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Layer (type) Output Shape Param # Connected to

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

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

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stem\_conv1 (Conv2D) (None, 111, 111, 32) 864 input\_1[0][0]

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stem\_bn1 (BatchNormalization) (None, 111, 111, 32) 128 stem\_conv1[0][0]

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activation\_1 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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reduction\_conv\_1\_stem\_1 (Conv2D (None, 111, 111, 11) 352 activation\_1[0][0]

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reduction\_bn\_1\_stem\_1 (BatchNor (None, 111, 111, 11) 44 reduction\_conv\_1\_stem\_1[0][0]

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activation\_2 (Activation) (None, 111, 111, 11) 0 reduction\_bn\_1\_stem\_1[0][0]

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activation\_4 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 115, 115, 11) 0 activation\_2[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 117, 117, 32) 0 activation\_4[0][0]

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separable\_conv\_1\_reduction\_left (None, 56, 56, 11) 396 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 56, 56, 11) 1920 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_right1

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activation\_3 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_5 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 56, 56, 11) 396 activation\_3[0][0]

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separable\_conv\_2\_reduction\_righ (None, 56, 56, 11) 660 activation\_5[0][0]

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activation\_6 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 117, 117, 32) 0 activation\_6[0][0]

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activation\_8 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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reduction\_add\_1\_stem\_1 (Add) (None, 56, 56, 11) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 56, 56, 11) 1920 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 115, 115, 32) 0 activation\_8[0][0]

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activation\_10 (Activation) (None, 56, 56, 11) 0 reduction\_add\_1\_stem\_1[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 56, 56, 11) 1152 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 56, 56, 11) 220 activation\_10[0][0]

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activation\_7 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_stem\_1 (ZeroPad (None, 113, 113, 11) 0 reduction\_bn\_1\_stem\_1[0][0]

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separable\_conv\_2\_reduction\_righ (None, 56, 56, 11) 660 activation\_7[0][0]

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activation\_9 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_11 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_stem\_1 (MaxPool (None, 56, 56, 11) 0 reduction\_pad\_1\_stem\_1[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 56, 56, 11) 396 activation\_9[0][0]

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separable\_conv\_2\_reduction\_left (None, 56, 56, 11) 220 activation\_11[0][0]

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adjust\_relu\_1\_stem\_2 (Activatio (None, 111, 111, 32) 0 stem\_bn1[0][0]

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reduction\_add\_2\_stem\_1 (Add) (None, 56, 56, 11) 0 reduction\_left2\_stem\_1[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_stem\_1 (Average (None, 56, 56, 11) 0 reduction\_pad\_1\_stem\_1[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_stem\_1 (Average (None, 56, 56, 11) 0 reduction\_add\_1\_stem\_1[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_stem\_1 (MaxPoo (None, 56, 56, 11) 0 reduction\_pad\_1\_stem\_1[0][0]

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zero\_padding2d\_1 (ZeroPadding2D (None, 112, 112, 32) 0 adjust\_relu\_1\_stem\_2[0][0]

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reduction\_add3\_stem\_1 (Add) (None, 56, 56, 11) 0 reduction\_left3\_stem\_1[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_1 (Add) (None, 56, 56, 11) 0 reduction\_add\_2\_stem\_1[0][0]

reduction\_left4\_stem\_1[0][0]

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reduction\_add4\_stem\_1 (Add) (None, 56, 56, 11) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_stem\_1[0][0]

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cropping2d\_1 (Cropping2D) (None, 111, 111, 32) 0 zero\_padding2d\_1[0][0]

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reduction\_concat\_stem\_1 (Concat (None, 56, 56, 44) 0 reduction\_add\_2\_stem\_1[0][0]

reduction\_add3\_stem\_1[0][0]

add\_1[0][0]

reduction\_add4\_stem\_1[0][0]

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adjust\_avg\_pool\_1\_stem\_2 (Avera (None, 56, 56, 32) 0 adjust\_relu\_1\_stem\_2[0][0]

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adjust\_avg\_pool\_2\_stem\_2 (Avera (None, 56, 56, 32) 0 cropping2d\_1[0][0]

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activation\_12 (Activation) (None, 56, 56, 44) 0 reduction\_concat\_stem\_1[0][0]

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adjust\_conv\_1\_stem\_2 (Conv2D) (None, 56, 56, 11) 352 adjust\_avg\_pool\_1\_stem\_2[0][0]

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adjust\_conv\_2\_stem\_2 (Conv2D) (None, 56, 56, 11) 352 adjust\_avg\_pool\_2\_stem\_2[0][0]

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reduction\_conv\_1\_stem\_2 (Conv2D (None, 56, 56, 22) 968 activation\_12[0][0]

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concatenate\_1 (Concatenate) (None, 56, 56, 22) 0 adjust\_conv\_1\_stem\_2[0][0]

adjust\_conv\_2\_stem\_2[0][0]

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reduction\_bn\_1\_stem\_2 (BatchNor (None, 56, 56, 22) 88 reduction\_conv\_1\_stem\_2[0][0]

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adjust\_bn\_stem\_2 (BatchNormaliz (None, 56, 56, 22) 88 concatenate\_1[0][0]

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activation\_13 (Activation) (None, 56, 56, 22) 0 reduction\_bn\_1\_stem\_2[0][0]

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activation\_15 (Activation) (None, 56, 56, 22) 0 adjust\_bn\_stem\_2[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 59, 59, 22) 0 activation\_13[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 61, 61, 22) 0 activation\_15[0][0]

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separable\_conv\_1\_reduction\_left (None, 28, 28, 22) 1034 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 28, 28, 22) 1562 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_right1

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activation\_14 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_16 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 28, 28, 22) 1034 activation\_14[0][0]

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separable\_conv\_2\_reduction\_righ (None, 28, 28, 22) 1562 activation\_16[0][0]

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activation\_17 (Activation) (None, 56, 56, 22) 0 adjust\_bn\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 61, 61, 22) 0 activation\_17[0][0]

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activation\_19 (Activation) (None, 56, 56, 22) 0 adjust\_bn\_stem\_2[0][0]

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reduction\_add\_1\_stem\_2 (Add) (None, 28, 28, 22) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 28, 28, 22) 1562 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 59, 59, 22) 0 activation\_19[0][0]

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activation\_21 (Activation) (None, 28, 28, 22) 0 reduction\_add\_1\_stem\_2[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 28, 28, 22) 1034 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 28, 28, 22) 682 activation\_21[0][0]

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activation\_18 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_stem\_2 (ZeroPad (None, 57, 57, 22) 0 reduction\_bn\_1\_stem\_2[0][0]

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separable\_conv\_2\_reduction\_righ (None, 28, 28, 22) 1562 activation\_18[0][0]

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activation\_20 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_22 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_stem\_2 (MaxPool (None, 28, 28, 22) 0 reduction\_pad\_1\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 28, 28, 22) 1034 activation\_20[0][0]

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separable\_conv\_2\_reduction\_left (None, 28, 28, 22) 682 activation\_22[0][0]

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adjust\_relu\_1\_0 (Activation) (None, 56, 56, 44) 0 reduction\_concat\_stem\_1[0][0]

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reduction\_add\_2\_stem\_2 (Add) (None, 28, 28, 22) 0 reduction\_left2\_stem\_2[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_stem\_2 (Average (None, 28, 28, 22) 0 reduction\_pad\_1\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_stem\_2 (Average (None, 28, 28, 22) 0 reduction\_add\_1\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_stem\_2 (MaxPoo (None, 28, 28, 22) 0 reduction\_pad\_1\_stem\_2[0][0]

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zero\_padding2d\_2 (ZeroPadding2D (None, 57, 57, 44) 0 adjust\_relu\_1\_0[0][0]

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reduction\_add3\_stem\_2 (Add) (None, 28, 28, 22) 0 reduction\_left3\_stem\_2[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_2 (Add) (None, 28, 28, 22) 0 reduction\_add\_2\_stem\_2[0][0]

reduction\_left4\_stem\_2[0][0]

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reduction\_add4\_stem\_2 (Add) (None, 28, 28, 22) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_stem\_2[0][0]

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cropping2d\_2 (Cropping2D) (None, 56, 56, 44) 0 zero\_padding2d\_2[0][0]

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reduction\_concat\_stem\_2 (Concat (None, 28, 28, 88) 0 reduction\_add\_2\_stem\_2[0][0]

reduction\_add3\_stem\_2[0][0]

add\_2[0][0]

reduction\_add4\_stem\_2[0][0]

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adjust\_avg\_pool\_1\_0 (AveragePoo (None, 28, 28, 44) 0 adjust\_relu\_1\_0[0][0]

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adjust\_avg\_pool\_2\_0 (AveragePoo (None, 28, 28, 44) 0 cropping2d\_2[0][0]

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adjust\_conv\_1\_0 (Conv2D) (None, 28, 28, 22) 968 adjust\_avg\_pool\_1\_0[0][0]

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adjust\_conv\_2\_0 (Conv2D) (None, 28, 28, 22) 968 adjust\_avg\_pool\_2\_0[0][0]

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activation\_23 (Activation) (None, 28, 28, 88) 0 reduction\_concat\_stem\_2[0][0]

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concatenate\_2 (Concatenate) (None, 28, 28, 44) 0 adjust\_conv\_1\_0[0][0]

adjust\_conv\_2\_0[0][0]

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normal\_conv\_1\_0 (Conv2D) (None, 28, 28, 44) 3872 activation\_23[0][0]

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adjust\_bn\_0 (BatchNormalization (None, 28, 28, 44) 176 concatenate\_2[0][0]

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normal\_bn\_1\_0 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_0[0][0]

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activation\_24 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_0[0][0]

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activation\_26 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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activation\_28 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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activation\_30 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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activation\_32 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_0[0][0]

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separable\_conv\_1\_normal\_left1\_0 (None, 28, 28, 44) 3036 activation\_24[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_26[0][0]

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separable\_conv\_1\_normal\_left2\_0 (None, 28, 28, 44) 3036 activation\_28[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_30[0][0]

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separable\_conv\_1\_normal\_left5\_0 (None, 28, 28, 44) 2332 activation\_32[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_0[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_0[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_0[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_0[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_0[0

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activation\_25 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_27 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_29 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_31 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_33 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_0 (None, 28, 28, 44) 3036 activation\_25[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_27[0][0]

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separable\_conv\_2\_normal\_left2\_0 (None, 28, 28, 44) 3036 activation\_29[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_31[0][0]

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separable\_conv\_2\_normal\_left5\_0 (None, 28, 28, 44) 2332 activation\_33[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_0[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_0[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_0[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_0[

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normal\_left3\_0 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_0[0][0]

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normal\_left4\_0 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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normal\_right4\_0 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_0[0

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normal\_add\_1\_0 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_0 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_0 (Add) (None, 28, 28, 44) 0 normal\_left3\_0[0][0]

adjust\_bn\_0[0][0]

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normal\_add\_4\_0 (Add) (None, 28, 28, 44) 0 normal\_left4\_0[0][0]

normal\_right4\_0[0][0]

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normal\_add\_5\_0 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_0[0][0]

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normal\_concat\_0 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_0[0][0]

normal\_add\_1\_0[0][0]

normal\_add\_2\_0[0][0]

normal\_add\_3\_0[0][0]

normal\_add\_4\_0[0][0]

normal\_add\_5\_0[0][0]

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activation\_34 (Activation) (None, 28, 28, 88) 0 reduction\_concat\_stem\_2[0][0]

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activation\_35 (Activation) (None, 28, 28, 264) 0 normal\_concat\_0[0][0]

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adjust\_conv\_projection\_1 (Conv2 (None, 28, 28, 44) 3872 activation\_34[0][0]

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normal\_conv\_1\_1 (Conv2D) (None, 28, 28, 44) 11616 activation\_35[0][0]

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adjust\_bn\_1 (BatchNormalization (None, 28, 28, 44) 176 adjust\_conv\_projection\_1[0][0]

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normal\_bn\_1\_1 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_1[0][0]

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activation\_36 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_1[0][0]

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activation\_38 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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activation\_40 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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activation\_42 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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activation\_44 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_1[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 28, 28, 44) 3036 activation\_36[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_38[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 28, 28, 44) 3036 activation\_40[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_42[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 28, 28, 44) 2332 activation\_44[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_1[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_1[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_1[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_1[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_1[0

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activation\_37 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_39 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_41 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_43 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_45 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 28, 28, 44) 3036 activation\_37[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_39[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 28, 28, 44) 3036 activation\_41[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_43[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 28, 28, 44) 2332 activation\_45[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_1[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_1[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_1[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_1[

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normal\_left3\_1 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_1[0][0]

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normal\_left4\_1 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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normal\_right4\_1 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_1[0

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normal\_add\_1\_1 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_1 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_1 (Add) (None, 28, 28, 44) 0 normal\_left3\_1[0][0]

adjust\_bn\_1[0][0]

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normal\_add\_4\_1 (Add) (None, 28, 28, 44) 0 normal\_left4\_1[0][0]

normal\_right4\_1[0][0]

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normal\_add\_5\_1 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_1[0][0]

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normal\_concat\_1 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_1[0][0]

normal\_add\_1\_1[0][0]

normal\_add\_2\_1[0][0]

normal\_add\_3\_1[0][0]

normal\_add\_4\_1[0][0]

normal\_add\_5\_1[0][0]

