

Model: "efficientnetb2"

Layer (type)	Output Shape	Param #	Connected to
=====			
input_1 (InputLayer)	[(None, 260, 260, 3)]	0	
rescaling (Rescaling)	(None, 260, 260, 3)	0	input_1[0][0]
normalization (Normalization)	(None, 260, 260, 3)	7	rescaling[0][0]
stem_conv_pad (ZeroPadding2D)	(None, 261, 261, 3)	0	normalization[0][0]
stem_conv (Conv2D)	(None, 130, 130, 32)	864	stem_conv_pad[0][0]
stem_bn (BatchNormalization)	(None, 130, 130, 32)	128	stem_conv[0][0]
stem_activation (Activation)	(None, 130, 130, 32)	0	stem_bn[0][0]
block1a_dwconv (DepthwiseConv2D)	(None, 130, 130, 32)	288	stem_activation[0][0]
block1a_bn (BatchNormalization)	(None, 130, 130, 32)	128	block1a_dwconv[0][0]
block1a_activation (Activation)	(None, 130, 130, 32)	0	block1a_bn[0][0]
block1a_se_squeeze (GlobalAveragePooling2D)	(None, 32)	0	block1a_activation[0][0]
block1a_se_reshape (Reshape)	(None, 1, 1, 32)	0	block1a_se_squeeze[0][0]
block1a_se_reduce (Conv2D)	(None, 1, 1, 8)	264	block1a_se_reshape[0][0]
block1a_se_expand (Conv2D)	(None, 1, 1, 32)	288	block1a_se_reduce[0][0]
block1a_se_excite (Multiply)	(None, 130, 130, 32)	0	block1a_activation[0][0] block1a_se_expand[0][0]
block1a_project_conv (Conv2D)	(None, 130, 130, 16)	512	block1a_se_excite[0][0]
block1a_project_bn (BatchNormalization)	(None, 130, 130, 16)	64	block1a_project_conv[0][0]
block1b_dwconv (DepthwiseConv2D)	(None, 130, 130, 16)	144	block1a_project_bn[0][0]
block1b_bn (BatchNormalization)	(None, 130, 130, 16)	64	block1b_dwconv[0][0]
block1b_activation (Activation)	(None, 130, 130, 16)	0	block1b_bn[0][0]
block1b_se_squeeze (GlobalAveragePooling2D)	(None, 16)	0	block1b_activation[0][0]
block1b_se_reshape (Reshape)	(None, 1, 1, 16)	0	block1b_se_squeeze[0][0]
block1b_se_reduce (Conv2D)	(None, 1, 1, 4)	68	block1b_se_reshape[0][0]
block1b_se_expand (Conv2D)	(None, 1, 1, 16)	80	block1b_se_reduce[0][0]
block1b_se_excite (Multiply)	(None, 130, 130, 16)	0	block1b_activation[0][0] block1b_se_expand[0][0]
block1b_project_conv (Conv2D)	(None, 130, 130, 16)	256	block1b_se_excite[0][0]
block1b_project_bn (BatchNormalization)	(None, 130, 130, 16)	64	block1b_project_conv[0][0]
block1b_drop (Dropout)	(None, 130, 130, 16)	0	block1b_project_bn[0][0]
block1b_add (Add)	(None, 130, 130, 16)	0	block1b_drop[0][0] block1a_project_bn[0][0]
block2a_expand_conv (Conv2D)	(None, 130, 130, 96)	1536	block1b_add[0][0]
block2a_expand_bn (BatchNormalization)	(None, 130, 130, 96)	384	block2a_expand_conv[0][0]

block2a_expand_activation (Acti	(None, 130, 130, 96)	0	block2a_expand_bn[0][0]
block2a_dwconv_pad (ZeroPadding	(None, 131, 131, 96)	0	block2a_expand_activation[0][0]
block2a_dwconv (DepthwiseConv2D	(None, 65, 65, 96)	864	block2a_dwconv_pad[0][0]
block2a_bn (BatchNormalization)	(None, 65, 65, 96)	384	block2a_dwconv[0][0]
block2a_activation (Activation)	(None, 65, 65, 96)	0	block2a_bn[0][0]
block2a_se_squeeze (GlobalAvera	(None, 96)	0	block2a_activation[0][0]
block2a_se_reshape (Reshape)	(None, 1, 1, 96)	0	block2a_se_squeeze[0][0]
block2a_se_reduce (Conv2D)	(None, 1, 1, 4)	388	block2a_se_reshape[0][0]
block2a_se_expand (Conv2D)	(None, 1, 1, 96)	480	block2a_se_reduce[0][0]
block2a_se_excite (Multiply)	(None, 65, 65, 96)	0	block2a_activation[0][0] block2a_se_expand[0][0]
block2a_project_conv (Conv2D)	(None, 65, 65, 24)	2304	block2a_se_excite[0][0]
block2a_project_bn (BatchNormal	(None, 65, 65, 24)	96	block2a_project_conv[0][0]
