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Layer (type) Output Shape Param # Connected to

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

input\_1 (InputLayer) (None, 128, 128, 3) 0

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Conv1\_pad (ZeroPadding2D) (None, 129, 129, 3) 0 input\_1[0][0]

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Conv1 (Conv2D) (None, 64, 64, 32) 864 Conv1\_pad[0][0]

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bn\_Conv1 (BatchNormalization) (None, 64, 64, 32) 128 Conv1[0][0]

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Conv1\_relu (ReLU) (None, 64, 64, 32) 0 bn\_Conv1[0][0]

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expanded\_conv\_depthwise (Depthw (None, 64, 64, 32) 288 Conv1\_relu[0][0]

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expanded\_conv\_depthwise\_BN (Bat (None, 64, 64, 32) 128 expanded\_conv\_depthwise[0][0]

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expanded\_conv\_depthwise\_relu (R (None, 64, 64, 32) 0 expanded\_conv\_depthwise\_BN[0][0]

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expanded\_conv\_project (Conv2D) (None, 64, 64, 16) 512 expanded\_conv\_depthwise\_relu[0][0

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expanded\_conv\_project\_BN (Batch (None, 64, 64, 16) 64 expanded\_conv\_project[0][0]

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block\_1\_expand (Conv2D) (None, 64, 64, 96) 1536 expanded\_conv\_project\_BN[0][0]

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block\_1\_expand\_BN (BatchNormali (None, 64, 64, 96) 384 block\_1\_expand[0][0]

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block\_1\_expand\_relu (ReLU) (None, 64, 64, 96) 0 block\_1\_expand\_BN[0][0]

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block\_1\_pad (ZeroPadding2D) (None, 65, 65, 96) 0 block\_1\_expand\_relu[0][0]

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block\_1\_depthwise (DepthwiseCon (None, 32, 32, 96) 864 block\_1\_pad[0][0]

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block\_1\_depthwise\_BN (BatchNorm (None, 32, 32, 96) 384 block\_1\_depthwise[0][0]

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block\_1\_depthwise\_relu (ReLU) (None, 32, 32, 96) 0 block\_1\_depthwise\_BN[0][0]

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block\_1\_project (Conv2D) (None, 32, 32, 24) 2304 block\_1\_depthwise\_relu[0][0]

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block\_1\_project\_BN (BatchNormal (None, 32, 32, 24) 96 block\_1\_project[0][0]

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block\_2\_expand (Conv2D) (None, 32, 32, 144) 3456 block\_1\_project\_BN[0][0]

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block\_2\_expand\_BN (BatchNormali (None, 32, 32, 144) 576 block\_2\_expand[0][0]

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block\_2\_expand\_relu (ReLU) (None, 32, 32, 144) 0 block\_2\_expand\_BN[0][0]

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block\_2\_depthwise (DepthwiseCon (None, 32, 32, 144) 1296 block\_2\_expand\_relu[0][0]

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block\_2\_depthwise\_BN (BatchNorm (None, 32, 32, 144) 576 block\_2\_depthwise[0][0]

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block\_2\_depthwise\_relu (ReLU) (None, 32, 32, 144) 0 block\_2\_depthwise\_BN[0][0]

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block\_2\_project (Conv2D) (None, 32, 32, 24) 3456 block\_2\_depthwise\_relu[0][0]

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block\_2\_project\_BN (BatchNormal (None, 32, 32, 24) 96 block\_2\_project[0][0]

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block\_2\_add (Add) (None, 32, 32, 24) 0 block\_1\_project\_BN[0][0]

block\_2\_project\_BN[0][0]

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block\_3\_expand (Conv2D) (None, 32, 32, 144) 3456 block\_2\_add[0][0]

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block\_3\_expand\_BN (BatchNormali (None, 32, 32, 144) 576 block\_3\_expand[0][0]

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block\_3\_expand\_relu (ReLU) (None, 32, 32, 144) 0 block\_3\_expand\_BN[0][0]

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block\_3\_pad (ZeroPadding2D) (None, 33, 33, 144) 0 block\_3\_expand\_relu[0][0]

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block\_3\_depthwise (DepthwiseCon (None, 16, 16, 144) 1296 block\_3\_pad[0][0]

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block\_3\_depthwise\_BN (BatchNorm (None, 16, 16, 144) 576 block\_3\_depthwise[0][0]

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block\_3\_depthwise\_relu (ReLU) (None, 16, 16, 144) 0 block\_3\_depthwise\_BN[0][0]

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block\_3\_project (Conv2D) (None, 16, 16, 32) 4608 block\_3\_depthwise\_relu[0][0]

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block\_3\_project\_BN (BatchNormal (None, 16, 16, 32) 128 block\_3\_project[0][0]

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block\_4\_expand (Conv2D) (None, 16, 16, 192) 6144 block\_3\_project\_BN[0][0]

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block\_4\_expand\_BN (BatchNormali (None, 16, 16, 192) 768 block\_4\_expand[0][0]

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block\_4\_expand\_relu (ReLU) (None, 16, 16, 192) 0 block\_4\_expand\_BN[0][0]

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block\_4\_depthwise (DepthwiseCon (None, 16, 16, 192) 1728 block\_4\_expand\_relu[0][0]

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block\_4\_depthwise\_BN (BatchNorm (None, 16, 16, 192) 768 block\_4\_depthwise[0][0]

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block\_4\_depthwise\_relu (ReLU) (None, 16, 16, 192) 0 block\_4\_depthwise\_BN[0][0]

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block\_4\_project (Conv2D) (None, 16, 16, 32) 6144 block\_4\_depthwise\_relu[0][0]

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block\_4\_project\_BN (BatchNormal (None, 16, 16, 32) 128 block\_4\_project[0][0]

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block\_4\_add (Add) (None, 16, 16, 32) 0 block\_3\_project\_BN[0][0]

block\_4\_project\_BN[0][0]

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block\_5\_expand (Conv2D) (None, 16, 16, 192) 6144 block\_4\_add[0][0]

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block\_5\_expand\_BN (BatchNormali (None, 16, 16, 192) 768 block\_5\_expand[0][0]

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block\_5\_expand\_relu (ReLU) (None, 16, 16, 192) 0 block\_5\_expand\_BN[0][0]

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block\_5\_depthwise (DepthwiseCon (None, 16, 16, 192) 1728 block\_5\_expand\_relu[0][0]

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block\_5\_depthwise\_BN (BatchNorm (None, 16, 16, 192) 768 block\_5\_depthwise[0][0]