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activation\_46 (Activation) (None, 28, 28, 264) 0 normal\_concat\_0[0][0]

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activation\_47 (Activation) (None, 28, 28, 264) 0 normal\_concat\_1[0][0]

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adjust\_conv\_projection\_2 (Conv2 (None, 28, 28, 44) 11616 activation\_46[0][0]

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normal\_conv\_1\_2 (Conv2D) (None, 28, 28, 44) 11616 activation\_47[0][0]

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adjust\_bn\_2 (BatchNormalization (None, 28, 28, 44) 176 adjust\_conv\_projection\_2[0][0]

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normal\_bn\_1\_2 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_2[0][0]

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activation\_48 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_2[0][0]

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activation\_50 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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activation\_52 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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activation\_54 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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activation\_56 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_2[0][0]

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separable\_conv\_1\_normal\_left1\_2 (None, 28, 28, 44) 3036 activation\_48[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_50[0][0]

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separable\_conv\_1\_normal\_left2\_2 (None, 28, 28, 44) 3036 activation\_52[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_54[0][0]

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separable\_conv\_1\_normal\_left5\_2 (None, 28, 28, 44) 2332 activation\_56[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_2[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_2[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_2[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_2[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_2[0

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activation\_49 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_51 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_53 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_55 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_57 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_2 (None, 28, 28, 44) 3036 activation\_49[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_51[0][0]

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separable\_conv\_2\_normal\_left2\_2 (None, 28, 28, 44) 3036 activation\_53[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_55[0][0]

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separable\_conv\_2\_normal\_left5\_2 (None, 28, 28, 44) 2332 activation\_57[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_2[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_2[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_2[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_2[

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normal\_left3\_2 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_2[0][0]

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normal\_left4\_2 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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normal\_right4\_2 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_2[0

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normal\_add\_1\_2 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_2 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_2 (Add) (None, 28, 28, 44) 0 normal\_left3\_2[0][0]

adjust\_bn\_2[0][0]

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normal\_add\_4\_2 (Add) (None, 28, 28, 44) 0 normal\_left4\_2[0][0]

normal\_right4\_2[0][0]

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normal\_add\_5\_2 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_2[0][0]

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normal\_concat\_2 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_2[0][0]

normal\_add\_1\_2[0][0]

normal\_add\_2\_2[0][0]

normal\_add\_3\_2[0][0]

normal\_add\_4\_2[0][0]

normal\_add\_5\_2[0][0]

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activation\_58 (Activation) (None, 28, 28, 264) 0 normal\_concat\_1[0][0]

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activation\_59 (Activation) (None, 28, 28, 264) 0 normal\_concat\_2[0][0]

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adjust\_conv\_projection\_3 (Conv2 (None, 28, 28, 44) 11616 activation\_58[0][0]

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normal\_conv\_1\_3 (Conv2D) (None, 28, 28, 44) 11616 activation\_59[0][0]

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adjust\_bn\_3 (BatchNormalization (None, 28, 28, 44) 176 adjust\_conv\_projection\_3[0][0]

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normal\_bn\_1\_3 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_3[0][0]

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activation\_60 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_3[0][0]

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activation\_62 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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activation\_64 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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activation\_66 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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activation\_68 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_3[0][0]

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separable\_conv\_1\_normal\_left1\_3 (None, 28, 28, 44) 3036 activation\_60[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_62[0][0]

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separable\_conv\_1\_normal\_left2\_3 (None, 28, 28, 44) 3036 activation\_64[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_66[0][0]

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separable\_conv\_1\_normal\_left5\_3 (None, 28, 28, 44) 2332 activation\_68[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_3[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_3[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_3[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_3[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_3[0

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activation\_61 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_63 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_65 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_67 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_69 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_3 (None, 28, 28, 44) 3036 activation\_61[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_63[0][0]

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separable\_conv\_2\_normal\_left2\_3 (None, 28, 28, 44) 3036 activation\_65[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_67[0][0]

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separable\_conv\_2\_normal\_left5\_3 (None, 28, 28, 44) 2332 activation\_69[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_3[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_3[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_3[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_3[

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normal\_left3\_3 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_3[0][0]

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normal\_left4\_3 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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normal\_right4\_3 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_3[0

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normal\_add\_1\_3 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_3 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_3 (Add) (None, 28, 28, 44) 0 normal\_left3\_3[0][0]

adjust\_bn\_3[0][0]

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normal\_add\_4\_3 (Add) (None, 28, 28, 44) 0 normal\_left4\_3[0][0]

normal\_right4\_3[0][0]

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normal\_add\_5\_3 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_3[0][0]

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normal\_concat\_3 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_3[0][0]

normal\_add\_1\_3[0][0]

normal\_add\_2\_3[0][0]

normal\_add\_3\_3[0][0]

normal\_add\_4\_3[0][0]

normal\_add\_5\_3[0][0]

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activation\_71 (Activation) (None, 28, 28, 264) 0 normal\_concat\_3[0][0]

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activation\_70 (Activation) (None, 28, 28, 264) 0 normal\_concat\_2[0][0]

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reduction\_conv\_1\_reduce\_4 (Conv (None, 28, 28, 88) 23232 activation\_71[0][0]

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adjust\_conv\_projection\_reduce\_4 (None, 28, 28, 88) 23232 activation\_70[0][0]

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reduction\_bn\_1\_reduce\_4 (BatchN (None, 28, 28, 88) 352 reduction\_conv\_1\_reduce\_4[0][0]

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adjust\_bn\_reduce\_4 (BatchNormal (None, 28, 28, 88) 352 adjust\_conv\_projection\_reduce\_4[0

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activation\_72 (Activation) (None, 28, 28, 88) 0 reduction\_bn\_1\_reduce\_4[0][0]

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activation\_74 (Activation) (None, 28, 28, 88) 0 adjust\_bn\_reduce\_4[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 31, 31, 88) 0 activation\_72[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 33, 33, 88) 0 activation\_74[0][0]

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separable\_conv\_1\_reduction\_left (None, 14, 14, 88) 9944 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 14, 14, 88) 12056 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_right1

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activation\_73 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_75 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 14, 14, 88) 9944 activation\_73[0][0]

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separable\_conv\_2\_reduction\_righ (None, 14, 14, 88) 12056 activation\_75[0][0]

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activation\_76 (Activation) (None, 28, 28, 88) 0 adjust\_bn\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 33, 33, 88) 0 activation\_76[0][0]

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activation\_78 (Activation) (None, 28, 28, 88) 0 adjust\_bn\_reduce\_4[0][0]

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reduction\_add\_1\_reduce\_4 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 14, 14, 88) 12056 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 31, 31, 88) 0 activation\_78[0][0]

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activation\_80 (Activation) (None, 14, 14, 88) 0 reduction\_add\_1\_reduce\_4[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 14, 14, 88) 9944 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 14, 14, 88) 8536 activation\_80[0][0]

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activation\_77 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_reduce\_4 (ZeroP (None, 29, 29, 88) 0 reduction\_bn\_1\_reduce\_4[0][0]

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separable\_conv\_2\_reduction\_righ (None, 14, 14, 88) 12056 activation\_77[0][0]

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activation\_79 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_81 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_reduce\_4 (MaxPo (None, 14, 14, 88) 0 reduction\_pad\_1\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 14, 14, 88) 9944 activation\_79[0][0]

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separable\_conv\_2\_reduction\_left (None, 14, 14, 88) 8536 activation\_81[0][0]

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adjust\_relu\_1\_5 (Activation) (None, 28, 28, 264) 0 normal\_concat\_3[0][0]

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reduction\_add\_2\_reduce\_4 (Add) (None, 14, 14, 88) 0 reduction\_left2\_reduce\_4[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_reduce\_4 (Avera (None, 14, 14, 88) 0 reduction\_pad\_1\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_reduce\_4 (Avera (None, 14, 14, 88) 0 reduction\_add\_1\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_reduce\_4 (MaxP (None, 14, 14, 88) 0 reduction\_pad\_1\_reduce\_4[0][0]

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zero\_padding2d\_3 (ZeroPadding2D (None, 29, 29, 264) 0 adjust\_relu\_1\_5[0][0]

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reduction\_add3\_reduce\_4 (Add) (None, 14, 14, 88) 0 reduction\_left3\_reduce\_4[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_3 (Add) (None, 14, 14, 88) 0 reduction\_add\_2\_reduce\_4[0][0]

reduction\_left4\_reduce\_4[0][0]

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reduction\_add4\_reduce\_4 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_reduce\_4[0][0]

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cropping2d\_3 (Cropping2D) (None, 28, 28, 264) 0 zero\_padding2d\_3[0][0]

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reduction\_concat\_reduce\_4 (Conc (None, 14, 14, 352) 0 reduction\_add\_2\_reduce\_4[0][0]

reduction\_add3\_reduce\_4[0][0]

add\_3[0][0]

reduction\_add4\_reduce\_4[0][0]

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adjust\_avg\_pool\_1\_5 (AveragePoo (None, 14, 14, 264) 0 adjust\_relu\_1\_5[0][0]

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adjust\_avg\_pool\_2\_5 (AveragePoo (None, 14, 14, 264) 0 cropping2d\_3[0][0]

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adjust\_conv\_1\_5 (Conv2D) (None, 14, 14, 44) 11616 adjust\_avg\_pool\_1\_5[0][0]

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adjust\_conv\_2\_5 (Conv2D) (None, 14, 14, 44) 11616 adjust\_avg\_pool\_2\_5[0][0]

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activation\_82 (Activation) (None, 14, 14, 352) 0 reduction\_concat\_reduce\_4[0][0]

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concatenate\_3 (Concatenate) (None, 14, 14, 88) 0 adjust\_conv\_1\_5[0][0]

adjust\_conv\_2\_5[0][0]

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normal\_conv\_1\_5 (Conv2D) (None, 14, 14, 88) 30976 activation\_82[0][0]

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adjust\_bn\_5 (BatchNormalization (None, 14, 14, 88) 352 concatenate\_3[0][0]

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normal\_bn\_1\_5 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_5[0][0]

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activation\_83 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_5[0][0]

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activation\_85 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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activation\_87 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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activation\_89 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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activation\_91 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_5[0][0]

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separable\_conv\_1\_normal\_left1\_5 (None, 14, 14, 88) 9944 activation\_83[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_85[0][0]

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separable\_conv\_1\_normal\_left2\_5 (None, 14, 14, 88) 9944 activation\_87[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_89[0][0]

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separable\_conv\_1\_normal\_left5\_5 (None, 14, 14, 88) 8536 activation\_91[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_5[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_5[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_5[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_5[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_5[0

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activation\_84 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_86 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_88 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_90 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_92 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_5 (None, 14, 14, 88) 9944 activation\_84[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_86[0][0]

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separable\_conv\_2\_normal\_left2\_5 (None, 14, 14, 88) 9944 activation\_88[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_90[0][0]

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separable\_conv\_2\_normal\_left5\_5 (None, 14, 14, 88) 8536 activation\_92[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_5[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_5[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_5[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_5[

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normal\_left3\_5 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_5[0][0]

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normal\_left4\_5 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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normal\_right4\_5 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_5[0

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normal\_add\_1\_5 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_5 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_5 (Add) (None, 14, 14, 88) 0 normal\_left3\_5[0][0]

adjust\_bn\_5[0][0]

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normal\_add\_4\_5 (Add) (None, 14, 14, 88) 0 normal\_left4\_5[0][0]

normal\_right4\_5[0][0]

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normal\_add\_5\_5 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_5[0][0]

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normal\_concat\_5 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_5[0][0]

normal\_add\_1\_5[0][0]

normal\_add\_2\_5[0][0]

normal\_add\_3\_5[0][0]

normal\_add\_4\_5[0][0]

normal\_add\_5\_5[0][0]

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activation\_93 (Activation) (None, 14, 14, 352) 0 reduction\_concat\_reduce\_4[0][0]

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activation\_94 (Activation) (None, 14, 14, 528) 0 normal\_concat\_5[0][0]

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adjust\_conv\_projection\_6 (Conv2 (None, 14, 14, 88) 30976 activation\_93[0][0]

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normal\_conv\_1\_6 (Conv2D) (None, 14, 14, 88) 46464 activation\_94[0][0]

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adjust\_bn\_6 (BatchNormalization (None, 14, 14, 88) 352 adjust\_conv\_projection\_6[0][0]

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normal\_bn\_1\_6 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_6[0][0]

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activation\_95 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_6[0][0]

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activation\_97 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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activation\_99 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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activation\_101 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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activation\_103 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_6[0][0]

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separable\_conv\_1\_normal\_left1\_6 (None, 14, 14, 88) 9944 activation\_95[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_97[0][0]

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separable\_conv\_1\_normal\_left2\_6 (None, 14, 14, 88) 9944 activation\_99[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_101[0][0]

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separable\_conv\_1\_normal\_left5\_6 (None, 14, 14, 88) 8536 activation\_103[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_6[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_6[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_6[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_6[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_6[0

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activation\_96 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_98 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_100 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_102 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_104 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_6 (None, 14, 14, 88) 9944 activation\_96[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_98[0][0]

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separable\_conv\_2\_normal\_left2\_6 (None, 14, 14, 88) 9944 activation\_100[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_102[0][0]

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separable\_conv\_2\_normal\_left5\_6 (None, 14, 14, 88) 8536 activation\_104[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_6[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_6[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_6[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_6[

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normal\_left3\_6 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_6[0][0]

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normal\_left4\_6 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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normal\_right4\_6 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_6[0

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normal\_add\_1\_6 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_6 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_6 (Add) (None, 14, 14, 88) 0 normal\_left3\_6[0][0]

adjust\_bn\_6[0][0]

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normal\_add\_4\_6 (Add) (None, 14, 14, 88) 0 normal\_left4\_6[0][0]

normal\_right4\_6[0][0]

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normal\_add\_5\_6 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_6[0][0]

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normal\_concat\_6 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_6[0][0]

normal\_add\_1\_6[0][0]

normal\_add\_2\_6[0][0]

normal\_add\_3\_6[0][0]

normal\_add\_4\_6[0][0]

normal\_add\_5\_6[0][0]

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activation\_105 (Activation) (None, 14, 14, 528) 0 normal\_concat\_5[0][0]

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activation\_106 (Activation) (None, 14, 14, 528) 0 normal\_concat\_6[0][0]

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adjust\_conv\_projection\_7 (Conv2 (None, 14, 14, 88) 46464 activation\_105[0][0]

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normal\_conv\_1\_7 (Conv2D) (None, 14, 14, 88) 46464 activation\_106[0][0]

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adjust\_bn\_7 (BatchNormalization (None, 14, 14, 88) 352 adjust\_conv\_projection\_7[0][0]

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normal\_bn\_1\_7 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_7[0][0]

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activation\_107 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_7[0][0]

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activation\_109 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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activation\_111 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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activation\_113 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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activation\_115 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_7[0][0]

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separable\_conv\_1\_normal\_left1\_7 (None, 14, 14, 88) 9944 activation\_107[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_109[0][0]

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separable\_conv\_1\_normal\_left2\_7 (None, 14, 14, 88) 9944 activation\_111[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_113[0][0]

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separable\_conv\_1\_normal\_left5\_7 (None, 14, 14, 88) 8536 activation\_115[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_7[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_7[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_7[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_7[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_7[0

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activation\_108 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_110 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_112 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_114 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_116 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_7 (None, 14, 14, 88) 9944 activation\_108[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_110[0][0]

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separable\_conv\_2\_normal\_left2\_7 (None, 14, 14, 88) 9944 activation\_112[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_114[0][0]

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separable\_conv\_2\_normal\_left5\_7 (None, 14, 14, 88) 8536 activation\_116[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_7[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_7[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_7[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_7[

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normal\_left3\_7 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_7[0][0]

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normal\_left4\_7 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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normal\_right4\_7 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_7[0

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normal\_add\_1\_7 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_7 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_7 (Add) (None, 14, 14, 88) 0 normal\_left3\_7[0][0]

adjust\_bn\_7[0][0]

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normal\_add\_4\_7 (Add) (None, 14, 14, 88) 0 normal\_left4\_7[0][0]

normal\_right4\_7[0][0]

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normal\_add\_5\_7 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_7[0][0]

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normal\_concat\_7 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_7[0][0]

normal\_add\_1\_7[0][0]

normal\_add\_2\_7[0][0]

normal\_add\_3\_7[0][0]

normal\_add\_4\_7[0][0]

normal\_add\_5\_7[0][0]

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activation\_117 (Activation) (None, 14, 14, 528) 0 normal\_concat\_6[0][0]

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activation\_118 (Activation) (None, 14, 14, 528) 0 normal\_concat\_7[0][0]

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adjust\_conv\_projection\_8 (Conv2 (None, 14, 14, 88) 46464 activation\_117[0][0]

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normal\_conv\_1\_8 (Conv2D) (None, 14, 14, 88) 46464 activation\_118[0][0]

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adjust\_bn\_8 (BatchNormalization (None, 14, 14, 88) 352 adjust\_conv\_projection\_8[0][0]

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normal\_bn\_1\_8 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_8[0][0]

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activation\_119 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_8[0][0]

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activation\_121 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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activation\_123 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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activation\_125 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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activation\_127 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_8[0][0]

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separable\_conv\_1\_normal\_left1\_8 (None, 14, 14, 88) 9944 activation\_119[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_121[0][0]

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separable\_conv\_1\_normal\_left2\_8 (None, 14, 14, 88) 9944 activation\_123[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_125[0][0]

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separable\_conv\_1\_normal\_left5\_8 (None, 14, 14, 88) 8536 activation\_127[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_8[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_8[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_8[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_8[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_8[0

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activation\_120 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_122 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_124 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_126 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_128 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_8 (None, 14, 14, 88) 9944 activation\_120[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_122[0][0]

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separable\_conv\_2\_normal\_left2\_8 (None, 14, 14, 88) 9944 activation\_124[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_126[0][0]

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separable\_conv\_2\_normal\_left5\_8 (None, 14, 14, 88) 8536 activation\_128[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_8[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_8[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_8[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_8[

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normal\_left3\_8 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_8[0][0]

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normal\_left4\_8 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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normal\_right4\_8 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_8[0

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normal\_add\_1\_8 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_8 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_8 (Add) (None, 14, 14, 88) 0 normal\_left3\_8[0][0]

adjust\_bn\_8[0][0]

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normal\_add\_4\_8 (Add) (None, 14, 14, 88) 0 normal\_left4\_8[0][0]

normal\_right4\_8[0][0]

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normal\_add\_5\_8 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_8[0][0]

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normal\_concat\_8 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_8[0][0]

normal\_add\_1\_8[0][0]

normal\_add\_2\_8[0][0]

normal\_add\_3\_8[0][0]

normal\_add\_4\_8[0][0]

normal\_add\_5\_8[0][0]

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activation\_130 (Activation) (None, 14, 14, 528) 0 normal\_concat\_8[0][0]

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activation\_129 (Activation) (None, 14, 14, 528) 0 normal\_concat\_7[0][0]

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reduction\_conv\_1\_reduce\_8 (Conv (None, 14, 14, 176) 92928 activation\_130[0][0]

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adjust\_conv\_projection\_reduce\_8 (None, 14, 14, 176) 92928 activation\_129[0][0]

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reduction\_bn\_1\_reduce\_8 (BatchN (None, 14, 14, 176) 704 reduction\_conv\_1\_reduce\_8[0][0]

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adjust\_bn\_reduce\_8 (BatchNormal (None, 14, 14, 176) 704 adjust\_conv\_projection\_reduce\_8[0

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activation\_131 (Activation) (None, 14, 14, 176) 0 reduction\_bn\_1\_reduce\_8[0][0]

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activation\_133 (Activation) (None, 14, 14, 176) 0 adjust\_bn\_reduce\_8[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 17, 17, 176) 0 activation\_131[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 19, 19, 176) 0 activation\_133[0][0]

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separable\_conv\_1\_reduction\_left (None, 7, 7, 176) 35376 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 7, 7, 176) 39600 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_right1

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activation\_132 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_134 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 7, 7, 176) 35376 activation\_132[0][0]

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separable\_conv\_2\_reduction\_righ (None, 7, 7, 176) 39600 activation\_134[0][0]

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activation\_135 (Activation) (None, 14, 14, 176) 0 adjust\_bn\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 19, 19, 176) 0 activation\_135[0][0]

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activation\_137 (Activation) (None, 14, 14, 176) 0 adjust\_bn\_reduce\_8[0][0]

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reduction\_add\_1\_reduce\_8 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 7, 7, 176) 39600 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 17, 17, 176) 0 activation\_137[0][0]

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activation\_139 (Activation) (None, 7, 7, 176) 0 reduction\_add\_1\_reduce\_8[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 7, 7, 176) 35376 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 7, 7, 176) 32560 activation\_139[0][0]

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activation\_136 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_reduce\_8 (ZeroP (None, 15, 15, 176) 0 reduction\_bn\_1\_reduce\_8[0][0]

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separable\_conv\_2\_reduction\_righ (None, 7, 7, 176) 39600 activation\_136[0][0]

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activation\_138 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_140 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_reduce\_8 (MaxPo (None, 7, 7, 176) 0 reduction\_pad\_1\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 7, 7, 176) 35376 activation\_138[0][0]

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separable\_conv\_2\_reduction\_left (None, 7, 7, 176) 32560 activation\_140[0][0]

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adjust\_relu\_1\_9 (Activation) (None, 14, 14, 528) 0 normal\_concat\_8[0][0]

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reduction\_add\_2\_reduce\_8 (Add) (None, 7, 7, 176) 0 reduction\_left2\_reduce\_8[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_reduce\_8 (Avera (None, 7, 7, 176) 0 reduction\_pad\_1\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_reduce\_8 (Avera (None, 7, 7, 176) 0 reduction\_add\_1\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_reduce\_8 (MaxP (None, 7, 7, 176) 0 reduction\_pad\_1\_reduce\_8[0][0]

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zero\_padding2d\_4 (ZeroPadding2D (None, 15, 15, 528) 0 adjust\_relu\_1\_9[0][0]

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reduction\_add3\_reduce\_8 (Add) (None, 7, 7, 176) 0 reduction\_left3\_reduce\_8[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_4 (Add) (None, 7, 7, 176) 0 reduction\_add\_2\_reduce\_8[0][0]

reduction\_left4\_reduce\_8[0][0]

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reduction\_add4\_reduce\_8 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_reduce\_8[0][0]

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cropping2d\_4 (Cropping2D) (None, 14, 14, 528) 0 zero\_padding2d\_4[0][0]

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reduction\_concat\_reduce\_8 (Conc (None, 7, 7, 704) 0 reduction\_add\_2\_reduce\_8[0][0]

reduction\_add3\_reduce\_8[0][0]

add\_4[0][0]

reduction\_add4\_reduce\_8[0][0]

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adjust\_avg\_pool\_1\_9 (AveragePoo (None, 7, 7, 528) 0 adjust\_relu\_1\_9[0][0]

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adjust\_avg\_pool\_2\_9 (AveragePoo (None, 7, 7, 528) 0 cropping2d\_4[0][0]

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adjust\_conv\_1\_9 (Conv2D) (None, 7, 7, 88) 46464 adjust\_avg\_pool\_1\_9[0][0]

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adjust\_conv\_2\_9 (Conv2D) (None, 7, 7, 88) 46464 adjust\_avg\_pool\_2\_9[0][0]

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activation\_141 (Activation) (None, 7, 7, 704) 0 reduction\_concat\_reduce\_8[0][0]

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concatenate\_4 (Concatenate) (None, 7, 7, 176) 0 adjust\_conv\_1\_9[0][0]

adjust\_conv\_2\_9[0][0]

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normal\_conv\_1\_9 (Conv2D) (None, 7, 7, 176) 123904 activation\_141[0][0]

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adjust\_bn\_9 (BatchNormalization (None, 7, 7, 176) 704 concatenate\_4[0][0]

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normal\_bn\_1\_9 (BatchNormalizati (None, 7, 7, 176) 704 normal\_conv\_1\_9[0][0]

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activation\_142 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_9[0][0]

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activation\_144 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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activation\_146 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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activation\_148 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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activation\_150 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_9[0][0]

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separable\_conv\_1\_normal\_left1\_9 (None, 7, 7, 176) 35376 activation\_142[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_144[0][0]

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separable\_conv\_1\_normal\_left2\_9 (None, 7, 7, 176) 35376 activation\_146[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_148[0][0]

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separable\_conv\_1\_normal\_left5\_9 (None, 7, 7, 176) 32560 activation\_150[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_9[0

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_9[

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_9[0

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_9[

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_9[0

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activation\_143 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_145 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_147 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_149 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_151 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_9 (None, 7, 7, 176) 35376 activation\_143[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_145[0][0]

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separable\_conv\_2\_normal\_left2\_9 (None, 7, 7, 176) 35376 activation\_147[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_149[0][0]

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separable\_conv\_2\_normal\_left5\_9 (None, 7, 7, 176) 32560 activation\_151[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_9[0

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_9[

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_9[0

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_9[

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normal\_left3\_9 (AveragePooling2 (None, 7, 7, 176) 0 normal\_bn\_1\_9[0][0]

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normal\_left4\_9 (AveragePooling2 (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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normal\_right4\_9 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_9[0

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normal\_add\_1\_9 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_9 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_9 (Add) (None, 7, 7, 176) 0 normal\_left3\_9[0][0]

adjust\_bn\_9[0][0]

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normal\_add\_4\_9 (Add) (None, 7, 7, 176) 0 normal\_left4\_9[0][0]

normal\_right4\_9[0][0]

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normal\_add\_5\_9 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_9[0][0]

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normal\_concat\_9 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_9[0][0]

normal\_add\_1\_9[0][0]

normal\_add\_2\_9[0][0]

normal\_add\_3\_9[0][0]

normal\_add\_4\_9[0][0]

normal\_add\_5\_9[0][0]

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activation\_152 (Activation) (None, 7, 7, 704) 0 reduction\_concat\_reduce\_8[0][0]

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activation\_153 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_9[0][0]

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adjust\_conv\_projection\_10 (Conv (None, 7, 7, 176) 123904 activation\_152[0][0]

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normal\_conv\_1\_10 (Conv2D) (None, 7, 7, 176) 185856 activation\_153[0][0]

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adjust\_bn\_10 (BatchNormalizatio (None, 7, 7, 176) 704 adjust\_conv\_projection\_10[0][0]

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normal\_bn\_1\_10 (BatchNormalizat (None, 7, 7, 176) 704 normal\_conv\_1\_10[0][0]

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activation\_154 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_10[0][0]

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activation\_156 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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activation\_158 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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activation\_160 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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activation\_162 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_10[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_154[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_156[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_158[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_160[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_162[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_10[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_10

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_10[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_10

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_10[

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activation\_155 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_157 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_159 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_161 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_163 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_155[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_157[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_159[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_161[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_163[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_10[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_10

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_10[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_10

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normal\_left3\_10 (AveragePooling (None, 7, 7, 176) 0 normal\_bn\_1\_10[0][0]

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normal\_left4\_10 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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normal\_right4\_10 (AveragePoolin (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_10[

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normal\_add\_1\_10 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_10 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_10 (Add) (None, 7, 7, 176) 0 normal\_left3\_10[0][0]

adjust\_bn\_10[0][0]

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normal\_add\_4\_10 (Add) (None, 7, 7, 176) 0 normal\_left4\_10[0][0]

normal\_right4\_10[0][0]

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normal\_add\_5\_10 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_10[0][0]

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normal\_concat\_10 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_10[0][0]

normal\_add\_1\_10[0][0]

normal\_add\_2\_10[0][0]

normal\_add\_3\_10[0][0]

normal\_add\_4\_10[0][0]

normal\_add\_5\_10[0][0]

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activation\_164 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_9[0][0]

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activation\_165 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_10[0][0]

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adjust\_conv\_projection\_11 (Conv (None, 7, 7, 176) 185856 activation\_164[0][0]

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normal\_conv\_1\_11 (Conv2D) (None, 7, 7, 176) 185856 activation\_165[0][0]

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adjust\_bn\_11 (BatchNormalizatio (None, 7, 7, 176) 704 adjust\_conv\_projection\_11[0][0]

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normal\_bn\_1\_11 (BatchNormalizat (None, 7, 7, 176) 704 normal\_conv\_1\_11[0][0]

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activation\_166 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_11[0][0]

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activation\_168 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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activation\_170 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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activation\_172 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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activation\_174 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_11[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_166[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_168[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_170[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_172[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_174[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_11[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_11

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_11[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_11

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_11[

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activation\_167 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_169 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_171 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_173 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_175 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_167[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_169[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_171[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_173[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_175[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_11[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_11

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_11[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_11

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normal\_left3\_11 (AveragePooling (None, 7, 7, 176) 0 normal\_bn\_1\_11[0][0]

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normal\_left4\_11 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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normal\_right4\_11 (AveragePoolin (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_11[

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normal\_add\_1\_11 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_11 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_11 (Add) (None, 7, 7, 176) 0 normal\_left3\_11[0][0]

adjust\_bn\_11[0][0]

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normal\_add\_4\_11 (Add) (None, 7, 7, 176) 0 normal\_left4\_11[0][0]

normal\_right4\_11[0][0]

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normal\_add\_5\_11 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_11[0][0]

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normal\_concat\_11 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_11[0][0]

normal\_add\_1\_11[0][0]

normal\_add\_2\_11[0][0]

normal\_add\_3\_11[0][0]

normal\_add\_4\_11[0][0]

normal\_add\_5\_11[0][0]

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activation\_176 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_10[0][0]

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activation\_177 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_11[0][0]

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adjust\_conv\_projection\_12 (Conv (None, 7, 7, 176) 185856 activation\_176[0][0]

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normal\_conv\_1\_12 (Conv2D) (None, 7, 7, 176) 185856 activation\_177[0][0]

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adjust\_bn\_12 (BatchNormalizatio (None, 7, 7, 176) 704 adjust\_conv\_projection\_12[0][0]

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normal\_bn\_1\_12 (BatchNormalizat (None, 7, 7, 176) 704 normal\_conv\_1\_12[0][0]

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activation\_178 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_12[0][0]

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activation\_180 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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activation\_182 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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activation\_184 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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activation\_186 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_12[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_178[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_180[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_182[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_184[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_186[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_12[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_12

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_12[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_12

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_12[

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activation\_179 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_181 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_183 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_185 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_187 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_179[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_181[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_183[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_185[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_187[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_12[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_12

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_12[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_12

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normal\_left3\_12 (AveragePooling (None, 7, 7, 176) 0 normal\_bn\_1\_12[0][0]

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normal\_left4\_12 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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normal\_right4\_12 (AveragePoolin (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_12[

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normal\_add\_1\_12 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_12 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_12 (Add) (None, 7, 7, 176) 0 normal\_left3\_12[0][0]

adjust\_bn\_12[0][0]

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normal\_add\_4\_12 (Add) (None, 7, 7, 176) 0 normal\_left4\_12[0][0]

normal\_right4\_12[0][0]

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normal\_add\_5\_12 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_12[0][0]

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normal\_concat\_12 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_12[0][0]

normal\_add\_1\_12[0][0]

normal\_add\_2\_12[0][0]

normal\_add\_3\_12[0][0]

normal\_add\_4\_12[0][0]

normal\_add\_5\_12[0][0]

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activation\_188 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_12[0][0]

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global\_average\_pooling2d\_1 (Glo (None, 1056) 0 activation\_188[0][0]

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dense\_1 (Dense) (None, 512) 541184 global\_average\_pooling2d\_1[0][0]

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dropout\_1 (Dropout) (None, 512) 0 dense\_1[0][0]

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dense\_2 (Dense) (None, 256) 131328 dropout\_1[0][0]

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dropout\_2 (Dropout) (None, 256) 0 dense\_2[0][0]

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dense\_3 (Dense) (None, 256) 65792 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, 128) 32896 dropout\_3[0][0]

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dense\_5 (Dense) (None, 24) 3096 dense\_4[0][0]

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Total params: 5,044,012

Trainable params: 774,296

Non-trainable params: 4,269,716

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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

2019-03-11 21:48:58.606105: I tensorflow/stream\_executor/dso\_loader.cc:152] successfully opened CUDA library cublas64\_100.dll locally

414/414 [==============================] - 340s 821ms/step - loss: 2.9605 - acc: 0.0994 - val\_loss: 2.9885 - val\_acc: 0.1091

Epoch 2/15

414/414 [==============================] - 275s 663ms/step - loss: 2.3599 - acc: 0.2430 - val\_loss: 3.1105 - val\_acc: 0.1170

Epoch 3/15

414/414 [==============================] - 265s 641ms/step - loss: 2.0875 - acc: 0.3223 - val\_loss: 3.1286 - val\_acc: 0.1280

Epoch 4/15

414/414 [==============================] - 266s 643ms/step - loss: 1.9638 - acc: 0.3575 - val\_loss: 3.2191 - val\_acc: 0.1396

Epoch 5/15

414/414 [==============================] - 272s 657ms/step - loss: 1.8580 - acc: 0.3940 - val\_loss: 3.0844 - val\_acc: 0.1551

Epoch 6/15

414/414 [==============================] - 276s 666ms/step - loss: 1.8006 - acc: 0.4127 - val\_loss: 3.2352 - val\_acc: 0.1461

Epoch 7/15

414/414 [==============================] - 278s 671ms/step - loss: 1.7498 - acc: 0.4316 - val\_loss: 3.0296 - val\_acc: 0.1717

Epoch 8/15

414/414 [==============================] - 265s 639ms/step - loss: 1.7217 - acc: 0.4463 - val\_loss: 3.1146 - val\_acc: 0.1667

Epoch 9/15

414/414 [==============================] - 265s 639ms/step - loss: 1.6721 - acc: 0.4632 - val\_loss: 3.3626 - val\_acc: 0.1450

Epoch 00009: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.

Epoch 10/15

414/414 [==============================] - 264s 637ms/step - loss: 1.5796 - acc: 0.4905 - val\_loss: 3.3391 - val\_acc: 0.1564

Epoch 11/15

414/414 [==============================] - 264s 637ms/step - loss: 1.5434 - acc: 0.4987 - val\_loss: 3.3965 - val\_acc: 0.1569

Epoch 00011: ReduceLROnPlateau reducing learning rate to 4.0000001899898055e-05.

Epoch 12/15

414/414 [==============================] - 264s 639ms/step - loss: 1.5264 - acc: 0.5031 - val\_loss: 3.3761 - val\_acc: 0.1591

Epoch 13/15

414/414 [==============================] - 264s 638ms/step - loss: 1.5287 - acc: 0.5051 - val\_loss: 3.3442 - val\_acc: 0.1603

Epoch 00013: ReduceLROnPlateau reducing learning rate to 8.000000525498762e-06.

Epoch 14/15

414/414 [==============================] - 271s 653ms/step - loss: 1.5083 - acc: 0.5104 - val\_loss: 3.3506 - val\_acc: 0.1602

Epoch 15/15

414/414 [==============================] - 270s 652ms/step - loss: 1.5252 - acc: 0.5032 - val\_loss: 3.3373 - val\_acc: 0.1607

Epoch 00015: ReduceLROnPlateau reducing learning rate to 1.6000001778593287e-06.

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Layer (type) Output Shape Param # Connected to

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

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stem\_conv1 (Conv2D) (None, 111, 111, 32) 864 input\_1[0][0]

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stem\_bn1 (BatchNormalization) (None, 111, 111, 32) 128 stem\_conv1[0][0]

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activation\_1 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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reduction\_conv\_1\_stem\_1 (Conv2D (None, 111, 111, 11) 352 activation\_1[0][0]

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reduction\_bn\_1\_stem\_1 (BatchNor (None, 111, 111, 11) 44 reduction\_conv\_1\_stem\_1[0][0]

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activation\_2 (Activation) (None, 111, 111, 11) 0 reduction\_bn\_1\_stem\_1[0][0]

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activation\_4 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 115, 115, 11) 0 activation\_2[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 117, 117, 32) 0 activation\_4[0][0]

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separable\_conv\_1\_reduction\_left (None, 56, 56, 11) 396 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 56, 56, 11) 1920 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_right1

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activation\_3 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_5 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 56, 56, 11) 396 activation\_3[0][0]

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separable\_conv\_2\_reduction\_righ (None, 56, 56, 11) 660 activation\_5[0][0]

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activation\_6 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 117, 117, 32) 0 activation\_6[0][0]

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activation\_8 (Activation) (None, 111, 111, 32) 0 stem\_bn1[0][0]

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reduction\_add\_1\_stem\_1 (Add) (None, 56, 56, 11) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 56, 56, 11) 1920 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 115, 115, 32) 0 activation\_8[0][0]

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activation\_10 (Activation) (None, 56, 56, 11) 0 reduction\_add\_1\_stem\_1[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 56, 56, 11) 1152 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 56, 56, 11) 220 activation\_10[0][0]

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activation\_7 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_stem\_1 (ZeroPad (None, 113, 113, 11) 0 reduction\_bn\_1\_stem\_1[0][0]

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separable\_conv\_2\_reduction\_righ (None, 56, 56, 11) 660 activation\_7[0][0]

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activation\_9 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_11 (Activation) (None, 56, 56, 11) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_stem\_1 (MaxPool (None, 56, 56, 11) 0 reduction\_pad\_1\_stem\_1[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 56, 56, 11) 396 activation\_9[0][0]

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separable\_conv\_2\_reduction\_left (None, 56, 56, 11) 220 activation\_11[0][0]

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adjust\_relu\_1\_stem\_2 (Activatio (None, 111, 111, 32) 0 stem\_bn1[0][0]

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reduction\_add\_2\_stem\_1 (Add) (None, 56, 56, 11) 0 reduction\_left2\_stem\_1[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_stem\_1 (Average (None, 56, 56, 11) 0 reduction\_pad\_1\_stem\_1[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_stem\_1 (Average (None, 56, 56, 11) 0 reduction\_add\_1\_stem\_1[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 56, 56, 11) 44 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_stem\_1 (MaxPoo (None, 56, 56, 11) 0 reduction\_pad\_1\_stem\_1[0][0]

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zero\_padding2d\_1 (ZeroPadding2D (None, 112, 112, 32) 0 adjust\_relu\_1\_stem\_2[0][0]

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reduction\_add3\_stem\_1 (Add) (None, 56, 56, 11) 0 reduction\_left3\_stem\_1[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_1 (Add) (None, 56, 56, 11) 0 reduction\_add\_2\_stem\_1[0][0]

reduction\_left4\_stem\_1[0][0]

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reduction\_add4\_stem\_1 (Add) (None, 56, 56, 11) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_stem\_1[0][0]

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cropping2d\_1 (Cropping2D) (None, 111, 111, 32) 0 zero\_padding2d\_1[0][0]

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reduction\_concat\_stem\_1 (Concat (None, 56, 56, 44) 0 reduction\_add\_2\_stem\_1[0][0]

reduction\_add3\_stem\_1[0][0]

add\_1[0][0]

reduction\_add4\_stem\_1[0][0]

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adjust\_avg\_pool\_1\_stem\_2 (Avera (None, 56, 56, 32) 0 adjust\_relu\_1\_stem\_2[0][0]

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adjust\_avg\_pool\_2\_stem\_2 (Avera (None, 56, 56, 32) 0 cropping2d\_1[0][0]

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activation\_12 (Activation) (None, 56, 56, 44) 0 reduction\_concat\_stem\_1[0][0]

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adjust\_conv\_1\_stem\_2 (Conv2D) (None, 56, 56, 11) 352 adjust\_avg\_pool\_1\_stem\_2[0][0]

