0.0% 0.0% 0.0%	0.1% 0.0% 0.0% 0.1% 0.0%	0.0% 0.0% 0.0% 0.1% 	0.0% 0.0% 0.0% 0.1% 0.2% 0.0% 0.1%	0.4%  0.0% 0.0%  0.0% 0.0%	0.5% 0.0% 0.1%	0.4%  0.0% 0.1%  0.0% 0.0%	0.2% 0.0% 0.0% 0.0%	1.1% 0.0%  0.0% 0.1% 0.0% 0.0% 0.1%	4940 4940 4940 4940 4940 4940 4940
BEN BEN BEN BEN BEN BEN BEN BEN	0 0 0 0 0 1 1 1	0 1 2 3 4 0 1 2	0.0% 0.0% 0.0% 0.1% 1.1% 0.1% 0.0%	0.7% 0.2% 0.1% 0.1% 0.1% 0.4% 0.2% 0.1%	0.2% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.1% 0.2%	0.4% 0.0% 0.0% 0.0% 0.0%	0.3% 0.0% 0.0% 0.0% 0.0% 0.3%	0.1% 0.0% 0.0% 0.1% 0.0% 0.0%	0.0% 0.0% 0.0% 0.1%	0.0% 0.0% 0.0% 0.1% 0.2% 0.0% 0.1% 0.2%	0.4%  0.0% 0.0%  0.0% 0.0% 0.2%	0.5% 0.0% 0.1%	0.4% - 0.0% 0.1% - 0.0%	0.2% 0.0% 0.0% 0.0% 0.0% 0.0%	1.1% 0.0% 0.0% 0.1% 0.0% 0.0% 0.1% 0.2%	4940 4940 4940 4940 4940 4940 4940 4940
BEN	0 0 0 0 0 1 1 1 1 2	0 1 2 3 4 0 1 2 3 0	0.0% 0.0% 0.0% 0.1% 1.1% 0.1% 0.0% 0.2% 1.1%	0.7% 0.2% 0.1% 0.1% 0.1% 0.4% 0.2% 0.1% 0.2% 0.4%	0.2% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.1% 0.2% 0.3%	0.4% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0%	0.3% 0.0% 0.0% 0.0% 0.0% 0.3%	0.1% 0.0% 0.0% 0.1% 0.0% 0.0% 0.2% 0.1%	0.0% 0.0% 0.0% 0.1% 0.0% 0.2%	0.0% 0.0% 0.0% 0.1% 0.2% 0.0% 0.1% 0.2% 0.4%	0.4%  0.0% 0.0%  0.0% 0.0%	0.5% 0.0% 0.1%	0.4% 0.0% 0.1% 0.0% 0.0% 0.0% 0.2%	0.2% 0.0% 0.0% 0.0% 0.0% 0.2% 0.1%	1.1% 0.0% 0.0% 0.1% 0.0% 0.0% 0.1% 0.2%	4940 4940 4940 4940 4940 4940 4940 4940
BEN	0 0 0 0 0 1 1 1 1 2 2	0 1 2 3 4 0 1 2 3 0	0.0% 0.0% 0.1% 0.1% 0.1% 0.0% 0.2% 1.1% 0.1%	0.7% 0.2% 0.1% 0.1% 0.4% 0.2% 0.19 0.4% 0.2% 0.3%	0.2% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.3% 0.3%	0.4% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.1%	0.3% 0.0% 0.0% 0.0% 0.0% 0.3% 0.1%	0.1% 0.0% 0.0% 0.1% 0.0% 0.0% 0.2% 0.1% 0.4%	0.0% 0.0% 0.1% 0.1% 0.0% 0.2%	0.0% 0.0% 0.0% 0.1% 0.2% 0.1% 0.2% 0.4% 0.2%	0.4%  0.0% 0.0% 0.0% 0.0% 0.2% 	0.5%  0.0% 0.1%   0.3% 	0.4% 0.0% 0.1% 0.0% 0.0% 0.2% 0.1%	0.2% 0.0% 0.0% 0.0% 0.0% 0.2% 0.1%	1.1% 0.0% 0.0% 0.1% 0.0% 0.1% 0.2%	4940 4940 4940 4940 4940 4940 4940 4940
BEN	0 0 0 0 0 1 1 1 1 2 2	0 1 2 3 4 0 1 2 3 0 1 2	0.0% 0.0% 0.1% 1.1% 0.1% 0.2% 1.1% 0.1%	0.7% 0.2% 0.1% 0.1% 0.1% 0.4% 0.2% 0.1% 0.2% 0.3% 0.9%	0.2% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.3% 0.3% 0.3%	0.4% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.1% 0.6%	0.3% 0.0% 0.0% 0.0% 0.0% 0.3% 0.1% 0.7%	0.1% 0.0% 0.0% 0.1% 0.0% 0.2% 0.1% 0.4% 0.8%	0.0% 0.0% 0.0% 0.1% 0.0% 0.2%  0.1% 0.9%	0.0% 0.0% 0.0% 0.1% 0.2% 0.1% 0.2% 0.4% 0.2% 1.0%	0.4%  0.0% 0.0% 0.0% 0.0% 0.2%  0.1% 0.7%	0.5% 0.0% 0.1% 0.3%	0.4% 0.0% 0.1% 0.0% 0.0% 0.2% 0.1% 0.6%	0.2% 0.0% 0.0% 0.0% 0.0% 0.2% 0.1% 0.1% 0.8%	1.1% 0.0% 0.0% 0.1% 0.0% 0.1% 0.2% 	4940 4940 4940 4940 4940 4940 4940 4940