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

block\_5\_depthwise\_relu (ReLU) (None, 16, 16, 192) 0 block\_5\_depthwise\_BN[0][0]

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block\_5\_project (Conv2D) (None, 16, 16, 32) 6144 block\_5\_depthwise\_relu[0][0]

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block\_5\_project\_BN (BatchNormal (None, 16, 16, 32) 128 block\_5\_project[0][0]

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block\_5\_add (Add) (None, 16, 16, 32) 0 block\_4\_add[0][0]

block\_5\_project\_BN[0][0]

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block\_6\_expand (Conv2D) (None, 16, 16, 192) 6144 block\_5\_add[0][0]

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block\_6\_expand\_BN (BatchNormali (None, 16, 16, 192) 768 block\_6\_expand[0][0]

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block\_6\_expand\_relu (ReLU) (None, 16, 16, 192) 0 block\_6\_expand\_BN[0][0]

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block\_6\_pad (ZeroPadding2D) (None, 17, 17, 192) 0 block\_6\_expand\_relu[0][0]

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block\_6\_depthwise (DepthwiseCon (None, 8, 8, 192) 1728 block\_6\_pad[0][0]

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block\_6\_depthwise\_BN (BatchNorm (None, 8, 8, 192) 768 block\_6\_depthwise[0][0]

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block\_6\_depthwise\_relu (ReLU) (None, 8, 8, 192) 0 block\_6\_depthwise\_BN[0][0]

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block\_6\_project (Conv2D) (None, 8, 8, 64) 12288 block\_6\_depthwise\_relu[0][0]

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block\_6\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_6\_project[0][0]

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block\_7\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_6\_project\_BN[0][0]

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block\_7\_expand\_BN (BatchNormali (None, 8, 8, 384) 1536 block\_7\_expand[0][0]

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block\_7\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_7\_expand\_BN[0][0]

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block\_7\_depthwise (DepthwiseCon (None, 8, 8, 384) 3456 block\_7\_expand\_relu[0][0]

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block\_7\_depthwise\_BN (BatchNorm (None, 8, 8, 384) 1536 block\_7\_depthwise[0][0]

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block\_7\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_7\_depthwise\_BN[0][0]

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block\_7\_project (Conv2D) (None, 8, 8, 64) 24576 block\_7\_depthwise\_relu[0][0]

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block\_7\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_7\_project[0][0]

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block\_7\_add (Add) (None, 8, 8, 64) 0 block\_6\_project\_BN[0][0]

block\_7\_project\_BN[0][0]

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block\_8\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_7\_add[0][0]

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block\_8\_expand\_BN (BatchNormali (None, 8, 8, 384) 1536 block\_8\_expand[0][0]

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block\_8\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_8\_expand\_BN[0][0]

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block\_8\_depthwise (DepthwiseCon (None, 8, 8, 384) 3456 block\_8\_expand\_relu[0][0]

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block\_8\_depthwise\_BN (BatchNorm (None, 8, 8, 384) 1536 block\_8\_depthwise[0][0]

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block\_8\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_8\_depthwise\_BN[0][0]

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block\_8\_project (Conv2D) (None, 8, 8, 64) 24576 block\_8\_depthwise\_relu[0][0]

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block\_8\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_8\_project[0][0]

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block\_8\_add (Add) (None, 8, 8, 64) 0 block\_7\_add[0][0]

block\_8\_project\_BN[0][0]

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block\_9\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_8\_add[0][0]

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block\_9\_expand\_BN (BatchNormali (None, 8, 8, 384) 1536 block\_9\_expand[0][0]

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block\_9\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_9\_expand\_BN[0][0]

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block\_9\_depthwise (DepthwiseCon (None, 8, 8, 384) 3456 block\_9\_expand\_relu[0][0]

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block\_9\_depthwise\_BN (BatchNorm (None, 8, 8, 384) 1536 block\_9\_depthwise[0][0]

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block\_9\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_9\_depthwise\_BN[0][0]

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block\_9\_project (Conv2D) (None, 8, 8, 64) 24576 block\_9\_depthwise\_relu[0][0]

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block\_9\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_9\_project[0][0]

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block\_9\_add (Add) (None, 8, 8, 64) 0 block\_8\_add[0][0]

block\_9\_project\_BN[0][0]

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block\_10\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_9\_add[0][0]

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block\_10\_expand\_BN (BatchNormal (None, 8, 8, 384) 1536 block\_10\_expand[0][0]

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block\_10\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_10\_expand\_BN[0][0]

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block\_10\_depthwise (DepthwiseCo (None, 8, 8, 384) 3456 block\_10\_expand\_relu[0][0]

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block\_10\_depthwise\_BN (BatchNor (None, 8, 8, 384) 1536 block\_10\_depthwise[0][0]

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block\_10\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_10\_depthwise\_BN[0][0]

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block\_10\_project (Conv2D) (None, 8, 8, 96) 36864 block\_10\_depthwise\_relu[0][0]

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block\_10\_project\_BN (BatchNorma (None, 8, 8, 96) 384 block\_10\_project[0][0]

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block\_11\_expand (Conv2D) (None, 8, 8, 576) 55296 block\_10\_project\_BN[0][0]

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block\_11\_expand\_BN (BatchNormal (None, 8, 8, 576) 2304 block\_11\_expand[0][0]

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block\_11\_expand\_relu (ReLU) (None, 8, 8, 576) 0 block\_11\_expand\_BN[0][0]

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block\_11\_depthwise (DepthwiseCo (None, 8, 8, 576) 5184 block\_11\_expand\_relu[0][0]

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block\_11\_depthwise\_BN (BatchNor (None, 8, 8, 576) 2304 block\_11\_depthwise[0][0]

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block\_11\_depthwise\_relu (ReLU) (None, 8, 8, 576) 0 block\_11\_depthwise\_BN[0][0]

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block\_11\_project (Conv2D) (None, 8, 8, 96) 55296 block\_11\_depthwise\_relu[0][0]

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block\_11\_project\_BN (BatchNorma (None, 8, 8, 96) 384 block\_11\_project[0][0]

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block\_11\_add (Add) (None, 8, 8, 96) 0 block\_10\_project\_BN[0][0]

block\_11\_project\_BN[0][0]

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block\_12\_expand (Conv2D) (None, 8, 8, 576) 55296 block\_11\_add[0][0]

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block\_12\_expand\_BN (BatchNormal (None, 8, 8, 576) 2304 block\_12\_expand[0][0]

