AERO2ASTRO

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Today i had trained PP yolo v2 model upto 1327 epochs. The minimum loss is 18.

Previous Model Evaluation: (PP yolo v1 1000 ins):

```
Accumulating evaluation results...
DONE (t=0.15s).
 Average Precision
                      (AP) @[ IoU=0.50:0.95 |
                                                 area=
                                                                maxDets=100 ] = 0.056
 Average Precision
                      (AP) @[ IoU=0.50
                                                                              ] = 0.113
                                                area=
                                                          all |
                                                                maxDets=100
Average Precision
                      (AP) @[ IoU=0.75
                                                                              ] = 0.049
                                                          all
                                                                maxDets=100
                                                area=
                                                                              ] = 0.044
 Average Precision
                     (AP) @[ IoU=0.50:0.95
                                                 area= small
                                                                maxDets=100
Average Precision (AP) @[ IoU=0.50:0.95 | area=medium | Average Precision (AP) @[ IoU=0.50:0.95 | area= large |
                                                                maxDets=100 ] = 0.066
                                                                              ] = 0.130
                                                                maxDets=100
 Average Recall
                                                                maxDets= 1
                      (AR) @[ IoU=0.50:0.95
                                              area=
                                                         all I
                                                                              1 = 0.051
                                                                maxDets= 10 ] = 0.134
maxDets=100 ] = 0.179
                      (AR) @[ IoU=0.50:0.95
                                                          all |
 Average Recall
                                                 area=
 Average Recall
                      (AR) @[
                               IoU=0.50:0.95
                                                 area=
 Average Recall
                     (AR) @[ IoU=0.50:0.95
                                                area= small
                                                                 maxDets=100
                     (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100
Average Recall
                                                                                = 0.231
Average Recall
                                                                                  0.201
[08/13 14:25:45] ppdet.metrics.coco_utils INFO: Per-category of bbox AP:
 category | AP
                     | category | AP
                                          | category | AP
            | 0.146 | book
                                 | 0.007 | bottle
| 0.000 | chair
            | 0.007 | person
                                                       0.000
[08/13 14:25:45] ppdet.metrics.coco_utils INFO: per-category PR curve has output to bbox_pr_curve folder.
[08/13 14:25:45] ppdet.engine INFO: Total sample number: 177, averge FPS: 18.61171957113853
```

Model Evaluation : (Training data):

```
Accumulating evaluation results...
DONE (t=0.67s).
                                                          all | maxDets=100 ] = 0.552
Average Precision
                      (AP) @[ IoU=0.50:0.95 | area=
                                               | area=
Average Precision (AP) @[ IoU=0.50
                                                          all | maxDets=100
                                                                              1 = 0.914
Average Precision (AP) @[ IoU=0.75
                                               area=
                                                          all | maxDets=100 ] = 0.616
Average Precision (AP) @[ IoU=0.50:0.95 | area= small | maxDets=100 ] = 0.459
Average Precision (AP) @[ IoU=0.50:0.95 | area=medium | maxDets=100 Average Precision (AP) @[ IoU=0.50:0.95 | area= large | maxDets=100
                                                                              ] = 0.658
                               IoU=0.50:0.95 | area= large
IoU=0.50:0.95 | area= all
                                                                               ] = 0.695
Average Recall
                      (AR) @[
                                                               maxDets= 1
                                                                              1 = 0.245
Average Recall
                      (AR) @[ IoU=0.50:0.95 | area=
                                                          all | maxDets= 10 ] = 0.614
Average Recall
                      (AR) @[ IoU=0.50:0.95 | area= all | maxDets=100 ] = 0.697
Average Recall
                                                               | maxDets=100 ] = 0.605
                      (AR) @[ IoU=0.50:0.95 | area= small
                   (AR) @[ IoU=0.50:0.95 | area=medium | maxDets=100 (AR) @[ IoU=0.50:0.95 | area= large | maxDets=100
Average Recall
                                                                                = 0.777
Average Recall
                                                                              ] = 0.828
[08/13 14:38:33] ppdet.metrics.coco utils INFO: Per-category of bbox AP:
 category | AP | category | AP | category
 aeroplane | 0.623 | car | 0.527 | chair
cow | 0.626 | person | 0.519 | traffi
                                                              0.558
                                  | 0.519 | traffic_light | 0.457
[08/13 14:38:33] ppdet.metrics.coco_utils INFO: per-category PR curve has output to bbox_pr_curv
[08/13 14:38:33] ppdet.engine INFO: Total sample number: 689, averge FPS: 11.811991601876088
```

Model Evaluation: (Test data)

Inference speed: