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1 C:\Users\oguza\PycharmProjects\p1.py\venv\Scripts
  \python.exe "C:/Users/oguza/Google Drive/Computer
    Science/Research/dvn-master/reproduce_results.py
"
2 2018-01-09 15:25:26.604117: I C:\tf_jenkins\home\
  workspace\rel-win\M\windows\PY\35\tensorflow\core
  \platform\cpu_feature_guard.cc:137] Your CPU
  supports instructions that this TensorFlow binary
  was not compiled to use: AVX AVX2
3 Starting epoch 0 (it: 0)
4 Epoch took 3.84 seconds
5 Validation mean IOU: 0.416
6 Starting epoch 1 (it: 234)
7 Epoch took 3.36 seconds
8 Validation mean IOU: 0.570
9 Starting epoch 2 (it: 468)
10 Epoch took 3.15 seconds
11 Validation mean IOU: 0.518
12 Starting epoch 3 (it: 702)
13 Epoch took 3.10 seconds
14 Validation mean IOU: 0.590
15 Starting epoch 4 (it: 936)
16 Epoch took 3.13 seconds
17 Validation mean IOU: 0.646
18 Starting epoch 5 (it: 1170)
19 Epoch took 3.27 seconds
20 Validation mean IOU: 0.678
21 Starting epoch 6 (it: 1404)
22 Epoch took 3.33 seconds
23 Validation mean IOU: 0.595
24 Starting epoch 7 (it: 1638)
25 Epoch took 3.21 seconds
26 Validation mean IOU: 0.676
27 Starting epoch 8 (it: 1872)
28 Epoch took 3.13 seconds
29 Validation mean IOU: 0.760
30 Starting epoch 9 (it: 2106)
31 Epoch took 3.35 seconds
32 Validation mean IOU: 0.750
33 Starting epoch 10 (it: 2340)
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34 Epoch took 3.19 seconds
35 Validation mean IOU: 0.701
36 Starting epoch 11 (it: 2574)
37 Epoch took 3.14 seconds
38 Validation mean IOU: 0.736
39 Starting epoch 12 (it: 2808)
40 Epoch took 3.18 seconds
41 Validation mean IOU: 0.652
42 Starting epoch 13 (it: 3042)
43 Epoch took 3.13 seconds
44 Validation mean IOU: 0.749
45 Starting epoch 14 (it: 3276)
46 Epoch took 3.04 seconds
47 Validation mean IOU: 0.711
48 Starting epoch 15 (it: 3510)
49 Epoch took 3.24 seconds
50 Validation mean IOU: 0.717
51 Starting epoch 16 (it: 3744)
52 Epoch took 3.14 seconds
53 Validation mean IOU: 0.788
54 Starting epoch 17 (it: 3978)
55 Epoch took 3.12 seconds
56 Validation mean IOU: 0.710
57 Starting epoch 18 (it: 4212)
58 Epoch took 3.24 seconds
59 Validation mean IOU: 0.698
60 Starting epoch 19 (it: 4446)
61 Epoch took 3.29 seconds
62 Validation mean IOU: 0.730
63 Starting epoch 20 (it: 4680)
64 Epoch took 3.38 seconds
65 Validation mean IOU: 0.764
66 Starting epoch 21 (it: 4914)
67 Epoch took 3.17 seconds
68 Validation mean IOU: 0.795
69 Starting epoch 22 (it: 5148)
70 Epoch took 3.15 seconds
71 Validation mean IOU: 0.758
72 Starting epoch 23 (it: 5382)
73 Epoch took 3.12 seconds
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74 Validation mean IOU: 0.714
75 Starting epoch 24 (it: 5616)
76 Epoch took 3.16 seconds
77 Validation mean IOU: 0.774
78 Starting epoch 25 (it: 5850)
79 Epoch took 3.12 seconds
80 Validation mean IOU: 0.785
81 Starting epoch 26 (it: 6084)
82 Epoch took 3.05 seconds
83 Validation mean IOU: 0.779
84 Starting epoch 27 (it: 6318)
85 Epoch took 3.25 seconds
86 Validation mean IOU: 0.706
87 Starting epoch 28 (it: 6552)
88 Epoch took 3.22 seconds
89 Validation mean IOU: 0.757
90 Starting epoch 29 (it: 6786)
91 Epoch took 3.16 seconds
92 Validation mean IOU: 0.738
93 Starting epoch 30 (it: 7020)
94 Epoch took 3.23 seconds
95 Validation mean IOU: 0.746
96 Starting epoch 31 (it: 7254)
97 Epoch took 3.06 seconds
98 Validation mean IOU: 0.744
99 Starting epoch 32 (it: 7488)
100 Epoch took 3.18 seconds
101 Validation mean IOU: 0.713
102 Starting epoch 33 (it: 7722)
103 Epoch took 3.30 seconds
104 Validation mean IOU: 0.789
105 Starting epoch 34 (it: 7956)
106 Epoch took 3.35 seconds
107 Validation mean IOU: 0.758
108 Starting epoch 35 (it: 8190)
109 Epoch took 3.27 seconds
110 Validation mean IOU: 0.787
111 Starting epoch 36 (it: 8424)
112 Epoch took 3.36 seconds
113 Validation mean IOU: 0.784
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114 Starting epoch 37 (it: 8658)
115 Epoch took 3.46 seconds
116 Validation mean IOU: 0.698
117 Starting epoch 38 (it: 8892)
118 Epoch took 3.17 seconds
119 Validation mean IOU: 0.729
120 Starting epoch 39 (it: 9126)
121 Epoch took 3.33 seconds
122 Validation mean IOU: 0.786
123 Starting epoch 40 (it: 9360)
124 Epoch took 3.24 seconds
125 Validation mean IOU: 0.681
126 Starting epoch 41 (it: 9594)
127 Epoch took 3.18 seconds
128 Validation mean IOU: 0.782
129 Starting epoch 42 (it: 9828)
130 Epoch took 3.34 seconds
131 Validation mean IOU: 0.697
132 Starting epoch 43 (it: 10062)
133 Epoch took 3.16 seconds
134 Validation mean IOU: 0.792
135 Starting epoch 44 (it: 10296)
136 Epoch took 3.36 seconds
137 Validation mean IOU: 0.768
138 Starting epoch 45 (it: 10530)
139 Epoch took 3.21 seconds
140 Validation mean IOU: 0.753
141 Starting epoch 46 (it: 10764)
