**VGG 16**

Downloading data from<https://github.com/fchollet/deep-learning-models/releases/download/v0.1/vgg16_weights_tf_dim_ordering_tf_kernels.h5>

553467904/553467096 [==============================] - 16s 0us/step

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Layer (type) Output Shape Param #

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input\_1 (InputLayer) (None, 224, 224, 3) 0

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block1\_conv1 (Conv2D) (None, 224, 224, 64) 1792

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block1\_conv2 (Conv2D) (None, 224, 224, 64) 36928

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block1\_pool (MaxPooling2D) (None, 112, 112, 64) 0

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block2\_conv1 (Conv2D) (None, 112, 112, 128) 73856

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block2\_conv2 (Conv2D) (None, 112, 112, 128) 147584

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block2\_pool (MaxPooling2D) (None, 56, 56, 128) 0

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block3\_conv1 (Conv2D) (None, 56, 56, 256) 295168

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block3\_conv2 (Conv2D) (None, 56, 56, 256) 590080

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block3\_conv3 (Conv2D) (None, 56, 56, 256) 590080

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block3\_pool (MaxPooling2D) (None, 28, 28, 256) 0

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block4\_conv1 (Conv2D) (None, 28, 28, 512) 1180160

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block4\_conv2 (Conv2D) (None, 28, 28, 512) 2359808

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block4\_conv3 (Conv2D) (None, 28, 28, 512) 2359808

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block4\_pool (MaxPooling2D) (None, 14, 14, 512) 0

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block5\_conv1 (Conv2D) (None, 14, 14, 512) 2359808

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block5\_conv2 (Conv2D) (None, 14, 14, 512) 2359808

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block5\_conv3 (Conv2D) (None, 14, 14, 512) 2359808

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block5\_pool (MaxPooling2D) (None, 7, 7, 512) 0

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flatten (Flatten) (None, 25088) 0

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fc1 (Dense) (None, 4096) 102764544

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fc2 (Dense) (None, 4096) 16781312

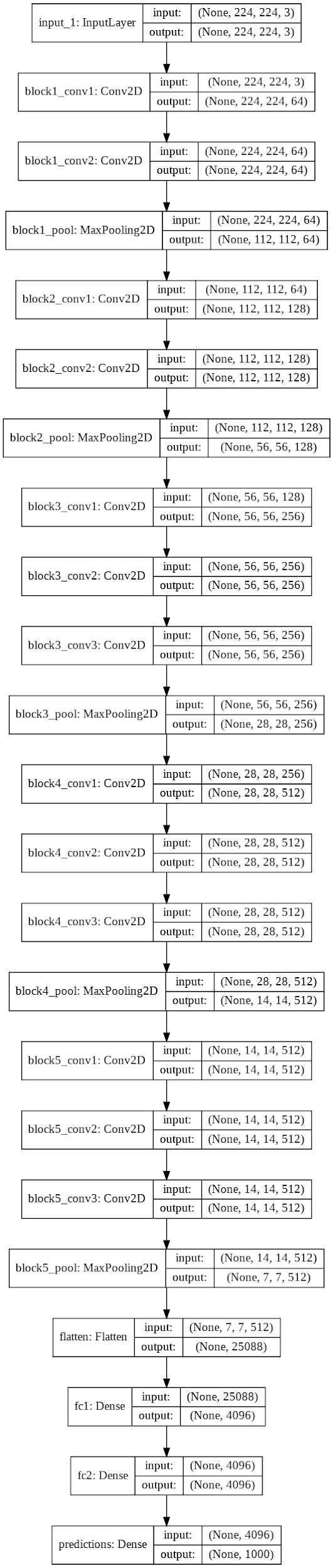
=================================================================

Total params: 134,260,544

Trainable params: 134,260,544

Non-trainable params: 0

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**Inception ResNet V2**

Downloading data from<https://github.com/fchollet/deep-learning-models/releases/download/v0.7/inception_resnet_v2_weights_tf_dim_ordering_tf_kernels.h5>

225214464/225209952 [==============================] - 4s 0us/step

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Layer (type) Output Shape Param # Connected to

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input\_1 (InputLayer) (None, 299, 299, 3) 0

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conv2d\_1 (Conv2D) (None, 149, 149, 32) 864 input\_1[0][0]

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batch\_normalization\_1 (BatchNor (None, 149, 149, 32) 96 conv2d\_1[0][0]

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activation\_1 (Activation) (None, 149, 149, 32) 0 batch\_normalization\_1[0][0]

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conv2d\_2 (Conv2D) (None, 147, 147, 32) 9216 activation\_1[0][0]

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batch\_normalization\_2 (BatchNor (None, 147, 147, 32) 96 conv2d\_2[0][0]

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activation\_2 (Activation) (None, 147, 147, 32) 0 batch\_normalization\_2[0][0]

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conv2d\_3 (Conv2D) (None, 147, 147, 64) 18432 activation\_2[0][0]

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batch\_normalization\_3 (BatchNor (None, 147, 147, 64) 192 conv2d\_3[0][0]

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activation\_3 (Activation) (None, 147, 147, 64) 0 batch\_normalization\_3[0][0]

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max\_pooling2d\_1 (MaxPooling2D) (None, 73, 73, 64) 0 activation\_3[0][0]

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conv2d\_4 (Conv2D) (None, 73, 73, 80) 5120 max\_pooling2d\_1[0][0]

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batch\_normalization\_4 (BatchNor (None, 73, 73, 80) 240 conv2d\_4[0][0]

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activation\_4 (Activation) (None, 73, 73, 80) 0 batch\_normalization\_4[0][0]

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conv2d\_5 (Conv2D) (None, 71, 71, 192) 138240 activation\_4[0][0]

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batch\_normalization\_5 (BatchNor (None, 71, 71, 192) 576 conv2d\_5[0][0]

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activation\_5 (Activation) (None, 71, 71, 192) 0 batch\_normalization\_5[0][0]

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max\_pooling2d\_2 (MaxPooling2D) (None, 35, 35, 192) 0 activation\_5[0][0]

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conv2d\_9 (Conv2D) (None, 35, 35, 64) 12288 max\_pooling2d\_2[0][0]

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batch\_normalization\_9 (BatchNor (None, 35, 35, 64) 192 conv2d\_9[0][0]

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activation\_9 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_9[0][0]

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conv2d\_7 (Conv2D) (None, 35, 35, 48) 9216 max\_pooling2d\_2[0][0]

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conv2d\_10 (Conv2D) (None, 35, 35, 96) 55296 activation\_9[0][0]

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batch\_normalization\_7 (BatchNor (None, 35, 35, 48) 144 conv2d\_7[0][0]

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batch\_normalization\_10 (BatchNo (None, 35, 35, 96) 288 conv2d\_10[0][0]

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activation\_7 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_7[0][0]

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activation\_10 (Activation) (None, 35, 35, 96) 0 batch\_normalization\_10[0][0]

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average\_pooling2d\_1 (AveragePoo (None, 35, 35, 192) 0 max\_pooling2d\_2[0][0]

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conv2d\_6 (Conv2D) (None, 35, 35, 96) 18432 max\_pooling2d\_2[0][0]

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conv2d\_8 (Conv2D) (None, 35, 35, 64) 76800 activation\_7[0][0]

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conv2d\_11 (Conv2D) (None, 35, 35, 96) 82944 activation\_10[0][0]

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conv2d\_12 (Conv2D) (None, 35, 35, 64) 12288 average\_pooling2d\_1[0][0]

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batch\_normalization\_6 (BatchNor (None, 35, 35, 96) 288 conv2d\_6[0][0]

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batch\_normalization\_8 (BatchNor (None, 35, 35, 64) 192 conv2d\_8[0][0]

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batch\_normalization\_11 (BatchNo (None, 35, 35, 96) 288 conv2d\_11[0][0]

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batch\_normalization\_12 (BatchNo (None, 35, 35, 64) 192 conv2d\_12[0][0]

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activation\_6 (Activation) (None, 35, 35, 96) 0 batch\_normalization\_6[0][0]

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activation\_8 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_8[0][0]

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activation\_11 (Activation) (None, 35, 35, 96) 0 batch\_normalization\_11[0][0]

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activation\_12 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_12[0][0]

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mixed\_5b (Concatenate) (None, 35, 35, 320) 0 activation\_6[0][0]

activation\_8[0][0]

activation\_11[0][0]

activation\_12[0][0]

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conv2d\_16 (Conv2D) (None, 35, 35, 32) 10240 mixed\_5b[0][0]

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batch\_normalization\_16 (BatchNo (None, 35, 35, 32) 96 conv2d\_16[0][0]

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activation\_16 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_16[0][0]

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conv2d\_14 (Conv2D) (None, 35, 35, 32) 10240 mixed\_5b[0][0]

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conv2d\_17 (Conv2D) (None, 35, 35, 48) 13824 activation\_16[0][0]

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batch\_normalization\_14 (BatchNo (None, 35, 35, 32) 96 conv2d\_14[0][0]

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batch\_normalization\_17 (BatchNo (None, 35, 35, 48) 144 conv2d\_17[0][0]

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activation\_14 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_14[0][0]

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activation\_17 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_17[0][0]

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conv2d\_13 (Conv2D) (None, 35, 35, 32) 10240 mixed\_5b[0][0]

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conv2d\_15 (Conv2D) (None, 35, 35, 32) 9216 activation\_14[0][0]

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conv2d\_18 (Conv2D) (None, 35, 35, 64) 27648 activation\_17[0][0]

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batch\_normalization\_13 (BatchNo (None, 35, 35, 32) 96 conv2d\_13[0][0]