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

block\_12\_expand\_relu (ReLU) (None, 8, 8, 576) 0 block\_12\_expand\_BN[0][0]

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block\_12\_depthwise (DepthwiseCo (None, 8, 8, 576) 5184 block\_12\_expand\_relu[0][0]

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block\_12\_depthwise\_BN (BatchNor (None, 8, 8, 576) 2304 block\_12\_depthwise[0][0]

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block\_12\_depthwise\_relu (ReLU) (None, 8, 8, 576) 0 block\_12\_depthwise\_BN[0][0]

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block\_12\_project (Conv2D) (None, 8, 8, 96) 55296 block\_12\_depthwise\_relu[0][0]

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block\_12\_project\_BN (BatchNorma (None, 8, 8, 96) 384 block\_12\_project[0][0]

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block\_12\_add (Add) (None, 8, 8, 96) 0 block\_11\_add[0][0]

block\_12\_project\_BN[0][0]

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block\_13\_expand (Conv2D) (None, 8, 8, 576) 55296 block\_12\_add[0][0]

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block\_13\_expand\_BN (BatchNormal (None, 8, 8, 576) 2304 block\_13\_expand[0][0]

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block\_13\_expand\_relu (ReLU) (None, 8, 8, 576) 0 block\_13\_expand\_BN[0][0]

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block\_13\_pad (ZeroPadding2D) (None, 9, 9, 576) 0 block\_13\_expand\_relu[0][0]

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block\_13\_depthwise (DepthwiseCo (None, 4, 4, 576) 5184 block\_13\_pad[0][0]

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block\_13\_depthwise\_BN (BatchNor (None, 4, 4, 576) 2304 block\_13\_depthwise[0][0]

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block\_13\_depthwise\_relu (ReLU) (None, 4, 4, 576) 0 block\_13\_depthwise\_BN[0][0]

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block\_13\_project (Conv2D) (None, 4, 4, 160) 92160 block\_13\_depthwise\_relu[0][0]

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block\_13\_project\_BN (BatchNorma (None, 4, 4, 160) 640 block\_13\_project[0][0]

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block\_14\_expand (Conv2D) (None, 4, 4, 960) 153600 block\_13\_project\_BN[0][0]

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block\_14\_expand\_BN (BatchNormal (None, 4, 4, 960) 3840 block\_14\_expand[0][0]

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block\_14\_expand\_relu (ReLU) (None, 4, 4, 960) 0 block\_14\_expand\_BN[0][0]

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block\_14\_depthwise (DepthwiseCo (None, 4, 4, 960) 8640 block\_14\_expand\_relu[0][0]

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block\_14\_depthwise\_BN (BatchNor (None, 4, 4, 960) 3840 block\_14\_depthwise[0][0]

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block\_14\_depthwise\_relu (ReLU) (None, 4, 4, 960) 0 block\_14\_depthwise\_BN[0][0]

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block\_14\_project (Conv2D) (None, 4, 4, 160) 153600 block\_14\_depthwise\_relu[0][0]

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block\_14\_project\_BN (BatchNorma (None, 4, 4, 160) 640 block\_14\_project[0][0]

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block\_14\_add (Add) (None, 4, 4, 160) 0 block\_13\_project\_BN[0][0]

block\_14\_project\_BN[0][0]

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block\_15\_expand (Conv2D) (None, 4, 4, 960) 153600 block\_14\_add[0][0]

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block\_15\_expand\_BN (BatchNormal (None, 4, 4, 960) 3840 block\_15\_expand[0][0]

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block\_15\_expand\_relu (ReLU) (None, 4, 4, 960) 0 block\_15\_expand\_BN[0][0]

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block\_15\_depthwise (DepthwiseCo (None, 4, 4, 960) 8640 block\_15\_expand\_relu[0][0]

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block\_15\_depthwise\_BN (BatchNor (None, 4, 4, 960) 3840 block\_15\_depthwise[0][0]

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block\_15\_depthwise\_relu (ReLU) (None, 4, 4, 960) 0 block\_15\_depthwise\_BN[0][0]

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block\_15\_project (Conv2D) (None, 4, 4, 160) 153600 block\_15\_depthwise\_relu[0][0]

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block\_15\_project\_BN (BatchNorma (None, 4, 4, 160) 640 block\_15\_project[0][0]

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block\_15\_add (Add) (None, 4, 4, 160) 0 block\_14\_add[0][0]

block\_15\_project\_BN[0][0]

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block\_16\_expand (Conv2D) (None, 4, 4, 960) 153600 block\_15\_add[0][0]

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block\_16\_expand\_BN (BatchNormal (None, 4, 4, 960) 3840 block\_16\_expand[0][0]

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block\_16\_expand\_relu (ReLU) (None, 4, 4, 960) 0 block\_16\_expand\_BN[0][0]

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block\_16\_depthwise (DepthwiseCo (None, 4, 4, 960) 8640 block\_16\_expand\_relu[0][0]

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block\_16\_depthwise\_BN (BatchNor (None, 4, 4, 960) 3840 block\_16\_depthwise[0][0]

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block\_16\_depthwise\_relu (ReLU) (None, 4, 4, 960) 0 block\_16\_depthwise\_BN[0][0]

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block\_16\_project (Conv2D) (None, 4, 4, 320) 307200 block\_16\_depthwise\_relu[0][0]

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block\_16\_project\_BN (BatchNorma (None, 4, 4, 320) 1280 block\_16\_project[0][0]

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Conv\_1 (Conv2D) (None, 4, 4, 1280) 409600 block\_16\_project\_BN[0][0]

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Conv\_1\_bn (BatchNormalization) (None, 4, 4, 1280) 5120 Conv\_1[0][0]

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out\_relu (ReLU) (None, 4, 4, 1280) 0 Conv\_1\_bn[0][0]

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global\_average\_pooling2d\_1 (Glo (None, 1280) 0 out\_relu[0][0]

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dense\_1 (Dense) (None, 1024) 1311744 global\_average\_pooling2d\_1[0][0]

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dropout\_1 (Dropout) (None, 1024) 0 dense\_1[0][0]

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dense\_2 (Dense) (None, 512) 524800 dropout\_1[0][0]

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dropout\_2 (Dropout) (None, 512) 0 dense\_2[0][0]

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dense\_3 (Dense) (None, 256) 131328 dropout\_2[0][0]

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dropout\_3 (Dropout) (None, 256) 0 dense\_3[0][0]

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dense\_4 (Dense) (None, 256) 65792 dropout\_3[0][0]

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dense\_5 (Dense) (None, 24) 6168 dense\_4[0][0]

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

Total params: 4,297,816

Trainable params: 2,039,832

Non-trainable params: 2,257,984

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Found 26547 images belonging to 24 classes.

