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

Layer (type) Output Shape Param # Connected to

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

input\_4 (InputLayer) [(None, 224, 224, 3 0 []

)]

conv2d\_391 (Conv2D) (None, 111, 111, 32 864 ['input\_4[0][0]']

)

batch\_normalization\_391 (Batch (None, 111, 111, 32 96 ['conv2d\_391[0][0]']

Normalization) )

activation\_391 (Activation) (None, 111, 111, 32 0 ['batch\_normalization\_391[0][0]']

)

conv2d\_392 (Conv2D) (None, 109, 109, 32 9216 ['activation\_391[0][0]']

)

batch\_normalization\_392 (Batch (None, 109, 109, 32 96 ['conv2d\_392[0][0]']

Normalization) )

activation\_392 (Activation) (None, 109, 109, 32 0 ['batch\_normalization\_392[0][0]']

)

conv2d\_393 (Conv2D) (None, 109, 109, 64 18432 ['activation\_392[0][0]']

)

batch\_normalization\_393 (Batch (None, 109, 109, 64 192 ['conv2d\_393[0][0]']

Normalization) )

activation\_393 (Activation) (None, 109, 109, 64 0 ['batch\_normalization\_393[0][0]']

)

max\_pooling2d\_12 (MaxPooling2D (None, 54, 54, 64) 0 ['activation\_393[0][0]']

)

conv2d\_394 (Conv2D) (None, 54, 54, 80) 5120 ['max\_pooling2d\_12[0][0]']

batch\_normalization\_394 (Batch (None, 54, 54, 80) 240 ['conv2d\_394[0][0]']

Normalization)

activation\_394 (Activation) (None, 54, 54, 80) 0 ['batch\_normalization\_394[0][0]']

conv2d\_395 (Conv2D) (None, 52, 52, 192) 138240 ['activation\_394[0][0]']

batch\_normalization\_395 (Batch (None, 52, 52, 192) 576 ['conv2d\_395[0][0]']

Normalization)

activation\_395 (Activation) (None, 52, 52, 192) 0 ['batch\_normalization\_395[0][0]']

max\_pooling2d\_13 (MaxPooling2D (None, 25, 25, 192) 0 ['activation\_395[0][0]']

)

conv2d\_399 (Conv2D) (None, 25, 25, 64) 12288 ['max\_pooling2d\_13[0][0]']

batch\_normalization\_399 (Batch (None, 25, 25, 64) 192 ['conv2d\_399[0][0]']

Normalization)

activation\_399 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_399[0][0]']

conv2d\_397 (Conv2D) (None, 25, 25, 48) 9216 ['max\_pooling2d\_13[0][0]']

conv2d\_400 (Conv2D) (None, 25, 25, 96) 55296 ['activation\_399[0][0]']

batch\_normalization\_397 (Batch (None, 25, 25, 48) 144 ['conv2d\_397[0][0]']

Normalization)

batch\_normalization\_400 (Batch (None, 25, 25, 96) 288 ['conv2d\_400[0][0]']

Normalization)

activation\_397 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_397[0][0]']

activation\_400 (Activation) (None, 25, 25, 96) 0 ['batch\_normalization\_400[0][0]']

average\_pooling2d\_19 (AverageP (None, 25, 25, 192) 0 ['max\_pooling2d\_13[0][0]']

ooling2D)

conv2d\_396 (Conv2D) (None, 25, 25, 96) 18432 ['max\_pooling2d\_13[0][0]']

conv2d\_398 (Conv2D) (None, 25, 25, 64) 76800 ['activation\_397[0][0]']

conv2d\_401 (Conv2D) (None, 25, 25, 96) 82944 ['activation\_400[0][0]']

conv2d\_402 (Conv2D) (None, 25, 25, 64) 12288 ['average\_pooling2d\_19[0][0]']

batch\_normalization\_396 (Batch (None, 25, 25, 96) 288 ['conv2d\_396[0][0]']

Normalization)

batch\_normalization\_398 (Batch (None, 25, 25, 64) 192 ['conv2d\_398[0][0]']

Normalization)

batch\_normalization\_401 (Batch (None, 25, 25, 96) 288 ['conv2d\_401[0][0]']

Normalization)

batch\_normalization\_402 (Batch (None, 25, 25, 64) 192 ['conv2d\_402[0][0]']

Normalization)

activation\_396 (Activation) (None, 25, 25, 96) 0 ['batch\_normalization\_396[0][0]']

activation\_398 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_398[0][0]']

activation\_401 (Activation) (None, 25, 25, 96) 0 ['batch\_normalization\_401[0][0]']

activation\_402 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_402[0][0]']

mixed\_5b (Concatenate) (None, 25, 25, 320) 0 ['activation\_396[0][0]',

'activation\_398[0][0]',

'activation\_401[0][0]',

'activation\_402[0][0]']

conv2d\_406 (Conv2D) (None, 25, 25, 32) 10240 ['mixed\_5b[0][0]']

batch\_normalization\_406 (Batch (None, 25, 25, 32) 96 ['conv2d\_406[0][0]']