142 Epoch took 3.23 seconds
143 Validation mean IOU: 0.780
144 Starting epoch 47 (it: 10998)
145 Epoch took 3.31 seconds
146 Validation mean IOU: 0.736
147 Starting epoch 48 (it: 11232)
148 Epoch took 3.19 seconds
149 Validation mean IOU: 0.722
150 Starting epoch 49 (it: 11466)
151 Epoch took 3.26 seconds
152 Validation mean IOU: 0.719
153 Starting epoch 50 (it: 11700)
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154 Epoch took 3.34 seconds
155 Validation mean IOU: 0.776
156 Starting epoch 51 (it: 11934)
157 Epoch took 3.23 seconds
158 Validation mean IOU: 0.726
159 Starting epoch 52 (it: 12168)
160 Epoch took 3.28 seconds
161 Validation mean IOU: 0.721
162 Starting epoch 53 (it: 12402)
163 Epoch took 3.42 seconds
164 Validation mean IOU: 0.725
165 Starting epoch 54 (it: 12636)
166 Epoch took 3.33 seconds
167 Validation mean IOU: 0.752
168 Starting epoch 55 (it: 12870)
169 Epoch took 3.35 seconds
170 Validation mean IOU: 0.794
171 Starting epoch 56 (it: 13104)
172 Epoch took 3.96 seconds
173 Validation mean IOU: 0.775
174 Starting epoch 57 (it: 13338)
175 Epoch took 3.25 seconds
176 Validation mean IOU: 0.766
177 Starting epoch 58 (it: 13572)
178 Epoch took 3.14 seconds
179 Validation mean IOU: 0.735
180 Starting epoch 59 (it: 13806)
181 Epoch took 3.26 seconds
182 Validation mean IOU: 0.766
183 Starting epoch 60 (it: 14040)
184 Epoch took 3.10 seconds
185 Validation mean IOU: 0.762
186 Starting epoch 61 (it: 14274)
187 Epoch took 3.24 seconds
188 Validation mean IOU: 0.746
189 Starting epoch 62 (it: 14508)
190 Epoch took 3.19 seconds
191 Validation mean IOU: 0.733
192 Starting epoch 63 (it: 14742)
193 Epoch took 3.31 seconds
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194 Validation mean IOU: 0.755
195 Starting epoch 64 (it: 14976)
196 Epoch took 3.25 seconds
197 Validation mean IOU: 0.759
198 Starting epoch 65 (it: 15210)
199 Epoch took 3.40 seconds
200 Validation mean IOU: 0.738
201 Starting epoch 66 (it: 15444)
202 Epoch took 3.24 seconds
203 Validation mean IOU: 0.703
204 Starting epoch 67 (it: 15678)
205 Epoch took 3.11 seconds
206 Validation mean IOU: 0.745
207 Starting epoch 68 (it: 15912)
208 Epoch took 3.12 seconds
209 Validation mean IOU: 0.769
210 Starting epoch 69 (it: 16146)
211 Epoch took 3.17 seconds
212 Validation mean IOU: 0.697
213 Starting epoch 70 (it: 16380)
214 Epoch took 3.21 seconds
215 Validation mean IOU: 0.713
216 Starting epoch 71 (it: 16614)
217 Epoch took 3.22 seconds
218 Validation mean IOU: 0.717
219 Starting epoch 72 (it: 16848)
220 Epoch took 3.33 seconds
221 Validation mean IOU: 0.708
222 Starting epoch 73 (it: 17082)
223 Epoch took 3.24 seconds
224 Validation mean IOU: 0.765
225 Starting epoch 74 (it: 17316)
226 Epoch took 3.30 seconds
227 Validation mean IOU: 0.749
228 Starting epoch 75 (it: 17550)
229 Epoch took 3.38 seconds
230 Validation mean IOU: 0.793
231 Starting epoch 76 (it: 17784)
232 Epoch took 3.25 seconds
233 Validation mean IOU: 0.724
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234 Starting epoch 77 (it: 18018)
235 Epoch took 3.19 seconds
236 Validation mean IOU: 0.745
237 Starting epoch 78 (it: 18252)
238 Epoch took 3.14 seconds
239 Validation mean IOU: 0.740
240 Starting epoch 79 (it: 18486)
241 Epoch took 3.26 seconds
242 Validation mean IOU: 0.727
243 Starting epoch 80 (it: 18720)
244 Epoch took 3.27 seconds
245 Validation mean IOU: 0.767
246 Starting epoch 81 (it: 18954)
247 Epoch took 3.42 seconds
248 Validation mean IOU: 0.676
249 Starting epoch 82 (it: 19188)
250 Epoch took 3.30 seconds
251 Validation mean IOU: 0.718
252 Starting epoch 83 (it: 19422)
253 Epoch took 3.19 seconds
254 Validation mean IOU: 0.709
255 Starting epoch 84 (it: 19656)
256 Epoch took 3.32 seconds
257 Validation mean IOU: 0.785
258 Starting epoch 85 (it: 19890)
259 Epoch took 3.37 seconds
260 Validation mean IOU: 0.760
261 Starting epoch 86 (it: 20124)
262 Epoch took 3.25 seconds
263 Validation mean IOU: 0.781
264 Starting epoch 87 (it: 20358)
265 Epoch took 3.26 seconds
266 Validation mean IOU: 0.722
267 Starting epoch 88 (it: 20592)
268 Epoch took 3.27 seconds
269 Validation mean IOU: 0.779
270 Starting epoch 89 (it: 20826)
271 Epoch took 3.44 seconds
272 Validation mean IOU: 0.697
273 Starting epoch 90 (it: 21060)
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274 Epoch took 3.52 seconds
275 Validation mean IOU: 0.704
276 Starting epoch 91 (it: 21294)
277 Epoch took 3.35 seconds
278 Validation mean IOU: 0.759
279 Starting epoch 92 (it: 21528)
280 Epoch took 3.36 seconds
281 Validation mean IOU: 0.699
282 Starting epoch 93 (it: 21762)
283 Epoch took 3.44 seconds
284 Validation mean IOU: 0.794
285 Starting epoch 94 (it: 21996)
286 Epoch took 3.53 seconds
287 Validation mean IOU: 0.750