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batch\_normalization\_15 (BatchNo (None, 35, 35, 32) 96 conv2d\_15[0][0]

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batch\_normalization\_18 (BatchNo (None, 35, 35, 64) 192 conv2d\_18[0][0]

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activation\_13 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_13[0][0]

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activation\_15 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_15[0][0]

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activation\_18 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_18[0][0]

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block35\_1\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_13[0][0]

activation\_15[0][0]

activation\_18[0][0]

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block35\_1\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_1\_mixed[0][0]

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block35\_1 (Lambda) (None, 35, 35, 320) 0 mixed\_5b[0][0]

block35\_1\_conv[0][0]

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block35\_1\_ac (Activation) (None, 35, 35, 320) 0 block35\_1[0][0]

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conv2d\_22 (Conv2D) (None, 35, 35, 32) 10240 block35\_1\_ac[0][0]

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batch\_normalization\_22 (BatchNo (None, 35, 35, 32) 96 conv2d\_22[0][0]

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activation\_22 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_22[0][0]

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conv2d\_20 (Conv2D) (None, 35, 35, 32) 10240 block35\_1\_ac[0][0]

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conv2d\_23 (Conv2D) (None, 35, 35, 48) 13824 activation\_22[0][0]

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batch\_normalization\_20 (BatchNo (None, 35, 35, 32) 96 conv2d\_20[0][0]

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batch\_normalization\_23 (BatchNo (None, 35, 35, 48) 144 conv2d\_23[0][0]

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activation\_20 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_20[0][0]

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activation\_23 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_23[0][0]

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conv2d\_19 (Conv2D) (None, 35, 35, 32) 10240 block35\_1\_ac[0][0]

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conv2d\_21 (Conv2D) (None, 35, 35, 32) 9216 activation\_20[0][0]

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conv2d\_24 (Conv2D) (None, 35, 35, 64) 27648 activation\_23[0][0]

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batch\_normalization\_19 (BatchNo (None, 35, 35, 32) 96 conv2d\_19[0][0]

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batch\_normalization\_21 (BatchNo (None, 35, 35, 32) 96 conv2d\_21[0][0]

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batch\_normalization\_24 (BatchNo (None, 35, 35, 64) 192 conv2d\_24[0][0]

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activation\_19 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_19[0][0]

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activation\_21 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_21[0][0]

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activation\_24 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_24[0][0]

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block35\_2\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_19[0][0]

activation\_21[0][0]

activation\_24[0][0]

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block35\_2\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_2\_mixed[0][0]

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block35\_2 (Lambda) (None, 35, 35, 320) 0 block35\_1\_ac[0][0]

block35\_2\_conv[0][0]

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block35\_2\_ac (Activation) (None, 35, 35, 320) 0 block35\_2[0][0]

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conv2d\_28 (Conv2D) (None, 35, 35, 32) 10240 block35\_2\_ac[0][0]

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batch\_normalization\_28 (BatchNo (None, 35, 35, 32) 96 conv2d\_28[0][0]

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activation\_28 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_28[0][0]

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conv2d\_26 (Conv2D) (None, 35, 35, 32) 10240 block35\_2\_ac[0][0]

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conv2d\_29 (Conv2D) (None, 35, 35, 48) 13824 activation\_28[0][0]

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batch\_normalization\_26 (BatchNo (None, 35, 35, 32) 96 conv2d\_26[0][0]

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batch\_normalization\_29 (BatchNo (None, 35, 35, 48) 144 conv2d\_29[0][0]

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activation\_26 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_26[0][0]

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activation\_29 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_29[0][0]

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conv2d\_25 (Conv2D) (None, 35, 35, 32) 10240 block35\_2\_ac[0][0]

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conv2d\_27 (Conv2D) (None, 35, 35, 32) 9216 activation\_26[0][0]

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conv2d\_30 (Conv2D) (None, 35, 35, 64) 27648 activation\_29[0][0]

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batch\_normalization\_25 (BatchNo (None, 35, 35, 32) 96 conv2d\_25[0][0]

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batch\_normalization\_27 (BatchNo (None, 35, 35, 32) 96 conv2d\_27[0][0]

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batch\_normalization\_30 (BatchNo (None, 35, 35, 64) 192 conv2d\_30[0][0]

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activation\_25 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_25[0][0]

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activation\_27 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_27[0][0]

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activation\_30 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_30[0][0]

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block35\_3\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_25[0][0]

activation\_27[0][0]

activation\_30[0][0]

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block35\_3\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_3\_mixed[0][0]

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block35\_3 (Lambda) (None, 35, 35, 320) 0 block35\_2\_ac[0][0]

block35\_3\_conv[0][0]

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block35\_3\_ac (Activation) (None, 35, 35, 320) 0 block35\_3[0][0]

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conv2d\_34 (Conv2D) (None, 35, 35, 32) 10240 block35\_3\_ac[0][0]

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batch\_normalization\_34 (BatchNo (None, 35, 35, 32) 96 conv2d\_34[0][0]

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activation\_34 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_34[0][0]

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conv2d\_32 (Conv2D) (None, 35, 35, 32) 10240 block35\_3\_ac[0][0]

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conv2d\_35 (Conv2D) (None, 35, 35, 48) 13824 activation\_34[0][0]

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batch\_normalization\_32 (BatchNo (None, 35, 35, 32) 96 conv2d\_32[0][0]

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batch\_normalization\_35 (BatchNo (None, 35, 35, 48) 144 conv2d\_35[0][0]

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activation\_32 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_32[0][0]

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activation\_35 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_35[0][0]

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conv2d\_31 (Conv2D) (None, 35, 35, 32) 10240 block35\_3\_ac[0][0]

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conv2d\_33 (Conv2D) (None, 35, 35, 32) 9216 activation\_32[0][0]

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conv2d\_36 (Conv2D) (None, 35, 35, 64) 27648 activation\_35[0][0]

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batch\_normalization\_31 (BatchNo (None, 35, 35, 32) 96 conv2d\_31[0][0]

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batch\_normalization\_33 (BatchNo (None, 35, 35, 32) 96 conv2d\_33[0][0]

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batch\_normalization\_36 (BatchNo (None, 35, 35, 64) 192 conv2d\_36[0][0]

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activation\_31 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_31[0][0]

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activation\_33 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_33[0][0]

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activation\_36 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_36[0][0]

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block35\_4\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_31[0][0]

activation\_33[0][0]

activation\_36[0][0]

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block35\_4\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_4\_mixed[0][0]

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block35\_4 (Lambda) (None, 35, 35, 320) 0 block35\_3\_ac[0][0]

block35\_4\_conv[0][0]

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block35\_4\_ac (Activation) (None, 35, 35, 320) 0 block35\_4[0][0]

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conv2d\_40 (Conv2D) (None, 35, 35, 32) 10240 block35\_4\_ac[0][0]

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batch\_normalization\_40 (BatchNo (None, 35, 35, 32) 96 conv2d\_40[0][0]

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activation\_40 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_40[0][0]

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conv2d\_38 (Conv2D) (None, 35, 35, 32) 10240 block35\_4\_ac[0][0]

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conv2d\_41 (Conv2D) (None, 35, 35, 48) 13824 activation\_40[0][0]

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batch\_normalization\_38 (BatchNo (None, 35, 35, 32) 96 conv2d\_38[0][0]

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batch\_normalization\_41 (BatchNo (None, 35, 35, 48) 144 conv2d\_41[0][0]

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activation\_38 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_38[0][0]

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activation\_41 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_41[0][0]

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conv2d\_37 (Conv2D) (None, 35, 35, 32) 10240 block35\_4\_ac[0][0]

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conv2d\_39 (Conv2D) (None, 35, 35, 32) 9216 activation\_38[0][0]

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conv2d\_42 (Conv2D) (None, 35, 35, 64) 27648 activation\_41[0][0]

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batch\_normalization\_37 (BatchNo (None, 35, 35, 32) 96 conv2d\_37[0][0]

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batch\_normalization\_39 (BatchNo (None, 35, 35, 32) 96 conv2d\_39[0][0]

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batch\_normalization\_42 (BatchNo (None, 35, 35, 64) 192 conv2d\_42[0][0]

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activation\_37 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_37[0][0]

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activation\_39 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_39[0][0]

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activation\_42 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_42[0][0]

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block35\_5\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_37[0][0]

activation\_39[0][0]

activation\_42[0][0]

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block35\_5\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_5\_mixed[0][0]

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block35\_5 (Lambda) (None, 35, 35, 320) 0 block35\_4\_ac[0][0]

block35\_5\_conv[0][0]

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block35\_5\_ac (Activation) (None, 35, 35, 320) 0 block35\_5[0][0]

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conv2d\_46 (Conv2D) (None, 35, 35, 32) 10240 block35\_5\_ac[0][0]

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batch\_normalization\_46 (BatchNo (None, 35, 35, 32) 96 conv2d\_46[0][0]

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activation\_46 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_46[0][0]

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conv2d\_44 (Conv2D) (None, 35, 35, 32) 10240 block35\_5\_ac[0][0]

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conv2d\_47 (Conv2D) (None, 35, 35, 48) 13824 activation\_46[0][0]

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batch\_normalization\_44 (BatchNo (None, 35, 35, 32) 96 conv2d\_44[0][0]

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batch\_normalization\_47 (BatchNo (None, 35, 35, 48) 144 conv2d\_47[0][0]

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activation\_44 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_44[0][0]

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activation\_47 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_47[0][0]

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conv2d\_43 (Conv2D) (None, 35, 35, 32) 10240 block35\_5\_ac[0][0]