Normalization)

activation\_406 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_406[0][0]']

conv2d\_404 (Conv2D) (None, 25, 25, 32) 10240 ['mixed\_5b[0][0]']

conv2d\_407 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_406[0][0]']

batch\_normalization\_404 (Batch (None, 25, 25, 32) 96 ['conv2d\_404[0][0]']

Normalization)

batch\_normalization\_407 (Batch (None, 25, 25, 48) 144 ['conv2d\_407[0][0]']

Normalization)

activation\_404 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_404[0][0]']

activation\_407 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_407[0][0]']

conv2d\_403 (Conv2D) (None, 25, 25, 32) 10240 ['mixed\_5b[0][0]']

conv2d\_405 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_404[0][0]']

conv2d\_408 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_407[0][0]']

batch\_normalization\_403 (Batch (None, 25, 25, 32) 96 ['conv2d\_403[0][0]']

Normalization)

batch\_normalization\_405 (Batch (None, 25, 25, 32) 96 ['conv2d\_405[0][0]']

Normalization)

batch\_normalization\_408 (Batch (None, 25, 25, 64) 192 ['conv2d\_408[0][0]']

Normalization)

activation\_403 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_403[0][0]']

activation\_405 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_405[0][0]']

activation\_408 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_408[0][0]']

block35\_1\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_403[0][0]',

'activation\_405[0][0]',

'activation\_408[0][0]']

block35\_1\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_1\_mixed[0][0]']

block35\_1 (Lambda) (None, 25, 25, 320) 0 ['mixed\_5b[0][0]',

'block35\_1\_conv[0][0]']

block35\_1\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_1[0][0]']

conv2d\_412 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_1\_ac[0][0]']

batch\_normalization\_412 (Batch (None, 25, 25, 32) 96 ['conv2d\_412[0][0]']

Normalization)

activation\_412 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_412[0][0]']

conv2d\_410 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_1\_ac[0][0]']

conv2d\_413 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_412[0][0]']

batch\_normalization\_410 (Batch (None, 25, 25, 32) 96 ['conv2d\_410[0][0]']

Normalization)

batch\_normalization\_413 (Batch (None, 25, 25, 48) 144 ['conv2d\_413[0][0]']

Normalization)

activation\_410 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_410[0][0]']

activation\_413 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_413[0][0]']

conv2d\_409 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_1\_ac[0][0]']

conv2d\_411 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_410[0][0]']

conv2d\_414 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_413[0][0]']

batch\_normalization\_409 (Batch (None, 25, 25, 32) 96 ['conv2d\_409[0][0]']

Normalization)

batch\_normalization\_411 (Batch (None, 25, 25, 32) 96 ['conv2d\_411[0][0]']

Normalization)

batch\_normalization\_414 (Batch (None, 25, 25, 64) 192 ['conv2d\_414[0][0]']

Normalization)

activation\_409 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_409[0][0]']

activation\_411 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_411[0][0]']

activation\_414 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_414[0][0]']

block35\_2\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_409[0][0]',

'activation\_411[0][0]',

'activation\_414[0][0]']

block35\_2\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_2\_mixed[0][0]']

block35\_2 (Lambda) (None, 25, 25, 320) 0 ['block35\_1\_ac[0][0]',

'block35\_2\_conv[0][0]']

block35\_2\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_2[0][0]']

conv2d\_418 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_2\_ac[0][0]']

batch\_normalization\_418 (Batch (None, 25, 25, 32) 96 ['conv2d\_418[0][0]']

Normalization)

activation\_418 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_418[0][0]']

conv2d\_416 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_2\_ac[0][0]']

conv2d\_419 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_418[0][0]']

batch\_normalization\_416 (Batch (None, 25, 25, 32) 96 ['conv2d\_416[0][0]']

Normalization)

batch\_normalization\_419 (Batch (None, 25, 25, 48) 144 ['conv2d\_419[0][0]']

Normalization)

activation\_416 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_416[0][0]']

activation\_419 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_419[0][0]']

conv2d\_415 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_2\_ac[0][0]']

conv2d\_417 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_416[0][0]']

conv2d\_420 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_419[0][0]']

batch\_normalization\_415 (Batch (None, 25, 25, 32) 96 ['conv2d\_415[0][0]']

Normalization)

batch\_normalization\_417 (Batch (None, 25, 25, 32) 96 ['conv2d\_417[0][0]']

Normalization)

batch\_normalization\_420 (Batch (None, 25, 25, 64) 192 ['conv2d\_420[0][0]']