288 Starting epoch 95 (it: 22230)
289 Epoch took 3.43 seconds
290 Validation mean IOU: 0.766
291 Starting epoch 96 (it: 22464)
292 Epoch took 3.37 seconds
293 Validation mean IOU: 0.778
294 Starting epoch 97 (it: 22698)
295 Epoch took 3.39 seconds
296 Validation mean IOU: 0.779
297 Starting epoch 98 (it: 22932)
298 Epoch took 3.40 seconds
299 Validation mean IOU: 0.736
300 Starting epoch 99 (it: 23166)
301 Epoch took 3.69 seconds
302 Validation mean IOU: 0.685
303 Starting epoch 100 (it: 23400)
304 Epoch took 3.96 seconds
305 Validation mean IOU: 0.676
306 Starting epoch 101 (it: 23634)
307 Epoch took 3.57 seconds
308 Validation mean IOU: 0.743
309 Starting epoch 102 (it: 23868)
310 Epoch took 3.51 seconds
311 Validation mean IOU: 0.743
312 Starting epoch 103 (it: 24102)
313 Epoch took 3.57 seconds
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314 Validation mean IOU: 0.699
315 Starting epoch 104 (it: 24336)
316 Epoch took 3.44 seconds
317 Validation mean IOU: 0.682
318 Starting epoch 105 (it: 24570)
319 Epoch took 3.61 seconds
320 Validation mean IOU: 0.710
321 Starting epoch 106 (it: 24804)
322 Epoch took 3.49 seconds
323 Validation mean IOU: 0.768
324 Starting epoch 107 (it: 25038)
325 Epoch took 3.53 seconds
326 Validation mean IOU: 0.722
327 Starting epoch 108 (it: 25272)
328 Epoch took 3.58 seconds
329 Validation mean IOU: 0.694
330 Starting epoch 109 (it: 25506)
331 Epoch took 3.65 seconds
332 Validation mean IOU: 0.705
333 Starting epoch 110 (it: 25740)
334 Epoch took 3.60 seconds
335 Validation mean IOU: 0.629
336 Starting epoch 111 (it: 25974)
337 Epoch took 3.35 seconds
338 Validation mean IOU: 0.715
339 Starting epoch 112 (it: 26208)
340 Epoch took 3.48 seconds
341 Validation mean IOU: 0.775
342 Starting epoch 113 (it: 26442)
343 Epoch took 3.61 seconds
344 Validation mean IOU: 0.705
345 Starting epoch 114 (it: 26676)
346 Epoch took 3.45 seconds
347 Validation mean IOU: 0.779
348 Starting epoch 115 (it: 26910)
349 Epoch took 3.47 seconds
350 Validation mean IOU: 0.693
351 Starting epoch 116 (it: 27144)
352 Epoch took 3.55 seconds
353 Validation mean IOU: 0.701
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354 Starting epoch 117 (it: 27378)
355 Epoch took 3.41 seconds
356 Validation mean IOU: 0.797
357 Starting epoch 118 (it: 27612)
358 Epoch took 3.58 seconds
359 Validation mean IOU: 0.727
360 Starting epoch 119 (it: 27846)
361 Epoch took 3.48 seconds
362 Validation mean IOU: 0.743
363 Starting epoch 120 (it: 28080)
364 Epoch took 3.52 seconds
365 Validation mean IOU: 0.772
366 Starting epoch 121 (it: 28314)
367 Epoch took 3.55 seconds
368 Validation mean IOU: 0.712
369 Starting epoch 122 (it: 28548)
370 Epoch took 3.39 seconds
371 Validation mean IOU: 0.695
372 Starting epoch 123 (it: 28782)
373 Epoch took 3.41 seconds
374 Validation mean IOU: 0.758
375 Starting epoch 124 (it: 29016)
376 Epoch took 3.47 seconds
377 Validation mean IOU: 0.792
378 Starting epoch 125 (it: 29250)
379 Epoch took 3.50 seconds
380 Validation mean IOU: 0.740
381 Starting epoch 126 (it: 29484)
382 Epoch took 3.50 seconds
383 Validation mean IOU: 0.779
384 Starting epoch 127 (it: 29718)
385 Epoch took 3.54 seconds
386 Validation mean IOU: 0.773
387 Starting epoch 128 (it: 29952)
388 Epoch took 3.48 seconds
389 Validation mean IOU: 0.776
390 Starting epoch 129 (it: 30186)
391 Epoch took 3.46 seconds
392 Validation mean IOU: 0.719
393 Starting epoch 130 (it: 30420)
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394 Epoch took 3.49 seconds
395 Validation mean IOU: 0.746
396 Starting epoch 131 (it: 30654)
397 Epoch took 3.58 seconds
398 Validation mean IOU: 0.724
399 Starting epoch 132 (it: 30888)
400 Epoch took 3.64 seconds
401 Validation mean IOU: 0.712
402 Starting epoch 133 (it: 31122)
403 Epoch took 3.42 seconds
404 Validation mean IOU: 0.678
405 Starting epoch 134 (it: 31356)
406 Epoch took 3.45 seconds
407 Validation mean IOU: 0.783
408 Starting epoch 135 (it: 31590)
409 Epoch took 3.47 seconds
410 Validation mean IOU: 0.761
411 Starting epoch 136 (it: 31824)
412 Epoch took 3.43 seconds
413 Validation mean IOU: 0.716
414 Starting epoch 137 (it: 32058)
415 Epoch took 3.38 seconds
416 Validation mean IOU: 0.799
417 Starting epoch 138 (it: 32292)
418 Epoch took 3.48 seconds
419 Validation mean IOU: 0.775
420 Starting epoch 139 (it: 32526)
421 Epoch took 3.46 seconds
422 Validation mean IOU: 0.741
423 Starting epoch 140 (it: 32760)
424 Epoch took 3.41 seconds
425 Validation mean IOU: 0.792
426 Starting epoch 141 (it: 32994)
427 Epoch took 3.61 seconds
428 Validation mean IOU: 0.793
429 Starting epoch 142 (it: 33228)
430 Epoch took 3.42 seconds
431 Validation mean IOU: 0.768
432 Starting epoch 143 (it: 33462)
433 Epoch took 3.41 seconds
