# *ValueError: total size of new array must be unchanged*

Traceback (most recent call last):

File "/usr/lib/python2.7/multiprocessing/process.py", line 258, in \_bootstrap

self.run()

File "/usr/lib/python2.7/multiprocessing/process.py", line 114, in run

self.\_target(\*self.\_args, \*\*self.\_kwargs)

File "./tools/train\_faster\_rcnn\_alt\_opt.py", line 195, in train\_fast\_rcnn

max\_iters=max\_iters)

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 157, in train\_net

pretrained\_model=pretrained\_model)

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 53, in \_\_init\_\_

self.solver.net.layers[0].set\_roidb(roidb)

File "/home/tzn/py-faster-rcnn/tools/../lib/roi\_data\_layer/layer.py", line 68, in set\_roidb

self.\_shuffle\_roidb\_inds()

File "/home/tzn/py-faster-rcnn/tools/../lib/roi\_data\_layer/layer.py", line 35, in \_shuffle\_roidb\_inds

inds = np.reshape(inds, (-1, 2))

File "/usr/local/lib/python2.7/dist-packages/numpy/core/fromnumeric.py", line 225, in reshape

return reshape(newshape, order=order)

ValueError: total size of new array must be unchanged

总图片数为奇数

# *ZeroDivisionError: integer division or modulo by zero*

Traceback (most recent call last):

File "/usr/lib/python2.7/multiprocessing/process.py", line 258, in \_bootstrap

self.run()

File "/usr/lib/python2.7/multiprocessing/process.py", line 114, in run

self.\_target(\*self.\_args, \*\*self.\_kwargs)

File "./tools/train\_faster\_rcnn\_alt\_opt.py", line 129, in train\_rpn

max\_iters=max\_iters)

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 160, in train\_net

model\_paths = sw.train\_model(max\_iters)

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 101, in train\_model

self.solver.step(1)

File "/home/tzn/py-faster-rcnn/tools/../lib/roi\_data\_layer/layer.py", line 155, in forward

blobs = self.\_get\_next\_minibatch()

File "/home/tzn/py-faster-rcnn/tools/../lib/roi\_data\_layer/layer.py", line 74, in \_get\_next\_minibatch

return get\_minibatch(minibatch\_db, self.\_num\_classes)

File "/home/tzn/py-faster-rcnn/tools/../lib/roi\_data\_layer/minibatch.py", line 22, in get\_minibatch

assert(cfg.TRAIN.BATCH\_SIZE % num\_images == 0), \

ZeroDivisionError: integer division or modulo by zero

Xml文件内部有无效信息

# *IndexError: list index out of range*

Traceback (most recent call last):

File "/usr/lib/python2.7/multiprocessing/process.py", line 258, in \_bootstrap

self.run()

File "/usr/lib/python2.7/multiprocessing/process.py", line 114, in run

self.\_target(\*self.\_args, \*\*self.\_kwargs)

File "./tools/train\_faster\_rcnn\_alt\_opt.py", line 122, in train\_rpn

roidb, imdb = get\_roidb(imdb\_name)

File "./tools/train\_faster\_rcnn\_alt\_opt.py", line 67, in get\_roidb

roidb = get\_training\_roidb(imdb)

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 122, in get\_training\_roidb

rdl\_roidb.prepare\_roidb(imdb)

File "/home/tzn/py-faster-rcnn/tools/../lib/roi\_data\_layer/roidb.py", line 27, in prepare\_roidb

roidb[i]['image'] = imdb.image\_path\_at(i)

IndexError: list index out of range

未删除之前的缓存文件和output文件夹

# *KeyError: 'max\_overlaps'*

Traceback (most recent call last):

File "/usr/lib/python2.7/multiprocessing/process.py", line 258, in \_bootstrap

self.run()

File "/usr/lib/python2.7/multiprocessing/process.py", line 114, in run

self.\_target(\*self.\_args, \*\*self.\_kwargs)

File "./tools/train\_faster\_rcnn\_alt\_opt.py", line 129, in train\_rpn

max\_iters=max\_iters)

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 155, in train\_net

roidb = filter\_roidb(roidb)

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 145, in filter\_roidb

filtered\_roidb = [entry for entry in roidb if is\_valid(entry)]

File "/home/tzn/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 134, in is\_valid

overlaps = entry['max\_overlaps']

KeyError: 'max\_overlaps'