block2b_expand_conv (Conv2D)	(None, 65, 65, 144)	3456	block2a_project_bn[0][0]
block2b_expand_bn (BatchNormali	(None, 65, 65, 144)	576	block2b_expand_conv[0][0]
block2b_expand_activation (Acti	(None, 65, 65, 144)	0	block2b_expand_bn[0][0]
block2b_dwconv (DepthwiseConv2D	(None, 65, 65, 144)	1296	block2b_expand_activation[0][0]
block2b_bn (BatchNormalization)	(None, 65, 65, 144)	576	block2b_dwconv[0][0]
block2b_activation (Activation)	(None, 65, 65, 144)	0	block2b_bn[0][0]
block2b_se_squeeze (GlobalAvera	(None, 144)	0	block2b_activation[0][0]
block2b_se_reshape (Reshape)	(None, 1, 1, 144)	0	block2b_se_squeeze[0][0]
block2b_se_reduce (Conv2D)	(None, 1, 1, 6)	870	block2b_se_reshape[0][0]
block2b_se_expand (Conv2D)	(None, 1, 1, 144)	1008	block2b_se_reduce[0][0]
block2b_se_excite (Multiply)	(None, 65, 65, 144)	0	block2b_activation[0][0] block2b_se_expand[0][0]
block2b_project_conv (Conv2D)	(None, 65, 65, 24)	3456	block2b_se_excite[0][0]
block2b_project_bn (BatchNormal	(None, 65, 65, 24)	96	block2b_project_conv[0][0]
block2b_drop (Dropout)	(None, 65, 65, 24)	0	block2b_project_bn[0][0]
block2b_add (Add)	(None, 65, 65, 24)	0	block2b_drop[0][0] block2a_project_bn[0][0]
block2c_expand_conv (Conv2D)	(None, 65, 65, 144)	3456	block2b_add[0][0]
block2c_expand_bn (BatchNormali	(None, 65, 65, 144)	576	block2c_expand_conv[0][0]
block2c_expand_activation (Acti	(None, 65, 65, 144)	0	block2c_expand_bn[0][0]
block2c_dwconv (DepthwiseConv2D	(None, 65, 65, 144)	1296	block2c_expand_activation[0][0]
block2c_bn (BatchNormalization)	(None, 65, 65, 144)	576	block2c_dwconv[0][0]

block2c_activation (Activation) (None, 65, 65, 144)	0	block2c_bn[0][0]
block2c_se_squeeze (GlobalAveragePooling2D) (None, 144)	0	block2c_activation[0][0]
block2c_se_reshape (Reshape) (None, 1, 1, 144)	0	block2c_se_squeeze[0][0]
block2c_se_reduce (Conv2D) (None, 1, 1, 6)	870	block2c_se_reshape[0][0]
block2c_se_expand (Conv2D) (None, 1, 1, 144)	1008	block2c_se_reduce[0][0]
block2c_se_excite (Multiply) (None, 65, 65, 144)	0	block2c_activation[0][0] block2c_se_expand[0][0]
block2c_project_conv (Conv2D) (None, 65, 65, 24)	3456	block2c_se_excite[0][0]
block2c_project_bn (BatchNormal (None, 65, 65, 24)	96	block2c_project_conv[0][0]
block2c_drop (Dropout) (None, 65, 65, 24)	0	block2c_project_bn[0][0]
block2c_add (Add) (None, 65, 65, 24)	0	block2c_drop[0][0] block2b_add[0][0]
block3a_expand_conv (Conv2D) (None, 65, 65, 144)	3456	block2c_add[0][0]
block3a_expand_bn (BatchNormal (None, 65, 65, 144)	576	block3a_expand_conv[0][0]
block3a_expand_activation (Activation) (None, 65, 65, 144)	0	block3a_expand_bn[0][0]
block3a_dwconv_pad (ZeroPadding2D) (None, 69, 69, 144)	0	block3a_expand_activation[0][0]
block3a_dwconv (DepthwiseConv2D) (None, 33, 33, 144)	3600	block3a_dwconv_pad[0][0]
block3a_bn (BatchNormalization) (None, 33, 33, 144)	576	block3a_dwconv[0][0]
block3a_activation (Activation) (None, 33, 33, 144)	0	block3a_bn[0][0]
block3a_se_squeeze (GlobalAveragePooling2D) (None, 144)	0	block3a_activation[0][0]
block3a_se_reshape (Reshape) (None, 1, 1, 144)	0	block3a_se_squeeze[0][0]
block3a_se_reduce (Conv2D) (None, 1, 1, 6)	870	block3a_se_reshape[0][0]
block3a_se_expand (Conv2D) (None, 1, 1, 144)	1008	block3a_se_reduce[0][0]
block3a_se_excite (Multiply) (None, 33, 33, 144)	0	block3a_activation[0][0] block3a_se_expand[0][0]
block3a_project_conv (Conv2D) (None, 33, 33, 48)	6912	block3a_se_excite[0][0]