Found 26445 images belonging to 24 classes.

WARNING:tensorflow:From C:\Users\ASUS-PC\AppData\Local\Programs\Python\Python36\lib\site-packages\tensorflow\python\ops\math\_ops.py:3066: to\_int32 (from tensorflow.python.ops.math\_ops) is deprecated and will be removed in a future version.

Instructions for updating:

Use tf.cast instead.

Epoch 1/15

2019-03-10 20:49:29.703329: I tensorflow/stream\_executor/dso\_loader.cc:152] successfully opened CUDA library cublas64\_100.dll locally

156/156 [==============================] - 121s 773ms/step - loss: 2.6810 - acc: 0.1839 - val\_loss: 2.9695 - val\_acc: 0.1292

Epoch 2/15

156/156 [==============================] - 113s 724ms/step - loss: 1.6895 - acc: 0.4532 - val\_loss: 3.4539 - val\_acc: 0.1214

Epoch 3/15

156/156 [==============================] - 114s 731ms/step - loss: 1.3888 - acc: 0.5547 - val\_loss: 3.6161 - val\_acc: 0.1488

Epoch 4/15

156/156 [==============================] - 115s 739ms/step - loss: 1.2324 - acc: 0.6100 - val\_loss: 4.0064 - val\_acc: 0.1316

Epoch 5/15

156/156 [==============================] - 112s 717ms/step - loss: 1.1154 - acc: 0.6540 - val\_loss: 3.8768 - val\_acc: 0.1443

Epoch 00005: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.

Epoch 6/15

156/156 [==============================] - 112s 719ms/step - loss: 0.9660 - acc: 0.7008 - val\_loss: 4.1751 - val\_acc: 0.1386

Epoch 7/15

156/156 [==============================] - 112s 719ms/step - loss: 0.9165 - acc: 0.7120 - val\_loss: 4.2222 - val\_acc: 0.1360

Epoch 00007: ReduceLROnPlateau reducing learning rate to 4.0000001899898055e-05.

Epoch 8/15

156/156 [==============================] - 112s 718ms/step - loss: 0.8849 - acc: 0.7225 - val\_loss: 4.1272 - val\_acc: 0.1414

Epoch 9/15

156/156 [==============================] - 113s 722ms/step - loss: 0.8781 - acc: 0.7303 - val\_loss: 4.1765 - val\_acc: 0.1441

Epoch 00009: ReduceLROnPlateau reducing learning rate to 8.000000525498762e-06.

Epoch 10/15

156/156 [==============================] - 112s 720ms/step - loss: 0.8753 - acc: 0.7256 - val\_loss: 4.1428 - val\_acc: 0.1453

Epoch 11/15

156/156 [==============================] - 112s 721ms/step - loss: 0.8789 - acc: 0.7292 - val\_loss: 4.1463 - val\_acc: 0.1462

Epoch 00011: ReduceLROnPlateau reducing learning rate to 1.6000001778593287e-06.

Epoch 12/15

156/156 [==============================] - 112s 716ms/step - loss: 0.8771 - acc: 0.7291 - val\_loss: 4.1439 - val\_acc: 0.1465

Epoch 13/15

156/156 [==============================] - 111s 714ms/step - loss: 0.8569 - acc: 0.7331 - val\_loss: 4.1442 - val\_acc: 0.1464

Epoch 00013: ReduceLROnPlateau reducing learning rate to 3.200000264769187e-07.

Epoch 14/15

156/156 [==============================] - 112s 715ms/step - loss: 0.8691 - acc: 0.7291 - val\_loss: 4.1435 - val\_acc: 0.1465

Epoch 15/15

156/156 [==============================] - 112s 717ms/step - loss: 0.8589 - acc: 0.7354 - val\_loss: 4.1439 - val\_acc: 0.1464

Epoch 00015: ReduceLROnPlateau reducing learning rate to 6.400000529538374e-08.

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Layer (type) Output Shape Param # Connected to

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input\_1 (InputLayer) (None, 128, 128, 3) 0

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Conv1\_pad (ZeroPadding2D) (None, 129, 129, 3) 0 input\_1[0][0]

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Conv1 (Conv2D) (None, 64, 64, 32) 864 Conv1\_pad[0][0]

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bn\_Conv1 (BatchNormalization) (None, 64, 64, 32) 128 Conv1[0][0]

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Conv1\_relu (ReLU) (None, 64, 64, 32) 0 bn\_Conv1[0][0]

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expanded\_conv\_depthwise (Depthw (None, 64, 64, 32) 288 Conv1\_relu[0][0]

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expanded\_conv\_depthwise\_BN (Bat (None, 64, 64, 32) 128 expanded\_conv\_depthwise[0][0]

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expanded\_conv\_depthwise\_relu (R (None, 64, 64, 32) 0 expanded\_conv\_depthwise\_BN[0][0]

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expanded\_conv\_project (Conv2D) (None, 64, 64, 16) 512 expanded\_conv\_depthwise\_relu[0][0

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expanded\_conv\_project\_BN (Batch (None, 64, 64, 16) 64 expanded\_conv\_project[0][0]

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block\_1\_expand (Conv2D) (None, 64, 64, 96) 1536 expanded\_conv\_project\_BN[0][0]

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block\_1\_expand\_BN (BatchNormali (None, 64, 64, 96) 384 block\_1\_expand[0][0]

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block\_1\_expand\_relu (ReLU) (None, 64, 64, 96) 0 block\_1\_expand\_BN[0][0]

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block\_1\_pad (ZeroPadding2D) (None, 65, 65, 96) 0 block\_1\_expand\_relu[0][0]

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block\_1\_depthwise (DepthwiseCon (None, 32, 32, 96) 864 block\_1\_pad[0][0]

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block\_1\_depthwise\_BN (BatchNorm (None, 32, 32, 96) 384 block\_1\_depthwise[0][0]

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block\_1\_depthwise\_relu (ReLU) (None, 32, 32, 96) 0 block\_1\_depthwise\_BN[0][0]

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block\_1\_project (Conv2D) (None, 32, 32, 24) 2304 block\_1\_depthwise\_relu[0][0]

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block\_1\_project\_BN (BatchNormal (None, 32, 32, 24) 96 block\_1\_project[0][0]