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conv2d\_45 (Conv2D) (None, 35, 35, 32) 9216 activation\_44[0][0]

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conv2d\_48 (Conv2D) (None, 35, 35, 64) 27648 activation\_47[0][0]

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batch\_normalization\_43 (BatchNo (None, 35, 35, 32) 96 conv2d\_43[0][0]

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batch\_normalization\_45 (BatchNo (None, 35, 35, 32) 96 conv2d\_45[0][0]

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batch\_normalization\_48 (BatchNo (None, 35, 35, 64) 192 conv2d\_48[0][0]

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activation\_43 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_43[0][0]

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activation\_45 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_45[0][0]

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activation\_48 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_48[0][0]

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block35\_6\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_43[0][0]

activation\_45[0][0]

activation\_48[0][0]

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block35\_6\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_6\_mixed[0][0]

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block35\_6 (Lambda) (None, 35, 35, 320) 0 block35\_5\_ac[0][0]

block35\_6\_conv[0][0]

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block35\_6\_ac (Activation) (None, 35, 35, 320) 0 block35\_6[0][0]

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conv2d\_52 (Conv2D) (None, 35, 35, 32) 10240 block35\_6\_ac[0][0]

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batch\_normalization\_52 (BatchNo (None, 35, 35, 32) 96 conv2d\_52[0][0]

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activation\_52 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_52[0][0]

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conv2d\_50 (Conv2D) (None, 35, 35, 32) 10240 block35\_6\_ac[0][0]

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conv2d\_53 (Conv2D) (None, 35, 35, 48) 13824 activation\_52[0][0]

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batch\_normalization\_50 (BatchNo (None, 35, 35, 32) 96 conv2d\_50[0][0]

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batch\_normalization\_53 (BatchNo (None, 35, 35, 48) 144 conv2d\_53[0][0]

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activation\_50 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_50[0][0]

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activation\_53 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_53[0][0]

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conv2d\_49 (Conv2D) (None, 35, 35, 32) 10240 block35\_6\_ac[0][0]

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conv2d\_51 (Conv2D) (None, 35, 35, 32) 9216 activation\_50[0][0]

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conv2d\_54 (Conv2D) (None, 35, 35, 64) 27648 activation\_53[0][0]

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batch\_normalization\_49 (BatchNo (None, 35, 35, 32) 96 conv2d\_49[0][0]

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batch\_normalization\_51 (BatchNo (None, 35, 35, 32) 96 conv2d\_51[0][0]

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batch\_normalization\_54 (BatchNo (None, 35, 35, 64) 192 conv2d\_54[0][0]

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activation\_49 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_49[0][0]

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activation\_51 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_51[0][0]

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activation\_54 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_54[0][0]

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block35\_7\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_49[0][0]

activation\_51[0][0]

activation\_54[0][0]

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block35\_7\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_7\_mixed[0][0]

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block35\_7 (Lambda) (None, 35, 35, 320) 0 block35\_6\_ac[0][0]

block35\_7\_conv[0][0]

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block35\_7\_ac (Activation) (None, 35, 35, 320) 0 block35\_7[0][0]

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conv2d\_58 (Conv2D) (None, 35, 35, 32) 10240 block35\_7\_ac[0][0]

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batch\_normalization\_58 (BatchNo (None, 35, 35, 32) 96 conv2d\_58[0][0]

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activation\_58 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_58[0][0]

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conv2d\_56 (Conv2D) (None, 35, 35, 32) 10240 block35\_7\_ac[0][0]

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conv2d\_59 (Conv2D) (None, 35, 35, 48) 13824 activation\_58[0][0]

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batch\_normalization\_56 (BatchNo (None, 35, 35, 32) 96 conv2d\_56[0][0]

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batch\_normalization\_59 (BatchNo (None, 35, 35, 48) 144 conv2d\_59[0][0]

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activation\_56 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_56[0][0]

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activation\_59 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_59[0][0]

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conv2d\_55 (Conv2D) (None, 35, 35, 32) 10240 block35\_7\_ac[0][0]

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conv2d\_57 (Conv2D) (None, 35, 35, 32) 9216 activation\_56[0][0]

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conv2d\_60 (Conv2D) (None, 35, 35, 64) 27648 activation\_59[0][0]

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batch\_normalization\_55 (BatchNo (None, 35, 35, 32) 96 conv2d\_55[0][0]

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batch\_normalization\_57 (BatchNo (None, 35, 35, 32) 96 conv2d\_57[0][0]

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batch\_normalization\_60 (BatchNo (None, 35, 35, 64) 192 conv2d\_60[0][0]

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activation\_55 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_55[0][0]

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activation\_57 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_57[0][0]

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activation\_60 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_60[0][0]

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block35\_8\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_55[0][0]

activation\_57[0][0]

activation\_60[0][0]

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block35\_8\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_8\_mixed[0][0]

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block35\_8 (Lambda) (None, 35, 35, 320) 0 block35\_7\_ac[0][0]

block35\_8\_conv[0][0]

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block35\_8\_ac (Activation) (None, 35, 35, 320) 0 block35\_8[0][0]

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conv2d\_64 (Conv2D) (None, 35, 35, 32) 10240 block35\_8\_ac[0][0]

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batch\_normalization\_64 (BatchNo (None, 35, 35, 32) 96 conv2d\_64[0][0]

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activation\_64 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_64[0][0]

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conv2d\_62 (Conv2D) (None, 35, 35, 32) 10240 block35\_8\_ac[0][0]

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conv2d\_65 (Conv2D) (None, 35, 35, 48) 13824 activation\_64[0][0]

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batch\_normalization\_62 (BatchNo (None, 35, 35, 32) 96 conv2d\_62[0][0]

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batch\_normalization\_65 (BatchNo (None, 35, 35, 48) 144 conv2d\_65[0][0]

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activation\_62 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_62[0][0]

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activation\_65 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_65[0][0]

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conv2d\_61 (Conv2D) (None, 35, 35, 32) 10240 block35\_8\_ac[0][0]

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conv2d\_63 (Conv2D) (None, 35, 35, 32) 9216 activation\_62[0][0]

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conv2d\_66 (Conv2D) (None, 35, 35, 64) 27648 activation\_65[0][0]

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batch\_normalization\_61 (BatchNo (None, 35, 35, 32) 96 conv2d\_61[0][0]

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batch\_normalization\_63 (BatchNo (None, 35, 35, 32) 96 conv2d\_63[0][0]

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batch\_normalization\_66 (BatchNo (None, 35, 35, 64) 192 conv2d\_66[0][0]

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activation\_61 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_61[0][0]

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activation\_63 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_63[0][0]

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activation\_66 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_66[0][0]

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block35\_9\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_61[0][0]

activation\_63[0][0]

activation\_66[0][0]

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block35\_9\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_9\_mixed[0][0]

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block35\_9 (Lambda) (None, 35, 35, 320) 0 block35\_8\_ac[0][0]

block35\_9\_conv[0][0]

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block35\_9\_ac (Activation) (None, 35, 35, 320) 0 block35\_9[0][0]

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conv2d\_70 (Conv2D) (None, 35, 35, 32) 10240 block35\_9\_ac[0][0]

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batch\_normalization\_70 (BatchNo (None, 35, 35, 32) 96 conv2d\_70[0][0]

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activation\_70 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_70[0][0]

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conv2d\_68 (Conv2D) (None, 35, 35, 32) 10240 block35\_9\_ac[0][0]

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conv2d\_71 (Conv2D) (None, 35, 35, 48) 13824 activation\_70[0][0]

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batch\_normalization\_68 (BatchNo (None, 35, 35, 32) 96 conv2d\_68[0][0]

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batch\_normalization\_71 (BatchNo (None, 35, 35, 48) 144 conv2d\_71[0][0]

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activation\_68 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_68[0][0]

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activation\_71 (Activation) (None, 35, 35, 48) 0 batch\_normalization\_71[0][0]

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conv2d\_67 (Conv2D) (None, 35, 35, 32) 10240 block35\_9\_ac[0][0]

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conv2d\_69 (Conv2D) (None, 35, 35, 32) 9216 activation\_68[0][0]

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conv2d\_72 (Conv2D) (None, 35, 35, 64) 27648 activation\_71[0][0]

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batch\_normalization\_67 (BatchNo (None, 35, 35, 32) 96 conv2d\_67[0][0]

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batch\_normalization\_69 (BatchNo (None, 35, 35, 32) 96 conv2d\_69[0][0]

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batch\_normalization\_72 (BatchNo (None, 35, 35, 64) 192 conv2d\_72[0][0]

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activation\_67 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_67[0][0]

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activation\_69 (Activation) (None, 35, 35, 32) 0 batch\_normalization\_69[0][0]

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activation\_72 (Activation) (None, 35, 35, 64) 0 batch\_normalization\_72[0][0]

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block35\_10\_mixed (Concatenate) (None, 35, 35, 128) 0 activation\_67[0][0]

activation\_69[0][0]

activation\_72[0][0]

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block35\_10\_conv (Conv2D) (None, 35, 35, 320) 41280 block35\_10\_mixed[0][0]

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block35\_10 (Lambda) (None, 35, 35, 320) 0 block35\_9\_ac[0][0]

block35\_10\_conv[0][0]

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block35\_10\_ac (Activation) (None, 35, 35, 320) 0 block35\_10[0][0]

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conv2d\_74 (Conv2D) (None, 35, 35, 256) 81920 block35\_10\_ac[0][0]

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batch\_normalization\_74 (BatchNo (None, 35, 35, 256) 768 conv2d\_74[0][0]