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434 Validation mean IOU: 0.769
435 Starting epoch 144 (it: 33696)
436 Epoch took 3.47 seconds
437 Validation mean IOU: 0.756
438 Starting epoch 145 (it: 33930)
439 Epoch took 3.87 seconds
440 Validation mean IOU: 0.783
441 Starting epoch 146 (it: 34164)
442 Epoch took 3.52 seconds
443 Validation mean IOU: 0.772
444 Starting epoch 147 (it: 34398)
445 Epoch took 3.43 seconds
446 Validation mean IOU: 0.736
447 Starting epoch 148 (it: 34632)
448 Epoch took 3.54 seconds
449 Validation mean IOU: 0.726
450 Starting epoch 149 (it: 34866)
451 Epoch took 3.47 seconds
452 Validation mean IOU: 0.790
453 Starting epoch 0 (it: 35100)
454 Epoch took 3.84 seconds
455 Validation mean IOU: 0.750
456 Starting epoch 1 (it: 35334)
457 Epoch took 3.48 seconds
458 Validation mean IOU: 0.752
459 Starting epoch 2 (it: 35568)
460 Epoch took 3.59 seconds
461 Validation mean IOU: 0.769
462 Starting epoch 3 (it: 35802)
463 Epoch took 3.47 seconds
464 Validation mean IOU: 0.759
465 Starting epoch 4 (it: 36036)
466 Epoch took 3.49 seconds
467 Validation mean IOU: 0.771
468 Starting epoch 5 (it: 36270)
469 Epoch took 3.60 seconds
470 Validation mean IOU: 0.759
471 Starting epoch 6 (it: 36504)
472 Epoch took 3.47 seconds
473 Validation mean IOU: 0.759
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474 Starting epoch 7 (it: 36738)
475 Epoch took 3.53 seconds
476 Validation mean IOU: 0.774
477 Starting epoch 8 (it: 36972)
478 Epoch took 3.55 seconds
479 Validation mean IOU: 0.751
480 Starting epoch 9 (it: 37206)
481 Epoch took 3.69 seconds
482 Validation mean IOU: 0.774
483 Starting epoch 10 (it: 37440)
484 Epoch took 3.61 seconds
485 Validation mean IOU: 0.775
486 Starting epoch 11 (it: 37674)
487 Epoch took 3.57 seconds
488 Validation mean IOU: 0.756
489 Starting epoch 12 (it: 37908)
490 Epoch took 3.55 seconds
491 Validation mean IOU: 0.751
492 Starting epoch 13 (it: 38142)
493 Epoch took 3.59 seconds
494 Validation mean IOU: 0.769
495 Starting epoch 14 (it: 38376)
496 Epoch took 3.69 seconds
497 Validation mean IOU: 0.769
498 Starting epoch 15 (it: 38610)
499 Epoch took 3.50 seconds
500 Validation mean IOU: 0.760
501 Starting epoch 16 (it: 38844)
502 Epoch took 3.57 seconds
503 Validation mean IOU: 0.766
504 Starting epoch 17 (it: 39078)
505 Epoch took 3.52 seconds
506 Validation mean IOU: 0.760
507 Starting epoch 18 (it: 39312)
508 Epoch took 3.52 seconds
509 Validation mean IOU: 0.760
510 Starting epoch 19 (it: 39546)
511 Epoch took 3.50 seconds
512 Validation mean IOU: 0.771
513 Starting epoch 20 (it: 39780)
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514 Epoch took 3.56 seconds
515 Validation mean IOU: 0.766
516 Starting epoch 21 (it: 40014)
517 Epoch took 3.90 seconds
518 Validation mean IOU: 0.768
519 Starting epoch 22 (it: 40248)
520 Epoch took 3.49 seconds
521 Validation mean IOU: 0.766
522 Starting epoch 23 (it: 40482)
523 Epoch took 3.50 seconds
524 Validation mean IOU: 0.772
525 Starting epoch 24 (it: 40716)
526 Epoch took 3.48 seconds
527 Validation mean IOU: 0.762
528 Starting epoch 25 (it: 40950)
529 Epoch took 3.43 seconds
530 Validation mean IOU: 0.764
531 Starting epoch 26 (it: 41184)
532 Epoch took 3.38 seconds
533 Validation mean IOU: 0.755
534 Starting epoch 27 (it: 41418)
535 Epoch took 3.47 seconds
536 Validation mean IOU: 0.749
537 Starting epoch 28 (it: 41652)
538 Epoch took 3.53 seconds
539 Validation mean IOU: 0.763
540 Starting epoch 29 (it: 41886)
541 Epoch took 3.57 seconds
542 Validation mean IOU: 0.754
543 Starting epoch 30 (it: 42120)
544 Epoch took 3.68 seconds
545 Validation mean IOU: 0.766
546 Starting epoch 31 (it: 42354)
547 Epoch took 3.60 seconds
548 Validation mean IOU: 0.764
549 Starting epoch 32 (it: 42588)
550 Epoch took 3.62 seconds
551 Validation mean IOU: 0.774
552 Starting epoch 33 (it: 42822)
553 Epoch took 3.59 seconds
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554 Validation mean IOU: 0.759
555 Starting epoch 34 (it: 43056)
556 Epoch took 3.61 seconds
557 Validation mean IOU: 0.767
558 Starting epoch 35 (it: 43290)
559 Epoch took 3.60 seconds
560 Validation mean IOU: 0.756
561 Starting epoch 36 (it: 43524)
562 Epoch took 3.54 seconds
563 Validation mean IOU: 0.759
564 Starting epoch 37 (it: 43758)
565 Epoch took 3.51 seconds
566 Validation mean IOU: 0.768
567 Starting epoch 38 (it: 43992)
568 Epoch took 3.47 seconds
569 Validation mean IOU: 0.764
570 Starting epoch 39 (it: 44226)
571 Epoch took 3.42 seconds
572 Validation mean IOU: 0.754
573 Starting epoch 40 (it: 44460)
574 Epoch took 3.51 seconds
575 Validation mean IOU: 0.762
576 Starting epoch 41 (it: 44694)
577 Epoch took 3.34 seconds
578 Validation mean IOU: 0.753
579 Starting epoch 42 (it: 44928)
580 Epoch took 3.61 seconds