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block\_2\_expand (Conv2D) (None, 32, 32, 144) 3456 block\_1\_project\_BN[0][0]

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block\_2\_expand\_BN (BatchNormali (None, 32, 32, 144) 576 block\_2\_expand[0][0]

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block\_2\_expand\_relu (ReLU) (None, 32, 32, 144) 0 block\_2\_expand\_BN[0][0]

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block\_2\_depthwise (DepthwiseCon (None, 32, 32, 144) 1296 block\_2\_expand\_relu[0][0]

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block\_2\_depthwise\_BN (BatchNorm (None, 32, 32, 144) 576 block\_2\_depthwise[0][0]

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block\_2\_depthwise\_relu (ReLU) (None, 32, 32, 144) 0 block\_2\_depthwise\_BN[0][0]

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block\_2\_project (Conv2D) (None, 32, 32, 24) 3456 block\_2\_depthwise\_relu[0][0]

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block\_2\_project\_BN (BatchNormal (None, 32, 32, 24) 96 block\_2\_project[0][0]

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block\_2\_add (Add) (None, 32, 32, 24) 0 block\_1\_project\_BN[0][0]

block\_2\_project\_BN[0][0]

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block\_3\_expand (Conv2D) (None, 32, 32, 144) 3456 block\_2\_add[0][0]

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block\_3\_expand\_BN (BatchNormali (None, 32, 32, 144) 576 block\_3\_expand[0][0]

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block\_3\_expand\_relu (ReLU) (None, 32, 32, 144) 0 block\_3\_expand\_BN[0][0]

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block\_3\_pad (ZeroPadding2D) (None, 33, 33, 144) 0 block\_3\_expand\_relu[0][0]

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block\_3\_depthwise (DepthwiseCon (None, 16, 16, 144) 1296 block\_3\_pad[0][0]

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block\_3\_depthwise\_BN (BatchNorm (None, 16, 16, 144) 576 block\_3\_depthwise[0][0]

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block\_3\_depthwise\_relu (ReLU) (None, 16, 16, 144) 0 block\_3\_depthwise\_BN[0][0]

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block\_3\_project (Conv2D) (None, 16, 16, 32) 4608 block\_3\_depthwise\_relu[0][0]

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block\_3\_project\_BN (BatchNormal (None, 16, 16, 32) 128 block\_3\_project[0][0]

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block\_4\_expand (Conv2D) (None, 16, 16, 192) 6144 block\_3\_project\_BN[0][0]

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block\_4\_expand\_BN (BatchNormali (None, 16, 16, 192) 768 block\_4\_expand[0][0]

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block\_4\_expand\_relu (ReLU) (None, 16, 16, 192) 0 block\_4\_expand\_BN[0][0]

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block\_4\_depthwise (DepthwiseCon (None, 16, 16, 192) 1728 block\_4\_expand\_relu[0][0]

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block\_4\_depthwise\_BN (BatchNorm (None, 16, 16, 192) 768 block\_4\_depthwise[0][0]

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block\_4\_depthwise\_relu (ReLU) (None, 16, 16, 192) 0 block\_4\_depthwise\_BN[0][0]

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block\_4\_project (Conv2D) (None, 16, 16, 32) 6144 block\_4\_depthwise\_relu[0][0]

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block\_4\_project\_BN (BatchNormal (None, 16, 16, 32) 128 block\_4\_project[0][0]

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block\_4\_add (Add) (None, 16, 16, 32) 0 block\_3\_project\_BN[0][0]

block\_4\_project\_BN[0][0]

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block\_5\_expand (Conv2D) (None, 16, 16, 192) 6144 block\_4\_add[0][0]

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block\_5\_expand\_BN (BatchNormali (None, 16, 16, 192) 768 block\_5\_expand[0][0]

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block\_5\_expand\_relu (ReLU) (None, 16, 16, 192) 0 block\_5\_expand\_BN[0][0]

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block\_5\_depthwise (DepthwiseCon (None, 16, 16, 192) 1728 block\_5\_expand\_relu[0][0]

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block\_5\_depthwise\_BN (BatchNorm (None, 16, 16, 192) 768 block\_5\_depthwise[0][0]

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block\_5\_depthwise\_relu (ReLU) (None, 16, 16, 192) 0 block\_5\_depthwise\_BN[0][0]

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block\_5\_project (Conv2D) (None, 16, 16, 32) 6144 block\_5\_depthwise\_relu[0][0]

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block\_5\_project\_BN (BatchNormal (None, 16, 16, 32) 128 block\_5\_project[0][0]

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block\_5\_add (Add) (None, 16, 16, 32) 0 block\_4\_add[0][0]

block\_5\_project\_BN[0][0]

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block\_6\_expand (Conv2D) (None, 16, 16, 192) 6144 block\_5\_add[0][0]

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block\_6\_expand\_BN (BatchNormali (None, 16, 16, 192) 768 block\_6\_expand[0][0]

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block\_6\_expand\_relu (ReLU) (None, 16, 16, 192) 0 block\_6\_expand\_BN[0][0]

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block\_6\_pad (ZeroPadding2D) (None, 17, 17, 192) 0 block\_6\_expand\_relu[0][0]

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block\_6\_depthwise (DepthwiseCon (None, 8, 8, 192) 1728 block\_6\_pad[0][0]

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block\_6\_depthwise\_BN (BatchNorm (None, 8, 8, 192) 768 block\_6\_depthwise[0][0]

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block\_6\_depthwise\_relu (ReLU) (None, 8, 8, 192) 0 block\_6\_depthwise\_BN[0][0]

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block\_6\_project (Conv2D) (None, 8, 8, 64) 12288 block\_6\_depthwise\_relu[0][0]

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block\_6\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_6\_project[0][0]

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block\_7\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_6\_project\_BN[0][0]

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block\_7\_expand\_BN (BatchNormali (None, 8, 8, 384) 1536 block\_7\_expand[0][0]

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block\_7\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_7\_expand\_BN[0][0]

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block\_7\_depthwise (DepthwiseCon (None, 8, 8, 384) 3456 block\_7\_expand\_relu[0][0]

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block\_7\_depthwise\_BN (BatchNorm (None, 8, 8, 384) 1536 block\_7\_depthwise[0][0]

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block\_7\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_7\_depthwise\_BN[0][0]

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block\_7\_project (Conv2D) (None, 8, 8, 64) 24576 block\_7\_depthwise\_relu[0][0]

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block\_7\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_7\_project[0][0]

