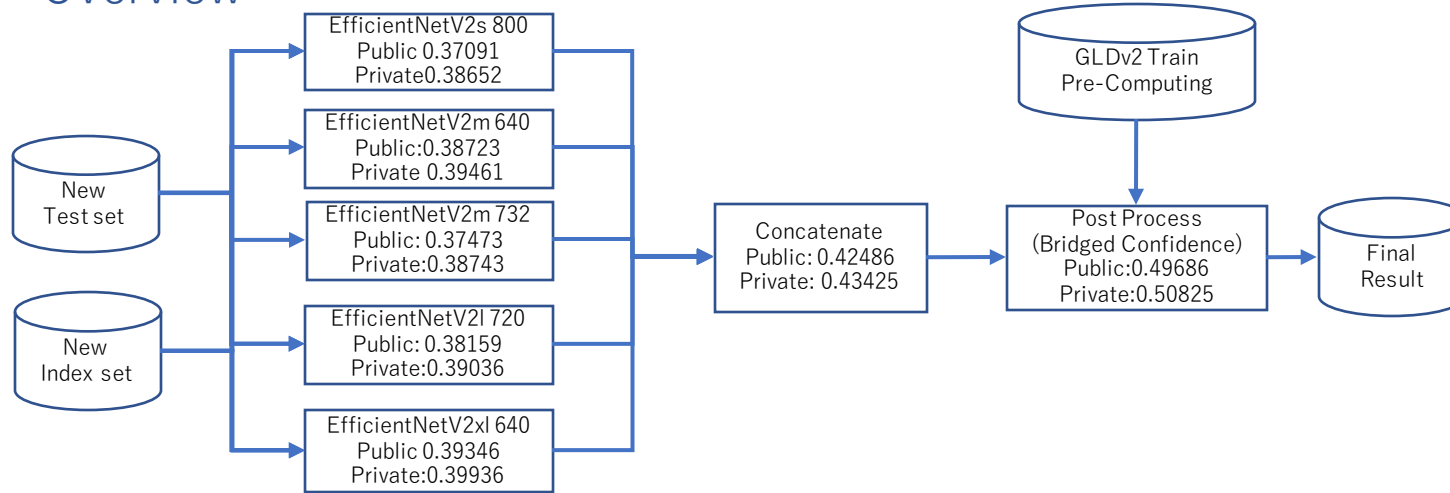




Overview



Training

Model:

EfficientNetV2s
EfficientNetV2m x 2
EfficientNetV2l
EfficientNetV2xl

Data: GLDv2 (4.1M)

Optimizer: Adam with Cosine Annealing

Epoch:15

Hardware:

TPU v3 8 core(Thanks to TRC Program!)

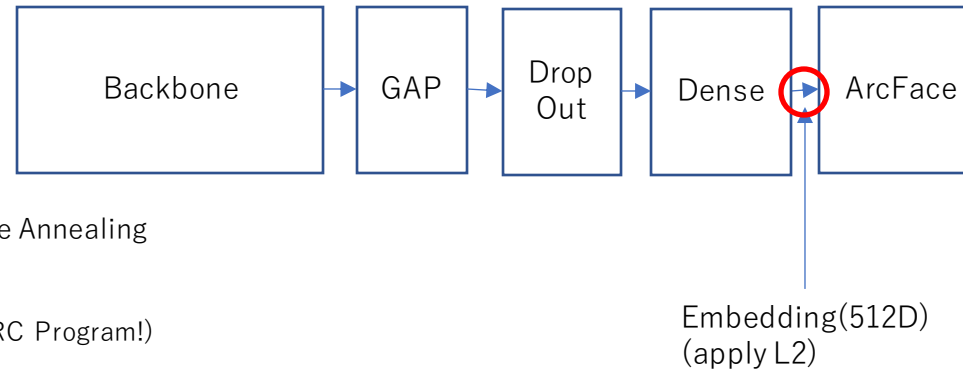
Other Training Tricks:

Gradient Accumulation

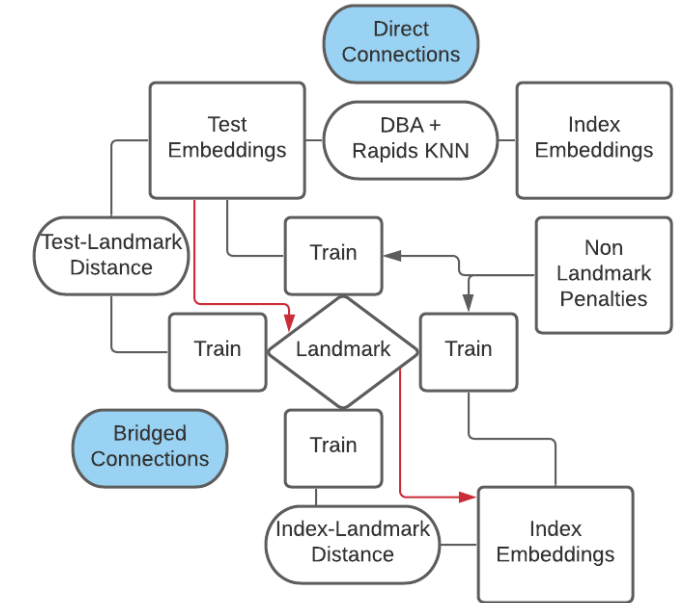
Mixed Precision

Hflip TTA

Concatenate All embedding vector(2560D)



Postprocessing



Landmark Distance Computation: Pick k (k=2) nearest train images from reference image (test/index) belonging to landmark and average their distances

$$\text{Bridged Distance} = \text{Min}(\text{Max}((\text{test}, \text{landmark_id}), (\text{index}, \text{landmark_id})) \text{ for all landmark_id belonging to gldv2 train set})$$

$$\text{Confidence} = (\text{Direct Confidence})^{**3} + (\text{Bridged Confidence})^{**3}$$