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activation\_74 (Activation) (None, 35, 35, 256) 0 batch\_normalization\_74[0][0]

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conv2d\_75 (Conv2D) (None, 35, 35, 256) 589824 activation\_74[0][0]

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batch\_normalization\_75 (BatchNo (None, 35, 35, 256) 768 conv2d\_75[0][0]

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activation\_75 (Activation) (None, 35, 35, 256) 0 batch\_normalization\_75[0][0]

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conv2d\_73 (Conv2D) (None, 17, 17, 384) 1105920 block35\_10\_ac[0][0]

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conv2d\_76 (Conv2D) (None, 17, 17, 384) 884736 activation\_75[0][0]

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batch\_normalization\_73 (BatchNo (None, 17, 17, 384) 1152 conv2d\_73[0][0]

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batch\_normalization\_76 (BatchNo (None, 17, 17, 384) 1152 conv2d\_76[0][0]

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activation\_73 (Activation) (None, 17, 17, 384) 0 batch\_normalization\_73[0][0]

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activation\_76 (Activation) (None, 17, 17, 384) 0 batch\_normalization\_76[0][0]

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max\_pooling2d\_3 (MaxPooling2D) (None, 17, 17, 320) 0 block35\_10\_ac[0][0]

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mixed\_6a (Concatenate) (None, 17, 17, 1088) 0 activation\_73[0][0]

activation\_76[0][0]

max\_pooling2d\_3[0][0]

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conv2d\_78 (Conv2D) (None, 17, 17, 128) 139264 mixed\_6a[0][0]

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batch\_normalization\_78 (BatchNo (None, 17, 17, 128) 384 conv2d\_78[0][0]

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activation\_78 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_78[0][0]

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conv2d\_79 (Conv2D) (None, 17, 17, 160) 143360 activation\_78[0][0]

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batch\_normalization\_79 (BatchNo (None, 17, 17, 160) 480 conv2d\_79[0][0]

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activation\_79 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_79[0][0]

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conv2d\_77 (Conv2D) (None, 17, 17, 192) 208896 mixed\_6a[0][0]

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conv2d\_80 (Conv2D) (None, 17, 17, 192) 215040 activation\_79[0][0]

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batch\_normalization\_77 (BatchNo (None, 17, 17, 192) 576 conv2d\_77[0][0]

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batch\_normalization\_80 (BatchNo (None, 17, 17, 192) 576 conv2d\_80[0][0]

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activation\_77 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_77[0][0]

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activation\_80 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_80[0][0]

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block17\_1\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_77[0][0]

activation\_80[0][0]

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block17\_1\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_1\_mixed[0][0]

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block17\_1 (Lambda) (None, 17, 17, 1088) 0 mixed\_6a[0][0]

block17\_1\_conv[0][0]

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block17\_1\_ac (Activation) (None, 17, 17, 1088) 0 block17\_1[0][0]

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conv2d\_82 (Conv2D) (None, 17, 17, 128) 139264 block17\_1\_ac[0][0]

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batch\_normalization\_82 (BatchNo (None, 17, 17, 128) 384 conv2d\_82[0][0]

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activation\_82 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_82[0][0]

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conv2d\_83 (Conv2D) (None, 17, 17, 160) 143360 activation\_82[0][0]

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batch\_normalization\_83 (BatchNo (None, 17, 17, 160) 480 conv2d\_83[0][0]

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activation\_83 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_83[0][0]

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conv2d\_81 (Conv2D) (None, 17, 17, 192) 208896 block17\_1\_ac[0][0]

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conv2d\_84 (Conv2D) (None, 17, 17, 192) 215040 activation\_83[0][0]

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batch\_normalization\_81 (BatchNo (None, 17, 17, 192) 576 conv2d\_81[0][0]

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batch\_normalization\_84 (BatchNo (None, 17, 17, 192) 576 conv2d\_84[0][0]

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activation\_81 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_81[0][0]

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activation\_84 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_84[0][0]

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block17\_2\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_81[0][0]

activation\_84[0][0]

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block17\_2\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_2\_mixed[0][0]

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block17\_2 (Lambda) (None, 17, 17, 1088) 0 block17\_1\_ac[0][0]

block17\_2\_conv[0][0]

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block17\_2\_ac (Activation) (None, 17, 17, 1088) 0 block17\_2[0][0]

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conv2d\_86 (Conv2D) (None, 17, 17, 128) 139264 block17\_2\_ac[0][0]

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batch\_normalization\_86 (BatchNo (None, 17, 17, 128) 384 conv2d\_86[0][0]

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activation\_86 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_86[0][0]

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conv2d\_87 (Conv2D) (None, 17, 17, 160) 143360 activation\_86[0][0]

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batch\_normalization\_87 (BatchNo (None, 17, 17, 160) 480 conv2d\_87[0][0]

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activation\_87 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_87[0][0]

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conv2d\_85 (Conv2D) (None, 17, 17, 192) 208896 block17\_2\_ac[0][0]

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conv2d\_88 (Conv2D) (None, 17, 17, 192) 215040 activation\_87[0][0]

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batch\_normalization\_85 (BatchNo (None, 17, 17, 192) 576 conv2d\_85[0][0]

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batch\_normalization\_88 (BatchNo (None, 17, 17, 192) 576 conv2d\_88[0][0]

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activation\_85 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_85[0][0]

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activation\_88 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_88[0][0]

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block17\_3\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_85[0][0]

activation\_88[0][0]

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block17\_3\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_3\_mixed[0][0]

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block17\_3 (Lambda) (None, 17, 17, 1088) 0 block17\_2\_ac[0][0]

block17\_3\_conv[0][0]

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block17\_3\_ac (Activation) (None, 17, 17, 1088) 0 block17\_3[0][0]

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conv2d\_90 (Conv2D) (None, 17, 17, 128) 139264 block17\_3\_ac[0][0]

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batch\_normalization\_90 (BatchNo (None, 17, 17, 128) 384 conv2d\_90[0][0]

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activation\_90 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_90[0][0]

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conv2d\_91 (Conv2D) (None, 17, 17, 160) 143360 activation\_90[0][0]

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batch\_normalization\_91 (BatchNo (None, 17, 17, 160) 480 conv2d\_91[0][0]

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activation\_91 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_91[0][0]

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conv2d\_89 (Conv2D) (None, 17, 17, 192) 208896 block17\_3\_ac[0][0]

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conv2d\_92 (Conv2D) (None, 17, 17, 192) 215040 activation\_91[0][0]

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batch\_normalization\_89 (BatchNo (None, 17, 17, 192) 576 conv2d\_89[0][0]

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batch\_normalization\_92 (BatchNo (None, 17, 17, 192) 576 conv2d\_92[0][0]

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activation\_89 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_89[0][0]

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activation\_92 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_92[0][0]

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block17\_4\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_89[0][0]

activation\_92[0][0]

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block17\_4\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_4\_mixed[0][0]

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block17\_4 (Lambda) (None, 17, 17, 1088) 0 block17\_3\_ac[0][0]

block17\_4\_conv[0][0]

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block17\_4\_ac (Activation) (None, 17, 17, 1088) 0 block17\_4[0][0]

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conv2d\_94 (Conv2D) (None, 17, 17, 128) 139264 block17\_4\_ac[0][0]

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batch\_normalization\_94 (BatchNo (None, 17, 17, 128) 384 conv2d\_94[0][0]

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activation\_94 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_94[0][0]

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conv2d\_95 (Conv2D) (None, 17, 17, 160) 143360 activation\_94[0][0]

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batch\_normalization\_95 (BatchNo (None, 17, 17, 160) 480 conv2d\_95[0][0]

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activation\_95 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_95[0][0]

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conv2d\_93 (Conv2D) (None, 17, 17, 192) 208896 block17\_4\_ac[0][0]

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conv2d\_96 (Conv2D) (None, 17, 17, 192) 215040 activation\_95[0][0]

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batch\_normalization\_93 (BatchNo (None, 17, 17, 192) 576 conv2d\_93[0][0]

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batch\_normalization\_96 (BatchNo (None, 17, 17, 192) 576 conv2d\_96[0][0]

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activation\_93 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_93[0][0]

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activation\_96 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_96[0][0]

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block17\_5\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_93[0][0]

activation\_96[0][0]

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block17\_5\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_5\_mixed[0][0]

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block17\_5 (Lambda) (None, 17, 17, 1088) 0 block17\_4\_ac[0][0]

block17\_5\_conv[0][0]

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block17\_5\_ac (Activation) (None, 17, 17, 1088) 0 block17\_5[0][0]

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conv2d\_98 (Conv2D) (None, 17, 17, 128) 139264 block17\_5\_ac[0][0]

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batch\_normalization\_98 (BatchNo (None, 17, 17, 128) 384 conv2d\_98[0][0]

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activation\_98 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_98[0][0]

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conv2d\_99 (Conv2D) (None, 17, 17, 160) 143360 activation\_98[0][0]

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batch\_normalization\_99 (BatchNo (None, 17, 17, 160) 480 conv2d\_99[0][0]

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activation\_99 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_99[0][0]

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conv2d\_97 (Conv2D) (None, 17, 17, 192) 208896 block17\_5\_ac[0][0]

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conv2d\_100 (Conv2D) (None, 17, 17, 192) 215040 activation\_99[0][0]

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batch\_normalization\_97 (BatchNo (None, 17, 17, 192) 576 conv2d\_97[0][0]

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batch\_normalization\_100 (BatchN (None, 17, 17, 192) 576 conv2d\_100[0][0]