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block\_7\_add (Add) (None, 8, 8, 64) 0 block\_6\_project\_BN[0][0]

block\_7\_project\_BN[0][0]

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block\_8\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_7\_add[0][0]

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block\_8\_expand\_BN (BatchNormali (None, 8, 8, 384) 1536 block\_8\_expand[0][0]

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block\_8\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_8\_expand\_BN[0][0]

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block\_8\_depthwise (DepthwiseCon (None, 8, 8, 384) 3456 block\_8\_expand\_relu[0][0]

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block\_8\_depthwise\_BN (BatchNorm (None, 8, 8, 384) 1536 block\_8\_depthwise[0][0]

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block\_8\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_8\_depthwise\_BN[0][0]

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block\_8\_project (Conv2D) (None, 8, 8, 64) 24576 block\_8\_depthwise\_relu[0][0]

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block\_8\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_8\_project[0][0]

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block\_8\_add (Add) (None, 8, 8, 64) 0 block\_7\_add[0][0]

block\_8\_project\_BN[0][0]

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block\_9\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_8\_add[0][0]

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block\_9\_expand\_BN (BatchNormali (None, 8, 8, 384) 1536 block\_9\_expand[0][0]

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block\_9\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_9\_expand\_BN[0][0]

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block\_9\_depthwise (DepthwiseCon (None, 8, 8, 384) 3456 block\_9\_expand\_relu[0][0]

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block\_9\_depthwise\_BN (BatchNorm (None, 8, 8, 384) 1536 block\_9\_depthwise[0][0]

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block\_9\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_9\_depthwise\_BN[0][0]

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block\_9\_project (Conv2D) (None, 8, 8, 64) 24576 block\_9\_depthwise\_relu[0][0]

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block\_9\_project\_BN (BatchNormal (None, 8, 8, 64) 256 block\_9\_project[0][0]

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block\_9\_add (Add) (None, 8, 8, 64) 0 block\_8\_add[0][0]

block\_9\_project\_BN[0][0]

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block\_10\_expand (Conv2D) (None, 8, 8, 384) 24576 block\_9\_add[0][0]

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block\_10\_expand\_BN (BatchNormal (None, 8, 8, 384) 1536 block\_10\_expand[0][0]

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block\_10\_expand\_relu (ReLU) (None, 8, 8, 384) 0 block\_10\_expand\_BN[0][0]

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block\_10\_depthwise (DepthwiseCo (None, 8, 8, 384) 3456 block\_10\_expand\_relu[0][0]

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block\_10\_depthwise\_BN (BatchNor (None, 8, 8, 384) 1536 block\_10\_depthwise[0][0]

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block\_10\_depthwise\_relu (ReLU) (None, 8, 8, 384) 0 block\_10\_depthwise\_BN[0][0]

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block\_10\_project (Conv2D) (None, 8, 8, 96) 36864 block\_10\_depthwise\_relu[0][0]

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block\_10\_project\_BN (BatchNorma (None, 8, 8, 96) 384 block\_10\_project[0][0]

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block\_11\_expand (Conv2D) (None, 8, 8, 576) 55296 block\_10\_project\_BN[0][0]

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block\_11\_expand\_BN (BatchNormal (None, 8, 8, 576) 2304 block\_11\_expand[0][0]

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block\_11\_expand\_relu (ReLU) (None, 8, 8, 576) 0 block\_11\_expand\_BN[0][0]

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block\_11\_depthwise (DepthwiseCo (None, 8, 8, 576) 5184 block\_11\_expand\_relu[0][0]

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block\_11\_depthwise\_BN (BatchNor (None, 8, 8, 576) 2304 block\_11\_depthwise[0][0]

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block\_11\_depthwise\_relu (ReLU) (None, 8, 8, 576) 0 block\_11\_depthwise\_BN[0][0]

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block\_11\_project (Conv2D) (None, 8, 8, 96) 55296 block\_11\_depthwise\_relu[0][0]

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block\_11\_project\_BN (BatchNorma (None, 8, 8, 96) 384 block\_11\_project[0][0]

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block\_11\_add (Add) (None, 8, 8, 96) 0 block\_10\_project\_BN[0][0]

block\_11\_project\_BN[0][0]

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block\_12\_expand (Conv2D) (None, 8, 8, 576) 55296 block\_11\_add[0][0]

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block\_12\_expand\_BN (BatchNormal (None, 8, 8, 576) 2304 block\_12\_expand[0][0]

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block\_12\_expand\_relu (ReLU) (None, 8, 8, 576) 0 block\_12\_expand\_BN[0][0]

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block\_12\_depthwise (DepthwiseCo (None, 8, 8, 576) 5184 block\_12\_expand\_relu[0][0]

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

block\_12\_depthwise\_BN (BatchNor (None, 8, 8, 576) 2304 block\_12\_depthwise[0][0]

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block\_12\_depthwise\_relu (ReLU) (None, 8, 8, 576) 0 block\_12\_depthwise\_BN[0][0]

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block\_12\_project (Conv2D) (None, 8, 8, 96) 55296 block\_12\_depthwise\_relu[0][0]

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block\_12\_project\_BN (BatchNorma (None, 8, 8, 96) 384 block\_12\_project[0][0]

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block\_12\_add (Add) (None, 8, 8, 96) 0 block\_11\_add[0][0]

block\_12\_project\_BN[0][0]

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block\_13\_expand (Conv2D) (None, 8, 8, 576) 55296 block\_12\_add[0][0]

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block\_13\_expand\_BN (BatchNormal (None, 8, 8, 576) 2304 block\_13\_expand[0][0]

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block\_13\_expand\_relu (ReLU) (None, 8, 8, 576) 0 block\_13\_expand\_BN[0][0]

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block\_13\_pad (ZeroPadding2D) (None, 9, 9, 576) 0 block\_13\_expand\_relu[0][0]

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block\_13\_depthwise (DepthwiseCo (None, 4, 4, 576) 5184 block\_13\_pad[0][0]

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block\_13\_depthwise\_BN (BatchNor (None, 4, 4, 576) 2304 block\_13\_depthwise[0][0]

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block\_13\_depthwise\_relu (ReLU) (None, 4, 4, 576) 0 block\_13\_depthwise\_BN[0][0]

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block\_13\_project (Conv2D) (None, 4, 4, 160) 92160 block\_13\_depthwise\_relu[0][0]

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block\_13\_project\_BN (BatchNorma (None, 4, 4, 160) 640 block\_13\_project[0][0]