block3a_project_bn (BatchNormal (None, 33, 33, 48)	192	block3a_project_conv[0][0]
block3b_expand_conv (Conv2D) (None, 33, 33, 288)	13824	block3a_project_bn[0][0]
block3b_expand_bn (BatchNormal (None, 33, 33, 288)	1152	block3b_expand_conv[0][0]
block3b_expand_activation (Activation) (None, 33, 33, 288)	0	block3b_expand_bn[0][0]
block3b_dwconv (DepthwiseConv2D) (None, 33, 33, 288)	7200	block3b_expand_activation[0][0]
block3b_bn (BatchNormalization) (None, 33, 33, 288)	1152	block3b_dwconv[0][0]
block3b_activation (Activation) (None, 33, 33, 288)	0	block3b_bn[0][0]
block3b_se_squeeze (GlobalAveragePooling2D) (None, 288)	0	block3b_activation[0][0]
block3b_se_reshape (Reshape) (None, 1, 1, 288)	0	block3b_se_squeeze[0][0]
block3b_se_reduce (Conv2D) (None, 1, 1, 12)	3468	block3b_se_reshape[0][0]

block3b_se_expand (Conv2D)	(None, 1, 1, 288)	3744	block3b_se_reduce[0][0]
block3b_se_excite (Multiply)	(None, 33, 33, 288)	0	block3b_activation[0][0] block3b_se_expand[0][0]
block3b_project_conv (Conv2D)	(None, 33, 33, 48)	13824	block3b_se_excite[0][0]
block3b_project_bn (BatchNormal	(None, 33, 33, 48)	192	block3b_project_conv[0][0]
block3b_drop (Dropout)	(None, 33, 33, 48)	0	block3b_project_bn[0][0]
block3b_add (Add)	(None, 33, 33, 48)	0	block3b_drop[0][0] block3a_project_bn[0][0]
block3c_expand_conv (Conv2D)	(None, 33, 33, 288)	13824	block3b_add[0][0]
block3c_expand_bn (BatchNormali	(None, 33, 33, 288)	1152	block3c_expand_conv[0][0]
block3c_expand_activation (Acti	(None, 33, 33, 288)	0	block3c_expand_bn[0][0]
block3c_dwconv (DepthwiseConv2D	(None, 33, 33, 288)	7200	block3c_expand_activation[0][0]
block3c_bn (BatchNormalization)	(None, 33, 33, 288)	1152	block3c_dwconv[0][0]
block3c_activation (Activation)	(None, 33, 33, 288)	0	block3c_bn[0][0]
block3c_se_squeeze (GlobalAvera	(None, 288)	0	block3c_activation[0][0]
block3c_se_reshape (Reshape)	(None, 1, 1, 288)	0	block3c_se_squeeze[0][0]
block3c_se_reduce (Conv2D)	(None, 1, 1, 12)	3468	block3c_se_reshape[0][0]
block3c_se_expand (Conv2D)	(None, 1, 1, 288)	3744	block3c_se_reduce[0][0]
block3c_se_excite (Multiply)	(None, 33, 33, 288)	0	block3c_activation[0][0] block3c_se_expand[0][0]
block3c_project_conv (Conv2D)	(None, 33, 33, 48)	13824	block3c_se_excite[0][0]
block3c_project_bn (BatchNormal	(None, 33, 33, 48)	192	block3c_project_conv[0][0]
block3c_drop (Dropout)	(None, 33, 33, 48)	0	block3c_project_bn[0][0]
block3c_add (Add)	(None, 33, 33, 48)	0	block3c_drop[0][0] block3b_add[0][0]
block4a_expand_conv (Conv2D)	(None, 33, 33, 288)	13824	block3c_add[0][0]
block4a_expand_bn (BatchNormali	(None, 33, 33, 288)	1152	block4a_expand_conv[0][0]
block4a_expand_activation (Acti	(None, 33, 33, 288)	0	block4a_expand_bn[0][0]
block4a_dwconv_pad (ZeroPadding	(None, 35, 35, 288)	0	block4a_expand_activation[0][0]
block4a_dwconv (DepthwiseConv2D	(None, 17, 17, 288)	2592	block4a_dwconv_pad[0][0]
block4a_bn (BatchNormalization)	(None, 17, 17, 288)	1152	block4a_dwconv[0][0]
block4a_activation (Activation)	(None, 17, 17, 288)	0	block4a_bn[0][0]
block4a_se_squeeze (GlobalAvera	(None, 288)	0	block4a_activation[0][0]
block4a_se_reshape (Reshape)	(None, 1, 1, 288)	0	block4a_se_squeeze[0][0]
block4a_se_reduce (Conv2D)	(None, 1, 1, 12)	3468	block4a_se_reshape[0][0]
block4a_se_expand (Conv2D)	(None, 1, 1, 288)	3744	block4a_se_reduce[0][0]