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adjust\_conv\_2\_stem\_2 (Conv2D) (None, 56, 56, 11) 352 adjust\_avg\_pool\_2\_stem\_2[0][0]

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reduction\_conv\_1\_stem\_2 (Conv2D (None, 56, 56, 22) 968 activation\_12[0][0]

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concatenate\_1 (Concatenate) (None, 56, 56, 22) 0 adjust\_conv\_1\_stem\_2[0][0]

adjust\_conv\_2\_stem\_2[0][0]

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reduction\_bn\_1\_stem\_2 (BatchNor (None, 56, 56, 22) 88 reduction\_conv\_1\_stem\_2[0][0]

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adjust\_bn\_stem\_2 (BatchNormaliz (None, 56, 56, 22) 88 concatenate\_1[0][0]

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activation\_13 (Activation) (None, 56, 56, 22) 0 reduction\_bn\_1\_stem\_2[0][0]

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activation\_15 (Activation) (None, 56, 56, 22) 0 adjust\_bn\_stem\_2[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 59, 59, 22) 0 activation\_13[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 61, 61, 22) 0 activation\_15[0][0]

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separable\_conv\_1\_reduction\_left (None, 28, 28, 22) 1034 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 28, 28, 22) 1562 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_right1

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activation\_14 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_16 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 28, 28, 22) 1034 activation\_14[0][0]

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separable\_conv\_2\_reduction\_righ (None, 28, 28, 22) 1562 activation\_16[0][0]

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activation\_17 (Activation) (None, 56, 56, 22) 0 adjust\_bn\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 61, 61, 22) 0 activation\_17[0][0]

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activation\_19 (Activation) (None, 56, 56, 22) 0 adjust\_bn\_stem\_2[0][0]

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reduction\_add\_1\_stem\_2 (Add) (None, 28, 28, 22) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 28, 28, 22) 1562 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 59, 59, 22) 0 activation\_19[0][0]

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activation\_21 (Activation) (None, 28, 28, 22) 0 reduction\_add\_1\_stem\_2[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 28, 28, 22) 1034 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 28, 28, 22) 682 activation\_21[0][0]

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activation\_18 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_stem\_2 (ZeroPad (None, 57, 57, 22) 0 reduction\_bn\_1\_stem\_2[0][0]

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separable\_conv\_2\_reduction\_righ (None, 28, 28, 22) 1562 activation\_18[0][0]

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activation\_20 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_22 (Activation) (None, 28, 28, 22) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_stem\_2 (MaxPool (None, 28, 28, 22) 0 reduction\_pad\_1\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 28, 28, 22) 1034 activation\_20[0][0]

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separable\_conv\_2\_reduction\_left (None, 28, 28, 22) 682 activation\_22[0][0]

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adjust\_relu\_1\_0 (Activation) (None, 56, 56, 44) 0 reduction\_concat\_stem\_1[0][0]

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reduction\_add\_2\_stem\_2 (Add) (None, 28, 28, 22) 0 reduction\_left2\_stem\_2[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_stem\_2 (Average (None, 28, 28, 22) 0 reduction\_pad\_1\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_stem\_2 (Average (None, 28, 28, 22) 0 reduction\_add\_1\_stem\_2[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 28, 28, 22) 88 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_stem\_2 (MaxPoo (None, 28, 28, 22) 0 reduction\_pad\_1\_stem\_2[0][0]

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zero\_padding2d\_2 (ZeroPadding2D (None, 57, 57, 44) 0 adjust\_relu\_1\_0[0][0]

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reduction\_add3\_stem\_2 (Add) (None, 28, 28, 22) 0 reduction\_left3\_stem\_2[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_2 (Add) (None, 28, 28, 22) 0 reduction\_add\_2\_stem\_2[0][0]

reduction\_left4\_stem\_2[0][0]

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reduction\_add4\_stem\_2 (Add) (None, 28, 28, 22) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_stem\_2[0][0]

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cropping2d\_2 (Cropping2D) (None, 56, 56, 44) 0 zero\_padding2d\_2[0][0]

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reduction\_concat\_stem\_2 (Concat (None, 28, 28, 88) 0 reduction\_add\_2\_stem\_2[0][0]

reduction\_add3\_stem\_2[0][0]

add\_2[0][0]

reduction\_add4\_stem\_2[0][0]

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adjust\_avg\_pool\_1\_0 (AveragePoo (None, 28, 28, 44) 0 adjust\_relu\_1\_0[0][0]

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adjust\_avg\_pool\_2\_0 (AveragePoo (None, 28, 28, 44) 0 cropping2d\_2[0][0]

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adjust\_conv\_1\_0 (Conv2D) (None, 28, 28, 22) 968 adjust\_avg\_pool\_1\_0[0][0]

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adjust\_conv\_2\_0 (Conv2D) (None, 28, 28, 22) 968 adjust\_avg\_pool\_2\_0[0][0]

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activation\_23 (Activation) (None, 28, 28, 88) 0 reduction\_concat\_stem\_2[0][0]

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concatenate\_2 (Concatenate) (None, 28, 28, 44) 0 adjust\_conv\_1\_0[0][0]

adjust\_conv\_2\_0[0][0]

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normal\_conv\_1\_0 (Conv2D) (None, 28, 28, 44) 3872 activation\_23[0][0]

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adjust\_bn\_0 (BatchNormalization (None, 28, 28, 44) 176 concatenate\_2[0][0]

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normal\_bn\_1\_0 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_0[0][0]

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activation\_24 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_0[0][0]

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activation\_26 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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activation\_28 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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activation\_30 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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activation\_32 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_0[0][0]

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separable\_conv\_1\_normal\_left1\_0 (None, 28, 28, 44) 3036 activation\_24[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_26[0][0]

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separable\_conv\_1\_normal\_left2\_0 (None, 28, 28, 44) 3036 activation\_28[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_30[0][0]

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separable\_conv\_1\_normal\_left5\_0 (None, 28, 28, 44) 2332 activation\_32[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_0[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_0[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_0[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_0[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_0[0

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activation\_25 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_27 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_29 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_31 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_33 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_0 (None, 28, 28, 44) 3036 activation\_25[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_27[0][0]

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separable\_conv\_2\_normal\_left2\_0 (None, 28, 28, 44) 3036 activation\_29[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_31[0][0]

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separable\_conv\_2\_normal\_left5\_0 (None, 28, 28, 44) 2332 activation\_33[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_0[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_0[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_0[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_0[

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normal\_left3\_0 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_0[0][0]

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normal\_left4\_0 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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normal\_right4\_0 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_0[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_0[0

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normal\_add\_1\_0 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_0 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_0 (Add) (None, 28, 28, 44) 0 normal\_left3\_0[0][0]

adjust\_bn\_0[0][0]

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normal\_add\_4\_0 (Add) (None, 28, 28, 44) 0 normal\_left4\_0[0][0]

normal\_right4\_0[0][0]

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normal\_add\_5\_0 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_0[0][0]

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normal\_concat\_0 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_0[0][0]

normal\_add\_1\_0[0][0]

normal\_add\_2\_0[0][0]

normal\_add\_3\_0[0][0]

normal\_add\_4\_0[0][0]

normal\_add\_5\_0[0][0]

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activation\_34 (Activation) (None, 28, 28, 88) 0 reduction\_concat\_stem\_2[0][0]

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activation\_35 (Activation) (None, 28, 28, 264) 0 normal\_concat\_0[0][0]

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adjust\_conv\_projection\_1 (Conv2 (None, 28, 28, 44) 3872 activation\_34[0][0]

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normal\_conv\_1\_1 (Conv2D) (None, 28, 28, 44) 11616 activation\_35[0][0]

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adjust\_bn\_1 (BatchNormalization (None, 28, 28, 44) 176 adjust\_conv\_projection\_1[0][0]

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normal\_bn\_1\_1 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_1[0][0]

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activation\_36 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_1[0][0]

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activation\_38 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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activation\_40 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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activation\_42 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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activation\_44 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_1[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 28, 28, 44) 3036 activation\_36[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_38[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 28, 28, 44) 3036 activation\_40[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_42[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 28, 28, 44) 2332 activation\_44[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_1[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_1[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_1[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_1[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_1[0

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activation\_37 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_39 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_41 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_43 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_45 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 28, 28, 44) 3036 activation\_37[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_39[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 28, 28, 44) 3036 activation\_41[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_43[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 28, 28, 44) 2332 activation\_45[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_1[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_1[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_1[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_1[

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normal\_left3\_1 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_1[0][0]

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normal\_left4\_1 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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normal\_right4\_1 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_1[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_1[0

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normal\_add\_1\_1 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_1 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_1 (Add) (None, 28, 28, 44) 0 normal\_left3\_1[0][0]

adjust\_bn\_1[0][0]

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normal\_add\_4\_1 (Add) (None, 28, 28, 44) 0 normal\_left4\_1[0][0]

normal\_right4\_1[0][0]

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normal\_add\_5\_1 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_1[0][0]

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normal\_concat\_1 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_1[0][0]

normal\_add\_1\_1[0][0]

normal\_add\_2\_1[0][0]

normal\_add\_3\_1[0][0]

normal\_add\_4\_1[0][0]

normal\_add\_5\_1[0][0]

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activation\_46 (Activation) (None, 28, 28, 264) 0 normal\_concat\_0[0][0]

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activation\_47 (Activation) (None, 28, 28, 264) 0 normal\_concat\_1[0][0]

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adjust\_conv\_projection\_2 (Conv2 (None, 28, 28, 44) 11616 activation\_46[0][0]

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normal\_conv\_1\_2 (Conv2D) (None, 28, 28, 44) 11616 activation\_47[0][0]

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adjust\_bn\_2 (BatchNormalization (None, 28, 28, 44) 176 adjust\_conv\_projection\_2[0][0]

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normal\_bn\_1\_2 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_2[0][0]

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activation\_48 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_2[0][0]

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activation\_50 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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activation\_52 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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activation\_54 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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activation\_56 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_2[0][0]

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separable\_conv\_1\_normal\_left1\_2 (None, 28, 28, 44) 3036 activation\_48[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_50[0][0]

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separable\_conv\_1\_normal\_left2\_2 (None, 28, 28, 44) 3036 activation\_52[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_54[0][0]

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separable\_conv\_1\_normal\_left5\_2 (None, 28, 28, 44) 2332 activation\_56[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_2[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_2[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_2[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_2[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_2[0

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activation\_49 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_51 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_53 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_55 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_57 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_2 (None, 28, 28, 44) 3036 activation\_49[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_51[0][0]

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separable\_conv\_2\_normal\_left2\_2 (None, 28, 28, 44) 3036 activation\_53[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_55[0][0]

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separable\_conv\_2\_normal\_left5\_2 (None, 28, 28, 44) 2332 activation\_57[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_2[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_2[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_2[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_2[

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normal\_left3\_2 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_2[0][0]

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normal\_left4\_2 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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normal\_right4\_2 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_2[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_2[0

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normal\_add\_1\_2 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_2 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_2 (Add) (None, 28, 28, 44) 0 normal\_left3\_2[0][0]

adjust\_bn\_2[0][0]

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normal\_add\_4\_2 (Add) (None, 28, 28, 44) 0 normal\_left4\_2[0][0]

normal\_right4\_2[0][0]

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normal\_add\_5\_2 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_2[0][0]

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normal\_concat\_2 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_2[0][0]

normal\_add\_1\_2[0][0]

normal\_add\_2\_2[0][0]

normal\_add\_3\_2[0][0]

normal\_add\_4\_2[0][0]

normal\_add\_5\_2[0][0]

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activation\_58 (Activation) (None, 28, 28, 264) 0 normal\_concat\_1[0][0]

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activation\_59 (Activation) (None, 28, 28, 264) 0 normal\_concat\_2[0][0]

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adjust\_conv\_projection\_3 (Conv2 (None, 28, 28, 44) 11616 activation\_58[0][0]

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normal\_conv\_1\_3 (Conv2D) (None, 28, 28, 44) 11616 activation\_59[0][0]

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adjust\_bn\_3 (BatchNormalization (None, 28, 28, 44) 176 adjust\_conv\_projection\_3[0][0]

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normal\_bn\_1\_3 (BatchNormalizati (None, 28, 28, 44) 176 normal\_conv\_1\_3[0][0]

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activation\_60 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_3[0][0]

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activation\_62 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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activation\_64 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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activation\_66 (Activation) (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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activation\_68 (Activation) (None, 28, 28, 44) 0 normal\_bn\_1\_3[0][0]

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separable\_conv\_1\_normal\_left1\_3 (None, 28, 28, 44) 3036 activation\_60[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_62[0][0]

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separable\_conv\_1\_normal\_left2\_3 (None, 28, 28, 44) 3036 activation\_64[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_66[0][0]

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separable\_conv\_1\_normal\_left5\_3 (None, 28, 28, 44) 2332 activation\_68[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left1\_3[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right1\_3[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left2\_3[0

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separable\_conv\_1\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_right2\_3[

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separable\_conv\_1\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_1\_normal\_left5\_3[0

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activation\_61 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_63 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_65 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_67 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_69 (Activation) (None, 28, 28, 44) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_3 (None, 28, 28, 44) 3036 activation\_61[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 28, 28, 44) 2332 activation\_63[0][0]

