Name	Report Link	Description	Best result
H/14	wandb logs	Main result: H/14 with big batch size works well, but unstable, and very hard to recover Planned for 256 * 135M epochs from 2B-en Spike at epoch 122. Tried a lot of stuff to recover Only one thing worked: decreasing Ir fast for 8 epoch, got 74% that way Batch size 79k, starting Ir 5e-4 1 week to train + many days to try to figure it out 800gpus Doing 8 epoch with batch size 158k gave 75.4% Finished up to 256 at batch size 79k in bfloat16 and reached 78.0%	78.0
B/32	wandb logs	Main result: Environment is working fully, only ml problem 256 * 135M epochs from 2B-en Starting Ir 1e-3 Batch size 79k Run till the end. Best B/32 thus far 60h to train 800 gpus	66.5
Fast g/14	wandb logs	Main result: we can train a decent clip fast by decreasing Ir fast 12 * 135M epoch from 2B-en Starting Ir 1e-3, went to 0 in 4 epochs. Batch size 79k Restarted 2 times by increasing epoch count, hence increasing cosine Ir schedule Reached 69% fast 20h to train 800 gpus	68.9
Slow g/14	wandb logs	Main result: bfloat16 is faster and more stable, solves instabilities idea: high batch size is not stable, trying smaller one 90 * 135M epoch from 2B-en, around 12B samples seen which is about 32 times 400M, like initial clip sample seen Starting Ir 5e-4 batch size 32k Should take about 8 days to train 1600 gpus -> exploded at epoch 59 Then tried to continue with bfloat16 -> finished the 90 epochs With 800 GPUs	76.6

160k batch size small run exploded fast with float16