BEN	0 0 0 0 0 1 1 1 1 2 2 2 2 3	0 1 2 3 4 0 1 2 3 0 1 2 0	0.0% 0.0% 0.1% 1.1% 0.1% 0.2% 1.1% 0.1% 1.0%	0.7% 0.2% 0.1% 0.1% 0.4% 0.2% 0.1% 0.2% 0.4% 0.2% 0.4% 1.1%	0.2% 0.1% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.3% 0.3% 0.8% 1.5%	0.4% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.1% 0.6% 0.3%	0.3% 0.0% 0.0% 0.0% 0.0% 0.3% 0.1% 0.7% 0.3%	0.1% 0.0% 0.0% 0.1% 0.0% 0.2% 0.1% 0.4% 0.8%	0.0% 0.0% 0.0% 0.1% 0.0% 0.2% 0.1% 0.9% 0.4%	0.0% 0.0% 0.1% 0.2% 0.0% 0.1% 0.2% 0.4% 0.2% 1.0% 0.8%	0.4% 	0.5% 	0.4% 0.0% 0.1% 0.0% 0.0% 0.2% 0.1% 0.6% 0.2%	0.2% 0.0% 0.0% 0.0% 0.0% 0.2% 0.1% 0.1% 0.8% 1.0%	1.1% 0.0% 0.0% 0.1% 0.0% 0.1% 0.2%  0.0% 0.8% 0.3%	4940 4940 4940 4940 4940 4940 4940 4940
BEN	0 0 0 0 0 1 1 1 1 2 2	0 1 2 3 4 0 1 2 3 0 1 2	0.0% 0.0% 0.1% 1.1% 0.1% 0.2% 1.1% 0.1%	0.7% 0.2% 0.1% 0.1% 0.1% 0.4% 0.2% 0.1% 0.2% 0.3% 0.9%	0.2% 0.1% 0.1% 0.1% 0.2% 0.1% 0.2% 0.3% 0.3% 0.3%	0.4% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.1% 0.6%	0.3% 0.0% 0.0% 0.0% 0.0% 0.3% 0.1% 0.7%	0.1% 0.0% 0.0% 0.1% 0.0% 0.2% 0.1% 0.4% 0.8%	0.0% 0.0% 0.0% 0.1% 0.0% 0.2%  0.1% 0.9%	0.0% 0.0% 0.0% 0.1% 0.2% 0.1% 0.2% 0.4% 0.2% 1.0%	0.4%  0.0% 0.0% 0.0% 0.0% 0.2%  0.1% 0.7%	0.5% 0.0% 0.1% 0.3%	0.4% 0.0% 0.1% 0.0% 0.0% 0.2% 0.1% 0.6%	0.2% 0.0% 0.0% 0.0% 0.0% 0.2% 0.1% 0.1% 0.8%	1.1% 0.0% 0.0% 0.1% 0.0% 0.1% 0.2% 	4940 4940 4940 4940 4940 4940 4940 4940

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
II	0	0	2.9%	4.6%	1.4%	12.8%	6.6%	7.4%	1.8%	1.5%	13.1%	12.8%	13.1%	1.4%	16.0%	4888
II	0	1	0.8%	0.9%	0.5%	0.1%	0.1%	0.3%	0.1%	0.5%	0.1%	0.0%	0.1%	0.3%	0.1%	4888
II	0	2	0.1%	0.1%	0.1%		0.0%	0.1%	0.1%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	4888
II	0	3	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	•	·	0.0%	•	0.0%	4888
II	0	4	0.0%			•	0.0%		0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	4888
II	1	0	6.3%	2.5%	1.8%	0.1%	0.1%	1.2%	0.2%	1.1%	0.0%	0.0%	0.1%	0.2%	0.1%	4888
II	1	1	1.5%	1.1%	0.7%	0.2%	0.2%	0.5%	0.2%	0.7%	0.0%	0.0%	0.1%	0.2%	0.1%	4888
II	1	2	0.2%	0.4%	0.4%	0.2%	0.1%	0.2%	0.2%	0.3%	0.2%	0.1%	0.2%	0.3%	0.2%	4888
II	1	3	0.0%	0.1%	0.2%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	4888