Normalization)

activation\_415 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_415[0][0]']

activation\_417 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_417[0][0]']

activation\_420 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_420[0][0]']

block35\_3\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_415[0][0]',

'activation\_417[0][0]',

'activation\_420[0][0]']

block35\_3\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_3\_mixed[0][0]']

block35\_3 (Lambda) (None, 25, 25, 320) 0 ['block35\_2\_ac[0][0]',

'block35\_3\_conv[0][0]']

block35\_3\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_3[0][0]']

conv2d\_424 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_3\_ac[0][0]']

batch\_normalization\_424 (Batch (None, 25, 25, 32) 96 ['conv2d\_424[0][0]']

Normalization)

activation\_424 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_424[0][0]']

conv2d\_422 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_3\_ac[0][0]']

conv2d\_425 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_424[0][0]']

batch\_normalization\_422 (Batch (None, 25, 25, 32) 96 ['conv2d\_422[0][0]']

Normalization)

batch\_normalization\_425 (Batch (None, 25, 25, 48) 144 ['conv2d\_425[0][0]']

Normalization)

activation\_422 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_422[0][0]']

activation\_425 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_425[0][0]']

conv2d\_421 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_3\_ac[0][0]']

conv2d\_423 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_422[0][0]']

conv2d\_426 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_425[0][0]']

batch\_normalization\_421 (Batch (None, 25, 25, 32) 96 ['conv2d\_421[0][0]']

Normalization)

batch\_normalization\_423 (Batch (None, 25, 25, 32) 96 ['conv2d\_423[0][0]']

Normalization)

batch\_normalization\_426 (Batch (None, 25, 25, 64) 192 ['conv2d\_426[0][0]']

Normalization)

activation\_421 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_421[0][0]']

activation\_423 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_423[0][0]']

activation\_426 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_426[0][0]']

block35\_4\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_421[0][0]',

'activation\_423[0][0]',

'activation\_426[0][0]']

block35\_4\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_4\_mixed[0][0]']

block35\_4 (Lambda) (None, 25, 25, 320) 0 ['block35\_3\_ac[0][0]',

'block35\_4\_conv[0][0]']

block35\_4\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_4[0][0]']

conv2d\_430 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_4\_ac[0][0]']

batch\_normalization\_430 (Batch (None, 25, 25, 32) 96 ['conv2d\_430[0][0]']

Normalization)

activation\_430 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_430[0][0]']

conv2d\_428 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_4\_ac[0][0]']

conv2d\_431 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_430[0][0]']

batch\_normalization\_428 (Batch (None, 25, 25, 32) 96 ['conv2d\_428[0][0]']

Normalization)

batch\_normalization\_431 (Batch (None, 25, 25, 48) 144 ['conv2d\_431[0][0]']

Normalization)

activation\_428 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_428[0][0]']

activation\_431 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_431[0][0]']

conv2d\_427 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_4\_ac[0][0]']

conv2d\_429 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_428[0][0]']

conv2d\_432 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_431[0][0]']

batch\_normalization\_427 (Batch (None, 25, 25, 32) 96 ['conv2d\_427[0][0]']

Normalization)

batch\_normalization\_429 (Batch (None, 25, 25, 32) 96 ['conv2d\_429[0][0]']

Normalization)

batch\_normalization\_432 (Batch (None, 25, 25, 64) 192 ['conv2d\_432[0][0]']

Normalization)

activation\_427 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_427[0][0]']

activation\_429 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_429[0][0]']

activation\_432 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_432[0][0]']

block35\_5\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_427[0][0]',

'activation\_429[0][0]',

'activation\_432[0][0]']

block35\_5\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_5\_mixed[0][0]']

block35\_5 (Lambda) (None, 25, 25, 320) 0 ['block35\_4\_ac[0][0]',

'block35\_5\_conv[0][0]']

block35\_5\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_5[0][0]']

conv2d\_436 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_5\_ac[0][0]']

batch\_normalization\_436 (Batch (None, 25, 25, 32) 96 ['conv2d\_436[0][0]']

Normalization)

activation\_436 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_436[0][0]']

conv2d\_434 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_5\_ac[0][0]']

conv2d\_437 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_436[0][0]']

batch\_normalization\_434 (Batch (None, 25, 25, 32) 96 ['conv2d\_434[0][0]']

Normalization)

batch\_normalization\_437 (Batch (None, 25, 25, 48) 144 ['conv2d\_437[0][0]']

Normalization)

activation\_434 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_434[0][0]']

activation\_437 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_437[0][0]']

conv2d\_433 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_5\_ac[0][0]']

conv2d\_435 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_434[0][0]']

conv2d\_438 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_437[0][0]']

batch\_normalization\_433 (Batch (None, 25, 25, 32) 96 ['conv2d\_433[0][0]']

Normalization)

batch\_normalization\_435 (Batch (None, 25, 25, 32) 96 ['conv2d\_435[0][0]']

Normalization)

batch\_normalization\_438 (Batch (None, 25, 25, 64) 192 ['conv2d\_438[0][0]']