581 Validation mean IOU: 0.765
582 Starting epoch 43 (it: 45162)
583 Epoch took 3.41 seconds
584 Validation mean IOU: 0.760
585 Starting epoch 44 (it: 45396)
586 Epoch took 3.50 seconds
587 Validation mean IOU: 0.744
588 Starting epoch 45 (it: 45630)
589 Epoch took 3.42 seconds
590 Validation mean IOU: 0.754
591 Starting epoch 46 (it: 45864)
592 Epoch took 3.49 seconds
593 Validation mean IOU: 0.769
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594 Starting epoch 47 (it: 46098)
595 Epoch took 3.51 seconds
596 Validation mean IOU: 0.749
597 Starting epoch 48 (it: 46332)
598 Epoch took 3.52 seconds
599 Validation mean IOU: 0.767
600 Starting epoch 49 (it: 46566)
601 Epoch took 3.40 seconds
602 Validation mean IOU: 0.760
603 Starting epoch 50 (it: 46800)
604 Epoch took 3.38 seconds
605 Validation mean IOU: 0.763
606 Starting epoch 51 (it: 47034)
607 Epoch took 3.46 seconds
608 Validation mean IOU: 0.757
609 Starting epoch 52 (it: 47268)
610 Epoch took 3.46 seconds
611 Validation mean IOU: 0.740
612 Starting epoch 53 (it: 47502)
613 Epoch took 3.43 seconds
614 Validation mean IOU: 0.759
615 Starting epoch 54 (it: 47736)
616 Epoch took 3.40 seconds
617 Validation mean IOU: 0.754
618 Starting epoch 55 (it: 47970)
619 Epoch took 3.45 seconds
620 Validation mean IOU: 0.767
621 Starting epoch 56 (it: 48204)
622 Epoch took 3.46 seconds
623 Validation mean IOU: 0.761
624 Starting epoch 57 (it: 48438)
625 Epoch took 3.55 seconds
626 Validation mean IOU: 0.774
627 Starting epoch 58 (it: 48672)
628 Epoch took 3.55 seconds
629 Validation mean IOU: 0.761
630 Starting epoch 59 (it: 48906)
631 Epoch took 3.53 seconds
632 Validation mean IOU: 0.763
633 Starting epoch 60 (it: 49140)
```

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634 Epoch took 3.47 seconds
635 Validation mean IOU: 0.773
636 Starting epoch 61 (it: 49374)
637 Epoch took 3.43 seconds
638 Validation mean IOU: 0.757
639 Starting epoch 62 (it: 49608)
640 Epoch took 3.49 seconds
641 Validation mean IOU: 0.774
642 Starting epoch 63 (it: 49842)
643 Epoch took 3.48 seconds
644 Validation mean IOU: 0.757
645 Starting epoch 64 (it: 50076)
646 Epoch took 3.47 seconds
647 Validation mean IOU: 0.754
648 Starting epoch 65 (it: 50310)
649 Epoch took 3.56 seconds
650 Validation mean IOU: 0.771
651 Starting epoch 66 (it: 50544)
652 Epoch took 3.61 seconds
653 Validation mean IOU: 0.770
654 Starting epoch 67 (it: 50778)
655 Epoch took 3.47 seconds
656 Validation mean IOU: 0.753
657 Starting epoch 68 (it: 51012)
658 Epoch took 3.51 seconds
659 Validation mean IOU: 0.760
660 Starting epoch 69 (it: 51246)
661 Epoch took 3.39 seconds
662 Validation mean IOU: 0.750
663 Starting epoch 70 (it: 51480)
664 Epoch took 3.45 seconds
665 Validation mean IOU: 0.760
666 Starting epoch 71 (it: 51714)
667 Epoch took 3.43 seconds
668 Validation mean IOU: 0.755
669 Starting epoch 72 (it: 51948)
670 Epoch took 3.45 seconds
671 Validation mean IOU: 0.752
672 Starting epoch 73 (it: 52182)
673 Epoch took 3.50 seconds
```

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674 Validation mean IOU: 0.750
675 Starting epoch 74 (it: 52416)
676 Epoch took 3.47 seconds
677 Validation mean IOU: 0.748
678 Starting epoch 75 (it: 52650)
679 Epoch took 3.51 seconds
680 Validation mean IOU: 0.765
681 Starting epoch 76 (it: 52884)
682 Epoch took 3.48 seconds
683 Validation mean IOU: 0.760
684 Starting epoch 77 (it: 53118)
685 Epoch took 3.67 seconds
686 Validation mean IOU: 0.772
687 Starting epoch 78 (it: 53352)
688 Epoch took 3.45 seconds
689 Validation mean IOU: 0.764
690 Starting epoch 79 (it: 53586)
691 Epoch took 3.48 seconds
692 Validation mean IOU: 0.763
693 Starting epoch 80 (it: 53820)
694 Epoch took 4.27 seconds
695 Validation mean IOU: 0.759
696 Starting epoch 81 (it: 54054)
697 Epoch took 3.68 seconds
698 Validation mean IOU: 0.772
699 Starting epoch 82 (it: 54288)
700 Epoch took 3.58 seconds
701 Validation mean IOU: 0.739
702 Starting epoch 83 (it: 54522)
703 Epoch took 3.51 seconds
704 Validation mean IOU: 0.769
705 Starting epoch 84 (it: 54756)
706 Epoch took 3.84 seconds
707 Validation mean IOU: 0.751
708 Starting epoch 85 (it: 54990)
709 Epoch took 3.38 seconds
710 Validation mean IOU: 0.751
711 Starting epoch 86 (it: 55224)
712 Epoch took 3.66 seconds
713 Validation mean IOU: 0.768
```

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714 Starting epoch 87 (it: 55458)
715 Epoch took 3.85 seconds
716 Validation mean IOU: 0.767
717 Starting epoch 88 (it: 55692)
718 Epoch took 3.60 seconds
719 Validation mean IOU: 0.754
720 Starting epoch 89 (it: 55926)
721 Epoch took 3.43 seconds
722 Validation mean IOU: 0.755
723 Starting epoch 90 (it: 56160)
724 Epoch took 3.48 seconds
725 Validation mean IOU: 0.737
