Method	Total FLOPs	A6000 minutes per trial					
		ASCADv1 (fixed)	ASCADv1 (random)	DPAv4 (Zaid version)	AES-HD	OTiAiT	OTP
Supervised training [†] : t _{sup} GradVis Saliency Input * Grad LRP m-Occlusion 2 ^{md} -order m-Occlusion [†] OccPO1-Extended* OccPO1-Extended* OccPO1-Extended (reported, on GTX 970) ALL (Oux)	$C_{\text{sup}} := \Theta(Nn_{\text{sup}}(C_F + C_B))$ $C_{\text{cup}} + \Theta(N(C_F + C_B))$ $C_{\text{sup}} + \Theta(NC_F + C_B)$ $C_{\text{sup}} + \Theta(NC_F T)$ $C_{\text{sup}} + \Theta(NC_F T)$ $C_{\text{sup}} + \Theta(NC_F T)$ $C_{\text{sup}} + \Theta(NC_F T)$ $C_{\text{sup}} + O(NC_F T)$ $O(Nn_{\text{all}}(C_F + C_B))$	$\begin{array}{c} 0.64 \pm 0.03 \\ t_{\rm sup} + 0.0655 \pm 0.0005 \\ t_{\rm sup} + 0.075 \pm 0.003 \\ t_{\rm sup} + 0.075 \pm 0.002 \\ t_{\rm sup} + 0.075 \pm 0.002 \\ t_{\rm sup} + 0.1200 \pm 0.0006 \\ t_{\rm sup} + 1.200 \pm 0.0006 \\ t_{\rm sup} + 1.273 \pm 0.008 \\ t_{\rm sup} + 1.273 \pm 0.008 \\ t_{\rm sup} + 21 \pm 5 \\ 1.278 \\ 6.06 \pm 0.36 \end{array}$	$\begin{array}{c} 1.27 \pm 0.02 \\ t_{\text{sup}} + 0.2582 \pm 0.0005 \\ t_{\text{sup}} + 0.2582 \pm 0.0007 \\ t_{\text{sup}} + 0.2937 \pm 0.0007 \\ t_{\text{sup}} + 0.2937 \pm 0.0006 \\ t_{\text{sup}} + 0.2936 \pm 0.0007 \\ t_{\text{sup}} + 0.941 \pm 0.001 \\ t_{\text{sup}} + 374 \pm 1 \\ t_{\text{sup}} + 28.6 \pm 0.3^{12} \\ \ge t_{\text{sup}} + 114 \pm 2^{12} \\ 13.662 \\ 8.4 \pm 0.6 \end{array}$	$\begin{array}{c} 0.67\pm0.03\\ s_{\rm sup}+0.0106\pm0.0001\\ t_{\rm sup}+0.0116\pm0.0002\\ t_{\rm sup}+0.01130\pm0.00007\\ t_{\rm sup}+0.01430\pm0.002\\ t_{\rm sup}+0.0929\pm0.0002\\ t_{\rm sup}+0.1225\pm0.0008\\ t_{\rm sup}+1.1225\pm0.0008\\ t_{\rm sup}+7.1\pm0.3\\ t_{\rm sup}+7.1\pm0.3\\ 2.6\pm0.5 \end{array}$	$\begin{array}{c} 0.52\pm0.02 \\ t_{\rm sup} + 0.0379\pm0.0002 \\ t_{\rm sup} + 0.048\pm0.003 \\ t_{\rm sup} + 0.048\pm0.003 \\ t_{\rm sup} + 0.047\pm0.002 \\ t_{\rm sup} + 0.1134\pm0.0005 \\ t_{\rm sup} + 31.28\pm0.02 \\ t_{\rm sup} + 14.1\pm0.1^{\ddagger} \\ \ge t_{\rm sup} + 42\pm14^{\ddagger} \\ \ge t_{\rm sup} + 42\pm0.4 \end{array}$	$\begin{array}{c} 0.062\pm0.005\\ t_{\rm sup}+0.0080\pm0.0001\\ t_{\rm sup}+0.0090\pm0.001\\ t_{\rm sup}+0.00920\pm0.001\\ t_{\rm sup}+0.00870\pm0.00009\\ t_{\rm sup}+0.0174\pm0.0001\\ t_{\rm sup}+0.0174\pm0.0001\\ t_{\rm sup}+0.041\pm0.0005\\ t_{\rm sup}+0.041\pm0.0002\\ t_{\rm sup}+1.14\pm0.09\\ u_{\rm pl}/a\\ 2.5\pm0.5 \end{array}$	$\begin{array}{c} 0.071 \pm 0.004 \\ t_{\rm sup} + 0.0639 \pm 0.0003 \\ t_{\rm sup} + 0.081 \pm 0.004 \\ t_{\rm sup} + 0.081 \pm 0.005 \\ t_{\rm sup} + 0.079 \pm 0.004 \\ t_{\rm sup} + 2.456 \pm 0.0006 \\ t_{\rm sup} + 79.9 \pm 0.5 \\ t_{\rm sup} + 0.049 \pm 0.003 \\ t_{\rm sup} + 0.58 \pm 0.07 \\ u/a \\ 2.0 \pm 0.1 \end{array}$
THE (GUID)	O(1111all(OF + OB))	0.00 ± 0.00	0.1 ± 0.0	2.0 ± 0.0	1.2 1. 0.1	2.0 1 0.0	2.0 ± 0.1
Table 1: A comparison of the computational cost of the considered methods. We denote by C_F and C_B the							
cost of a forward and backward pass through a neural net respectively, N the dataset size, n_{sup} and n_{all}							
the number of epochs	for supervised	l learning a	nd adversa	rial leakage	localization	respectively	, and T the
data dimensionality. All neural net attribution methods require first doing supervised training; we report							
their runtime as $t_{\text{sup}} + t_{\text{resid}}$ where t_{sup} denotes the time to do supervised training (listed in top row) and							
$t_{\rm resid}$ denotes the time to run the method given the trained neural net. Parametric statistical methods							
(omitted) are done on the CPU and take negligible time compared to the deep learning methods. Runtimes							
, ,							
are reported as mean \pm std. dev. of 5 total runtime measurements, with metrics, logging and validation							
disabled. †Estimated by linearly extrapolating the runtime of 100 minibatches. *All passes through the							
dataset must be run sequentially. Thus, the runtime may be significantly longer than other methods which							
have similar total FLOPs but are more amenable to parallelism. [‡] Due to time constraints we ran these							
algorithms for only 2 random seeds. Additionally, we cut OccPOI-extended short after it exceeded $10 \times$ the							
runtime of ALL.			* .				