Normalization)

activation\_433 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_433[0][0]']

activation\_435 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_435[0][0]']

activation\_438 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_438[0][0]']

block35\_6\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_433[0][0]',

'activation\_435[0][0]',

'activation\_438[0][0]']

block35\_6\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_6\_mixed[0][0]']

block35\_6 (Lambda) (None, 25, 25, 320) 0 ['block35\_5\_ac[0][0]',

'block35\_6\_conv[0][0]']

block35\_6\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_6[0][0]']

conv2d\_442 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_6\_ac[0][0]']

batch\_normalization\_442 (Batch (None, 25, 25, 32) 96 ['conv2d\_442[0][0]']

Normalization)

activation\_442 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_442[0][0]']

conv2d\_440 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_6\_ac[0][0]']

conv2d\_443 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_442[0][0]']

batch\_normalization\_440 (Batch (None, 25, 25, 32) 96 ['conv2d\_440[0][0]']

Normalization)

batch\_normalization\_443 (Batch (None, 25, 25, 48) 144 ['conv2d\_443[0][0]']

Normalization)

activation\_440 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_440[0][0]']

activation\_443 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_443[0][0]']

conv2d\_439 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_6\_ac[0][0]']

conv2d\_441 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_440[0][0]']

conv2d\_444 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_443[0][0]']

batch\_normalization\_439 (Batch (None, 25, 25, 32) 96 ['conv2d\_439[0][0]']

Normalization)

batch\_normalization\_441 (Batch (None, 25, 25, 32) 96 ['conv2d\_441[0][0]']

Normalization)

batch\_normalization\_444 (Batch (None, 25, 25, 64) 192 ['conv2d\_444[0][0]']

Normalization)

activation\_439 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_439[0][0]']

activation\_441 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_441[0][0]']

activation\_444 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_444[0][0]']

block35\_7\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_439[0][0]',

'activation\_441[0][0]',

'activation\_444[0][0]']

block35\_7\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_7\_mixed[0][0]']

block35\_7 (Lambda) (None, 25, 25, 320) 0 ['block35\_6\_ac[0][0]',

'block35\_7\_conv[0][0]']

block35\_7\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_7[0][0]']

conv2d\_448 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_7\_ac[0][0]']

batch\_normalization\_448 (Batch (None, 25, 25, 32) 96 ['conv2d\_448[0][0]']

Normalization)

activation\_448 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_448[0][0]']

conv2d\_446 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_7\_ac[0][0]']

conv2d\_449 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_448[0][0]']

batch\_normalization\_446 (Batch (None, 25, 25, 32) 96 ['conv2d\_446[0][0]']

Normalization)

batch\_normalization\_449 (Batch (None, 25, 25, 48) 144 ['conv2d\_449[0][0]']

Normalization)

activation\_446 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_446[0][0]']

activation\_449 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_449[0][0]']

conv2d\_445 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_7\_ac[0][0]']

conv2d\_447 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_446[0][0]']

conv2d\_450 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_449[0][0]']

batch\_normalization\_445 (Batch (None, 25, 25, 32) 96 ['conv2d\_445[0][0]']

Normalization)

batch\_normalization\_447 (Batch (None, 25, 25, 32) 96 ['conv2d\_447[0][0]']

Normalization)

batch\_normalization\_450 (Batch (None, 25, 25, 64) 192 ['conv2d\_450[0][0]']

Normalization)

activation\_445 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_445[0][0]']

activation\_447 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_447[0][0]']

activation\_450 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_450[0][0]']

block35\_8\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_445[0][0]',

'activation\_447[0][0]',

'activation\_450[0][0]']

block35\_8\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_8\_mixed[0][0]']

block35\_8 (Lambda) (None, 25, 25, 320) 0 ['block35\_7\_ac[0][0]',

'block35\_8\_conv[0][0]']

block35\_8\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_8[0][0]']

conv2d\_454 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_8\_ac[0][0]']

batch\_normalization\_454 (Batch (None, 25, 25, 32) 96 ['conv2d\_454[0][0]']

Normalization)

activation\_454 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_454[0][0]']

conv2d\_452 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_8\_ac[0][0]']

conv2d\_455 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_454[0][0]']

batch\_normalization\_452 (Batch (None, 25, 25, 32) 96 ['conv2d\_452[0][0]']

Normalization)

batch\_normalization\_455 (Batch (None, 25, 25, 48) 144 ['conv2d\_455[0][0]']

Normalization)

activation\_452 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_452[0][0]']

activation\_455 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_455[0][0]']

conv2d\_451 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_8\_ac[0][0]']

conv2d\_453 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_452[0][0]']

conv2d\_456 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_455[0][0]']

batch\_normalization\_451 (Batch (None, 25, 25, 32) 96 ['conv2d\_451[0][0]']

Normalization)

batch\_normalization\_453 (Batch (None, 25, 25, 32) 96 ['conv2d\_453[0][0]']

Normalization)

batch\_normalization\_456 (Batch (None, 25, 25, 64) 192 ['conv2d\_456[0][0]']