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separable\_conv\_2\_normal\_left2\_3 (None, 28, 28, 44) 3036 activation\_65[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 28, 28, 44) 2332 activation\_67[0][0]

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separable\_conv\_2\_normal\_left5\_3 (None, 28, 28, 44) 2332 activation\_69[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left1\_3[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right1\_3[

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left2\_3[0

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separable\_conv\_2\_bn\_normal\_righ (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_right2\_3[

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normal\_left3\_3 (AveragePooling2 (None, 28, 28, 44) 0 normal\_bn\_1\_3[0][0]

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normal\_left4\_3 (AveragePooling2 (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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normal\_right4\_3 (AveragePooling (None, 28, 28, 44) 0 adjust\_bn\_3[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 28, 28, 44) 176 separable\_conv\_2\_normal\_left5\_3[0

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normal\_add\_1\_3 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_3 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_3 (Add) (None, 28, 28, 44) 0 normal\_left3\_3[0][0]

adjust\_bn\_3[0][0]

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normal\_add\_4\_3 (Add) (None, 28, 28, 44) 0 normal\_left4\_3[0][0]

normal\_right4\_3[0][0]

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normal\_add\_5\_3 (Add) (None, 28, 28, 44) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_3[0][0]

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normal\_concat\_3 (Concatenate) (None, 28, 28, 264) 0 adjust\_bn\_3[0][0]

normal\_add\_1\_3[0][0]

normal\_add\_2\_3[0][0]

normal\_add\_3\_3[0][0]

normal\_add\_4\_3[0][0]

normal\_add\_5\_3[0][0]

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activation\_71 (Activation) (None, 28, 28, 264) 0 normal\_concat\_3[0][0]

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activation\_70 (Activation) (None, 28, 28, 264) 0 normal\_concat\_2[0][0]

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reduction\_conv\_1\_reduce\_4 (Conv (None, 28, 28, 88) 23232 activation\_71[0][0]

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adjust\_conv\_projection\_reduce\_4 (None, 28, 28, 88) 23232 activation\_70[0][0]

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reduction\_bn\_1\_reduce\_4 (BatchN (None, 28, 28, 88) 352 reduction\_conv\_1\_reduce\_4[0][0]

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adjust\_bn\_reduce\_4 (BatchNormal (None, 28, 28, 88) 352 adjust\_conv\_projection\_reduce\_4[0

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activation\_72 (Activation) (None, 28, 28, 88) 0 reduction\_bn\_1\_reduce\_4[0][0]

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activation\_74 (Activation) (None, 28, 28, 88) 0 adjust\_bn\_reduce\_4[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 31, 31, 88) 0 activation\_72[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 33, 33, 88) 0 activation\_74[0][0]

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separable\_conv\_1\_reduction\_left (None, 14, 14, 88) 9944 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 14, 14, 88) 12056 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_right1

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activation\_73 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_75 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 14, 14, 88) 9944 activation\_73[0][0]

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separable\_conv\_2\_reduction\_righ (None, 14, 14, 88) 12056 activation\_75[0][0]

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activation\_76 (Activation) (None, 28, 28, 88) 0 adjust\_bn\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 33, 33, 88) 0 activation\_76[0][0]

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activation\_78 (Activation) (None, 28, 28, 88) 0 adjust\_bn\_reduce\_4[0][0]

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reduction\_add\_1\_reduce\_4 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 14, 14, 88) 12056 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 31, 31, 88) 0 activation\_78[0][0]

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activation\_80 (Activation) (None, 14, 14, 88) 0 reduction\_add\_1\_reduce\_4[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 14, 14, 88) 9944 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 14, 14, 88) 8536 activation\_80[0][0]

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activation\_77 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_reduce\_4 (ZeroP (None, 29, 29, 88) 0 reduction\_bn\_1\_reduce\_4[0][0]

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separable\_conv\_2\_reduction\_righ (None, 14, 14, 88) 12056 activation\_77[0][0]

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activation\_79 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_81 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_reduce\_4 (MaxPo (None, 14, 14, 88) 0 reduction\_pad\_1\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 14, 14, 88) 9944 activation\_79[0][0]

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separable\_conv\_2\_reduction\_left (None, 14, 14, 88) 8536 activation\_81[0][0]

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adjust\_relu\_1\_5 (Activation) (None, 28, 28, 264) 0 normal\_concat\_3[0][0]

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reduction\_add\_2\_reduce\_4 (Add) (None, 14, 14, 88) 0 reduction\_left2\_reduce\_4[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_reduce\_4 (Avera (None, 14, 14, 88) 0 reduction\_pad\_1\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_reduce\_4 (Avera (None, 14, 14, 88) 0 reduction\_add\_1\_reduce\_4[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 14, 14, 88) 352 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_reduce\_4 (MaxP (None, 14, 14, 88) 0 reduction\_pad\_1\_reduce\_4[0][0]

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zero\_padding2d\_3 (ZeroPadding2D (None, 29, 29, 264) 0 adjust\_relu\_1\_5[0][0]

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reduction\_add3\_reduce\_4 (Add) (None, 14, 14, 88) 0 reduction\_left3\_reduce\_4[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_3 (Add) (None, 14, 14, 88) 0 reduction\_add\_2\_reduce\_4[0][0]

reduction\_left4\_reduce\_4[0][0]

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reduction\_add4\_reduce\_4 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_reduce\_4[0][0]

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cropping2d\_3 (Cropping2D) (None, 28, 28, 264) 0 zero\_padding2d\_3[0][0]

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reduction\_concat\_reduce\_4 (Conc (None, 14, 14, 352) 0 reduction\_add\_2\_reduce\_4[0][0]

reduction\_add3\_reduce\_4[0][0]

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reduction\_add4\_reduce\_4[0][0]

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adjust\_avg\_pool\_1\_5 (AveragePoo (None, 14, 14, 264) 0 adjust\_relu\_1\_5[0][0]

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adjust\_avg\_pool\_2\_5 (AveragePoo (None, 14, 14, 264) 0 cropping2d\_3[0][0]

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adjust\_conv\_1\_5 (Conv2D) (None, 14, 14, 44) 11616 adjust\_avg\_pool\_1\_5[0][0]

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adjust\_conv\_2\_5 (Conv2D) (None, 14, 14, 44) 11616 adjust\_avg\_pool\_2\_5[0][0]

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activation\_82 (Activation) (None, 14, 14, 352) 0 reduction\_concat\_reduce\_4[0][0]

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concatenate\_3 (Concatenate) (None, 14, 14, 88) 0 adjust\_conv\_1\_5[0][0]

adjust\_conv\_2\_5[0][0]

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normal\_conv\_1\_5 (Conv2D) (None, 14, 14, 88) 30976 activation\_82[0][0]

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adjust\_bn\_5 (BatchNormalization (None, 14, 14, 88) 352 concatenate\_3[0][0]

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normal\_bn\_1\_5 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_5[0][0]

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activation\_83 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_5[0][0]

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activation\_85 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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activation\_87 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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activation\_89 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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activation\_91 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_5[0][0]

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separable\_conv\_1\_normal\_left1\_5 (None, 14, 14, 88) 9944 activation\_83[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_85[0][0]

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separable\_conv\_1\_normal\_left2\_5 (None, 14, 14, 88) 9944 activation\_87[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_89[0][0]

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separable\_conv\_1\_normal\_left5\_5 (None, 14, 14, 88) 8536 activation\_91[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_5[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_5[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_5[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_5[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_5[0

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activation\_84 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_86 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_88 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_90 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_92 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_5 (None, 14, 14, 88) 9944 activation\_84[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_86[0][0]

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separable\_conv\_2\_normal\_left2\_5 (None, 14, 14, 88) 9944 activation\_88[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_90[0][0]

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separable\_conv\_2\_normal\_left5\_5 (None, 14, 14, 88) 8536 activation\_92[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_5[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_5[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_5[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_5[

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normal\_left3\_5 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_5[0][0]

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normal\_left4\_5 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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normal\_right4\_5 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_5[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_5[0

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normal\_add\_1\_5 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_5 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_5 (Add) (None, 14, 14, 88) 0 normal\_left3\_5[0][0]

adjust\_bn\_5[0][0]

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normal\_add\_4\_5 (Add) (None, 14, 14, 88) 0 normal\_left4\_5[0][0]

normal\_right4\_5[0][0]

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normal\_add\_5\_5 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_5[0][0]

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normal\_concat\_5 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_5[0][0]

normal\_add\_1\_5[0][0]

normal\_add\_2\_5[0][0]

normal\_add\_3\_5[0][0]

normal\_add\_4\_5[0][0]

normal\_add\_5\_5[0][0]

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activation\_93 (Activation) (None, 14, 14, 352) 0 reduction\_concat\_reduce\_4[0][0]

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activation\_94 (Activation) (None, 14, 14, 528) 0 normal\_concat\_5[0][0]

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adjust\_conv\_projection\_6 (Conv2 (None, 14, 14, 88) 30976 activation\_93[0][0]

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normal\_conv\_1\_6 (Conv2D) (None, 14, 14, 88) 46464 activation\_94[0][0]

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adjust\_bn\_6 (BatchNormalization (None, 14, 14, 88) 352 adjust\_conv\_projection\_6[0][0]

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normal\_bn\_1\_6 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_6[0][0]

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activation\_95 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_6[0][0]

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activation\_97 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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activation\_99 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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activation\_101 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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activation\_103 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_6[0][0]

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separable\_conv\_1\_normal\_left1\_6 (None, 14, 14, 88) 9944 activation\_95[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_97[0][0]

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separable\_conv\_1\_normal\_left2\_6 (None, 14, 14, 88) 9944 activation\_99[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_101[0][0]

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separable\_conv\_1\_normal\_left5\_6 (None, 14, 14, 88) 8536 activation\_103[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_6[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_6[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_6[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_6[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_6[0

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activation\_96 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_98 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_100 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_102 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_104 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_6 (None, 14, 14, 88) 9944 activation\_96[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_98[0][0]

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separable\_conv\_2\_normal\_left2\_6 (None, 14, 14, 88) 9944 activation\_100[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_102[0][0]

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separable\_conv\_2\_normal\_left5\_6 (None, 14, 14, 88) 8536 activation\_104[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_6[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_6[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_6[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_6[

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normal\_left3\_6 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_6[0][0]

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normal\_left4\_6 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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normal\_right4\_6 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_6[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_6[0

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normal\_add\_1\_6 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_6 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_6 (Add) (None, 14, 14, 88) 0 normal\_left3\_6[0][0]

adjust\_bn\_6[0][0]

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normal\_add\_4\_6 (Add) (None, 14, 14, 88) 0 normal\_left4\_6[0][0]

normal\_right4\_6[0][0]

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normal\_add\_5\_6 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_6[0][0]

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normal\_concat\_6 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_6[0][0]

normal\_add\_1\_6[0][0]

normal\_add\_2\_6[0][0]

normal\_add\_3\_6[0][0]

normal\_add\_4\_6[0][0]

normal\_add\_5\_6[0][0]

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activation\_105 (Activation) (None, 14, 14, 528) 0 normal\_concat\_5[0][0]

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activation\_106 (Activation) (None, 14, 14, 528) 0 normal\_concat\_6[0][0]

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adjust\_conv\_projection\_7 (Conv2 (None, 14, 14, 88) 46464 activation\_105[0][0]

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normal\_conv\_1\_7 (Conv2D) (None, 14, 14, 88) 46464 activation\_106[0][0]

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adjust\_bn\_7 (BatchNormalization (None, 14, 14, 88) 352 adjust\_conv\_projection\_7[0][0]

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normal\_bn\_1\_7 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_7[0][0]

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activation\_107 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_7[0][0]

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activation\_109 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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activation\_111 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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activation\_113 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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activation\_115 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_7[0][0]

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separable\_conv\_1\_normal\_left1\_7 (None, 14, 14, 88) 9944 activation\_107[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_109[0][0]

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separable\_conv\_1\_normal\_left2\_7 (None, 14, 14, 88) 9944 activation\_111[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_113[0][0]

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separable\_conv\_1\_normal\_left5\_7 (None, 14, 14, 88) 8536 activation\_115[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_7[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_7[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_7[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_7[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_7[0

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activation\_108 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_110 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_112 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_114 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_116 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_7 (None, 14, 14, 88) 9944 activation\_108[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_110[0][0]

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separable\_conv\_2\_normal\_left2\_7 (None, 14, 14, 88) 9944 activation\_112[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_114[0][0]

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separable\_conv\_2\_normal\_left5\_7 (None, 14, 14, 88) 8536 activation\_116[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_7[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_7[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_7[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_7[

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normal\_left3\_7 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_7[0][0]

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normal\_left4\_7 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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normal\_right4\_7 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_7[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_7[0

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normal\_add\_1\_7 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_7 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_7 (Add) (None, 14, 14, 88) 0 normal\_left3\_7[0][0]

adjust\_bn\_7[0][0]

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normal\_add\_4\_7 (Add) (None, 14, 14, 88) 0 normal\_left4\_7[0][0]

normal\_right4\_7[0][0]

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normal\_add\_5\_7 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_7[0][0]

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normal\_concat\_7 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_7[0][0]

normal\_add\_1\_7[0][0]

normal\_add\_2\_7[0][0]

normal\_add\_3\_7[0][0]

normal\_add\_4\_7[0][0]

normal\_add\_5\_7[0][0]