block4a_se_excite (Multiply)	(None, 17, 17, 288)	0	block4a_activation[0][0] block4a_se_expand[0][0]
block4a_project_conv (Conv2D)	(None, 17, 17, 88)	25344	block4a_se_excite[0][0]
block4a_project_bn (BatchNormal	(None, 17, 17, 88)	352	block4a_project_conv[0][0]
block4b_expand_conv (Conv2D)	(None, 17, 17, 528)	46464	block4a_project_bn[0][0]
block4b_expand_bn (BatchNormali	(None, 17, 17, 528)	2112	block4b_expand_conv[0][0]
block4b_expand_activation (Acti	(None, 17, 17, 528)	0	block4b_expand_bn[0][0]
block4b_dwconv (DepthwiseConv2D	(None, 17, 17, 528)	4752	block4b_expand_activation[0][0]
block4b_bn (BatchNormalization)	(None, 17, 17, 528)	2112	block4b_dwconv[0][0]
block4b_activation (Activation)	(None, 17, 17, 528)	0	block4b_bn[0][0]
block4b_se_squeeze (GlobalAvera	(None, 528)	0	block4b_activation[0][0]
block4b_se_reshape (Reshape)	(None, 1, 1, 528)	0	block4b_se_squeeze[0][0]
block4b_se_reduce (Conv2D)	(None, 1, 1, 22)	11638	block4b_se_reshape[0][0]
block4b_se_expand (Conv2D)	(None, 1, 1, 528)	12144	block4b_se_reduce[0][0]
block4b_se_excite (Multiply)	(None, 17, 17, 528)	0	block4b_activation[0][0] block4b_se_expand[0][0]
block4b_project_conv (Conv2D)	(None, 17, 17, 88)	46464	block4b_se_excite[0][0]
block4b_project_bn (BatchNormal	(None, 17, 17, 88)	352	block4b_project_conv[0][0]
block4b_drop (Dropout)	(None, 17, 17, 88)	0	block4b_project_bn[0][0]
block4b_add (Add)	(None, 17, 17, 88)	0	block4b_drop[0][0] block4a_project_bn[0][0]
block4c_expand_conv (Conv2D)	(None, 17, 17, 528)	46464	block4b_add[0][0]
block4c_expand_bn (BatchNormali	(None, 17, 17, 528)	2112	block4c_expand_conv[0][0]
block4c_expand_activation (Acti	(None, 17, 17, 528)	0	block4c_expand_bn[0][0]
block4c_dwconv (DepthwiseConv2D	(None, 17, 17, 528)	4752	block4c_expand_activation[0][0]
block4c_bn (BatchNormalization)	(None, 17, 17, 528)	2112	block4c_dwconv[0][0]
block4c_activation (Activation)	(None, 17, 17, 528)	0	block4c_bn[0][0]
block4c_se_squeeze (GlobalAvera	(None, 528)	0	block4c_activation[0][0]
block4c_se_reshape (Reshape)	(None, 1, 1, 528)	0	block4c_se_squeeze[0][0]
block4c_se_reduce (Conv2D)	(None, 1, 1, 22)	11638	block4c_se_reshape[0][0]
block4c_se_expand (Conv2D)	(None, 1, 1, 528)	12144	block4c_se_reduce[0][0]
block4c_se_excite (Multiply)	(None, 17, 17, 528)	0	block4c_activation[0][0] block4c_se_expand[0][0]
block4c_project_conv (Conv2D)	(None, 17, 17, 88)	46464	block4c_se_excite[0][0]
block4c_project_bn (BatchNormal	(None, 17, 17, 88)	352	block4c_project_conv[0][0]
block4c_drop (Dropout)	(None, 17, 17, 88)	0	block4c_project_bn[0][0]

block4c_add (Add)	(None, 17, 17, 88)	0	block4c_drop[0][0] block4b_add[0][0]
block4d_expand_conv (Conv2D)	(None, 17, 17, 528)	46464	block4c_add[0][0]
block4d_expand_bn (BatchNormali	(None, 17, 17, 528)	2112	block4d_expand_conv[0][0]
block4d_expand_activation (Acti	(None, 17, 17, 528)	0	block4d_expand_bn[0][0]
block4d_dwconv (DepthwiseConv2D	(None, 17, 17, 528)	4752	block4d_expand_activation[0][0]
block4d_bn (BatchNormalization)	(None, 17, 17, 528)	2112	block4d_dwconv[0][0]
block4d_activation (Activation)	(None, 17, 17, 528)	0	block4d_bn[0][0]
block4d_se_squeeze (GlobalAvera	(None, 528)	0	block4d_activation[0][0]
block4d_se_reshape (Reshape)	(None, 1, 1, 528)	0	block4d_se_squeeze[0][0]
block4d_se_reduce (Conv2D)	(None, 1, 1, 22)	11638	block4d_se_reshape[0][0]
block4d_se_expand (Conv2D)	(None, 1, 1, 528)	12144	block4d_se_reduce[0][0]