Normalization)

activation\_451 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_451[0][0]']

activation\_453 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_453[0][0]']

activation\_456 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_456[0][0]']

block35\_9\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_451[0][0]',

'activation\_453[0][0]',

'activation\_456[0][0]']

block35\_9\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_9\_mixed[0][0]']

block35\_9 (Lambda) (None, 25, 25, 320) 0 ['block35\_8\_ac[0][0]',

'block35\_9\_conv[0][0]']

block35\_9\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_9[0][0]']

conv2d\_460 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_9\_ac[0][0]']

batch\_normalization\_460 (Batch (None, 25, 25, 32) 96 ['conv2d\_460[0][0]']

Normalization)

activation\_460 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_460[0][0]']

conv2d\_458 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_9\_ac[0][0]']

conv2d\_461 (Conv2D) (None, 25, 25, 48) 13824 ['activation\_460[0][0]']

batch\_normalization\_458 (Batch (None, 25, 25, 32) 96 ['conv2d\_458[0][0]']

Normalization)

batch\_normalization\_461 (Batch (None, 25, 25, 48) 144 ['conv2d\_461[0][0]']

Normalization)

activation\_458 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_458[0][0]']

activation\_461 (Activation) (None, 25, 25, 48) 0 ['batch\_normalization\_461[0][0]']

conv2d\_457 (Conv2D) (None, 25, 25, 32) 10240 ['block35\_9\_ac[0][0]']

conv2d\_459 (Conv2D) (None, 25, 25, 32) 9216 ['activation\_458[0][0]']

conv2d\_462 (Conv2D) (None, 25, 25, 64) 27648 ['activation\_461[0][0]']

batch\_normalization\_457 (Batch (None, 25, 25, 32) 96 ['conv2d\_457[0][0]']

Normalization)

batch\_normalization\_459 (Batch (None, 25, 25, 32) 96 ['conv2d\_459[0][0]']

Normalization)

batch\_normalization\_462 (Batch (None, 25, 25, 64) 192 ['conv2d\_462[0][0]']

Normalization)

activation\_457 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_457[0][0]']

activation\_459 (Activation) (None, 25, 25, 32) 0 ['batch\_normalization\_459[0][0]']

activation\_462 (Activation) (None, 25, 25, 64) 0 ['batch\_normalization\_462[0][0]']

block35\_10\_mixed (Concatenate) (None, 25, 25, 128) 0 ['activation\_457[0][0]',

'activation\_459[0][0]',

'activation\_462[0][0]']

block35\_10\_conv (Conv2D) (None, 25, 25, 320) 41280 ['block35\_10\_mixed[0][0]']

block35\_10 (Lambda) (None, 25, 25, 320) 0 ['block35\_9\_ac[0][0]',

'block35\_10\_conv[0][0]']

block35\_10\_ac (Activation) (None, 25, 25, 320) 0 ['block35\_10[0][0]']

conv2d\_464 (Conv2D) (None, 25, 25, 256) 81920 ['block35\_10\_ac[0][0]']

batch\_normalization\_464 (Batch (None, 25, 25, 256) 768 ['conv2d\_464[0][0]']

Normalization)

activation\_464 (Activation) (None, 25, 25, 256) 0 ['batch\_normalization\_464[0][0]']

conv2d\_465 (Conv2D) (None, 25, 25, 256) 589824 ['activation\_464[0][0]']

batch\_normalization\_465 (Batch (None, 25, 25, 256) 768 ['conv2d\_465[0][0]']

Normalization)

activation\_465 (Activation) (None, 25, 25, 256) 0 ['batch\_normalization\_465[0][0]']

conv2d\_463 (Conv2D) (None, 12, 12, 384) 1105920 ['block35\_10\_ac[0][0]']

conv2d\_466 (Conv2D) (None, 12, 12, 384) 884736 ['activation\_465[0][0]']

batch\_normalization\_463 (Batch (None, 12, 12, 384) 1152 ['conv2d\_463[0][0]']

Normalization)

batch\_normalization\_466 (Batch (None, 12, 12, 384) 1152 ['conv2d\_466[0][0]']

Normalization)

activation\_463 (Activation) (None, 12, 12, 384) 0 ['batch\_normalization\_463[0][0]']

activation\_466 (Activation) (None, 12, 12, 384) 0 ['batch\_normalization\_466[0][0]']

max\_pooling2d\_14 (MaxPooling2D (None, 12, 12, 320) 0 ['block35\_10\_ac[0][0]']

)

mixed\_6a (Concatenate) (None, 12, 12, 1088 0 ['activation\_463[0][0]',

) 'activation\_466[0][0]',

'max\_pooling2d\_14[0][0]']

conv2d\_468 (Conv2D) (None, 12, 12, 128) 139264 ['mixed\_6a[0][0]']

batch\_normalization\_468 (Batch (None, 12, 12, 128) 384 ['conv2d\_468[0][0]']