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activation\_97 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_97[0][0]

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activation\_100 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_100[0][0]

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block17\_6\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_97[0][0]

activation\_100[0][0]

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block17\_6\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_6\_mixed[0][0]

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block17\_6 (Lambda) (None, 17, 17, 1088) 0 block17\_5\_ac[0][0]

block17\_6\_conv[0][0]

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block17\_6\_ac (Activation) (None, 17, 17, 1088) 0 block17\_6[0][0]

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conv2d\_102 (Conv2D) (None, 17, 17, 128) 139264 block17\_6\_ac[0][0]

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batch\_normalization\_102 (BatchN (None, 17, 17, 128) 384 conv2d\_102[0][0]

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activation\_102 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_102[0][0]

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conv2d\_103 (Conv2D) (None, 17, 17, 160) 143360 activation\_102[0][0]

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batch\_normalization\_103 (BatchN (None, 17, 17, 160) 480 conv2d\_103[0][0]

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activation\_103 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_103[0][0]

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conv2d\_101 (Conv2D) (None, 17, 17, 192) 208896 block17\_6\_ac[0][0]

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conv2d\_104 (Conv2D) (None, 17, 17, 192) 215040 activation\_103[0][0]

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batch\_normalization\_101 (BatchN (None, 17, 17, 192) 576 conv2d\_101[0][0]

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batch\_normalization\_104 (BatchN (None, 17, 17, 192) 576 conv2d\_104[0][0]

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activation\_101 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_101[0][0]

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activation\_104 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_104[0][0]

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block17\_7\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_101[0][0]

activation\_104[0][0]

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block17\_7\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_7\_mixed[0][0]

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block17\_7 (Lambda) (None, 17, 17, 1088) 0 block17\_6\_ac[0][0]

block17\_7\_conv[0][0]

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block17\_7\_ac (Activation) (None, 17, 17, 1088) 0 block17\_7[0][0]

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conv2d\_106 (Conv2D) (None, 17, 17, 128) 139264 block17\_7\_ac[0][0]

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batch\_normalization\_106 (BatchN (None, 17, 17, 128) 384 conv2d\_106[0][0]

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activation\_106 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_106[0][0]

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conv2d\_107 (Conv2D) (None, 17, 17, 160) 143360 activation\_106[0][0]

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batch\_normalization\_107 (BatchN (None, 17, 17, 160) 480 conv2d\_107[0][0]

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activation\_107 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_107[0][0]

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conv2d\_105 (Conv2D) (None, 17, 17, 192) 208896 block17\_7\_ac[0][0]

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conv2d\_108 (Conv2D) (None, 17, 17, 192) 215040 activation\_107[0][0]

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batch\_normalization\_105 (BatchN (None, 17, 17, 192) 576 conv2d\_105[0][0]

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batch\_normalization\_108 (BatchN (None, 17, 17, 192) 576 conv2d\_108[0][0]

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activation\_105 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_105[0][0]

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activation\_108 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_108[0][0]

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block17\_8\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_105[0][0]

activation\_108[0][0]

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block17\_8\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_8\_mixed[0][0]

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block17\_8 (Lambda) (None, 17, 17, 1088) 0 block17\_7\_ac[0][0]

block17\_8\_conv[0][0]

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block17\_8\_ac (Activation) (None, 17, 17, 1088) 0 block17\_8[0][0]

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conv2d\_110 (Conv2D) (None, 17, 17, 128) 139264 block17\_8\_ac[0][0]

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batch\_normalization\_110 (BatchN (None, 17, 17, 128) 384 conv2d\_110[0][0]

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activation\_110 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_110[0][0]

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conv2d\_111 (Conv2D) (None, 17, 17, 160) 143360 activation\_110[0][0]

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batch\_normalization\_111 (BatchN (None, 17, 17, 160) 480 conv2d\_111[0][0]

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activation\_111 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_111[0][0]

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conv2d\_109 (Conv2D) (None, 17, 17, 192) 208896 block17\_8\_ac[0][0]

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conv2d\_112 (Conv2D) (None, 17, 17, 192) 215040 activation\_111[0][0]

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batch\_normalization\_109 (BatchN (None, 17, 17, 192) 576 conv2d\_109[0][0]

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batch\_normalization\_112 (BatchN (None, 17, 17, 192) 576 conv2d\_112[0][0]

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activation\_109 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_109[0][0]

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activation\_112 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_112[0][0]

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block17\_9\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_109[0][0]

activation\_112[0][0]

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block17\_9\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_9\_mixed[0][0]

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block17\_9 (Lambda) (None, 17, 17, 1088) 0 block17\_8\_ac[0][0]

block17\_9\_conv[0][0]

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block17\_9\_ac (Activation) (None, 17, 17, 1088) 0 block17\_9[0][0]

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conv2d\_114 (Conv2D) (None, 17, 17, 128) 139264 block17\_9\_ac[0][0]

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batch\_normalization\_114 (BatchN (None, 17, 17, 128) 384 conv2d\_114[0][0]

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activation\_114 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_114[0][0]

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conv2d\_115 (Conv2D) (None, 17, 17, 160) 143360 activation\_114[0][0]

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batch\_normalization\_115 (BatchN (None, 17, 17, 160) 480 conv2d\_115[0][0]

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activation\_115 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_115[0][0]

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conv2d\_113 (Conv2D) (None, 17, 17, 192) 208896 block17\_9\_ac[0][0]

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conv2d\_116 (Conv2D) (None, 17, 17, 192) 215040 activation\_115[0][0]

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batch\_normalization\_113 (BatchN (None, 17, 17, 192) 576 conv2d\_113[0][0]

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batch\_normalization\_116 (BatchN (None, 17, 17, 192) 576 conv2d\_116[0][0]

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activation\_113 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_113[0][0]

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activation\_116 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_116[0][0]

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block17\_10\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_113[0][0]

activation\_116[0][0]

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block17\_10\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_10\_mixed[0][0]

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block17\_10 (Lambda) (None, 17, 17, 1088) 0 block17\_9\_ac[0][0]

block17\_10\_conv[0][0]

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block17\_10\_ac (Activation) (None, 17, 17, 1088) 0 block17\_10[0][0]

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conv2d\_118 (Conv2D) (None, 17, 17, 128) 139264 block17\_10\_ac[0][0]

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batch\_normalization\_118 (BatchN (None, 17, 17, 128) 384 conv2d\_118[0][0]

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activation\_118 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_118[0][0]

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conv2d\_119 (Conv2D) (None, 17, 17, 160) 143360 activation\_118[0][0]

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batch\_normalization\_119 (BatchN (None, 17, 17, 160) 480 conv2d\_119[0][0]

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activation\_119 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_119[0][0]

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conv2d\_117 (Conv2D) (None, 17, 17, 192) 208896 block17\_10\_ac[0][0]

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conv2d\_120 (Conv2D) (None, 17, 17, 192) 215040 activation\_119[0][0]

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batch\_normalization\_117 (BatchN (None, 17, 17, 192) 576 conv2d\_117[0][0]

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batch\_normalization\_120 (BatchN (None, 17, 17, 192) 576 conv2d\_120[0][0]

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activation\_117 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_117[0][0]

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activation\_120 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_120[0][0]

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block17\_11\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_117[0][0]

activation\_120[0][0]

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block17\_11\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_11\_mixed[0][0]

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block17\_11 (Lambda) (None, 17, 17, 1088) 0 block17\_10\_ac[0][0]

block17\_11\_conv[0][0]

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block17\_11\_ac (Activation) (None, 17, 17, 1088) 0 block17\_11[0][0]

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conv2d\_122 (Conv2D) (None, 17, 17, 128) 139264 block17\_11\_ac[0][0]

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batch\_normalization\_122 (BatchN (None, 17, 17, 128) 384 conv2d\_122[0][0]

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activation\_122 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_122[0][0]

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conv2d\_123 (Conv2D) (None, 17, 17, 160) 143360 activation\_122[0][0]

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batch\_normalization\_123 (BatchN (None, 17, 17, 160) 480 conv2d\_123[0][0]

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activation\_123 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_123[0][0]

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conv2d\_121 (Conv2D) (None, 17, 17, 192) 208896 block17\_11\_ac[0][0]

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conv2d\_124 (Conv2D) (None, 17, 17, 192) 215040 activation\_123[0][0]

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batch\_normalization\_121 (BatchN (None, 17, 17, 192) 576 conv2d\_121[0][0]

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batch\_normalization\_124 (BatchN (None, 17, 17, 192) 576 conv2d\_124[0][0]

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activation\_121 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_121[0][0]

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activation\_124 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_124[0][0]

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block17\_12\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_121[0][0]

activation\_124[0][0]

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block17\_12\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_12\_mixed[0][0]

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block17\_12 (Lambda) (None, 17, 17, 1088) 0 block17\_11\_ac[0][0]

block17\_12\_conv[0][0]

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block17\_12\_ac (Activation) (None, 17, 17, 1088) 0 block17\_12[0][0]

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conv2d\_126 (Conv2D) (None, 17, 17, 128) 139264 block17\_12\_ac[0][0]

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batch\_normalization\_126 (BatchN (None, 17, 17, 128) 384 conv2d\_126[0][0]

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activation\_126 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_126[0][0]

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conv2d\_127 (Conv2D) (None, 17, 17, 160) 143360 activation\_126[0][0]

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batch\_normalization\_127 (BatchN (None, 17, 17, 160) 480 conv2d\_127[0][0]

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activation\_127 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_127[0][0]

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conv2d\_125 (Conv2D) (None, 17, 17, 192) 208896 block17\_12\_ac[0][0]