block4d_se_excite (Multiply)	(None, 17, 17, 528)	0	block4d_activation[0][0] block4d_se_expand[0][0]
block4d_project_conv (Conv2D)	(None, 17, 17, 88)	46464	block4d_se_excite[0][0]
block4d_project_bn (BatchNormal	(None, 17, 17, 88)	352	block4d_project_conv[0][0]
block4d_drop (Dropout)	(None, 17, 17, 88)	0	block4d_project_bn[0][0]
block4d_add (Add)	(None, 17, 17, 88)	0	block4d_drop[0][0] block4c_add[0][0]
block5a_expand_conv (Conv2D)	(None, 17, 17, 528)	46464	block4d_add[0][0]
block5a_expand_bn (BatchNormali	(None, 17, 17, 528)	2112	block5a_expand_conv[0][0]
block5a_expand_activation (Acti	(None, 17, 17, 528)	0	block5a_expand_bn[0][0]
block5a_dwconv (DepthwiseConv2D	(None, 17, 17, 528)	13200	block5a_expand_activation[0][0]
block5a_bn (BatchNormalization)	(None, 17, 17, 528)	2112	block5a_dwconv[0][0]
block5a_activation (Activation)	(None, 17, 17, 528)	0	block5a_bn[0][0]
block5a_se_squeeze (GlobalAvera	(None, 528)	0	block5a_activation[0][0]
block5a_se_reshape (Reshape)	(None, 1, 1, 528)	0	block5a_se_squeeze[0][0]
block5a_se_reduce (Conv2D)	(None, 1, 1, 22)	11638	block5a_se_reshape[0][0]
block5a_se_expand (Conv2D)	(None, 1, 1, 528)	12144	block5a_se_reduce[0][0]
block5a_se_excite (Multiply)	(None, 17, 17, 528)	0	block5a_activation[0][0] block5a_se_expand[0][0]
block5a_project_conv (Conv2D)	(None, 17, 17, 120)	63360	block5a_se_excite[0][0]
block5a_project_bn (BatchNormal	(None, 17, 17, 120)	480	block5a_project_conv[0][0]
block5b_expand_conv (Conv2D)	(None, 17, 17, 720)	86400	block5a_project_bn[0][0]
block5b_expand_bn (BatchNormali	(None, 17, 17, 720)	2880	block5b_expand_conv[0][0]
block5b_expand_activation (Acti	(None, 17, 17, 720)	0	block5b_expand_bn[0][0]

block5b_dwconv (DepthwiseConv2D (None, 17, 17, 720) 18000	block5b_expand_activation[0][0]
block5b_bn (BatchNormalization) (None, 17, 17, 720) 2880	block5b_dwconv[0][0]
block5b_activation (Activation) (None, 17, 17, 720) 0	block5b_bn[0][0]
block5b_se_squeeze (GlobalAvera (None, 720) 0	block5b_activation[0][0]
block5b_se_reshape (Reshape) (None, 1, 1, 720) 0	block5b_se_squeeze[0][0]
block5b_se_reduce (Conv2D) (None, 1, 1, 30) 21630	block5b_se_reshape[0][0]
block5b_se_expand (Conv2D) (None, 1, 1, 720) 22320	block5b_se_reduce[0][0]
block5b_se_excite (Multiply) (None, 17, 17, 720) 0	block5b_activation[0][0] block5b_se_expand[0][0]
block5b_project_conv (Conv2D) (None, 17, 17, 120) 86400	block5b_se_excite[0][0]
block5b_project_bn (BatchNormal (None, 17, 17, 120) 480	block5b_project_conv[0][0]
block5b_drop (Dropout) (None, 17, 17, 120) 0	block5b_project_bn[0][0]
block5b_add (Add) (None, 17, 17, 120) 0	block5b_drop[0][0] block5a_project_bn[0][0]
block5c_expand_conv (Conv2D) (None, 17, 17, 720) 86400	block5b_add[0][0]
block5c_expand_bn (BatchNormali (None, 17, 17, 720) 2880	block5c_expand_conv[0][0]
block5c_expand_activation (Acti (None, 17, 17, 720) 0	block5c_expand_bn[0][0]
block5c_dwconv (DepthwiseConv2D (None, 17, 17, 720) 18000	block5c_expand_activation[0][0]
block5c_bn (BatchNormalization) (None, 17, 17, 720) 2880	block5c_dwconv[0][0]
block5c_activation (Activation) (None, 17, 17, 720) 0	block5c_bn[0][0]
block5c_se_squeeze (GlobalAvera (None, 720) 0	block5c_activation[0][0]
block5c_se_reshape (Reshape) (None, 1, 1, 720) 0	block5c_se_squeeze[0][0]
block5c_se_reduce (Conv2D) (None, 1, 1, 30) 21630	block5c_se_reshape[0][0]
block5c_se_expand (Conv2D) (None, 1, 1, 720) 22320	block5c_se_reduce[0][0]