Normalization)

activation\_468 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_468[0][0]']

conv2d\_469 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_468[0][0]']

batch\_normalization\_469 (Batch (None, 12, 12, 160) 480 ['conv2d\_469[0][0]']

Normalization)

activation\_469 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_469[0][0]']

conv2d\_467 (Conv2D) (None, 12, 12, 192) 208896 ['mixed\_6a[0][0]']

conv2d\_470 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_469[0][0]']

batch\_normalization\_467 (Batch (None, 12, 12, 192) 576 ['conv2d\_467[0][0]']

Normalization)

batch\_normalization\_470 (Batch (None, 12, 12, 192) 576 ['conv2d\_470[0][0]']

Normalization)

activation\_467 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_467[0][0]']

activation\_470 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_470[0][0]']

block17\_1\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_467[0][0]',

'activation\_470[0][0]']

block17\_1\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_1\_mixed[0][0]']

)

block17\_1 (Lambda) (None, 12, 12, 1088 0 ['mixed\_6a[0][0]',

) 'block17\_1\_conv[0][0]']

block17\_1\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_1[0][0]']

)

conv2d\_472 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_1\_ac[0][0]']

batch\_normalization\_472 (Batch (None, 12, 12, 128) 384 ['conv2d\_472[0][0]']

Normalization)

activation\_472 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_472[0][0]']

conv2d\_473 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_472[0][0]']

batch\_normalization\_473 (Batch (None, 12, 12, 160) 480 ['conv2d\_473[0][0]']

Normalization)

activation\_473 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_473[0][0]']

conv2d\_471 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_1\_ac[0][0]']

conv2d\_474 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_473[0][0]']

batch\_normalization\_471 (Batch (None, 12, 12, 192) 576 ['conv2d\_471[0][0]']

Normalization)

batch\_normalization\_474 (Batch (None, 12, 12, 192) 576 ['conv2d\_474[0][0]']

Normalization)

activation\_471 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_471[0][0]']

activation\_474 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_474[0][0]']

block17\_2\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_471[0][0]',

'activation\_474[0][0]']

block17\_2\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_2\_mixed[0][0]']

)

block17\_2 (Lambda) (None, 12, 12, 1088 0 ['block17\_1\_ac[0][0]',

) 'block17\_2\_conv[0][0]']

block17\_2\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_2[0][0]']

)

conv2d\_476 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_2\_ac[0][0]']

batch\_normalization\_476 (Batch (None, 12, 12, 128) 384 ['conv2d\_476[0][0]']

Normalization)

activation\_476 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_476[0][0]']

conv2d\_477 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_476[0][0]']

batch\_normalization\_477 (Batch (None, 12, 12, 160) 480 ['conv2d\_477[0][0]']

Normalization)

activation\_477 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_477[0][0]']

conv2d\_475 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_2\_ac[0][0]']

conv2d\_478 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_477[0][0]']

batch\_normalization\_475 (Batch (None, 12, 12, 192) 576 ['conv2d\_475[0][0]']

Normalization)

batch\_normalization\_478 (Batch (None, 12, 12, 192) 576 ['conv2d\_478[0][0]']

Normalization)

activation\_475 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_475[0][0]']

activation\_478 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_478[0][0]']

block17\_3\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_475[0][0]',

'activation\_478[0][0]']

block17\_3\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_3\_mixed[0][0]']

)

block17\_3 (Lambda) (None, 12, 12, 1088 0 ['block17\_2\_ac[0][0]',

) 'block17\_3\_conv[0][0]']

block17\_3\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_3[0][0]']

)

conv2d\_480 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_3\_ac[0][0]']

batch\_normalization\_480 (Batch (None, 12, 12, 128) 384 ['conv2d\_480[0][0]']

Normalization)

activation\_480 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_480[0][0]']

conv2d\_481 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_480[0][0]']

batch\_normalization\_481 (Batch (None, 12, 12, 160) 480 ['conv2d\_481[0][0]']

Normalization)

activation\_481 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_481[0][0]']

conv2d\_479 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_3\_ac[0][0]']

conv2d\_482 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_481[0][0]']

batch\_normalization\_479 (Batch (None, 12, 12, 192) 576 ['conv2d\_479[0][0]']

Normalization)

batch\_normalization\_482 (Batch (None, 12, 12, 192) 576 ['conv2d\_482[0][0]']

Normalization)

activation\_479 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_479[0][0]']

activation\_482 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_482[0][0]']

block17\_4\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_479[0][0]',

'activation\_482[0][0]']

block17\_4\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_4\_mixed[0][0]']

)

block17\_4 (Lambda) (None, 12, 12, 1088 0 ['block17\_3\_ac[0][0]',

) 'block17\_4\_conv[0][0]']

block17\_4\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_4[0][0]']

)

conv2d\_484 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_4\_ac[0][0]']

batch\_normalization\_484 (Batch (None, 12, 12, 128) 384 ['conv2d\_484[0][0]']

