Model	Params	MACs	FLOPs (2×MA C)	TorchScri pt size	Avg laten cy (ms, b=1 GPU)	p50 (m s)	p90 (m s)	Peak GPU mem (bytes)	Val acc
ResNet18	11,180,1 03	1,824,804,3 59	3.6496 e9	44,887,42 6 B (~42.8 MiB)	2.20 ms			65,116,1 60 (~62.1 MiB)	
MobileNet V2	2,232,83 9	319,027,97 5	6.3806 e8	9,450,712 B (~9.0 MiB)	4.03 ms	3.7 7	3.9 4	29,756,4 16 (~28.4 MiB)	0.775 8
EfficientN et-B0	4,016,51 5	408,924,86 3	8.1785 e8	16,803,22 2 B (~16.0 MiB)	5.62 ms	5.6 6	0.0	36,921,3 44 (~35.2 MiB)	0.796 8

Quick interpretation (trade-offs)

- ResNet18 best accuracy (82.3%) and fastest inference by a comfortable margin (2.2 ms). Heavy-ish params and traced size, highest peak memory. Good if you can afford ~44MB model file and ~62MB GPU memory for models + activations.
- MobileNetV2 smallest artifact (≈9 MB traced), lowest memory footprint (~28 MB), slightly slower (~4.0 ms) than ResNet18 here (implementation/kernel differences make MobileNet slower on desktop GPU sometimes). Best candidate if you need small on-disk size and low memory.
- EfficientNet-B0 middle ground in params/size and best MACs-to-accuracy ratio for some classes but slowest (~5.6 ms) in your runs. Good compromise if you want reduced params vs ResNet18 with similar accuracy trend.

Important: on small GPUs / edge devices, **params and MACs do not always equal lower latency** — kernel shapes, depthwise convs, and memory/launch overhead matter. Here ResNet18 ended up fastest on the RTX 3050.