block5c_se_excite (Multiply) (None, 17, 17, 720) 0	block5c_activation[0][0] block5c_se_expand[0][0]
block5c_project_conv (Conv2D) (None, 17, 17, 120) 86400	block5c_se_excite[0][0]
block5c_project_bn (BatchNormal (None, 17, 17, 120) 480	block5c_project_conv[0][0]
block5c_drop (Dropout) (None, 17, 17, 120) 0	block5c_project_bn[0][0]
block5c_add (Add) (None, 17, 17, 120) 0	block5c_drop[0][0] block5b_add[0][0]
block5d_expand_conv (Conv2D) (None, 17, 17, 720) 86400	block5c_add[0][0]
block5d_expand_bn (BatchNormali (None, 17, 17, 720) 2880	block5d_expand_conv[0][0]
block5d_expand_activation (Acti (None, 17, 17, 720) 0	block5d_expand_bn[0][0]
block5d_dwconv (DepthwiseConv2D (None, 17, 17, 720) 18000	block5d_expand_activation[0][0]
block5d_bn (BatchNormalization) (None, 17, 17, 720) 2880	block5d_dwconv[0][0]

block5d_activation (Activation) (None, 17, 17, 720)	0	block5d_bn[0][0]
block5d_se_squeeze (GlobalAveragePooling2D) (None, 720)	0	block5d_activation[0][0]
block5d_se_reshape (Reshape) (None, 1, 1, 720)	0	block5d_se_squeeze[0][0]
block5d_se_reduce (Conv2D) (None, 1, 1, 30)	21630	block5d_se_reshape[0][0]
block5d_se_expand (Conv2D) (None, 1, 1, 720)	22320	block5d_se_reduce[0][0]
block5d_se_excite (Multiply) (None, 17, 17, 720)	0	block5d_activation[0][0] block5d_se_expand[0][0]
block5d_project_conv (Conv2D) (None, 17, 17, 120)	86400	block5d_se_excite[0][0]
block5d_project_bn (BatchNormalizatio (None, 17, 17, 120)	480	block5d_project_conv[0][0]
block5d_drop (Dropout) (None, 17, 17, 120)	0	block5d_project_bn[0][0]
block5d_add (Add) (None, 17, 17, 120)	0	block5d_drop[0][0] block5c_add[0][0]
block6a_expand_conv (Conv2D) (None, 17, 17, 720)	86400	block5d_add[0][0]
block6a_expand_bn (BatchNormalizatio (None, 17, 17, 720)	2880	block6a_expand_conv[0][0]
block6a_expand_activation (Activation) (None, 17, 17, 720)	0	block6a_expand_bn[0][0]
block6a_dwconv_pad (ZeroPadding2D) (None, 21, 21, 720)	0	block6a_expand_activation[0][0]
block6a_dwconv (DepthwiseConv2D) (None, 9, 9, 720)	18000	block6a_dwconv_pad[0][0]
block6a_bn (BatchNormalization) (None, 9, 9, 720)	2880	block6a_dwconv[0][0]
block6a_activation (Activation) (None, 9, 9, 720)	0	block6a_bn[0][0]
block6a_se_squeeze (GlobalAveragePooling2D) (None, 720)	0	block6a_activation[0][0]
block6a_se_reshape (Reshape) (None, 1, 1, 720)	0	block6a_se_squeeze[0][0]
block6a_se_reduce (Conv2D) (None, 1, 1, 30)	21630	block6a_se_reshape[0][0]
block6a_se_expand (Conv2D) (None, 1, 1, 720)	22320	block6a_se_reduce[0][0]
block6a_se_excite (Multiply) (None, 9, 9, 720)	0	block6a_activation[0][0] block6a_se_expand[0][0]
block6a_project_conv (Conv2D) (None, 9, 9, 208)	149760	block6a_se_excite[0][0]
block6a_project_bn (BatchNormalizatio (None, 9, 9, 208)	832	block6a_project_conv[0][0]
block6b_expand_conv (Conv2D) (None, 9, 9, 1248)	259584	block6a_project_bn[0][0]
block6b_expand_bn (BatchNormalizatio (None, 9, 9, 1248)	4992	block6b_expand_conv[0][0]
block6b_expand_activation (Activation) (None, 9, 9, 1248)	0	block6b_expand_bn[0][0]
block6b_dwconv (DepthwiseConv2D) (None, 9, 9, 1248)	31200	block6b_expand_activation[0][0]
block6b_bn (BatchNormalization) (None, 9, 9, 1248)	4992	block6b_dwconv[0][0]
block6b_activation (Activation) (None, 9, 9, 1248)	0	block6b_bn[0][0]
block6b_se_squeeze (GlobalAveragePooling2D) (None, 1248)	0	block6b_activation[0][0]
block6b_se_reshape (Reshape) (None, 1, 1, 1248)	0	block6b_se_squeeze[0][0]



