AERO2ASTRO

Panneerslevam N

(12/08/2021)

Today i had trained PP yolo v2 model upto 1178 only, because some network issues in my area. And also faced another batch size error. I had already set batch size 8 in my config file, but some gpu size error raises. So I am checked GPU type. Which is Tesla P4 , this is new one i think.so I am disconnected my kernel and again reconnect it .Finally I got tesla k80. Due to network issue I am not able to perform evaluation. Tomorrow I will update it in report.

```
[08/12 14:14:41] ppdet.engine INFO: Epoch: [1177] [  0/172] learning_rate: 0.000200 loss_xy: 2.006318 loss_wh: 2.231702 loss_iou: 7.81319
[08/12 14:14:58] ppdet.engine INFO: Epoch: [1177] [ 20/172] learning_rate: 0.000200 loss_xy: 1.719986 loss_wh: 2.119164 loss_iou: 7.11677
[08/12 14:15:18] ppdet.engine INFO: Epoch: [1177] [ 40/172] learning_rate: 0.000200 loss_xy: 1.741299 loss_wh: 1.850268 loss_iou: 6.45170
[08/12 14:15:38] ppdet.engine INFO: Epoch: [1177] [ 60/172] learning_rate: 0.000200 loss_xy: 1.628164 loss_wh: 1.759211 loss_iou: 6.40470
[08/12 14:15:58] ppdet.engine INFO: Epoch: [1177] [ 80/172] learning_rate: 0.000200 loss_xy: 2.099569 loss_wh: 2.277143 loss_iou: 7.63886
[08/12 14:16:18] ppdet.engine INFO: Epoch: [1177] [100/172] learning_rate: 0.000200 loss_xy: 2.022039 loss_wh: 2.549404 loss_iou: 7.99447
[08/12 14:16:39] ppdet.engine INFO: Epoch: [1177] [120/172] learning_rate: 0.000200 loss_xy: 1.625170 loss_wh: 1.950480 loss_iou: 5.95044
[08/12 14:17:00] ppdet.engine INFO: Epoch: [1177] [140/172] learning_rate: 0.000200 loss_xy: 1.694790 loss_wh: 1.875572 loss_iou: 7.03876
[08/12 14:17:19] ppdet.engine INFO: Epoch: [1177] [160/172] learning_rate: 0.000200 loss_xy: 1.511180 loss_wh: 1.673872 loss_iou: 5.57468
[08/12 14:17:32] ppdet.engine INFO: Epoch: [1178] [  0/172] learning_rate: 0.000200 loss_xy: 1.411344 loss_wh: 1.692732 loss_iou: 5.62577
[08/12 14:17:51] ppdet.engine INFO: Epoch: [1178] [ 20/172] learning_rate: 0.000200 loss_xy: 1.620168 loss_wh: 2.044193 loss_iou: 7.04857
[08/12 14:18:09] ppdet.engine INFO: Epoch: [1178] [ 40/172] learning_rate: 0.000200 loss_xy: 1.685323 loss_wh: 2.046727 loss_iou: 6.58566
[08/12 14:18:29] ppdet.engine INFO: Epoch: [1178] [ 60/172] learning_rate: 0.000200 loss_xy: 2.255517 loss_wh: 2.309531 loss_iou: 8.72363
[08/12 14:18:52] ppdet.engine INFO: Epoch: [1178] [ 80/172] learning_rate: 0.000200 loss_xy: 1.795119 loss_wh: 1.844944 loss_iou: 6.99998
[08/12 14:19:14] ppdet.engine INFO: Epoch: [1178] [100/172] learning_rate: 0.000200 loss_xy: 1.513069 loss_wh: 1.848460 loss_iou: 6.45348
[08/12 14:19:31] ppdet.engine INFO: Epoch: [1178] [120/172] learning_rate: 0.000200 loss_xy: 1.944993 loss_wh: 2.178580 loss_iou: 7.78788
[08/12 14:19:51] ppdet.engine INFO: Epoch: [1178] [140/172] learning_rate: 0.000200 loss_xy: 2.019433 loss_wh: 2.183449 loss_iou: 7.20799
```

```
loss_obj: 10.115770 loss_cls: 1.966222 loss: 24.330700 eta: 1 day, 10:07:23 batch_cost: 0.8294 data_cost: 0.0002 ips: 4.8226 images/s
loss_obj: 12.557441 loss_cls: 1.453549 loss: 27.133789 eta: 1 day, 10:07:47 batch_cost: 0.9166 data_cost: 0.0002 ips: 4.3642 images/s
loss_obj: 10.019335 loss_cls: 1.505484 loss: 23.839481 eta: 1 day, 10:06:30 batch_cost: 0.7486 data_cost: 0.0004 ips: 5.3433 images/s
loss_obj: 8.960205 loss_cls: 2.189931 loss: 24.603388 eta: 1 day, 10:06:15 batch_cost: 0.8708 data_cost: 0.0005 ips: 4.5936 images/s