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activation\_117 (Activation) (None, 14, 14, 528) 0 normal\_concat\_6[0][0]

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activation\_118 (Activation) (None, 14, 14, 528) 0 normal\_concat\_7[0][0]

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adjust\_conv\_projection\_8 (Conv2 (None, 14, 14, 88) 46464 activation\_117[0][0]

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normal\_conv\_1\_8 (Conv2D) (None, 14, 14, 88) 46464 activation\_118[0][0]

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adjust\_bn\_8 (BatchNormalization (None, 14, 14, 88) 352 adjust\_conv\_projection\_8[0][0]

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normal\_bn\_1\_8 (BatchNormalizati (None, 14, 14, 88) 352 normal\_conv\_1\_8[0][0]

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activation\_119 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_8[0][0]

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activation\_121 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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activation\_123 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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activation\_125 (Activation) (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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activation\_127 (Activation) (None, 14, 14, 88) 0 normal\_bn\_1\_8[0][0]

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separable\_conv\_1\_normal\_left1\_8 (None, 14, 14, 88) 9944 activation\_119[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_121[0][0]

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separable\_conv\_1\_normal\_left2\_8 (None, 14, 14, 88) 9944 activation\_123[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_125[0][0]

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separable\_conv\_1\_normal\_left5\_8 (None, 14, 14, 88) 8536 activation\_127[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left1\_8[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right1\_8[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left2\_8[0

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separable\_conv\_1\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_right2\_8[

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separable\_conv\_1\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_1\_normal\_left5\_8[0

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activation\_120 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_122 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_124 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_126 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_128 (Activation) (None, 14, 14, 88) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_8 (None, 14, 14, 88) 9944 activation\_120[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 14, 14, 88) 8536 activation\_122[0][0]

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separable\_conv\_2\_normal\_left2\_8 (None, 14, 14, 88) 9944 activation\_124[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 14, 14, 88) 8536 activation\_126[0][0]

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separable\_conv\_2\_normal\_left5\_8 (None, 14, 14, 88) 8536 activation\_128[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left1\_8[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right1\_8[

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left2\_8[0

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separable\_conv\_2\_bn\_normal\_righ (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_right2\_8[

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normal\_left3\_8 (AveragePooling2 (None, 14, 14, 88) 0 normal\_bn\_1\_8[0][0]

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normal\_left4\_8 (AveragePooling2 (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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normal\_right4\_8 (AveragePooling (None, 14, 14, 88) 0 adjust\_bn\_8[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 14, 14, 88) 352 separable\_conv\_2\_normal\_left5\_8[0

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normal\_add\_1\_8 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_8 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_8 (Add) (None, 14, 14, 88) 0 normal\_left3\_8[0][0]

adjust\_bn\_8[0][0]

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normal\_add\_4\_8 (Add) (None, 14, 14, 88) 0 normal\_left4\_8[0][0]

normal\_right4\_8[0][0]

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normal\_add\_5\_8 (Add) (None, 14, 14, 88) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_8[0][0]

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normal\_concat\_8 (Concatenate) (None, 14, 14, 528) 0 adjust\_bn\_8[0][0]

normal\_add\_1\_8[0][0]

normal\_add\_2\_8[0][0]

normal\_add\_3\_8[0][0]

normal\_add\_4\_8[0][0]

normal\_add\_5\_8[0][0]

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activation\_130 (Activation) (None, 14, 14, 528) 0 normal\_concat\_8[0][0]

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activation\_129 (Activation) (None, 14, 14, 528) 0 normal\_concat\_7[0][0]

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reduction\_conv\_1\_reduce\_8 (Conv (None, 14, 14, 176) 92928 activation\_130[0][0]

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adjust\_conv\_projection\_reduce\_8 (None, 14, 14, 176) 92928 activation\_129[0][0]

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reduction\_bn\_1\_reduce\_8 (BatchN (None, 14, 14, 176) 704 reduction\_conv\_1\_reduce\_8[0][0]

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adjust\_bn\_reduce\_8 (BatchNormal (None, 14, 14, 176) 704 adjust\_conv\_projection\_reduce\_8[0

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activation\_131 (Activation) (None, 14, 14, 176) 0 reduction\_bn\_1\_reduce\_8[0][0]

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activation\_133 (Activation) (None, 14, 14, 176) 0 adjust\_bn\_reduce\_8[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 17, 17, 176) 0 activation\_131[0][0]

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separable\_conv\_1\_pad\_reduction\_ (None, 19, 19, 176) 0 activation\_133[0][0]

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separable\_conv\_1\_reduction\_left (None, 7, 7, 176) 35376 separable\_conv\_1\_pad\_reduction\_le

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separable\_conv\_1\_reduction\_righ (None, 7, 7, 176) 39600 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_left1\_

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separable\_conv\_1\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_right1

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activation\_132 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_lef

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activation\_134 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_2\_reduction\_left (None, 7, 7, 176) 35376 activation\_132[0][0]

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separable\_conv\_2\_reduction\_righ (None, 7, 7, 176) 39600 activation\_134[0][0]

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activation\_135 (Activation) (None, 14, 14, 176) 0 adjust\_bn\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_left1\_

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separable\_conv\_2\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_right1

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separable\_conv\_1\_pad\_reduction\_ (None, 19, 19, 176) 0 activation\_135[0][0]

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activation\_137 (Activation) (None, 14, 14, 176) 0 adjust\_bn\_reduce\_8[0][0]

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reduction\_add\_1\_reduce\_8 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_reduction\_lef

separable\_conv\_2\_bn\_reduction\_rig

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separable\_conv\_1\_reduction\_righ (None, 7, 7, 176) 39600 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_pad\_reduction\_ (None, 17, 17, 176) 0 activation\_137[0][0]

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activation\_139 (Activation) (None, 7, 7, 176) 0 reduction\_add\_1\_reduce\_8[0][0]

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separable\_conv\_1\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_right2

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separable\_conv\_1\_reduction\_righ (None, 7, 7, 176) 35376 separable\_conv\_1\_pad\_reduction\_ri

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separable\_conv\_1\_reduction\_left (None, 7, 7, 176) 32560 activation\_139[0][0]

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activation\_136 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_rig

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separable\_conv\_1\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_right3

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separable\_conv\_1\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_1\_reduction\_left4\_

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reduction\_pad\_1\_reduce\_8 (ZeroP (None, 15, 15, 176) 0 reduction\_bn\_1\_reduce\_8[0][0]

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separable\_conv\_2\_reduction\_righ (None, 7, 7, 176) 39600 activation\_136[0][0]

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activation\_138 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_rig

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activation\_140 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_reduction\_lef

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reduction\_left2\_reduce\_8 (MaxPo (None, 7, 7, 176) 0 reduction\_pad\_1\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_right2

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separable\_conv\_2\_reduction\_righ (None, 7, 7, 176) 35376 activation\_138[0][0]

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separable\_conv\_2\_reduction\_left (None, 7, 7, 176) 32560 activation\_140[0][0]

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adjust\_relu\_1\_9 (Activation) (None, 14, 14, 528) 0 normal\_concat\_8[0][0]

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reduction\_add\_2\_reduce\_8 (Add) (None, 7, 7, 176) 0 reduction\_left2\_reduce\_8[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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reduction\_left3\_reduce\_8 (Avera (None, 7, 7, 176) 0 reduction\_pad\_1\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_r (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_right3

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reduction\_left4\_reduce\_8 (Avera (None, 7, 7, 176) 0 reduction\_add\_1\_reduce\_8[0][0]

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separable\_conv\_2\_bn\_reduction\_l (None, 7, 7, 176) 704 separable\_conv\_2\_reduction\_left4\_

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reduction\_right5\_reduce\_8 (MaxP (None, 7, 7, 176) 0 reduction\_pad\_1\_reduce\_8[0][0]

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zero\_padding2d\_4 (ZeroPadding2D (None, 15, 15, 528) 0 adjust\_relu\_1\_9[0][0]

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reduction\_add3\_reduce\_8 (Add) (None, 7, 7, 176) 0 reduction\_left3\_reduce\_8[0][0]

separable\_conv\_2\_bn\_reduction\_rig

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add\_4 (Add) (None, 7, 7, 176) 0 reduction\_add\_2\_reduce\_8[0][0]

reduction\_left4\_reduce\_8[0][0]

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reduction\_add4\_reduce\_8 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_reduction\_lef

reduction\_right5\_reduce\_8[0][0]

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cropping2d\_4 (Cropping2D) (None, 14, 14, 528) 0 zero\_padding2d\_4[0][0]

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reduction\_concat\_reduce\_8 (Conc (None, 7, 7, 704) 0 reduction\_add\_2\_reduce\_8[0][0]

reduction\_add3\_reduce\_8[0][0]

add\_4[0][0]

reduction\_add4\_reduce\_8[0][0]

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adjust\_avg\_pool\_1\_9 (AveragePoo (None, 7, 7, 528) 0 adjust\_relu\_1\_9[0][0]

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adjust\_avg\_pool\_2\_9 (AveragePoo (None, 7, 7, 528) 0 cropping2d\_4[0][0]

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adjust\_conv\_1\_9 (Conv2D) (None, 7, 7, 88) 46464 adjust\_avg\_pool\_1\_9[0][0]

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adjust\_conv\_2\_9 (Conv2D) (None, 7, 7, 88) 46464 adjust\_avg\_pool\_2\_9[0][0]

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activation\_141 (Activation) (None, 7, 7, 704) 0 reduction\_concat\_reduce\_8[0][0]

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concatenate\_4 (Concatenate) (None, 7, 7, 176) 0 adjust\_conv\_1\_9[0][0]

adjust\_conv\_2\_9[0][0]

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normal\_conv\_1\_9 (Conv2D) (None, 7, 7, 176) 123904 activation\_141[0][0]

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adjust\_bn\_9 (BatchNormalization (None, 7, 7, 176) 704 concatenate\_4[0][0]

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normal\_bn\_1\_9 (BatchNormalizati (None, 7, 7, 176) 704 normal\_conv\_1\_9[0][0]

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activation\_142 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_9[0][0]

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activation\_144 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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activation\_146 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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activation\_148 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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activation\_150 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_9[0][0]

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separable\_conv\_1\_normal\_left1\_9 (None, 7, 7, 176) 35376 activation\_142[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_144[0][0]

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separable\_conv\_1\_normal\_left2\_9 (None, 7, 7, 176) 35376 activation\_146[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_148[0][0]

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separable\_conv\_1\_normal\_left5\_9 (None, 7, 7, 176) 32560 activation\_150[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_9[0

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_9[

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_9[0

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_9[

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_9[0

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activation\_143 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_145 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_147 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_149 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_151 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_9 (None, 7, 7, 176) 35376 activation\_143[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_145[0][0]

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separable\_conv\_2\_normal\_left2\_9 (None, 7, 7, 176) 35376 activation\_147[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_149[0][0]

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separable\_conv\_2\_normal\_left5\_9 (None, 7, 7, 176) 32560 activation\_151[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_9[0

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_9[

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_9[0

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_9[

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normal\_left3\_9 (AveragePooling2 (None, 7, 7, 176) 0 normal\_bn\_1\_9[0][0]

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normal\_left4\_9 (AveragePooling2 (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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normal\_right4\_9 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_9[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_9[0

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normal\_add\_1\_9 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_9 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_9 (Add) (None, 7, 7, 176) 0 normal\_left3\_9[0][0]

adjust\_bn\_9[0][0]

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normal\_add\_4\_9 (Add) (None, 7, 7, 176) 0 normal\_left4\_9[0][0]

normal\_right4\_9[0][0]

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normal\_add\_5\_9 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_9[0][0]

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normal\_concat\_9 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_9[0][0]

normal\_add\_1\_9[0][0]

normal\_add\_2\_9[0][0]

normal\_add\_3\_9[0][0]

normal\_add\_4\_9[0][0]

normal\_add\_5\_9[0][0]

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activation\_152 (Activation) (None, 7, 7, 704) 0 reduction\_concat\_reduce\_8[0][0]

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activation\_153 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_9[0][0]

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adjust\_conv\_projection\_10 (Conv (None, 7, 7, 176) 123904 activation\_152[0][0]

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normal\_conv\_1\_10 (Conv2D) (None, 7, 7, 176) 185856 activation\_153[0][0]

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adjust\_bn\_10 (BatchNormalizatio (None, 7, 7, 176) 704 adjust\_conv\_projection\_10[0][0]

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normal\_bn\_1\_10 (BatchNormalizat (None, 7, 7, 176) 704 normal\_conv\_1\_10[0][0]

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activation\_154 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_10[0][0]

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activation\_156 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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activation\_158 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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activation\_160 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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activation\_162 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_10[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_154[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_156[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_158[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_160[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_162[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_10[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_10

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_10[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_10

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_10[

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activation\_155 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_157 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_159 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_161 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_163 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_155[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_157[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_159[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_161[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_163[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_10[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_10

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_10[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_10

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normal\_left3\_10 (AveragePooling (None, 7, 7, 176) 0 normal\_bn\_1\_10[0][0]

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normal\_left4\_10 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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normal\_right4\_10 (AveragePoolin (None, 7, 7, 176) 0 adjust\_bn\_10[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_10[

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normal\_add\_1\_10 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_10 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_10 (Add) (None, 7, 7, 176) 0 normal\_left3\_10[0][0]

adjust\_bn\_10[0][0]