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block\_14\_expand (Conv2D) (None, 4, 4, 960) 153600 block\_13\_project\_BN[0][0]

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block\_14\_expand\_BN (BatchNormal (None, 4, 4, 960) 3840 block\_14\_expand[0][0]

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block\_14\_expand\_relu (ReLU) (None, 4, 4, 960) 0 block\_14\_expand\_BN[0][0]

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block\_14\_depthwise (DepthwiseCo (None, 4, 4, 960) 8640 block\_14\_expand\_relu[0][0]

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block\_14\_depthwise\_BN (BatchNor (None, 4, 4, 960) 3840 block\_14\_depthwise[0][0]

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block\_14\_depthwise\_relu (ReLU) (None, 4, 4, 960) 0 block\_14\_depthwise\_BN[0][0]

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block\_14\_project (Conv2D) (None, 4, 4, 160) 153600 block\_14\_depthwise\_relu[0][0]

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block\_14\_project\_BN (BatchNorma (None, 4, 4, 160) 640 block\_14\_project[0][0]

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block\_14\_add (Add) (None, 4, 4, 160) 0 block\_13\_project\_BN[0][0]

block\_14\_project\_BN[0][0]

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block\_15\_expand (Conv2D) (None, 4, 4, 960) 153600 block\_14\_add[0][0]

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block\_15\_expand\_BN (BatchNormal (None, 4, 4, 960) 3840 block\_15\_expand[0][0]

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block\_15\_expand\_relu (ReLU) (None, 4, 4, 960) 0 block\_15\_expand\_BN[0][0]

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block\_15\_depthwise (DepthwiseCo (None, 4, 4, 960) 8640 block\_15\_expand\_relu[0][0]

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block\_15\_depthwise\_BN (BatchNor (None, 4, 4, 960) 3840 block\_15\_depthwise[0][0]

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block\_15\_depthwise\_relu (ReLU) (None, 4, 4, 960) 0 block\_15\_depthwise\_BN[0][0]

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block\_15\_project (Conv2D) (None, 4, 4, 160) 153600 block\_15\_depthwise\_relu[0][0]

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block\_15\_project\_BN (BatchNorma (None, 4, 4, 160) 640 block\_15\_project[0][0]

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block\_15\_add (Add) (None, 4, 4, 160) 0 block\_14\_add[0][0]

block\_15\_project\_BN[0][0]

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block\_16\_expand (Conv2D) (None, 4, 4, 960) 153600 block\_15\_add[0][0]

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block\_16\_expand\_BN (BatchNormal (None, 4, 4, 960) 3840 block\_16\_expand[0][0]

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block\_16\_expand\_relu (ReLU) (None, 4, 4, 960) 0 block\_16\_expand\_BN[0][0]

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block\_16\_depthwise (DepthwiseCo (None, 4, 4, 960) 8640 block\_16\_expand\_relu[0][0]

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block\_16\_depthwise\_BN (BatchNor (None, 4, 4, 960) 3840 block\_16\_depthwise[0][0]

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block\_16\_depthwise\_relu (ReLU) (None, 4, 4, 960) 0 block\_16\_depthwise\_BN[0][0]

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block\_16\_project (Conv2D) (None, 4, 4, 320) 307200 block\_16\_depthwise\_relu[0][0]

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block\_16\_project\_BN (BatchNorma (None, 4, 4, 320) 1280 block\_16\_project[0][0]

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Conv\_1 (Conv2D) (None, 4, 4, 1280) 409600 block\_16\_project\_BN[0][0]

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Conv\_1\_bn (BatchNormalization) (None, 4, 4, 1280) 5120 Conv\_1[0][0]

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out\_relu (ReLU) (None, 4, 4, 1280) 0 Conv\_1\_bn[0][0]

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global\_average\_pooling2d\_1 (Glo (None, 1280) 0 out\_relu[0][0]

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dense\_1 (Dense) (None, 1024) 1311744 global\_average\_pooling2d\_1[0][0]

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dropout\_1 (Dropout) (None, 1024) 0 dense\_1[0][0]

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dense\_2 (Dense) (None, 512) 524800 dropout\_1[0][0]

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dropout\_2 (Dropout) (None, 512) 0 dense\_2[0][0]

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dense\_3 (Dense) (None, 256) 131328 dropout\_2[0][0]

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dropout\_3 (Dropout) (None, 256) 0 dense\_3[0][0]

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dense\_4 (Dense) (None, 256) 65792 dropout\_3[0][0]

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dense\_5 (Dense) (None, 24) 6168 dense\_4[0][0]

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

Total params: 4,297,816

Trainable params: 4,263,704

Non-trainable params: 34,112

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Epoch 1/30

2019-03-10 21:17:53.064983: W tensorflow/core/common\_runtime/bfc\_allocator.cc:211] Allocator (GPU\_0\_bfc) ran out of memory trying to allocate 1.35GiB. The caller indicates that this is not a failure, but may mean that there could be performance gains if more memory were available.

2019-03-10 21:17:53.072047: W tensorflow/core/common\_runtime/bfc\_allocator.cc:211] Allocator (GPU\_0\_bfc) ran out of memory trying to allocate 1.35GiB. The caller indicates that this is not a failure, but may mean that there could be performance gains if more memory were available.

156/156 [==============================] - 122s 785ms/step - loss: 0.4825 - acc: 0.8546 - val\_loss: 4.3611 - val\_acc: 0.3947

Epoch 2/30

156/156 [==============================] - 116s 742ms/step - loss: 0.1777 - acc: 0.9543 - val\_loss: 1.8263 - val\_acc: 0.6231

Epoch 3/30

156/156 [==============================] - 115s 739ms/step - loss: 0.1457 - acc: 0.9648 - val\_loss: 2.7732 - val\_acc: 0.5393

Epoch 4/30

156/156 [==============================] - 116s 742ms/step - loss: 0.1116 - acc: 0.9738 - val\_loss: 3.6748 - val\_acc: 0.5123

Epoch 00004: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.