loss_obj: 10.677546 loss_cls: 1.541551 loss: 23.251472 eta: 1 day, 10:05:56 batch_cost: 0.8656 data_cost: 0.0002 ips: 4.6211 images/s
loss_obj: 11.365848 loss_cls: 1.421011 loss: 28.445915 eta: 1 day, 10:05:58 batch_cost: 0.9063 data_cost: 0.0002 ips: 4.4136 images/s
loss_obj: 12.376074 loss_cls: 1.697664 loss: 28.623318 eta: 1 day, 10:05:46 batch_cost: 0.8792 data_cost: 0.0002 ips: 4.5498 images/s
loss_obj: 10.853602 loss_cls: 1.642426 loss: 22.203638 eta: 1 day, 10:05:55 batch_cost: 0.9207 data_cost: 0.0003 ips: 4.3443 images/s
loss_obj: 11.033777 loss_cls: 1.652382 loss: 27.475094 eta: 1 day, 10:06:34 batch_cost: 0.9834 data_cost: 0.0002 ips: 4.0676 images/s
loss_obj: 9.899529 loss_cls: 1.362653 loss: 22.572855 eta: 1 day, 10:05:59 batch_cost: 0.8321 data_cost: 0.0002 ips: 4.8070 images/s
loss_obj: 9.072544 loss_cls: 1.282015 loss: 22.572855 eta: 1 day, 10:05:35 batch_cost: 0.8171 data_cost: 0.0002 ips: 4.8954 images/s
loss_obj: 9.568394 loss_cls: 1.713948 loss: 23.065854 eta: 1 day, 10:04:50 batch_cost: 0.8113 data_cost: 0.0011 ips: 4.9302 images/s
loss_obj: 10.823008 loss_cls: 1.863296 loss: 23.475632 eta: 1 day, 10:03:42 batch_cost: 0.7622 data_cost: 0.0006 ips: 5.2480 images/s
loss_obj: 14.258862 loss_cls: 1.719247 loss: 33.387611 eta: 1 day, 10:03:46 batch_cost: 0.9133 data_cost: 0.0002 ips: 4.3798 images/s
loss_obj: 11.074505 loss_cls: 1.569275 loss: 24.168598 eta: 1 day, 10:04:46 batch_cost: 1.0283 data_cost: 0.0003 ips: 3.8900 images/s
loss_obj: 9.686218 loss_cls: 1.509976 loss: 22.250217 eta: 1 day, 10:05:07 batch_cost: 0.9506 data_cost: 0.0002 ips: 4.2078 images/s
loss_obj: 12.687757 loss_cls: 2.559426 loss: 31.277056 eta: 1 day, 10:03:50 batch_cost: 0.7417 data_cost: 0.0002 ips: 5.3928 images/s
loss_obj: 11.452593 loss_cls: 1.926382 loss: 27.083239 eta: 1 day, 10:03:40 batch_cost: 0.8848 data_cost: 0.0006 ips: 4.5208 images/s
```

New GPU:(Tesla P4)

```
Thu Aug 12 08:09:15 2021
+-----------------------------------------------------------------------------+
| NVIDIA-SMI 470.42.01    Driver Version: 460.32.03    CUDA Version: 11.2     |
|-------------------------------+----------------------+----------------------+
| GPU  Name        Persistence-M| Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp  Perf  Pwr:Usage/Cap|         Memory-Usage | GPU-Util  Compute M. |
|                               |                      |               MIG M. |
|===============================+======================+======================|
|   0  Tesla P4            Off  | 00000000:00:04.0 Off |                    0 |
| N/A   45C    P8     7W /  75W |      0MiB /  7611MiB |      0%      Default |
|                               |                      |                  N/A |
+-------------------------------+----------------------+----------------------+

+-----------------------------------------------------------------------------+
| Processes:                                                                  |
|  GPU   GI   CI        PID   Type   Process name                  GPU Memory |
|        ID   ID                                                   Usage      |
|=============================================================================|
|  No running processes found                                                 |
+-----------------------------------------------------------------------------+
```