

Table 1: Traffic required to achieve the target test accuracy.

Models	Targets	<i>Cutlayer</i>	Required traffic			
			Baseline	QU	SP	MS
VGG19 on CIFAR-10	93%	1	2519.53GB	INF	INF	<b>186.91GB</b>
		2	629.88GB	INF	INF	<b>48.06GB</b>
		8	157.47GB	<b>10.59GB</b>	11.42GB	11.62GB
		15	78.74GB	<b>5.06GB</b>	5.71GB	5.77GB
	88%	1	1743.16GB	INF	<b>124.2GB</b>	126.38GB
		2	435.79GB	41.43GB	37.05GB	<b>29.47GB</b>
		8	108.95GB	7.32GB	<b>6.98GB</b>	7.77GB
		15	54.47GB	<b>3.55GB</b>	3.91GB	3.92GB
ResNet18 on CIFAR-100	77%	1	2036.13GB	INF	INF	<b>206.03GB</b>
		2	2036.13GB	INF	INF	<b>162.49GB</b>
		9	1018.07GB	INF	INF	<b>75.4GB</b>
		13	509.03GB	INF	INF	<b>41.42GB</b>
	72%	1	893.55GB	INF	130.46GB	<b>64.78GB</b>
		2	893.55GB	INF	<b>64.71GB</b>	64.78GB
		9	446.78GB	55.39GB	<b>31.83GB</b>	32.39GB
		13	223.39GB	27.69GB	<b>16.18GB</b>	16.2GB