Epoch 5/30

156/156 [==============================] - 115s 738ms/step - loss: 0.0307 - acc: 0.9932 - val\_loss: 1.8650 - val\_acc: 0.7249

Epoch 6/30

156/156 [==============================] - 116s 742ms/step - loss: 0.0131 - acc: 0.9974 - val\_loss: 1.4423 - val\_acc: 0.7729

Epoch 7/30

156/156 [==============================] - 115s 738ms/step - loss: 0.0109 - acc: 0.9977 - val\_loss: 1.3282 - val\_acc: 0.7897

Epoch 8/30

156/156 [==============================] - 116s 746ms/step - loss: 0.0130 - acc: 0.9971 - val\_loss: 1.1836 - val\_acc: 0.7872

Epoch 9/30

156/156 [==============================] - 115s 736ms/step - loss: 0.0076 - acc: 0.9981 - val\_loss: 1.1995 - val\_acc: 0.7967

Epoch 10/30

156/156 [==============================] - 128s 818ms/step - loss: 0.0085 - acc: 0.9982 - val\_loss: 1.0178 - val\_acc: 0.8272

Epoch 11/30

156/156 [==============================] - 129s 824ms/step - loss: 0.0093 - acc: 0.9980 - val\_loss: 1.0903 - val\_acc: 0.8124

Epoch 12/30

156/156 [==============================] - 115s 738ms/step - loss: 0.0147 - acc: 0.9970 - val\_loss: 1.1167 - val\_acc: 0.8065

Epoch 00012: ReduceLROnPlateau reducing learning rate to 4.0000001899898055e-05.

Epoch 13/30

156/156 [==============================] - 115s 735ms/step - loss: 0.0068 - acc: 0.9983 - val\_loss: 1.1025 - val\_acc: 0.8122

Epoch 14/30

156/156 [==============================] - 114s 734ms/step - loss: 0.0045 - acc: 0.9990 - val\_loss: 1.0599 - val\_acc: 0.8184

Epoch 00014: ReduceLROnPlateau reducing learning rate to 8.000000525498762e-06.

Epoch 15/30

156/156 [==============================] - 114s 733ms/step - loss: 0.0041 - acc: 0.9989 - val\_loss: 1.0353 - val\_acc: 0.8214

Epoch 16/30

156/156 [==============================] - 114s 734ms/step - loss: 0.0052 - acc: 0.9993 - val\_loss: 1.0111 - val\_acc: 0.8247

Epoch 00016: ReduceLROnPlateau reducing learning rate to 1.6000001778593287e-06.

Epoch 17/30

156/156 [==============================] - 115s 735ms/step - loss: 0.0035 - acc: 0.9992 - val\_loss: 0.9905 - val\_acc: 0.8264

Epoch 18/30

156/156 [==============================] - 115s 736ms/step - loss: 0.0039 - acc: 0.9991 - val\_loss: 0.9791 - val\_acc: 0.8281

Epoch 19/30

156/156 [==============================] - 114s 732ms/step - loss: 0.0045 - acc: 0.9989 - val\_loss: 0.9701 - val\_acc: 0.8292

Epoch 20/30

156/156 [==============================] - 114s 733ms/step - loss: 0.0049 - acc: 0.9987 - val\_loss: 0.9600 - val\_acc: 0.8302

Epoch 21/30

156/156 [==============================] - 114s 734ms/step - loss: 0.0039 - acc: 0.9993 - val\_loss: 0.9511 - val\_acc: 0.8309

Epoch 22/30

156/156 [==============================] - 114s 733ms/step - loss: 0.0053 - acc: 0.9988 - val\_loss: 0.9500 - val\_acc: 0.8310

Epoch 23/30

156/156 [==============================] - 114s 731ms/step - loss: 0.0043 - acc: 0.9991 - val\_loss: 0.9457 - val\_acc: 0.8316

Epoch 24/30

156/156 [==============================] - 114s 734ms/step - loss: 0.0037 - acc: 0.9992 - val\_loss: 0.9431 - val\_acc: 0.8323

Epoch 25/30

156/156 [==============================] - 114s 731ms/step - loss: 0.0035 - acc: 0.9992 - val\_loss: 0.9373 - val\_acc: 0.8328

Epoch 26/30

156/156 [==============================] - 115s 735ms/step - loss: 0.0024 - acc: 0.9995 - val\_loss: 0.9365 - val\_acc: 0.8333

Epoch 27/30

156/156 [==============================] - 114s 733ms/step - loss: 0.0034 - acc: 0.9994 - val\_loss: 0.9367 - val\_acc: 0.8332

Epoch 28/30

156/156 [==============================] - 115s 734ms/step - loss: 0.0031 - acc: 0.9992 - val\_loss: 0.9324 - val\_acc: 0.8337

Epoch 29/30

156/156 [==============================] - 114s 733ms/step - loss: 0.0027 - acc: 0.9994 - val\_loss: 0.9341 - val\_acc: 0.8336

Epoch 30/30

156/156 [==============================] - 114s 733ms/step - loss: 0.0031 - acc: 0.9991 - val\_loss: 0.9365 - val\_acc: 0.8330

Epoch 00030: ReduceLROnPlateau reducing learning rate to 3.200000264769187e-07.

run: =

Found 240 images belonging to 24 classes.

loss: 1224.14%

acc: 4.17%

Took 1 seconds to evaluate this set.

Took 1 seconds to get predictions on this set.

[ 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2

2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4

4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7

7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9

9 9 9 9 10 10 10 10 10 10 10 10 10 10 11 11 11 11 11 11 11 11 11 11

12 12 12 12 12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 14 14 14 14

14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16

16 16 17 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 19 19

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C:\Users\ASUS-PC\AppData\Local\Programs\Python\Python36\lib\site-packages\sklearn\metrics\classification.py:1143: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples.

'precision', 'predicted', average, warn\_for)

precision recall f1-score support

a 0.00 0.00 0.00 10

b 0.00 0.00 0.00 10

c 0.00 0.00 0.00 10

d 0.00 0.00 0.00 10

e 0.00 0.00 0.00 10

f 0.00 0.00 0.00 10

g 0.00 0.00 0.00 10

h 0.00 0.00 0.00 10

i 0.00 0.00 0.00 10

k 0.00 0.00 0.00 10

l 0.00 0.00 0.00 10

m 0.00 0.00 0.00 10

n 0.00 0.00 0.00 10

o 0.00 0.00 0.00 10

p 0.00 0.00 0.00 10

q 0.04 1.00 0.08 10

r 0.00 0.00 0.00 10

s 0.00 0.00 0.00 10

t 0.00 0.00 0.00 10

u 0.00 0.00 0.00 10

v 0.00 0.00 0.00 10

w 0.00 0.00 0.00 10

x 0.00 0.00 0.00 10

y 0.00 0.00 0.00 10

micro avg 0.04 0.04 0.04 240

macro avg 0.00 0.04 0.00 240

weighted avg 0.00 0.04 0.00 240

PS C:\r\transfer learning>