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conv2d\_128 (Conv2D) (None, 17, 17, 192) 215040 activation\_127[0][0]

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batch\_normalization\_125 (BatchN (None, 17, 17, 192) 576 conv2d\_125[0][0]

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batch\_normalization\_128 (BatchN (None, 17, 17, 192) 576 conv2d\_128[0][0]

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activation\_125 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_125[0][0]

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activation\_128 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_128[0][0]

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block17\_13\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_125[0][0]

activation\_128[0][0]

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block17\_13\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_13\_mixed[0][0]

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block17\_13 (Lambda) (None, 17, 17, 1088) 0 block17\_12\_ac[0][0]

block17\_13\_conv[0][0]

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block17\_13\_ac (Activation) (None, 17, 17, 1088) 0 block17\_13[0][0]

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conv2d\_130 (Conv2D) (None, 17, 17, 128) 139264 block17\_13\_ac[0][0]

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batch\_normalization\_130 (BatchN (None, 17, 17, 128) 384 conv2d\_130[0][0]

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activation\_130 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_130[0][0]

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conv2d\_131 (Conv2D) (None, 17, 17, 160) 143360 activation\_130[0][0]

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batch\_normalization\_131 (BatchN (None, 17, 17, 160) 480 conv2d\_131[0][0]

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activation\_131 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_131[0][0]

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conv2d\_129 (Conv2D) (None, 17, 17, 192) 208896 block17\_13\_ac[0][0]

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conv2d\_132 (Conv2D) (None, 17, 17, 192) 215040 activation\_131[0][0]

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batch\_normalization\_129 (BatchN (None, 17, 17, 192) 576 conv2d\_129[0][0]

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batch\_normalization\_132 (BatchN (None, 17, 17, 192) 576 conv2d\_132[0][0]

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activation\_129 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_129[0][0]

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activation\_132 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_132[0][0]

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block17\_14\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_129[0][0]

activation\_132[0][0]

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block17\_14\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_14\_mixed[0][0]

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block17\_14 (Lambda) (None, 17, 17, 1088) 0 block17\_13\_ac[0][0]

block17\_14\_conv[0][0]

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block17\_14\_ac (Activation) (None, 17, 17, 1088) 0 block17\_14[0][0]

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conv2d\_134 (Conv2D) (None, 17, 17, 128) 139264 block17\_14\_ac[0][0]

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batch\_normalization\_134 (BatchN (None, 17, 17, 128) 384 conv2d\_134[0][0]

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activation\_134 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_134[0][0]

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conv2d\_135 (Conv2D) (None, 17, 17, 160) 143360 activation\_134[0][0]

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batch\_normalization\_135 (BatchN (None, 17, 17, 160) 480 conv2d\_135[0][0]

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activation\_135 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_135[0][0]

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conv2d\_133 (Conv2D) (None, 17, 17, 192) 208896 block17\_14\_ac[0][0]

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conv2d\_136 (Conv2D) (None, 17, 17, 192) 215040 activation\_135[0][0]

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batch\_normalization\_133 (BatchN (None, 17, 17, 192) 576 conv2d\_133[0][0]

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batch\_normalization\_136 (BatchN (None, 17, 17, 192) 576 conv2d\_136[0][0]

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activation\_133 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_133[0][0]

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activation\_136 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_136[0][0]

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block17\_15\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_133[0][0]

activation\_136[0][0]

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block17\_15\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_15\_mixed[0][0]

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block17\_15 (Lambda) (None, 17, 17, 1088) 0 block17\_14\_ac[0][0]

block17\_15\_conv[0][0]

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block17\_15\_ac (Activation) (None, 17, 17, 1088) 0 block17\_15[0][0]

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conv2d\_138 (Conv2D) (None, 17, 17, 128) 139264 block17\_15\_ac[0][0]

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batch\_normalization\_138 (BatchN (None, 17, 17, 128) 384 conv2d\_138[0][0]

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activation\_138 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_138[0][0]

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conv2d\_139 (Conv2D) (None, 17, 17, 160) 143360 activation\_138[0][0]

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batch\_normalization\_139 (BatchN (None, 17, 17, 160) 480 conv2d\_139[0][0]

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activation\_139 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_139[0][0]

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conv2d\_137 (Conv2D) (None, 17, 17, 192) 208896 block17\_15\_ac[0][0]

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conv2d\_140 (Conv2D) (None, 17, 17, 192) 215040 activation\_139[0][0]

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batch\_normalization\_137 (BatchN (None, 17, 17, 192) 576 conv2d\_137[0][0]

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batch\_normalization\_140 (BatchN (None, 17, 17, 192) 576 conv2d\_140[0][0]

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activation\_137 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_137[0][0]

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activation\_140 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_140[0][0]

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block17\_16\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_137[0][0]

activation\_140[0][0]

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block17\_16\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_16\_mixed[0][0]

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block17\_16 (Lambda) (None, 17, 17, 1088) 0 block17\_15\_ac[0][0]

block17\_16\_conv[0][0]

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block17\_16\_ac (Activation) (None, 17, 17, 1088) 0 block17\_16[0][0]

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conv2d\_142 (Conv2D) (None, 17, 17, 128) 139264 block17\_16\_ac[0][0]

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batch\_normalization\_142 (BatchN (None, 17, 17, 128) 384 conv2d\_142[0][0]

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activation\_142 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_142[0][0]

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conv2d\_143 (Conv2D) (None, 17, 17, 160) 143360 activation\_142[0][0]

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batch\_normalization\_143 (BatchN (None, 17, 17, 160) 480 conv2d\_143[0][0]

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activation\_143 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_143[0][0]

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conv2d\_141 (Conv2D) (None, 17, 17, 192) 208896 block17\_16\_ac[0][0]

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conv2d\_144 (Conv2D) (None, 17, 17, 192) 215040 activation\_143[0][0]

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batch\_normalization\_141 (BatchN (None, 17, 17, 192) 576 conv2d\_141[0][0]

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batch\_normalization\_144 (BatchN (None, 17, 17, 192) 576 conv2d\_144[0][0]

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activation\_141 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_141[0][0]

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activation\_144 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_144[0][0]

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block17\_17\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_141[0][0]

activation\_144[0][0]

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block17\_17\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_17\_mixed[0][0]

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block17\_17 (Lambda) (None, 17, 17, 1088) 0 block17\_16\_ac[0][0]

block17\_17\_conv[0][0]

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block17\_17\_ac (Activation) (None, 17, 17, 1088) 0 block17\_17[0][0]

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conv2d\_146 (Conv2D) (None, 17, 17, 128) 139264 block17\_17\_ac[0][0]

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batch\_normalization\_146 (BatchN (None, 17, 17, 128) 384 conv2d\_146[0][0]

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activation\_146 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_146[0][0]

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conv2d\_147 (Conv2D) (None, 17, 17, 160) 143360 activation\_146[0][0]

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batch\_normalization\_147 (BatchN (None, 17, 17, 160) 480 conv2d\_147[0][0]

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activation\_147 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_147[0][0]

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conv2d\_145 (Conv2D) (None, 17, 17, 192) 208896 block17\_17\_ac[0][0]

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conv2d\_148 (Conv2D) (None, 17, 17, 192) 215040 activation\_147[0][0]

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batch\_normalization\_145 (BatchN (None, 17, 17, 192) 576 conv2d\_145[0][0]

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batch\_normalization\_148 (BatchN (None, 17, 17, 192) 576 conv2d\_148[0][0]

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activation\_145 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_145[0][0]

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activation\_148 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_148[0][0]

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block17\_18\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_145[0][0]

activation\_148[0][0]

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block17\_18\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_18\_mixed[0][0]

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block17\_18 (Lambda) (None, 17, 17, 1088) 0 block17\_17\_ac[0][0]

block17\_18\_conv[0][0]

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block17\_18\_ac (Activation) (None, 17, 17, 1088) 0 block17\_18[0][0]

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conv2d\_150 (Conv2D) (None, 17, 17, 128) 139264 block17\_18\_ac[0][0]

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batch\_normalization\_150 (BatchN (None, 17, 17, 128) 384 conv2d\_150[0][0]

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activation\_150 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_150[0][0]

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conv2d\_151 (Conv2D) (None, 17, 17, 160) 143360 activation\_150[0][0]

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batch\_normalization\_151 (BatchN (None, 17, 17, 160) 480 conv2d\_151[0][0]

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activation\_151 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_151[0][0]

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conv2d\_149 (Conv2D) (None, 17, 17, 192) 208896 block17\_18\_ac[0][0]

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conv2d\_152 (Conv2D) (None, 17, 17, 192) 215040 activation\_151[0][0]

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batch\_normalization\_149 (BatchN (None, 17, 17, 192) 576 conv2d\_149[0][0]

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batch\_normalization\_152 (BatchN (None, 17, 17, 192) 576 conv2d\_152[0][0]

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activation\_149 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_149[0][0]

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activation\_152 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_152[0][0]

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block17\_19\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_149[0][0]

activation\_152[0][0]

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block17\_19\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_19\_mixed[0][0]

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block17\_19 (Lambda) (None, 17, 17, 1088) 0 block17\_18\_ac[0][0]

block17\_19\_conv[0][0]

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block17\_19\_ac (Activation) (None, 17, 17, 1088) 0 block17\_19[0][0]

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conv2d\_154 (Conv2D) (None, 17, 17, 128) 139264 block17\_19\_ac[0][0]

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batch\_normalization\_154 (BatchN (None, 17, 17, 128) 384 conv2d\_154[0][0]