未删除之前的缓存文件和output文件夹

# *bbox\_loss = nan*

I0707 22:07:04.039875 10616 solver.cpp:229] Iteration 700, loss = nan

I0707 22:07:04.039930 10616 solver.cpp:245] Train net output #0: bbox\_loss = nan (\* 1 = nan loss)

I0707 22:07:04.039937 10616 solver.cpp:245] Train net output #1: cls\_loss = 0.108777 (\* 1 = 0.108777 loss)

学习率比较高（尝试降低学习率未果）

减小bndbox大小（Height,Width \* 3/4）🡪 8k4k8k4k 🡪 可以

# *TypeError: 'numpy.float64' object cannot be interpreted as an index*

Process Process-3:

Traceback (most recent call last):

File "/usr/lib/python2.7/multiprocessing/process.py", line 258, in \_bootstrap

self.run()

File "/usr/lib/python2.7/multiprocessing/process.py", line 114, in run

self.\_target(\*self.\_args, \*\*self.\_kwargs)

File "./tools/train\_faster\_rcnn\_alt\_opt.py", line 195, in train\_fast\_rcnn

max\_iters=max\_iters)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 160, in train\_net

model\_paths = sw.train\_model(max\_iters)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/fast\_rcnn/train.py", line 101, in train\_model

self.solver.step(1)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/roi\_data\_layer/layer.py", line 155, in forward

blobs = self.\_get\_next\_minibatch()

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/roi\_data\_layer/layer.py", line 74, in \_get\_next\_minibatch

return get\_minibatch(minibatch\_db, self.\_num\_classes)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/roi\_data\_layer/minibatch.py", line 55, in get\_minibatch

num\_classes)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/roi\_data\_layer/minibatch.py", line 100, in \_sample\_rois

fg\_inds, size=fg\_rois\_per\_this\_image, replace=False)

File "mtrand.pyx", line 1176, in mtrand.RandomState.choice (numpy/random/mtrand/mtrand.c:18822)

TypeError: 'numpy.float64' object cannot be interpreted as an index

Numpy版本太高

# *KeyError: 'actions1\_000009'*

Evaluating detections

Writing person VOC results file

VOC07 metric? Yes

Traceback (most recent call last):

File "./tools/test\_net.py", line 90, in <module>

test\_net(net, imdb, max\_per\_image=args.max\_per\_image, vis=args.vis)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/fast\_rcnn/test.py", line 295, in test\_net

imdb.evaluate\_detections(all\_boxes, output\_dir)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/datasets/pascal\_voc.py", line 322, in evaluate\_detections

self.\_do\_python\_eval(output\_dir)

File "/home/tzn/Github/py-faster-rcnn/tools/../lib/datasets/pascal\_voc.py", line 285, in \_do\_python\_eval

use\_07\_metric=use\_07\_metric)

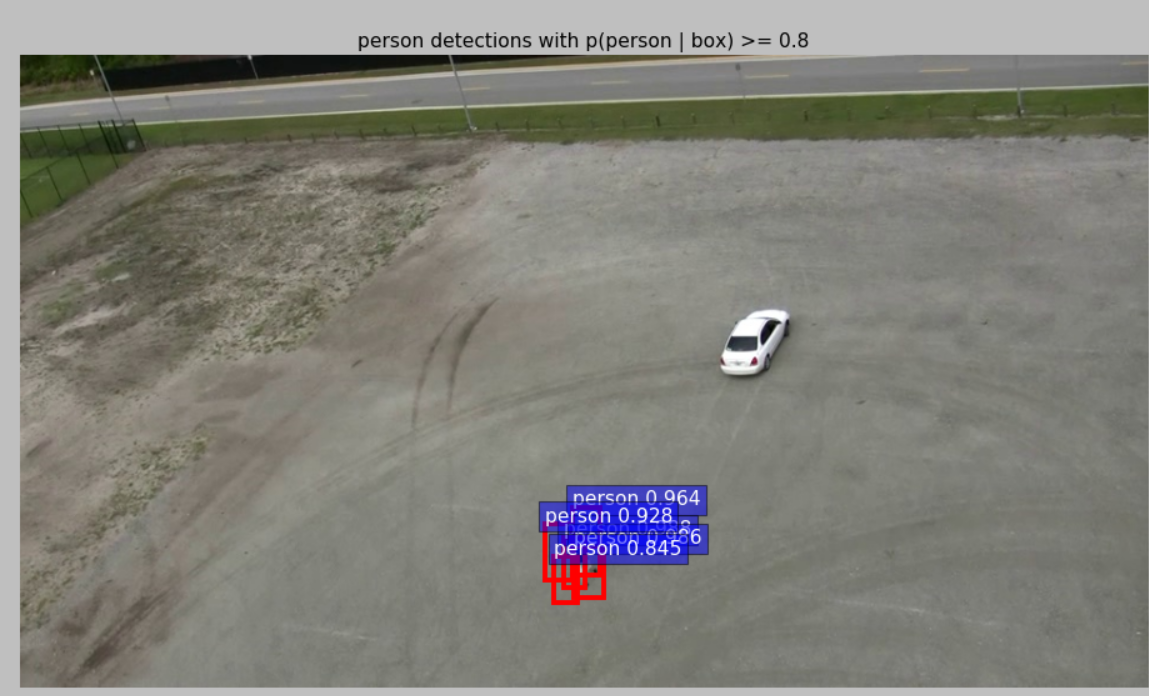
File "/home/tzn/Github/py-faster-rcnn/tools/../lib/datasets/voc\_eval.py", line 126, in voc\_eval