Normalization)

activation\_484 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_484[0][0]']

conv2d\_485 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_484[0][0]']

batch\_normalization\_485 (Batch (None, 12, 12, 160) 480 ['conv2d\_485[0][0]']

Normalization)

activation\_485 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_485[0][0]']

conv2d\_483 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_4\_ac[0][0]']

conv2d\_486 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_485[0][0]']

batch\_normalization\_483 (Batch (None, 12, 12, 192) 576 ['conv2d\_483[0][0]']

Normalization)

batch\_normalization\_486 (Batch (None, 12, 12, 192) 576 ['conv2d\_486[0][0]']

Normalization)

activation\_483 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_483[0][0]']

activation\_486 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_486[0][0]']

block17\_5\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_483[0][0]',

'activation\_486[0][0]']

block17\_5\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_5\_mixed[0][0]']

)

block17\_5 (Lambda) (None, 12, 12, 1088 0 ['block17\_4\_ac[0][0]',

) 'block17\_5\_conv[0][0]']

block17\_5\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_5[0][0]']

)

conv2d\_488 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_5\_ac[0][0]']

batch\_normalization\_488 (Batch (None, 12, 12, 128) 384 ['conv2d\_488[0][0]']

Normalization)

activation\_488 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_488[0][0]']

conv2d\_489 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_488[0][0]']

batch\_normalization\_489 (Batch (None, 12, 12, 160) 480 ['conv2d\_489[0][0]']

Normalization)

activation\_489 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_489[0][0]']

conv2d\_487 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_5\_ac[0][0]']

conv2d\_490 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_489[0][0]']

batch\_normalization\_487 (Batch (None, 12, 12, 192) 576 ['conv2d\_487[0][0]']

Normalization)

batch\_normalization\_490 (Batch (None, 12, 12, 192) 576 ['conv2d\_490[0][0]']

Normalization)

activation\_487 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_487[0][0]']

activation\_490 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_490[0][0]']

block17\_6\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_487[0][0]',

'activation\_490[0][0]']

block17\_6\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_6\_mixed[0][0]']

)

block17\_6 (Lambda) (None, 12, 12, 1088 0 ['block17\_5\_ac[0][0]',

) 'block17\_6\_conv[0][0]']

block17\_6\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_6[0][0]']

)

conv2d\_492 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_6\_ac[0][0]']

batch\_normalization\_492 (Batch (None, 12, 12, 128) 384 ['conv2d\_492[0][0]']

Normalization)

activation\_492 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_492[0][0]']

conv2d\_493 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_492[0][0]']

batch\_normalization\_493 (Batch (None, 12, 12, 160) 480 ['conv2d\_493[0][0]']

Normalization)

activation\_493 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_493[0][0]']

conv2d\_491 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_6\_ac[0][0]']

conv2d\_494 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_493[0][0]']

batch\_normalization\_491 (Batch (None, 12, 12, 192) 576 ['conv2d\_491[0][0]']

Normalization)

batch\_normalization\_494 (Batch (None, 12, 12, 192) 576 ['conv2d\_494[0][0]']

Normalization)

activation\_491 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_491[0][0]']

activation\_494 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_494[0][0]']

block17\_7\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_491[0][0]',

'activation\_494[0][0]']

block17\_7\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_7\_mixed[0][0]']

)

block17\_7 (Lambda) (None, 12, 12, 1088 0 ['block17\_6\_ac[0][0]',

) 'block17\_7\_conv[0][0]']

block17\_7\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_7[0][0]']

)

conv2d\_496 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_7\_ac[0][0]']

batch\_normalization\_496 (Batch (None, 12, 12, 128) 384 ['conv2d\_496[0][0]']

Normalization)

activation\_496 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_496[0][0]']

conv2d\_497 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_496[0][0]']

batch\_normalization\_497 (Batch (None, 12, 12, 160) 480 ['conv2d\_497[0][0]']

Normalization)

activation\_497 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_497[0][0]']

conv2d\_495 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_7\_ac[0][0]']

conv2d\_498 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_497[0][0]']

batch\_normalization\_495 (Batch (None, 12, 12, 192) 576 ['conv2d\_495[0][0]']

Normalization)

batch\_normalization\_498 (Batch (None, 12, 12, 192) 576 ['conv2d\_498[0][0]']

Normalization)

activation\_495 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_495[0][0]']

activation\_498 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_498[0][0]']

block17\_8\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_495[0][0]',

'activation\_498[0][0]']

block17\_8\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_8\_mixed[0][0]']

)

block17\_8 (Lambda) (None, 12, 12, 1088 0 ['block17\_7\_ac[0][0]',

) 'block17\_8\_conv[0][0]']

block17\_8\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_8[0][0]']

)

conv2d\_500 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_8\_ac[0][0]']

batch\_normalization\_500 (Batch (None, 12, 12, 128) 384 ['conv2d\_500[0][0]']