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normal\_add\_4\_10 (Add) (None, 7, 7, 176) 0 normal\_left4\_10[0][0]

normal\_right4\_10[0][0]

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normal\_add\_5\_10 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_10[0][0]

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normal\_concat\_10 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_10[0][0]

normal\_add\_1\_10[0][0]

normal\_add\_2\_10[0][0]

normal\_add\_3\_10[0][0]

normal\_add\_4\_10[0][0]

normal\_add\_5\_10[0][0]

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activation\_164 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_9[0][0]

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activation\_165 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_10[0][0]

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adjust\_conv\_projection\_11 (Conv (None, 7, 7, 176) 185856 activation\_164[0][0]

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normal\_conv\_1\_11 (Conv2D) (None, 7, 7, 176) 185856 activation\_165[0][0]

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adjust\_bn\_11 (BatchNormalizatio (None, 7, 7, 176) 704 adjust\_conv\_projection\_11[0][0]

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normal\_bn\_1\_11 (BatchNormalizat (None, 7, 7, 176) 704 normal\_conv\_1\_11[0][0]

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activation\_166 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_11[0][0]

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activation\_168 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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activation\_170 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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activation\_172 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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activation\_174 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_11[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_166[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_168[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_170[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_172[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_174[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_11[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_11

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_11[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_11

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_11[

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activation\_167 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_169 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_171 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_173 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_175 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_167[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_169[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_171[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_173[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_175[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_11[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_11

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_11[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_11

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normal\_left3\_11 (AveragePooling (None, 7, 7, 176) 0 normal\_bn\_1\_11[0][0]

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normal\_left4\_11 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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normal\_right4\_11 (AveragePoolin (None, 7, 7, 176) 0 adjust\_bn\_11[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_11[

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normal\_add\_1\_11 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_11 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_11 (Add) (None, 7, 7, 176) 0 normal\_left3\_11[0][0]

adjust\_bn\_11[0][0]

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normal\_add\_4\_11 (Add) (None, 7, 7, 176) 0 normal\_left4\_11[0][0]

normal\_right4\_11[0][0]

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normal\_add\_5\_11 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_11[0][0]

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normal\_concat\_11 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_11[0][0]

normal\_add\_1\_11[0][0]

normal\_add\_2\_11[0][0]

normal\_add\_3\_11[0][0]

normal\_add\_4\_11[0][0]

normal\_add\_5\_11[0][0]

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activation\_176 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_10[0][0]

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activation\_177 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_11[0][0]

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adjust\_conv\_projection\_12 (Conv (None, 7, 7, 176) 185856 activation\_176[0][0]

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normal\_conv\_1\_12 (Conv2D) (None, 7, 7, 176) 185856 activation\_177[0][0]

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adjust\_bn\_12 (BatchNormalizatio (None, 7, 7, 176) 704 adjust\_conv\_projection\_12[0][0]

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normal\_bn\_1\_12 (BatchNormalizat (None, 7, 7, 176) 704 normal\_conv\_1\_12[0][0]

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activation\_178 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_12[0][0]

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activation\_180 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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activation\_182 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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activation\_184 (Activation) (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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activation\_186 (Activation) (None, 7, 7, 176) 0 normal\_bn\_1\_12[0][0]

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separable\_conv\_1\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_178[0][0]

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separable\_conv\_1\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_180[0][0]

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separable\_conv\_1\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_182[0][0]

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separable\_conv\_1\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_184[0][0]

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separable\_conv\_1\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_186[0][0]

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left1\_12[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right1\_12

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left2\_12[

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separable\_conv\_1\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_right2\_12

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separable\_conv\_1\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_1\_normal\_left5\_12[

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activation\_179 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left1\_

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activation\_181 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right1

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activation\_183 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left2\_

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activation\_185 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_right2

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activation\_187 (Activation) (None, 7, 7, 176) 0 separable\_conv\_1\_bn\_normal\_left5\_

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separable\_conv\_2\_normal\_left1\_1 (None, 7, 7, 176) 35376 activation\_179[0][0]

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separable\_conv\_2\_normal\_right1\_ (None, 7, 7, 176) 32560 activation\_181[0][0]

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separable\_conv\_2\_normal\_left2\_1 (None, 7, 7, 176) 35376 activation\_183[0][0]

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separable\_conv\_2\_normal\_right2\_ (None, 7, 7, 176) 32560 activation\_185[0][0]

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separable\_conv\_2\_normal\_left5\_1 (None, 7, 7, 176) 32560 activation\_187[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left1\_12[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right1\_12

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left2\_12[

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separable\_conv\_2\_bn\_normal\_righ (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_right2\_12

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normal\_left3\_12 (AveragePooling (None, 7, 7, 176) 0 normal\_bn\_1\_12[0][0]

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normal\_left4\_12 (AveragePooling (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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normal\_right4\_12 (AveragePoolin (None, 7, 7, 176) 0 adjust\_bn\_12[0][0]

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separable\_conv\_2\_bn\_normal\_left (None, 7, 7, 176) 704 separable\_conv\_2\_normal\_left5\_12[

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normal\_add\_1\_12 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left1\_

separable\_conv\_2\_bn\_normal\_right1

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normal\_add\_2\_12 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left2\_

separable\_conv\_2\_bn\_normal\_right2

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normal\_add\_3\_12 (Add) (None, 7, 7, 176) 0 normal\_left3\_12[0][0]

adjust\_bn\_12[0][0]

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normal\_add\_4\_12 (Add) (None, 7, 7, 176) 0 normal\_left4\_12[0][0]

normal\_right4\_12[0][0]

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normal\_add\_5\_12 (Add) (None, 7, 7, 176) 0 separable\_conv\_2\_bn\_normal\_left5\_

normal\_bn\_1\_12[0][0]

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normal\_concat\_12 (Concatenate) (None, 7, 7, 1056) 0 adjust\_bn\_12[0][0]

normal\_add\_1\_12[0][0]

normal\_add\_2\_12[0][0]

normal\_add\_3\_12[0][0]

normal\_add\_4\_12[0][0]

normal\_add\_5\_12[0][0]

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activation\_188 (Activation) (None, 7, 7, 1056) 0 normal\_concat\_12[0][0]

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global\_average\_pooling2d\_1 (Glo (None, 1056) 0 activation\_188[0][0]

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dense\_1 (Dense) (None, 512) 541184 global\_average\_pooling2d\_1[0][0]

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dropout\_1 (Dropout) (None, 512) 0 dense\_1[0][0]

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dense\_2 (Dense) (None, 256) 131328 dropout\_1[0][0]

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dropout\_2 (Dropout) (None, 256) 0 dense\_2[0][0]

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dense\_3 (Dense) (None, 256) 65792 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, 128) 32896 dropout\_3[0][0]

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dense\_5 (Dense) (None, 24) 3096 dense\_4[0][0]

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Total params: 5,044,012

Trainable params: 5,007,274

Non-trainable params: 36,738

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Epoch 1/30

414/414 [==============================] - 350s 845ms/step - loss: 0.7441 - acc: 0.7522 - val\_loss: 3.6781 - val\_acc: 0.2577

Epoch 2/30

414/414 [==============================] - 315s 761ms/step - loss: 0.2738 - acc: 0.9302 - val\_loss: 5.0223 - val\_acc: 0.4013

Epoch 3/30

414/414 [==============================] - 318s 769ms/step - loss: 0.1597 - acc: 0.9640 - val\_loss: 6.1639 - val\_acc: 0.2683

Epoch 4/30

414/414 [==============================] - 321s 776ms/step - loss: 0.1046 - acc: 0.9771 - val\_loss: 2.7608 - val\_acc: 0.5604

Epoch 5/30

414/414 [==============================] - 320s 772ms/step - loss: 0.1187 - acc: 0.9749 - val\_loss: 4.0543 - val\_acc: 0.4584

Epoch 6/30

414/414 [==============================] - 321s 776ms/step - loss: 0.1050 - acc: 0.9782 - val\_loss: 4.6523 - val\_acc: 0.4981

Epoch 00006: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.

Epoch 7/30

414/414 [==============================] - 318s 769ms/step - loss: 0.0194 - acc: 0.9957 - val\_loss: 2.8044 - val\_acc: 0.6640

Epoch 8/30

414/414 [==============================] - 309s 746ms/step - loss: 0.0119 - acc: 0.9974 - val\_loss: 1.7204 - val\_acc: 0.7704

Epoch 9/30

414/414 [==============================] - 309s 745ms/step - loss: 0.0073 - acc: 0.9984 - val\_loss: 1.5306 - val\_acc: 0.8046

Epoch 10/30

414/414 [==============================] - 319s 770ms/step - loss: 0.0106 - acc: 0.9977 - val\_loss: 1.4535 - val\_acc: 0.8084

Epoch 11/30

414/414 [==============================] - 312s 754ms/step - loss: 0.0135 - acc: 0.9972 - val\_loss: 1.1948 - val\_acc: 0.8292

Epoch 12/30

414/414 [==============================] - 309s 746ms/step - loss: 0.0087 - acc: 0.9984 - val\_loss: 2.0093 - val\_acc: 0.7648

Epoch 13/30

414/414 [==============================] - 309s 747ms/step - loss: 0.0095 - acc: 0.9980 - val\_loss: 1.5587 - val\_acc: 0.8060

Epoch 00013: ReduceLROnPlateau reducing learning rate to 4.0000001899898055e-05.

Epoch 14/30

414/414 [==============================] - 308s 743ms/step - loss: 0.0066 - acc: 0.9989 - val\_loss: 1.2791 - val\_acc: 0.8281

Epoch 15/30

414/414 [==============================] - 307s 741ms/step - loss: 0.0043 - acc: 0.9994 - val\_loss: 1.1214 - val\_acc: 0.8419

Epoch 16/30

414/414 [==============================] - 316s 764ms/step - loss: 0.0027 - acc: 0.9995 - val\_loss: 1.0647 - val\_acc: 0.8503

Epoch 17/30

414/414 [==============================] - 315s 761ms/step - loss: 0.0030 - acc: 0.9993 - val\_loss: 1.0800 - val\_acc: 0.8485

Epoch 18/30

414/414 [==============================] - 321s 776ms/step - loss: 0.0035 - acc: 0.9993 - val\_loss: 1.0394 - val\_acc: 0.8526

Epoch 19/30

414/414 [==============================] - 315s 762ms/step - loss: 0.0030 - acc: 0.9992 - val\_loss: 1.0312 - val\_acc: 0.8514

Epoch 20/30

414/414 [==============================] - 340s 822ms/step - loss: 0.0024 - acc: 0.9994 - val\_loss: 1.0547 - val\_acc: 0.8559

Epoch 21/30

414/414 [==============================] - 328s 791ms/step - loss: 0.0027 - acc: 0.9994 - val\_loss: 1.0261 - val\_acc: 0.8492

Epoch 22/30

414/414 [==============================] - 323s 780ms/step - loss: 0.0034 - acc: 0.9994 - val\_loss: 0.9819 - val\_acc: 0.8630

Epoch 23/30

414/414 [==============================] - 329s 794ms/step - loss: 0.0030 - acc: 0.9993 - val\_loss: 1.0220 - val\_acc: 0.8588

Epoch 24/30

414/414 [==============================] - 326s 788ms/step - loss: 0.0027 - acc: 0.9994 - val\_loss: 0.9957 - val\_acc: 0.8572

Epoch 00024: ReduceLROnPlateau reducing learning rate to 8.000000525498762e-06.

Epoch 25/30

414/414 [==============================] - 335s 810ms/step - loss: 0.0050 - acc: 0.9992 - val\_loss: 0.9782 - val\_acc: 0.8555

Epoch 26/30

414/414 [==============================] - 324s 784ms/step - loss: 0.0018 - acc: 0.9996 - val\_loss: 0.9952 - val\_acc: 0.8559

Epoch 00026: ReduceLROnPlateau reducing learning rate to 1.6000001778593287e-06.

Epoch 27/30

414/414 [==============================] - 323s 780ms/step - loss: 0.0018 - acc: 0.9995 - val\_loss: 0.9865 - val\_acc: 0.8560

Epoch 28/30

414/414 [==============================] - 330s 798ms/step - loss: 0.0019 - acc: 0.9997 - val\_loss: 0.9728 - val\_acc: 0.8570

Epoch 00028: ReduceLROnPlateau reducing learning rate to 3.200000264769187e-07.

Epoch 29/30

414/414 [==============================] - 320s 774ms/step - loss: 0.0023 - acc: 0.9995 - val\_loss: 0.9744 - val\_acc: 0.8571

Epoch 30/30

414/414 [==============================] - 329s 794ms/step - loss: 0.0023 - acc: 0.9996 - val\_loss: 0.9622 - val\_acc: 0.8585

Epoch 00030: ReduceLROnPlateau reducing learning rate to 6.400000529538374e-08.

run: =

Found 240 images belonging to 24 classes.

loss: 1544.65%

acc: 4.17%

Took 2 seconds to evaluate this set.

Took 5 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

19 19 19 19 19 19 19 19 20 20 20 20 20 20 20 20 20 20 21 21 21 21 21 21

21 21 21 21 22 22 22 22 22 22 22 22 22 22 23 23 23 23 23 23 23 23 23 23] = [11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11

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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 0.04 1.00 0.08 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 0.00 0.00 0.00 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

c:\r\transfer learning>