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activation\_154 (Activation) (None, 17, 17, 128) 0 batch\_normalization\_154[0][0]

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conv2d\_155 (Conv2D) (None, 17, 17, 160) 143360 activation\_154[0][0]

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batch\_normalization\_155 (BatchN (None, 17, 17, 160) 480 conv2d\_155[0][0]

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activation\_155 (Activation) (None, 17, 17, 160) 0 batch\_normalization\_155[0][0]

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conv2d\_153 (Conv2D) (None, 17, 17, 192) 208896 block17\_19\_ac[0][0]

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conv2d\_156 (Conv2D) (None, 17, 17, 192) 215040 activation\_155[0][0]

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batch\_normalization\_153 (BatchN (None, 17, 17, 192) 576 conv2d\_153[0][0]

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batch\_normalization\_156 (BatchN (None, 17, 17, 192) 576 conv2d\_156[0][0]

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activation\_153 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_153[0][0]

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activation\_156 (Activation) (None, 17, 17, 192) 0 batch\_normalization\_156[0][0]

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block17\_20\_mixed (Concatenate) (None, 17, 17, 384) 0 activation\_153[0][0]

activation\_156[0][0]

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block17\_20\_conv (Conv2D) (None, 17, 17, 1088) 418880 block17\_20\_mixed[0][0]

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block17\_20 (Lambda) (None, 17, 17, 1088) 0 block17\_19\_ac[0][0]

block17\_20\_conv[0][0]

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block17\_20\_ac (Activation) (None, 17, 17, 1088) 0 block17\_20[0][0]

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conv2d\_161 (Conv2D) (None, 17, 17, 256) 278528 block17\_20\_ac[0][0]

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batch\_normalization\_161 (BatchN (None, 17, 17, 256) 768 conv2d\_161[0][0]

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activation\_161 (Activation) (None, 17, 17, 256) 0 batch\_normalization\_161[0][0]

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conv2d\_157 (Conv2D) (None, 17, 17, 256) 278528 block17\_20\_ac[0][0]

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conv2d\_159 (Conv2D) (None, 17, 17, 256) 278528 block17\_20\_ac[0][0]

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conv2d\_162 (Conv2D) (None, 17, 17, 288) 663552 activation\_161[0][0]

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batch\_normalization\_157 (BatchN (None, 17, 17, 256) 768 conv2d\_157[0][0]

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batch\_normalization\_159 (BatchN (None, 17, 17, 256) 768 conv2d\_159[0][0]

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batch\_normalization\_162 (BatchN (None, 17, 17, 288) 864 conv2d\_162[0][0]

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activation\_157 (Activation) (None, 17, 17, 256) 0 batch\_normalization\_157[0][0]

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activation\_159 (Activation) (None, 17, 17, 256) 0 batch\_normalization\_159[0][0]

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activation\_162 (Activation) (None, 17, 17, 288) 0 batch\_normalization\_162[0][0]

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conv2d\_158 (Conv2D) (None, 8, 8, 384) 884736 activation\_157[0][0]

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conv2d\_160 (Conv2D) (None, 8, 8, 288) 663552 activation\_159[0][0]

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conv2d\_163 (Conv2D) (None, 8, 8, 320) 829440 activation\_162[0][0]

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batch\_normalization\_158 (BatchN (None, 8, 8, 384) 1152 conv2d\_158[0][0]

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batch\_normalization\_160 (BatchN (None, 8, 8, 288) 864 conv2d\_160[0][0]

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batch\_normalization\_163 (BatchN (None, 8, 8, 320) 960 conv2d\_163[0][0]

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activation\_158 (Activation) (None, 8, 8, 384) 0 batch\_normalization\_158[0][0]

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activation\_160 (Activation) (None, 8, 8, 288) 0 batch\_normalization\_160[0][0]

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activation\_163 (Activation) (None, 8, 8, 320) 0 batch\_normalization\_163[0][0]

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max\_pooling2d\_4 (MaxPooling2D) (None, 8, 8, 1088) 0 block17\_20\_ac[0][0]

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mixed\_7a (Concatenate) (None, 8, 8, 2080) 0 activation\_158[0][0]

activation\_160[0][0]

activation\_163[0][0]

max\_pooling2d\_4[0][0]

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conv2d\_165 (Conv2D) (None, 8, 8, 192) 399360 mixed\_7a[0][0]

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batch\_normalization\_165 (BatchN (None, 8, 8, 192) 576 conv2d\_165[0][0]

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activation\_165 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_165[0][0]

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conv2d\_166 (Conv2D) (None, 8, 8, 224) 129024 activation\_165[0][0]

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batch\_normalization\_166 (BatchN (None, 8, 8, 224) 672 conv2d\_166[0][0]

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activation\_166 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_166[0][0]

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conv2d\_164 (Conv2D) (None, 8, 8, 192) 399360 mixed\_7a[0][0]

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conv2d\_167 (Conv2D) (None, 8, 8, 256) 172032 activation\_166[0][0]

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batch\_normalization\_164 (BatchN (None, 8, 8, 192) 576 conv2d\_164[0][0]

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batch\_normalization\_167 (BatchN (None, 8, 8, 256) 768 conv2d\_167[0][0]

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activation\_164 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_164[0][0]

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activation\_167 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_167[0][0]

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block8\_1\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_164[0][0]

activation\_167[0][0]

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block8\_1\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_1\_mixed[0][0]

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block8\_1 (Lambda) (None, 8, 8, 2080) 0 mixed\_7a[0][0]

block8\_1\_conv[0][0]

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block8\_1\_ac (Activation) (None, 8, 8, 2080) 0 block8\_1[0][0]

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conv2d\_169 (Conv2D) (None, 8, 8, 192) 399360 block8\_1\_ac[0][0]

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batch\_normalization\_169 (BatchN (None, 8, 8, 192) 576 conv2d\_169[0][0]

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activation\_169 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_169[0][0]

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conv2d\_170 (Conv2D) (None, 8, 8, 224) 129024 activation\_169[0][0]

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batch\_normalization\_170 (BatchN (None, 8, 8, 224) 672 conv2d\_170[0][0]

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activation\_170 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_170[0][0]

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conv2d\_168 (Conv2D) (None, 8, 8, 192) 399360 block8\_1\_ac[0][0]

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conv2d\_171 (Conv2D) (None, 8, 8, 256) 172032 activation\_170[0][0]

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batch\_normalization\_168 (BatchN (None, 8, 8, 192) 576 conv2d\_168[0][0]

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batch\_normalization\_171 (BatchN (None, 8, 8, 256) 768 conv2d\_171[0][0]

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activation\_168 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_168[0][0]

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activation\_171 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_171[0][0]

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block8\_2\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_168[0][0]

activation\_171[0][0]

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block8\_2\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_2\_mixed[0][0]

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block8\_2 (Lambda) (None, 8, 8, 2080) 0 block8\_1\_ac[0][0]

block8\_2\_conv[0][0]

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block8\_2\_ac (Activation) (None, 8, 8, 2080) 0 block8\_2[0][0]

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conv2d\_173 (Conv2D) (None, 8, 8, 192) 399360 block8\_2\_ac[0][0]

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batch\_normalization\_173 (BatchN (None, 8, 8, 192) 576 conv2d\_173[0][0]

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activation\_173 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_173[0][0]

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conv2d\_174 (Conv2D) (None, 8, 8, 224) 129024 activation\_173[0][0]

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batch\_normalization\_174 (BatchN (None, 8, 8, 224) 672 conv2d\_174[0][0]

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activation\_174 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_174[0][0]

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conv2d\_172 (Conv2D) (None, 8, 8, 192) 399360 block8\_2\_ac[0][0]

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conv2d\_175 (Conv2D) (None, 8, 8, 256) 172032 activation\_174[0][0]

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batch\_normalization\_172 (BatchN (None, 8, 8, 192) 576 conv2d\_172[0][0]

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batch\_normalization\_175 (BatchN (None, 8, 8, 256) 768 conv2d\_175[0][0]

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activation\_172 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_172[0][0]

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activation\_175 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_175[0][0]

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block8\_3\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_172[0][0]

activation\_175[0][0]

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block8\_3\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_3\_mixed[0][0]

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block8\_3 (Lambda) (None, 8, 8, 2080) 0 block8\_2\_ac[0][0]

block8\_3\_conv[0][0]

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block8\_3\_ac (Activation) (None, 8, 8, 2080) 0 block8\_3[0][0]

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conv2d\_177 (Conv2D) (None, 8, 8, 192) 399360 block8\_3\_ac[0][0]

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batch\_normalization\_177 (BatchN (None, 8, 8, 192) 576 conv2d\_177[0][0]

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activation\_177 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_177[0][0]

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conv2d\_178 (Conv2D) (None, 8, 8, 224) 129024 activation\_177[0][0]

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batch\_normalization\_178 (BatchN (None, 8, 8, 224) 672 conv2d\_178[0][0]

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activation\_178 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_178[0][0]

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conv2d\_176 (Conv2D) (None, 8, 8, 192) 399360 block8\_3\_ac[0][0]

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conv2d\_179 (Conv2D) (None, 8, 8, 256) 172032 activation\_178[0][0]

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batch\_normalization\_176 (BatchN (None, 8, 8, 192) 576 conv2d\_176[0][0]

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batch\_normalization\_179 (BatchN (None, 8, 8, 256) 768 conv2d\_179[0][0]

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activation\_176 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_176[0][0]

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activation\_179 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_179[0][0]

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block8\_4\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_176[0][0]

activation\_179[0][0]

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block8\_4\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_4\_mixed[0][0]