II	2	0	8.4%	1.7%	1.2%	0.4%	0.3%	2.2%	0.6%	1.6%	0.2%	0.2%	0.3%	0.7%	0.3%	4888
II	2	1	1.5%	1.3%	2.1%	0.9%	0.9%	2.0%	1.1%	1.6%	0.8%	0.8%	1.0%	1.1%	0.9%	4888
II	2	2	0.7%	0.8%	1.0%	0.7%	1.0%	0.6%	0.9%	1.1%	0.8%	0.8%	0.7%	0.9%	0.8%	4888
II	3	0	4.8%	6.4%	6.4%	3.6%	3.8%	12.4%	6.1%	7.4%	2.8%	3.0%	3.5%	5.9%	5.1%	4888
II	3	1	5.1%	6.4%	7.2%	6.7%	6.9%	5.1%	7.7%	8.0%	6.3%	6.4%	6.6%	7.3%	5.2%	4888
II	4	0	67.8%	73.7%	76.9%	74.2%	79.9%	67.9%	80.8%	75.7%	75.6%	75.4%	74.2%	81.4%	71.1%	4888
Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
Ohiol	0	0	0.7%	0.3%	0.1%	0.7%	0.4%				0.8%	0.8%	0.7%		1.2%	1846
Ohiol	0	1		0.1%	0.1%										0.1%	1846
Ohiol	1	0	2.2%	2.0%	0.2%	0.1%	0.1%	0.2%	0.1%	0.2%	0.1%		0.1%		0.1%	1846
Ohiol	1	1	0.1%	0.2%	0.1%							0.1%		0.1%		1846
Ohiol	2	0	2.7%	0.2%	0.2%				0.1%	0.1%					0.1%	1846
Ohiol	2	1	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%				1		0.1%		1846
Ohiol	2	2							0.1%			1 .				1846
Ohiol	3	0	0.6%	1.8%	0.8%	0.4%	0.4%	1.2%	0.4%	1.2%	0.2%	0.2%	0.4%	1.1%	2.7%	1846
Ohiol	3	1	0.7%	1.1%	1.2%	0.4%	0.7%	0.5%	0.9%	1.1%	0.8%	0.7%	0.6%	0.8%	1.0%	1846
Ohiol	4	0	93.0%	94.2%	97.2%	98.4%	98.4%	98.0%	98.5%	97.4%	98.2%	98.3%	98.3%	98.0%	94.9%	1846

Dataset	High	Marginal	123ID	Aware1	Aware2	Cogent1	Cogent2	IAFIS	NEC	NIST	Sagem1	Sagem2	SHB	Sonda	UltraScan	Slaps in Dataset
TX	0	0	1.5%	9.1%	3.7%	6.0%	5.2%	1.4%	0.2%	4.2%	7.8%	11.1%	6.1%	1.7%	9.4%	4953
TX	0	1	0.7%	3.0%	1.4%	0.1%	0.1%	0.3%		1.3%		0.0%	0.1%	0.5%	1.6%	4953
TX	0	2	0.3%	0.6%	0.4%		0.0%	0.1%		0.2%				0.1%	0.4%	4953
TX	0	3	0.1%	0.1%	0.0%			0.0%	0.0%	0.1%		0.0%			0.0%	4953
TX	0	4	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%			4953
TX	1	0	6.6%	4.3%	1.3%	0.0%	0.0%	0.1%	0.0%	0.3%	0.0%		0.1%	0.2%	0.1%	4953
TX	1	1	1.9%	1.7%	0.5%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%			0.1%	0.1%	4953
TX	1	2	0.3%	0.5%	0.3%	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	4953
TX	1	3	0.1%	0.0%	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	4953
TX	2	0	6.1%	2.2%	1.2%	0.1%	0.1%	0.6%	0.2%	0.8%	0.1%	0.1%	0.1%	0.4%	0.5%	4953
TX	2	1	1.3%	1.7%	1.2%	0.4%	0.4%	0.6%	0.4%	0.6%	0.3%	0.3%	0.4%	0.8%	0.5%	4953
TX	2	2	0.6%	0.6%	0.6%	0.7%	0.5%	0.8%	0.8%	0.6%	0.7%	0.8%	0.8%	0.6%	0.8%	4953
TX	3	0	5.0%	8.1%	7.9%	2.8%	2.7%	13.3%	4.3%	5.5%	2.3%	2.5%	2.9%	5.7%	7.7%	4953
TX	3	1	5.2%	5.3%	6.7%	7.0%	6.5%	5.0%	7.9%	7.2%	6.3%	6.0%	6.4%	7.3%	5.2%	4953
TX	4	0	70.4%	62.7%	74.6%	82.7%	84.3%	77.5%	85.9%	78.8%	82.3%	78.8%	82.9%	82.4%	73.3%	4953