block6b_se_reduce (Conv2D)	(None, 1, 1, 52)	64948	block6b_se_reshape[0][0]
block6b_se_expand (Conv2D)	(None, 1, 1, 1248)	66144	block6b_se_reduce[0][0]
block6b_se_excite (Multiply)	(None, 9, 9, 1248)	0	block6b_activation[0][0] block6b_se_expand[0][0]
block6b_project_conv (Conv2D)	(None, 9, 9, 208)	259584	block6b_se_excite[0][0]
block6b_project_bn (BatchNormal	(None, 9, 9, 208)	832	block6b_project_conv[0][0]
block6b_drop (Dropout)	(None, 9, 9, 208)	0	block6b_project_bn[0][0]
block6b_add (Add)	(None, 9, 9, 208)	0	block6b_drop[0][0] block6a_project_bn[0][0]
block6c_expand_conv (Conv2D)	(None, 9, 9, 1248)	259584	block6b_add[0][0]
block6c_expand_bn (BatchNormali	(None, 9, 9, 1248)	4992	block6c_expand_conv[0][0]
block6c_expand_activation (Acti	(None, 9, 9, 1248)	0	block6c_expand_bn[0][0]
block6c_dwconv (DepthwiseConv2D	(None, 9, 9, 1248)	31200	block6c_expand_activation[0][0]
block6c_bn (BatchNormalization)	(None, 9, 9, 1248)	4992	block6c_dwconv[0][0]
block6c_activation (Activation)	(None, 9, 9, 1248)	0	block6c_bn[0][0]
block6c_se_squeeze (GlobalAvera	(None, 1248)	0	block6c_activation[0][0]
block6c_se_reshape (Reshape)	(None, 1, 1, 1248)	0	block6c_se_squeeze[0][0]
block6c_se_reduce (Conv2D)	(None, 1, 1, 52)	64948	block6c_se_reshape[0][0]
block6c_se_expand (Conv2D)	(None, 1, 1, 1248)	66144	block6c_se_reduce[0][0]
block6c_se_excite (Multiply)	(None, 9, 9, 1248)	0	block6c_activation[0][0] block6c_se_expand[0][0]
block6c_project_conv (Conv2D)	(None, 9, 9, 208)	259584	block6c_se_excite[0][0]
block6c_project_bn (BatchNormal	(None, 9, 9, 208)	832	block6c_project_conv[0][0]
block6c_drop (Dropout)	(None, 9, 9, 208)	0	block6c_project_bn[0][0]
block6c_add (Add)	(None, 9, 9, 208)	0	block6c_drop[0][0] block6b_add[0][0]
block6d_expand_conv (Conv2D)	(None, 9, 9, 1248)	259584	block6c_add[0][0]
block6d_expand_bn (BatchNormali	(None, 9, 9, 1248)	4992	block6d_expand_conv[0][0]
block6d_expand_activation (Acti	(None, 9, 9, 1248)	0	block6d_expand_bn[0][0]
block6d_dwconv (DepthwiseConv2D	(None, 9, 9, 1248)	31200	block6d_expand_activation[0][0]
block6d_bn (BatchNormalization)	(None, 9, 9, 1248)	4992	block6d_dwconv[0][0]
block6d_activation (Activation)	(None, 9, 9, 1248)	0	block6d_bn[0][0]
block6d_se_squeeze (GlobalAvera	(None, 1248)	0	block6d_activation[0][0]
block6d_se_reshape (Reshape)	(None, 1, 1, 1248)	0	block6d_se_squeeze[0][0]
block6d_se_reduce (Conv2D)	(None, 1, 1, 52)	64948	block6d_se_reshape[0][0]
block6d_se_expand (Conv2D)	(None, 1, 1, 1248)	66144	block6d_se_reduce[0][0]

block6d_se_excite (Multiply)	(None, 9, 9, 1248)	0	block6d_activation[0][0] block6d_se_expand[0][0]
block6d_project_conv (Conv2D)	(None, 9, 9, 208)	259584	block6d_se_excite[0][0]
block6d_project_bn (BatchNormal	(None, 9, 9, 208)	832	block6d_project_conv[0][0]
block6d_drop (Dropout)	(None, 9, 9, 208)	0	block6d_project_bn[0][0]
block6d_add (Add)	(None, 9, 9, 208)	0	block6d_drop[0][0] block6c_add[0][0]
block6e_expand_conv (Conv2D)	(None, 9, 9, 1248)	259584	block6d_add[0][0]
block6e_expand_bn (BatchNormali	(None, 9, 9, 1248)	4992	block6e_expand_conv[0][0]
block6e_expand_activation (Acti	(None, 9, 9, 1248)	0	block6e_expand_bn[0][0]
block6e_dwconv (DepthwiseConv2D	(None, 9, 9, 1248)	31200	block6e_expand_activation[0][0]
block6e_bn (BatchNormalization)	(None, 9, 9, 1248)	4992	block6e_dwconv[0][0]
block6e_activation (Activation)	(None, 9, 9, 1248)	0	block6e_bn[0][0]