R = [obj for obj in recs[imagename] if obj['name'] == classname]

KeyError: 'actions1\_000009'

解决方法: 删除data/VOCdekit2007下的annotations\_cache文件夹

迭代次数较少时（actions1 的 512张图片）



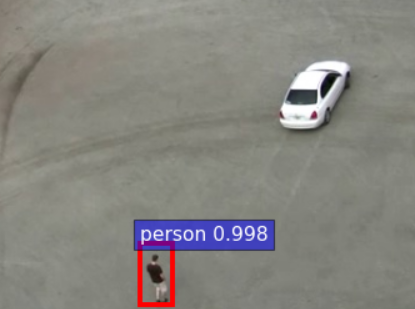


迭代次数加大后









# *RuntimeWarning: invalid value encountered in greater\_equal*

I0715 16:03:06.364894 2342 sgd\_solver.cpp:106] Iteration 0, lr = 0.01

/home1/tzn/01\_FasterRCNN/py-faster-rcnn\_20170711/tools/../lib/fast\_rcnn/bbox\_transform.py:48: RuntimeWarning: overflow encountered in exp

pred\_w = np.exp(dw) \* widths[:, np.newaxis]

/home1/tzn/01\_FasterRCNN/py-faster-rcnn\_20170711/tools/../lib/fast\_rcnn/bbox\_transform.py:48: RuntimeWarning: overflow encountered in multiply

pred\_w = np.exp(dw) \* widths[:, np.newaxis]

/home1/tzn/01\_FasterRCNN/py-faster-rcnn\_20170711/tools/../lib/fast\_rcnn/bbox\_transform.py:49: RuntimeWarning: overflow encountered in exp

pred\_h = np.exp(dh) \* heights[:, np.newaxis]

/home1/tzn/01\_FasterRCNN/py-faster-rcnn\_20170711/tools/../lib/fast\_rcnn/bbox\_transform.py:49: RuntimeWarning: overflow encountered in multiply

pred\_h = np.exp(dh) \* heights[:, np.newaxis]

/home1/tzn/01\_FasterRCNN/py-faster-rcnn\_20170711/tools/../lib/rpn/proposal\_layer.py:175:

RuntimeWarning: invalid value encountered in greater\_equal

keep = np.where((ws >= min\_size) & (hs >= min\_size))[0]

解决方法: 降低学习率

***Check failed: error == cudaSuccess (77 vs. 0)***

F0718 17:57:00.090955 3050 math\_functions.cu:79] Check failed: error == cudaSuccess (77 vs. 0) an illegal memory access was encountered

\*\*\* Check failure stack trace: \*\*\*

./experiments/scripts/faster\_rcnn\_end2end.sh: line 57: 3050 Aborted (core dumped) ./tools/train\_net.py --gpu ${GPU\_ID} --solver models/${PT\_DIR}/${NET}/faster\_rcnn\_end2end/solver.prototxt --weights data/imagenet\_models/${NET}.v2.caffemodel --imdb ${TRAIN\_IMDB} --iters ${ITERS} --cfg experiments/cfgs/faster\_rcnn\_end2end.yml ${EXTRA\_ARGS}

解决办法：检查内存使用情况。