726 Starting epoch 91 (it: 56394)
727 Epoch took 3.52 seconds
728 Validation mean IOU: 0.757
729 Starting epoch 92 (it: 56628)
730 Epoch took 3.45 seconds
731 Validation mean IOU: 0.745
732 Starting epoch 93 (it: 56862)
733 Epoch took 3.63 seconds
734 Validation mean IOU: 0.756
735 Starting epoch 94 (it: 57096)
736 Epoch took 3.49 seconds
737 Validation mean IOU: 0.766
738 Starting epoch 95 (it: 57330)
739 Epoch took 3.56 seconds
740 Validation mean IOU: 0.774
741 Starting epoch 96 (it: 57564)
742 Epoch took 3.61 seconds
743 Validation mean IOU: 0.761
744 Starting epoch 97 (it: 57798)
745 Epoch took 3.49 seconds
746 Validation mean IOU: 0.765
747 Starting epoch 98 (it: 58032)
748 Epoch took 3.45 seconds
749 Validation mean IOU: 0.767
750 Starting epoch 99 (it: 58266)
751 Epoch took 3.49 seconds
752 Validation mean IOU: 0.754
753 Starting epoch 100 (it: 58500)
```

```
754 Epoch took 3.47 seconds
755 Validation mean IOU: 0.767
756 Starting epoch 101 (it: 58734)
757 Epoch took 3.64 seconds
758 Validation mean IOU: 0.749
759 Starting epoch 102 (it: 58968)
760 Epoch took 4.16 seconds
761 Validation mean IOU: 0.750
762 Starting epoch 103 (it: 59202)
763 Epoch took 3.71 seconds
764 Validation mean IOU: 0.755
765 Starting epoch 104 (it: 59436)
766 Epoch took 3.63 seconds
767 Validation mean IOU: 0.749
768 Starting epoch 105 (it: 59670)
769 Epoch took 3.58 seconds
770 Validation mean IOU: 0.758
771 Starting epoch 106 (it: 59904)
772 Epoch took 3.59 seconds
773 Validation mean IOU: 0.766
774 Starting epoch 107 (it: 60138)
775 Epoch took 3.64 seconds
776 Validation mean IOU: 0.761
777 Starting epoch 108 (it: 60372)
778 Epoch took 3.59 seconds
779 Validation mean IOU: 0.754
780 Starting epoch 109 (it: 60606)
781 Epoch took 3.75 seconds
782 Validation mean IOU: 0.764
783 Starting epoch 110 (it: 60840)
784 Epoch took 3.48 seconds
785 Validation mean IOU: 0.756
786 Starting epoch 111 (it: 61074)
787 Epoch took 4.12 seconds
788 Validation mean IOU: 0.765
789 Starting epoch 112 (it: 61308)
790 Epoch took 3.66 seconds
791 Validation mean IOU: 0.740
792 Starting epoch 113 (it: 61542)
793 Epoch took 3.48 seconds
```

```
794 Validation mean IOU: 0.764
795 Starting epoch 114 (it: 61776)
796 Epoch took 3.51 seconds
797 Validation mean IOU: 0.755
798 Starting epoch 115 (it: 62010)
799 Epoch took 3.46 seconds
800 Validation mean IOU: 0.760
801 Starting epoch 116 (it: 62244)
802 Epoch took 3.44 seconds
803 Validation mean IOU: 0.757
804 Starting epoch 117 (it: 62478)
805 Epoch took 3.50 seconds
806 Validation mean IOU: 0.767
807 Starting epoch 118 (it: 62712)
808 Epoch took 3.45 seconds
809 Validation mean IOU: 0.764
810 Starting epoch 119 (it: 62946)
811 Epoch took 3.33 seconds
812 Validation mean IOU: 0.755
813 Starting epoch 120 (it: 63180)
814 Epoch took 3.47 seconds
815 Validation mean IOU: 0.769
816 Starting epoch 121 (it: 63414)
817 Epoch took 3.46 seconds
818 Validation mean IOU: 0.771
819 Starting epoch 122 (it: 63648)
820 Epoch took 3.60 seconds
821 Validation mean IOU: 0.757
822 Starting epoch 123 (it: 63882)
823 Epoch took 3.61 seconds
824 Validation mean IOU: 0.754
825 Starting epoch 124 (it: 64116)
826 Epoch took 3.58 seconds
827 Validation mean IOU: 0.757
828 Starting epoch 125 (it: 64350)
829 Epoch took 3.58 seconds
830 Validation mean IOU: 0.768
831 Starting epoch 126 (it: 64584)
832 Epoch took 3.58 seconds
833 Validation mean IOU: 0.754
```

```
834 Starting epoch 127 (it: 64818)
835 Epoch took 3.71 seconds
836 Validation mean IOU: 0.756
837 Starting epoch 128 (it: 65052)
838 Epoch took 3.60 seconds
839 Validation mean IOU: 0.764
840 Starting epoch 129 (it: 65286)
841 Epoch took 3.58 seconds
842 Validation mean IOU: 0.766
843 Starting epoch 130 (it: 65520)
844 Epoch took 3.54 seconds
845 Validation mean IOU: 0.767
846 Starting epoch 131 (it: 65754)
847 Epoch took 3.45 seconds
848 Validation mean IOU: 0.763
849 Starting epoch 132 (it: 65988)
850 Epoch took 3.43 seconds
851 Validation mean IOU: 0.747
852 Starting epoch 133 (it: 66222)
853 Epoch took 3.42 seconds
854 Validation mean IOU: 0.762
855 Starting epoch 134 (it: 66456)
856 Epoch took 3.54 seconds
857 Validation mean IOU: 0.761
858 Starting epoch 135 (it: 66690)
859 Epoch took 3.44 seconds
860 Validation mean IOU: 0.757
861 Starting epoch 136 (it: 66924)
862 Epoch took 3.47 seconds
863 Validation mean IOU: 0.757
864 Starting epoch 137 (it: 67158)
865 Epoch took 3.46 seconds
866 Validation mean IOU: 0.763
867 Starting epoch 138 (it: 67392)
868 Epoch took 3.45 seconds
869 Validation mean IOU: 0.764
870 Starting epoch 139 (it: 67626)
871 Epoch took 3.45 seconds
872 Validation mean IOU: 0.756
873 Starting epoch 140 (it: 67860)
```

```
874 Epoch took 3.57 seconds
875 Validation mean IOU: 0.757
876 Starting epoch 141 (it: 68094)
