Oct 03, 18 19:13	CIFAR100OUT.txt	Page 1/4
(venv) ostap@ostap-All-Ser	ies:~/Documents/DeepLearning/hw4curro\$	python CIFAR100
.py		
Using TensorFlow backend.	1) (10000, 32, 32, 3) (10000, 1)	
Training features shape:		
Validation features shape:		
Test features shape: (100	00, 32, 32, 3)	
	: I tensorflow/core/platform/cpu_featur	
	tions that this TensorFlow binary was r	not compiled to
use: AVX2 FMA	: I tensorflow/stream_executor/cuda/cud	la anu ovoqutor
	de read from SysFS had negative value	
	node, so returning NUMA node zero	(1), but there
	: I tensorflow/core/common_runtime/gpu/	gpu_device.cc:1
411] Found device 0 with p		-
	r: 5 minor: 2 memoryClockRate(GHz): 1.2	2785
pciBusID: 0000:01:00.0	1	
totalMemory: 3.94GiB freeM	<pre>emory: 3.04G1B : I tensorflow/stream executor/cuda/cuda/cuda/cuda/cuda/cuda/cuda/cuda</pre>	da anu evecutor
	de read from SysFS had negative value	
	node, so returning NUMA node zero	(_, ,
2018-10-03 18:52:53.614870	: I tensorflow/core/common_runtime/gpu/	gpu_device.cc:1
411] Found device 1 with p		
	r: 5 minor: 2 memoryClockRate(GHz): 1.3	329
<pre>pciBusID: 0000:02:00.0 totalMemory: 3.94GiB freeM</pre>	lomoru: 3 87CiB	
	: I tensorflow/core/common_runtime/qpu/	anu device.cc:1
490] Adding visible gpu de		5F
	: I tensorflow/core/common_runtime/gpu/	
	reamExecutor with strength 1 edge matri	
	: I tensorflow/core/common_runtime/gpu/	'gpu_device.cc:9
77] 0 1	: I tensorflow/core/common_runtime/qpu/	/any dovice co.9
901 0: N Y	. I temsorilow/core/common_runtime/gpu/	gpu_uevice.cc.y
	: I tensorflow/core/common_runtime/gpu/	gpu_device.cc:9
90] 1: Y N		-
	: I tensorflow/core/common_runtime/gpu/	
	vice (/job:localhost/replica:0/task:0/c	
0000:01:00.0, compute cap	cal GPU (device: 0, name: GeForce GTX 9	980, pc1 bus 1a:
	: I tensorflow/core/common_runtime/qpu/	apu device.cc:1
103] Created TensorFlow de	vice (/job:localhost/replica:0/task:0/c	device:GPU:1 wit
	cal GPU (device: 1, name: GeForce GTX 9	970, pci bus id:
0000:02:00.0, compute cap	ability: 5.2)	
Layer (type)	Output Shape Param #	-
	(Name 22 22 22) 1500	=
conv2d_1 (Conv2D)	(None, 32, 32, 32) 1568	
	(N 20 20 20) 0	-

Layer (type)	Output	Shaj	ре		Param #
conv2d_1 (Conv2D)	(None,	32,	32,	32)	1568
activation_1 (Activation)	(None,	32,	32,	32)	0
batch_normalization_1 (Batch	(None,	32,	32,	32)	128
conv2d_2 (Conv2D)	(None,	32,	32,	32)	9248
activation_2 (Activation)	(None,	32,	32,	32)	0
max_pooling2d_1 (MaxPooling2	(None,	16,	16,	32)	0
dropout_1 (Dropout)	(None,	16,	16,	32)	0
conv2d_3 (Conv2D)	(None,	16,	16,	64)	18496
activation_3 (Activation)	(None,	16,	16,	64)	0
batch_normalization_2 (Batch	(None,	16,	16,	64)	256
conv2d_4 (Conv2D)	(None,	16,	16,	64)	65600