block6e_se_squeeze (GlobalAvera	(None, 1248)	0	block6e_activation[0][0]
block6e_se_reshape (Reshape)	(None, 1, 1, 1248)	0	block6e_se_squeeze[0][0]
block6e_se_reduce (Conv2D)	(None, 1, 1, 52)	64948	block6e_se_reshape[0][0]
block6e_se_expand (Conv2D)	(None, 1, 1, 1248)	66144	block6e_se_reduce[0][0]
block6e_se_excite (Multiply)	(None, 9, 9, 1248)	0	block6e_activation[0][0] block6e_se_expand[0][0]
block6e_project_conv (Conv2D)	(None, 9, 9, 208)	259584	block6e_se_excite[0][0]
block6e_project_bn (BatchNormal	(None, 9, 9, 208)	832	block6e_project_conv[0][0]
block6e_drop (Dropout)	(None, 9, 9, 208)	0	block6e_project_bn[0][0]
block6e_add (Add)	(None, 9, 9, 208)	0	block6e_drop[0][0] block6d_add[0][0]
block7a_expand_conv (Conv2D)	(None, 9, 9, 1248)	259584	block6e_add[0][0]
block7a_expand_bn (BatchNormali	(None, 9, 9, 1248)	4992	block7a_expand_conv[0][0]
block7a_expand_activation (Acti	(None, 9, 9, 1248)	0	block7a_expand_bn[0][0]
block7a_dwconv (DepthwiseConv2D	(None, 9, 9, 1248)	11232	block7a_expand_activation[0][0]
block7a_bn (BatchNormalization)	(None, 9, 9, 1248)	4992	block7a_dwconv[0][0]
block7a_activation (Activation)	(None, 9, 9, 1248)	0	block7a_bn[0][0]
block7a_se_squeeze (GlobalAvera	(None, 1248)	0	block7a_activation[0][0]
block7a_se_reshape (Reshape)	(None, 1, 1, 1248)	0	block7a_se_squeeze[0][0]
block7a_se_reduce (Conv2D)	(None, 1, 1, 52)	64948	block7a_se_reshape[0][0]
block7a_se_expand (Conv2D)	(None, 1, 1, 1248)	66144	block7a_se_reduce[0][0]
block7a_se_excite (Multiply)	(None, 9, 9, 1248)	0	block7a_activation[0][0] block7a_se_expand[0][0]
block7a_project_conv (Conv2D)	(None, 9, 9, 352)	439296	block7a_se_excite[0][0]

block7a_project_bn (BatchNormal (None, 9, 9, 352)	1408	block7a_project_conv[0][0]
block7b_expand_conv (Conv2D) (None, 9, 9, 2112)	743424	block7a_project_bn[0][0]
block7b_expand_bn (BatchNormal (None, 9, 9, 2112)	8448	block7b_expand_conv[0][0]
block7b_expand_activation (Activation) (None, 9, 9, 2112)	0	block7b_expand_bn[0][0]
block7b_dwconv (DepthwiseConv2D (None, 9, 9, 2112)	19008	block7b_expand_activation[0][0]
block7b_bn (BatchNormalization) (None, 9, 9, 2112)	8448	block7b_dwconv[0][0]
block7b_activation (Activation) (None, 9, 9, 2112)	0	block7b_bn[0][0]
block7b_se_squeeze (GlobalAveragePooling2D (None, 2112)	0	block7b_activation[0][0]
block7b_se_reshape (Reshape) (None, 1, 1, 2112)	0	block7b_se_squeeze[0][0]
block7b_se_reduce (Conv2D) (None, 1, 1, 88)	185944	block7b_se_reshape[0][0]
block7b_se_expand (Conv2D) (None, 1, 1, 2112)	187968	block7b_se_reduce[0][0]
block7b_se_excite (Multiply) (None, 9, 9, 2112)	0	block7b_se_expand[0][0]
block7b_project_conv (Conv2D) (None, 9, 9, 352)	743424	block7b_se_excite[0][0]
block7b_project_bn (BatchNormal (None, 9, 9, 352)	1408	block7b_project_conv[0][0]
block7b_drop (Dropout) (None, 9, 9, 352)	0	block7b_project_bn[0][0]
block7b_add (Add) (None, 9, 9, 352)	0	block7b_drop[0][0]
		block7a_project_bn[0][0]
top_conv (Conv2D) (None, 9, 9, 1408)	495616	block7b_add[0][0]
top_bn (BatchNormalization) (None, 9, 9, 1408)	5632	top_conv[0][0]
top_activation (Activation) (None, 9, 9, 1408)	0	top_bn[0][0]
avg_pool (GlobalAveragePooling2D (None, 1408)	0	top_activation[0][0]
top_dropout (Dropout) (None, 1408)	0	avg_pool[0][0]
predictions (Dense) (None, 2)	2818	top_dropout[0][0]
=====		
Total params: 7,771,387		
Trainable params: 7,703,812		
Non-trainable params: 67,575		