877 Epoch took 3.50 seconds
878 Validation mean IOU: 0.754
879 Starting epoch 142 (it: 68328)
880 Epoch took 3.46 seconds
881 Validation mean IOU: 0.758
882 Starting epoch 143 (it: 68562)
883 Epoch took 3.54 seconds
884 Validation mean IOU: 0.774
885 Starting epoch 144 (it: 68796)
886 Epoch took 3.49 seconds
887 Validation mean IOU: 0.764
888 Starting epoch 145 (it: 69030)
889 Epoch took 3.46 seconds
890 Validation mean IOU: 0.757
891 Starting epoch 146 (it: 69264)
892 Epoch took 3.38 seconds
893 Validation mean IOU: 0.752
894 Starting epoch 147 (it: 69498)
895 Epoch took 3.59 seconds
896 Validation mean IOU: 0.759
897 Starting epoch 148 (it: 69732)
898 Epoch took 3.49 seconds
899 Validation mean IOU: 0.757
900 Starting epoch 149 (it: 69966)
901 Epoch took 3.49 seconds
902 Validation mean IOU: 0.754
903 Starting epoch 0 (it: 70200)
904 Epoch took 4.30 seconds
905 Validation mean IOU: 0.763
906 Starting epoch 1 (it: 70434)
907 Epoch took 3.55 seconds
908 Validation mean IOU: 0.760
909 Starting epoch 2 (it: 70668)
910 Epoch took 3.42 seconds
911 Validation mean IOU: 0.756
912 Starting epoch 3 (it: 70902)
913 Epoch took 3.51 seconds
```

```
914 Validation mean IOU: 0.760
915 Starting epoch 4 (it: 71136)
916 Epoch took 3.56 seconds
917 Validation mean IOU: 0.761
918 Starting epoch 5 (it: 71370)
919 Epoch took 3.56 seconds
920 Validation mean IOU: 0.762
921 Starting epoch 6 (it: 71604)
922 Epoch took 3.51 seconds
923 Validation mean IOU: 0.760
924 Starting epoch 7 (it: 71838)
925 Epoch took 3.55 seconds
926 Validation mean IOU: 0.760
927 Starting epoch 8 (it: 72072)
928 Epoch took 3.64 seconds
929 Validation mean IOU: 0.762
930 Starting epoch 9 (it: 72306)
931 Epoch took 3.80 seconds
932 Validation mean IOU: 0.761
933 Starting epoch 10 (it: 72540)
934 Epoch took 3.41 seconds
935 Validation mean IOU: 0.760
936 Starting epoch 11 (it: 72774)
937 Epoch took 3.39 seconds
938 Validation mean IOU: 0.755
939 Starting epoch 12 (it: 73008)
940 Epoch took 3.45 seconds
941 Validation mean IOU: 0.759
942 Starting epoch 13 (it: 73242)
943 Epoch took 3.44 seconds
944 Validation mean IOU: 0.761
945 Starting epoch 14 (it: 73476)
946 Epoch took 3.40 seconds
947 Validation mean IOU: 0.759
948 Starting epoch 15 (it: 73710)
949 Epoch took 3.50 seconds
950 Validation mean IOU: 0.761
951 Starting epoch 16 (it: 73944)
952 Epoch took 3.49 seconds
953 Validation mean IOU: 0.763
```

```
954 Starting epoch 17 (it: 74178)
955 Epoch took 3.94 seconds
956 Validation mean IOU: 0.764
957 Starting epoch 18 (it: 74412)
958 Epoch took 3.48 seconds
959 Validation mean IOU: 0.761
960 Starting epoch 19 (it: 74646)
961 Epoch took 3.47 seconds
962 Validation mean IOU: 0.761
963 Starting epoch 20 (it: 74880)
964 Epoch took 3.58 seconds
965 Validation mean IOU: 0.764
966 Starting epoch 21 (it: 75114)
967 Epoch took 3.52 seconds
968 Validation mean IOU: 0.761
969 Starting epoch 22 (it: 75348)
970 Epoch took 3.61 seconds
971 Validation mean IOU: 0.763
972 Starting epoch 23 (it: 75582)
973 Epoch took 3.47 seconds
974 Validation mean IOU: 0.765
975 Starting epoch 24 (it: 75816)
976 Epoch took 3.64 seconds
977 Validation mean IOU: 0.763
978 Starting epoch 25 (it: 76050)
979 Epoch took 3.47 seconds
980 Validation mean IOU: 0.760
981 Starting epoch 26 (it: 76284)
982 Epoch took 3.59 seconds
983 Validation mean IOU: 0.758
984 Starting epoch 27 (it: 76518)
985 Epoch took 3.50 seconds
986 Validation mean IOU: 0.761
987 Starting epoch 28 (it: 76752)
988 Epoch took 3.36 seconds
989 Validation mean IOU: 0.758
990 Starting epoch 29 (it: 76986)
991 Epoch took 3.37 seconds
992 Validation mean IOU: 0.764
993 Starting epoch 30 (it: 77220)
```

```
994 Epoch took 3.39 seconds
995 Validation mean IOU: 0.760
996 Starting epoch 31 (it: 77454)
997 Epoch took 3.45 seconds
998 Validation mean IOU: 0.763
999 Starting epoch 32 (it: 77688)
1000 Epoch took 3.36 seconds
1001 Validation mean IOU: 0.762
1002 Starting epoch 33 (it: 77922)
1003 Epoch took 3.35 seconds
1004 Validation mean IOU: 0.764
1005 Starting epoch 34 (it: 78156)
1006 Epoch took 3.38 seconds
1007 Validation mean IOU: 0.761
1008 Starting epoch 35 (it: 78390)
1009 Epoch took 3.35 seconds
1010 Validation mean IOU: 0.757
1011 Starting epoch 36 (it: 78624)
1012 Epoch took 3.37 seconds
1013 Validation mean IOU: 0.761
1014 Starting epoch 37 (it: 78858)
1015 Epoch took 3.37 seconds
1016 Validation mean IOU: 0.757
1017 Starting epoch 38 (it: 79092)
1018 Epoch took 3.36 seconds
1019 Validation mean IOU: 0.758
1020 Starting epoch 39 (it: 79326)
1021 Epoch took 3.33 seconds
1022 Validation mean IOU: 0.758
1023 Starting epoch 40 (it: 79560)
1024 Epoch took 4.61 seconds
1025 Validation mean IOU: 0.761
1026 Starting epoch 41 (it: 79794)
1027 Epoch took 3.47 seconds