				Printed by ostar
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activation_4 (Activation)	(None,	16, 16, 64)	0	
batch_normalization_3 (Batch	(None,	16, 16, 64)	256	
max_pooling2d_2 (MaxPooling2	(None,	8, 8, 64)	0	
dropout_2 (Dropout)	(None,	8, 8, 64)	0	
conv2d_5 (Conv2D)	(None,	8, 8, 128)	204928	
activation_5 (Activation)	(None,	8, 8, 128)	0	
batch_normalization_4 (Batch	(None,	8, 8, 128)	512	
conv2d_6 (Conv2D)	(None,	8, 8, 128)	65664	
activation_6 (Activation)	(None,	8, 8, 128)	0	
batch_normalization_5 (Batch	(None,	8, 8, 128)	512	
max_pooling2d_3 (MaxPooling2	(None,	4, 4, 128)	0	
dropout_3 (Dropout)	(None,	4, 4, 128)	0	
flatten_1 (Flatten)	(None,	2048)	0	
dense_1 (Dense)	(None,	100)	204900	
Train on 40000 samples, valid Epoch 1/32 40000/40000 [=================================	.3479 -		<pre>val_top_k_ us/step - 1 val_top_k_ us/step - 1 val_top_k_ us/step - 1 val_top_k_ us/step - 1 val_top_k_</pre>	oss: 3.1132 - tcategorical_acc oss: 2.6354 - tcategorical_acc oss: 2.3939 - tcategorical_acc oss: 2.3930 - tcategorical_acc
4000/40000 [=================================	.7805 - ====== .8023 -	val_loss: 2.2855	<pre>val_top_k_ us/step - l val_top_k_ us/step - l</pre>	categorical_acc oss: 2.0224 - t categorical_acc oss: 1.9339 - t
Epoch 9/32 40000/40000 [======== op_k_categorical_accuracy: 0 uracy: 0.7636				

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Epoch 10/32	1 45 055 /	1 0005
	======================================	
uracy: 0.7786	0.040/ Val_1035. 2.242/ Val_cop_k_co	acegoricar_acc
Epoch 11/32		
	======================================	
op_k_categorical_accuracy: uracy: 0.7912	0.8609 - val_loss: 2.1793 - val_top_k_ca	ategorical_acc
Epoch 12/32		
	========] - 15s 375us/step - los	
op_k_categorical_accuracy: uracy: 0.7853	0.8696 - val_loss: 2.2404 - val_top_k_ca	ategorical_acc
Epoch 13/32		
	=========] - 15s 376us/step - los	ss: 1.6602 - t
	0.8784 - val_loss: 2.1732 - val_top_k_ca	ategorical_acc
uracy: 0.8046 Epoch 14/32		
	======================================	ss: 1.6301 - t
	0.8872 - val_loss: 2.2326 - val_top_k_ca	ategorical_acc
uracy: 0.7956		
Epoch 15/32	======================================	ss: 1.5979 - t
	0.8934 - val_loss: 2.3233 - val_top_k_ca	
uracy: 0.7844		
Epoch 16/32	======================================	ss: 1 5764 - +
	0.8984 - val_loss: 2.2007 - val_top_k_ca	
uracy: 0.8040		_
Epoch 17/32	15a 275ua/atan la	1 E/EE +
	======================================	
uracy: 0.7897	0.3000 var_1000. 2.0010 var_00p_n_00	2009011001_000
Epoch 18/32	1 45 056 / .	4 5050
	======================================	
uracy: 0.8064	0.3073	accgorrear_acc
Epoch 19/32		
	======================================	
uracy: 0.8049	0.9141 Vai_1033. 2.2043 Vai_cop_x_co	acegoricar_ace
Epoch 20/32		
	======================================	
uracy: 0.7995	0.9109 - Vai_1055: 2.3493 - Vai_top_k_c	ategoricar_acc
Epoch 21/32		
	======================================	
op_k_categorical_accuracy: uracy: 0.8093	0.9209 - val_loss: 2.3060 - val_top_k_ca	aredorical_acc
Epoch 22/32		
	======================================	
op_k_categorical_accuracy: uracy: 0.7979	0.9256 - val_loss: 2.3839 - val_top_k_ca	ategorical_acc
Epoch 23/32		
	========] - 15s 376us/step - los	
<pre>op_k_categorical_accuracy: uracy: 0.8038</pre>	0.9255 - val_loss: 2.3491 - val_top_k_ca	ategorical_acc
Epoch 24/32		
40000/40000 [=======	=======] - 15s 376us/step - los	
	0.9286 - val_loss: 2.3787 - val_top_k_ca	ategorical_acc
uracy: 0.7953 Epoch 25/32		
40000/40000 [======	=========] - 15s 376us/step - los	
	0.9313 - val_loss: 2.3989 - val_top_k_ca	ategorical_acc
uracy: 0.7959 Epoch 26/32		
	======================================	ss: 1.3877 - t
op_k_categorical_accuracy:	0.9346 - val_loss: 2.3856 - val_top_k_ca	
uracy: 0.8006		
Epoch 27/32		

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] - 15s 377us/step - loss : 0.9373 - val_loss: 2.3777 - val_top_k_cato	
40000/40000 [========] - 15s 376us/step - loss : 0.9367 - val_loss: 2.4399 - val_top_k_cato	
40000/40000 [=======] - 15s 377us/step - loss : 0.9395 - val_loss: 2.4524 - val_top_k_cato	
40000/40000 [=======		
40000/40000 [=======	======================================	
40000/40000 [=================================		
Test loss: 2.455673395919 Test accuracy: 0.796		