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block8\_4 (Lambda) (None, 8, 8, 2080) 0 block8\_3\_ac[0][0]

block8\_4\_conv[0][0]

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block8\_4\_ac (Activation) (None, 8, 8, 2080) 0 block8\_4[0][0]

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conv2d\_181 (Conv2D) (None, 8, 8, 192) 399360 block8\_4\_ac[0][0]

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batch\_normalization\_181 (BatchN (None, 8, 8, 192) 576 conv2d\_181[0][0]

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activation\_181 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_181[0][0]

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conv2d\_182 (Conv2D) (None, 8, 8, 224) 129024 activation\_181[0][0]

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batch\_normalization\_182 (BatchN (None, 8, 8, 224) 672 conv2d\_182[0][0]

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activation\_182 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_182[0][0]

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conv2d\_180 (Conv2D) (None, 8, 8, 192) 399360 block8\_4\_ac[0][0]

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conv2d\_183 (Conv2D) (None, 8, 8, 256) 172032 activation\_182[0][0]

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batch\_normalization\_180 (BatchN (None, 8, 8, 192) 576 conv2d\_180[0][0]

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batch\_normalization\_183 (BatchN (None, 8, 8, 256) 768 conv2d\_183[0][0]

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activation\_180 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_180[0][0]

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activation\_183 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_183[0][0]

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block8\_5\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_180[0][0]

activation\_183[0][0]

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block8\_5\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_5\_mixed[0][0]

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block8\_5 (Lambda) (None, 8, 8, 2080) 0 block8\_4\_ac[0][0]

block8\_5\_conv[0][0]

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block8\_5\_ac (Activation) (None, 8, 8, 2080) 0 block8\_5[0][0]

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conv2d\_185 (Conv2D) (None, 8, 8, 192) 399360 block8\_5\_ac[0][0]

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batch\_normalization\_185 (BatchN (None, 8, 8, 192) 576 conv2d\_185[0][0]

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activation\_185 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_185[0][0]

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conv2d\_186 (Conv2D) (None, 8, 8, 224) 129024 activation\_185[0][0]

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batch\_normalization\_186 (BatchN (None, 8, 8, 224) 672 conv2d\_186[0][0]

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activation\_186 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_186[0][0]

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conv2d\_184 (Conv2D) (None, 8, 8, 192) 399360 block8\_5\_ac[0][0]

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conv2d\_187 (Conv2D) (None, 8, 8, 256) 172032 activation\_186[0][0]

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batch\_normalization\_184 (BatchN (None, 8, 8, 192) 576 conv2d\_184[0][0]

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batch\_normalization\_187 (BatchN (None, 8, 8, 256) 768 conv2d\_187[0][0]

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activation\_184 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_184[0][0]

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activation\_187 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_187[0][0]

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block8\_6\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_184[0][0]

activation\_187[0][0]

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block8\_6\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_6\_mixed[0][0]

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block8\_6 (Lambda) (None, 8, 8, 2080) 0 block8\_5\_ac[0][0]

block8\_6\_conv[0][0]

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block8\_6\_ac (Activation) (None, 8, 8, 2080) 0 block8\_6[0][0]

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conv2d\_189 (Conv2D) (None, 8, 8, 192) 399360 block8\_6\_ac[0][0]

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batch\_normalization\_189 (BatchN (None, 8, 8, 192) 576 conv2d\_189[0][0]

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activation\_189 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_189[0][0]

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conv2d\_190 (Conv2D) (None, 8, 8, 224) 129024 activation\_189[0][0]

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batch\_normalization\_190 (BatchN (None, 8, 8, 224) 672 conv2d\_190[0][0]

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activation\_190 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_190[0][0]

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conv2d\_188 (Conv2D) (None, 8, 8, 192) 399360 block8\_6\_ac[0][0]

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conv2d\_191 (Conv2D) (None, 8, 8, 256) 172032 activation\_190[0][0]

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batch\_normalization\_188 (BatchN (None, 8, 8, 192) 576 conv2d\_188[0][0]

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batch\_normalization\_191 (BatchN (None, 8, 8, 256) 768 conv2d\_191[0][0]

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activation\_188 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_188[0][0]

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activation\_191 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_191[0][0]

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block8\_7\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_188[0][0]

activation\_191[0][0]

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block8\_7\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_7\_mixed[0][0]

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block8\_7 (Lambda) (None, 8, 8, 2080) 0 block8\_6\_ac[0][0]

block8\_7\_conv[0][0]

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block8\_7\_ac (Activation) (None, 8, 8, 2080) 0 block8\_7[0][0]

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conv2d\_193 (Conv2D) (None, 8, 8, 192) 399360 block8\_7\_ac[0][0]

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batch\_normalization\_193 (BatchN (None, 8, 8, 192) 576 conv2d\_193[0][0]

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activation\_193 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_193[0][0]

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conv2d\_194 (Conv2D) (None, 8, 8, 224) 129024 activation\_193[0][0]

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batch\_normalization\_194 (BatchN (None, 8, 8, 224) 672 conv2d\_194[0][0]

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activation\_194 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_194[0][0]

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conv2d\_192 (Conv2D) (None, 8, 8, 192) 399360 block8\_7\_ac[0][0]

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conv2d\_195 (Conv2D) (None, 8, 8, 256) 172032 activation\_194[0][0]

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batch\_normalization\_192 (BatchN (None, 8, 8, 192) 576 conv2d\_192[0][0]

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batch\_normalization\_195 (BatchN (None, 8, 8, 256) 768 conv2d\_195[0][0]

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activation\_192 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_192[0][0]

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activation\_195 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_195[0][0]

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block8\_8\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_192[0][0]

activation\_195[0][0]

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block8\_8\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_8\_mixed[0][0]

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block8\_8 (Lambda) (None, 8, 8, 2080) 0 block8\_7\_ac[0][0]

block8\_8\_conv[0][0]

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block8\_8\_ac (Activation) (None, 8, 8, 2080) 0 block8\_8[0][0]

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conv2d\_197 (Conv2D) (None, 8, 8, 192) 399360 block8\_8\_ac[0][0]

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batch\_normalization\_197 (BatchN (None, 8, 8, 192) 576 conv2d\_197[0][0]

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activation\_197 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_197[0][0]

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conv2d\_198 (Conv2D) (None, 8, 8, 224) 129024 activation\_197[0][0]

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batch\_normalization\_198 (BatchN (None, 8, 8, 224) 672 conv2d\_198[0][0]

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activation\_198 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_198[0][0]

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conv2d\_196 (Conv2D) (None, 8, 8, 192) 399360 block8\_8\_ac[0][0]

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conv2d\_199 (Conv2D) (None, 8, 8, 256) 172032 activation\_198[0][0]

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batch\_normalization\_196 (BatchN (None, 8, 8, 192) 576 conv2d\_196[0][0]

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batch\_normalization\_199 (BatchN (None, 8, 8, 256) 768 conv2d\_199[0][0]

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activation\_196 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_196[0][0]

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activation\_199 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_199[0][0]

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block8\_9\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_196[0][0]

activation\_199[0][0]

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block8\_9\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_9\_mixed[0][0]

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block8\_9 (Lambda) (None, 8, 8, 2080) 0 block8\_8\_ac[0][0]

block8\_9\_conv[0][0]

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block8\_9\_ac (Activation) (None, 8, 8, 2080) 0 block8\_9[0][0]

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conv2d\_201 (Conv2D) (None, 8, 8, 192) 399360 block8\_9\_ac[0][0]

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batch\_normalization\_201 (BatchN (None, 8, 8, 192) 576 conv2d\_201[0][0]

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activation\_201 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_201[0][0]

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conv2d\_202 (Conv2D) (None, 8, 8, 224) 129024 activation\_201[0][0]

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batch\_normalization\_202 (BatchN (None, 8, 8, 224) 672 conv2d\_202[0][0]

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

activation\_202 (Activation) (None, 8, 8, 224) 0 batch\_normalization\_202[0][0]

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conv2d\_200 (Conv2D) (None, 8, 8, 192) 399360 block8\_9\_ac[0][0]

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conv2d\_203 (Conv2D) (None, 8, 8, 256) 172032 activation\_202[0][0]

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batch\_normalization\_200 (BatchN (None, 8, 8, 192) 576 conv2d\_200[0][0]

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batch\_normalization\_203 (BatchN (None, 8, 8, 256) 768 conv2d\_203[0][0]

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activation\_200 (Activation) (None, 8, 8, 192) 0 batch\_normalization\_200[0][0]

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activation\_203 (Activation) (None, 8, 8, 256) 0 batch\_normalization\_203[0][0]

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block8\_10\_mixed (Concatenate) (None, 8, 8, 448) 0 activation\_200[0][0]

activation\_203[0][0]

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block8\_10\_conv (Conv2D) (None, 8, 8, 2080) 933920 block8\_10\_mixed[0][0]

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block8\_10 (Lambda) (None, 8, 8, 2080) 0 block8\_9\_ac[0][0]

block8\_10\_conv[0][0]

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conv\_7b (Conv2D) (None, 8, 8, 1536) 3194880 block8\_10[0][0]

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conv\_7b\_bn (BatchNormalization) (None, 8, 8, 1536) 4608 conv\_7b[0][0]

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conv\_7b\_ac (Activation) (None, 8, 8, 1536) 0 conv\_7b\_bn[0][0]

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avg\_pool (GlobalAveragePooling2 (None, 1536) 0 conv\_7b\_ac[0][0]

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Total params: 54,336,736

Trainable params: 54,276,192

Non-trainable params: 60,544

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