python val.py --weights runs/train/exp8/weights/best.pt --batch-size 4

val: data=data\RDD.yaml, weights=['runs/train/exp8/weights/best.pt'], batch_size=4, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

Model summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class Images Instances P R mAP50 mAP50-95: 100%|████████████| 82/82 [00:03

all	325	200	0.356	0.305	0.273	0.105
D00	325	109	0.467	0.44	0.362	0.136
D10	325	53	0.51	0.377	0.307	0.0909
D20	325	17	0.343	0.353	0.381	0.179
D40	325	21	0.104	0.0476	0.0432	0.0158

Speed: 0.4ms pre-process, 5.7ms inference, 1.0ms NMS per image at shape (4, 3, 640, 640)

python val.py --weights runs/train/exp9/weights/best.pt --batch-size 8

val: data=data\RDD.yaml, weights=['runs/train/exp9/weights/best.pt'], batch_size=8, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

Model summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 41/41 [00:03						
all	325	200	0.291	0.338	0.248	0.0845
D00	325	109	0.354	0.437	0.315	0.111
D10	325	53	0.329	0.396	0.25	0.0607
D20	325	17	0.434	0.471	0.411	0.16
D40	325	21	0.0444	0.0476	0.0154	0.00667

Speed: 0.3ms pre-process, 5.4ms inference, 1.1ms NMS per image at shape (8, 3, 640, 640)

python val.py --weights runs/train/exp10/weights/best.pt --batch-size 2

val: data=data\RDD.yaml, weights=['runs/train/exp10/weights/best.pt'], batch_size=2, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

Model summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 163/163 [00:						
all	325	200	0.343	0.323	0.26	0.0903
D00	325	109	0.38	0.44	0.341	0.134
D10	325	53	0.377	0.226	0.253	0.0658
D20	325	17	0.499	0.529	0.411	0.148
D40	325	21	0.114	0.0952	0.0356	0.0138

Speed: 0.3ms pre-process, 6.2ms inference, 1.3ms NMS per image at shape (2, 3, 640, 640)

python val.py --weights runs/train/exp11/weights/best.pt --batch-size 16

val: data=data\RDD.yaml, weights=['runs/train/exp11/weights/best.pt'], batch_size=16, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

Model summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 21/21 [00:03						
all	325	200	0.392	0.334	0.285	0.088
D00	325	109	0.439	0.422	0.37	0.115
D10	325	53	0.532	0.453	0.319	0.0827
D20	325	17	0.521	0.412	0.387	0.118
D40	325	21	0.0774	0.0476	0.0631	0.0362

Speed: 0.4ms pre-process, 5.3ms inference, 1.1ms NMS per image at shape (16, 3, 640, 640)

python val.py --weights runs/train/exp12/weights/best.pt --batch-size 1

val: data=data\RDD.yaml, weights=['runs/train/exp12/weights/best.pt'], batch_size=1, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

Model summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 325/325 [00:						
all	325	200	0.379	0.274	0.276	0.106
D00	325	109	0.482	0.384	0.375	0.16
D10	325	53	0.501	0.321	0.312	0.0856
D20	325	17	0.415	0.294	0.317	0.137
D40	325	21	0.117	0.0952	0.0977	0.0425

Speed: 0.4ms pre-process, 8.4ms inference, 1.1ms NMS per image at shape (1, 3, 640, 640)

python val.py --weights runs/train/exp13/weights/best.pt --batch-size 4

val: data=data\RDD.yaml, weights=['runs/train/exp13/weights/best.pt'], batch_size=4, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

Model summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 82/82 [00:03						
all	325	200	0.36	0.389	0.3	0.113
D00	325	109	0.373	0.459	0.342	0.127
D10	325	53	0.309	0.396	0.31	0.0849
D20	325	17	0.54	0.529	0.432	0.195
D40	325	21	0.217	0.173	0.115	0.0452

Speed: 0.3ms pre-process, 6.0ms inference, 0.9ms NMS per image at shape (4, 3, 640, 640)

python val.py --weights runs/train/exp14/weights/best.pt --batch-size 4

val: data=data\RDD.yaml, weights=['runs/train/exp14/weights/best.pt'], batch_size=4, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

mobilenetv2 summary: 276 layers, 761745 parameters, 0 gradients, 2.1 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 82/82 [00:02						
all	325	200	0.229	0.322	0.215	0.0708
D00	325	109	0.308	0.523	0.37	0.115
D10	325	53	0.309	0.245	0.174	0.0476
D20	325	17	0.257	0.471	0.298	0.114
D40	325	21	0.041	0.0476	0.0192	0.00667