1028 Validation mean IOU: 0.764
1029 Starting epoch 42 (it: 80028)
1030 Epoch took 3.84 seconds
1031 Validation mean IOU: 0.761
1032 Starting epoch 43 (it: 80262)
1033 Epoch took 3.45 seconds
```

```
1034 Validation mean IOU: 0.757
1035 Starting epoch 44 (it: 80496)
1036 Epoch took 3.56 seconds
1037 Validation mean IOU: 0.762
1038 Starting epoch 45 (it: 80730)
1039 Epoch took 3.56 seconds
1040 Validation mean IOU: 0.760
1041 Starting epoch 46 (it: 80964)
1042 Epoch took 3.50 seconds
1043 Validation mean IOU: 0.761
1044 Starting epoch 47 (it: 81198)
1045 Epoch took 3.39 seconds
1046 Validation mean IOU: 0.760
1047 Starting epoch 48 (it: 81432)
1048 Epoch took 3.35 seconds
1049 Validation mean IOU: 0.760
1050 Starting epoch 49 (it: 81666)
1051 Epoch took 3.42 seconds
1052 Validation mean IOU: 0.762
1053 Starting epoch 50 (it: 81900)
1054 Epoch took 3.39 seconds
1055 Validation mean IOU: 0.762
1056 Starting epoch 51 (it: 82134)
1057 Epoch took 3.36 seconds
1058 Validation mean IOU: 0.760
1059 Starting epoch 52 (it: 82368)
1060 Epoch took 3.43 seconds
1061 Validation mean IOU: 0.764
1062 Starting epoch 53 (it: 82602)
1063 Epoch took 3.44 seconds
1064 Validation mean IOU: 0.760
1065 Starting epoch 54 (it: 82836)
1066 Epoch took 3.40 seconds
1067 Validation mean IOU: 0.762
1068 Starting epoch 55 (it: 83070)
1069 Epoch took 3.48 seconds
1070 Validation mean IOU: 0.764
1071 Starting epoch 56 (it: 83304)
1072 Epoch took 3.40 seconds
1073 Validation mean IOU: 0.761
```

```
1074 Starting epoch 57 (it: 83538)
1075 Epoch took 4.53 seconds
1076 Validation mean IOU: 0.755
1077 Starting epoch 58 (it: 83772)
1078 Epoch took 4.57 seconds
1079 Validation mean IOU: 0.764
1080 Starting epoch 59 (it: 84006)
1081 Epoch took 3.47 seconds
1082 Validation mean IOU: 0.759
1083 Starting epoch 60 (it: 84240)
1084 Epoch took 3.56 seconds
1085 Validation mean IOU: 0.761
1086 Starting epoch 61 (it: 84474)
1087 Epoch took 3.41 seconds
1088 Validation mean IOU: 0.760
1089 Starting epoch 62 (it: 84708)
1090 Epoch took 3.46 seconds
1091 Validation mean IOU: 0.761
1092 Starting epoch 63 (it: 84942)
1093 Epoch took 3.45 seconds
1094 Validation mean IOU: 0.759
1095 Starting epoch 64 (it: 85176)
1096 Epoch took 3.50 seconds
1097 Validation mean IOU: 0.760
1098 Starting epoch 65 (it: 85410)
1099 Epoch took 3.39 seconds
1100 Validation mean IOU: 0.759
1101 Starting epoch 66 (it: 85644)
1102 Epoch took 3.43 seconds
1103 Validation mean IOU: 0.764
1104 Starting epoch 67 (it: 85878)
1105 Epoch took 3.50 seconds
1106 Validation mean IOU: 0.762
1107 Starting epoch 68 (it: 86112)
1108 Epoch took 3.59 seconds
1109 Validation mean IOU: 0.759
1110 Starting epoch 69 (it: 86346)
1111 Epoch took 3.43 seconds
1112 Validation mean IOU: 0.760
1113 Starting epoch 70 (it: 86580)
```

```
1114 Epoch took 3.39 seconds
1115 Validation mean IOU: 0.762
1116 Starting epoch 71 (it: 86814)
1117 Epoch took 3.44 seconds
1118 Validation mean IOU: 0.758
1119 Starting epoch 72 (it: 87048)
1120 Epoch took 3.59 seconds
1121 Validation mean IOU: 0.762
1122 Starting epoch 73 (it: 87282)
1123 Epoch took 3.92 seconds
1124 Validation mean IOU: 0.761
1125 Starting epoch 74 (it: 87516)
1126 Epoch took 3.56 seconds
1127 Validation mean IOU: 0.764
1128 Starting epoch 0 (it: 87750)
1129 Epoch took 3.61 seconds
1130 Starting epoch 1 (it: 87996)
1131 Epoch took 3.73 seconds
1132 Starting epoch 2 (it: 88242)
1133 Epoch took 3.72 seconds
1134 Starting epoch 3 (it: 88488)
1135 Epoch took 3.69 seconds
1136 Starting epoch 4 (it: 88734)
1137 Epoch took 3.71 seconds
1138 Starting epoch 5 (it: 88980)
1139 Epoch took 3.70 seconds
1140 Starting epoch 6 (it: 89226)
1141 Epoch took 3.75 seconds
1142 Starting epoch 7 (it: 89472)
1143 Epoch took 3.73 seconds
1144 Starting epoch 8 (it: 89718)
1145 Epoch took 3.74 seconds
1146 Starting epoch 9 (it: 89964)
1147 Epoch took 3.77 seconds
1148 Starting epoch 10 (it: 90210)
1149 Epoch took 3.74 seconds
1150 Starting epoch 11 (it: 90456)
1151 Epoch took 3.71 seconds
1152 Starting epoch 12 (it: 90702)
1153 Epoch took 3.64 seconds
```

```
1154 Starting epoch 13 (it: 90948)
1155 Epoch took 3.72 seconds
1156 Starting epoch 14 (it: 91194)
1157 Epoch took 3.68 seconds
1158 0.500 (0 of 2000)
1159 0.851 (100 of 2000)
1160 0.850 (200 of 2000)
1161 0.846 (300 of 2000)
1162 0.849 (400 of 2000)
1163 0.846 (500 of 2000)
1164 0.844 (600 of 2000)
1165 0.842 (700 of 2000)
1166 0.839 (800 of 2000)
1167 0.838 (900 of 2000)
1168 0.839 (1000 of 2000)
1169 0.844 (1100 of 2000)
1170 0.845 (1200 of 2000)
1171 0.847 (1300 of 2000)
1172 0.847 (1400 of 2000)
1173 0.845 (1500 of 2000)
1174 0.845 (1600 of 2000)
1175 0.844 (1700 of 2000)
1176 0.843 (1800 of 2000)
1177 0.842 (1900 of 2000)
1178 0.843
1179
1180 Process finished with exit code 0
1181
```