Speed: 0.3ms pre-process, 5.1ms inference, 1.0ms NMS per image at shape (4, 3, 640, 640)

python val.py --weights runs/train/exp15/weights/best.pt --batch-size 4

val: data=data\RDD.yaml, weights=['runs/train/exp15/weights/best.pt'], batch_size=4, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

YOLOv5s summary: 157 layers, 7020913 parameters, 0 gradients, 15.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95: 100%|████████████| 82/82 [00:03
all	325	200	0.211	0.313	0.242	0.0823
D00	325	109	0.335	0.578	0.403	0.134
D10	325	53	0.248	0.226	0.183	0.0416
D20	325	17	0.199	0.351	0.345	0.142
D40	325	21	0.0625	0.0952	0.0363	0.0117

Speed: 0.3ms pre-process, 5.8ms inference, 1.1ms NMS per image at shape (4, 3, 640, 640)

python val.py --weights runs/train/exp22/weights/best.pt --batch-size 4

val: data=data\RDD.yaml, weights=['runs/train/exp22/weights/best.pt'], batch_size=4, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

resnet18 summary: 124 layers, 10711825 parameters, 0 gradients, 112.8 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class Images Instances P R mAP50 mAP50-95: 100%|██████████| 82/82 [00:09

all	325	200	0.2	0.296	0.202	0.0619
D00	325	109	0.268	0.569	0.318	0.102
D10	325	53	0.283	0.179	0.173	0.0412
D20	325	17	0.18	0.294	0.293	0.097
D40	325	21	0.0696	0.143	0.0236	0.00699

Speed: 0.2ms pre-process, 26.8ms inference, 1.2ms NMS per image at shape (4, 3, 640, 640)

python val.py --weights runs/train/exp23/weights/best.pt --batch-size 4

val: data=data\RDD.yaml, weights=['runs/train/exp23/weights/best.pt'], batch_size=4, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

YOLOv5n summary: 157 layers, 1764577 parameters, 0 gradients, 4.1 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 82/82 [00:02						
all	325	200	0.275	0.389	0.257	0.0892
D00	325	109	0.329	0.532	0.386	0.135
D10	325	53	0.377	0.245	0.187	0.0507
D20	325	17	0.233	0.588	0.344	0.145
D40	325	21	0.161	0.19	0.111	0.0257

Speed: 0.3ms pre-process, 3.5ms inference, 1.1ms NMS per image at shape (4, 3, 640, 640)

python val.py --weights runs/train/exp24/weights/best.pt --batch-size 4

val: data=data\RDD.yaml, weights=['runs/train/exp24/weights/best.pt'], batch_size=4, imgsz=640, conf_thres=0.001, iou_thres=0.6, max_det=300, task=val, device=, workers=8, single_cls=False, augment=False, verbose=False, save_txt=False, save_hybrid=False, save_conf=False, save_json=False, project=runs\val, name=exp, exist_ok=False, half=False, dnn=False

YOLOv5 v7.0-32-g357cde9 Python-3.8.15 torch-1.13.0 CUDA:0 (NVIDIA GeForce RTX 3060 Laptop GPU, 6144MiB)

Fusing layers...

YOLOv5m summary: 212 layers, 20865057 parameters, 0 gradients, 47.9 GFLOPs

val: Scanning C:\Users\luoch\Desktop\yolotest\data\labels\val.cache... 325 images, 200 backgrounds, 0 corrupt: 100%|████

Class	Images	Instances	P	R	mAP50	mAP50-95:
100%|██████████| 82/82 [00:05						
all	325	200	0.36	0.322	0.278	0.092
D00	325	109	0.412	0.56	0.419	0.137
D10	325	53	0.383	0.281	0.236	0.0627
D20	325	17	0.55	0.353	0.411	0.147
D40	325	21	0.0925	0.0952	0.0464	0.0211

Speed: 0.7ms pre-process, 12.1ms inference, 1.1ms NMS per image at shape (4, 3, 640, 640)