Normalization)

activation\_500 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_500[0][0]']

conv2d\_501 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_500[0][0]']

batch\_normalization\_501 (Batch (None, 12, 12, 160) 480 ['conv2d\_501[0][0]']

Normalization)

activation\_501 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_501[0][0]']

conv2d\_499 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_8\_ac[0][0]']

conv2d\_502 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_501[0][0]']

batch\_normalization\_499 (Batch (None, 12, 12, 192) 576 ['conv2d\_499[0][0]']

Normalization)

batch\_normalization\_502 (Batch (None, 12, 12, 192) 576 ['conv2d\_502[0][0]']

Normalization)

activation\_499 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_499[0][0]']

activation\_502 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_502[0][0]']

block17\_9\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_499[0][0]',

'activation\_502[0][0]']

block17\_9\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_9\_mixed[0][0]']

)

block17\_9 (Lambda) (None, 12, 12, 1088 0 ['block17\_8\_ac[0][0]',

) 'block17\_9\_conv[0][0]']

block17\_9\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_9[0][0]']

)

conv2d\_504 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_9\_ac[0][0]']

batch\_normalization\_504 (Batch (None, 12, 12, 128) 384 ['conv2d\_504[0][0]']

Normalization)

activation\_504 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_504[0][0]']

conv2d\_505 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_504[0][0]']

batch\_normalization\_505 (Batch (None, 12, 12, 160) 480 ['conv2d\_505[0][0]']

Normalization)

activation\_505 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_505[0][0]']

conv2d\_503 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_9\_ac[0][0]']

conv2d\_506 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_505[0][0]']

batch\_normalization\_503 (Batch (None, 12, 12, 192) 576 ['conv2d\_503[0][0]']

Normalization)

batch\_normalization\_506 (Batch (None, 12, 12, 192) 576 ['conv2d\_506[0][0]']

Normalization)

activation\_503 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_503[0][0]']

activation\_506 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_506[0][0]']

block17\_10\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_503[0][0]',

'activation\_506[0][0]']

block17\_10\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_10\_mixed[0][0]']

)

block17\_10 (Lambda) (None, 12, 12, 1088 0 ['block17\_9\_ac[0][0]',

) 'block17\_10\_conv[0][0]']

block17\_10\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_10[0][0]']

)

conv2d\_508 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_10\_ac[0][0]']

batch\_normalization\_508 (Batch (None, 12, 12, 128) 384 ['conv2d\_508[0][0]']

Normalization)

activation\_508 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_508[0][0]']

conv2d\_509 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_508[0][0]']

batch\_normalization\_509 (Batch (None, 12, 12, 160) 480 ['conv2d\_509[0][0]']

Normalization)

activation\_509 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_509[0][0]']

conv2d\_507 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_10\_ac[0][0]']

conv2d\_510 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_509[0][0]']

batch\_normalization\_507 (Batch (None, 12, 12, 192) 576 ['conv2d\_507[0][0]']

Normalization)

batch\_normalization\_510 (Batch (None, 12, 12, 192) 576 ['conv2d\_510[0][0]']

Normalization)

activation\_507 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_507[0][0]']

activation\_510 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_510[0][0]']

block17\_11\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_507[0][0]',

'activation\_510[0][0]']

block17\_11\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_11\_mixed[0][0]']

)

block17\_11 (Lambda) (None, 12, 12, 1088 0 ['block17\_10\_ac[0][0]',

) 'block17\_11\_conv[0][0]']

block17\_11\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_11[0][0]']

)

conv2d\_512 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_11\_ac[0][0]']

batch\_normalization\_512 (Batch (None, 12, 12, 128) 384 ['conv2d\_512[0][0]']

Normalization)

activation\_512 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_512[0][0]']

conv2d\_513 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_512[0][0]']

batch\_normalization\_513 (Batch (None, 12, 12, 160) 480 ['conv2d\_513[0][0]']

Normalization)

activation\_513 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_513[0][0]']

conv2d\_511 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_11\_ac[0][0]']

conv2d\_514 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_513[0][0]']

batch\_normalization\_511 (Batch (None, 12, 12, 192) 576 ['conv2d\_511[0][0]']

Normalization)

batch\_normalization\_514 (Batch (None, 12, 12, 192) 576 ['conv2d\_514[0][0]']

Normalization)

activation\_511 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_511[0][0]']

activation\_514 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_514[0][0]']

block17\_12\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_511[0][0]',

'activation\_514[0][0]']

block17\_12\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_12\_mixed[0][0]']

)

block17\_12 (Lambda) (None, 12, 12, 1088 0 ['block17\_11\_ac[0][0]',

) 'block17\_12\_conv[0][0]']

block17\_12\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_12[0][0]']

)

conv2d\_516 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_12\_ac[0][0]']

batch\_normalization\_516 (Batch (None, 12, 12, 128) 384 ['conv2d\_516[0][0]']

Normalization)

activation\_516 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_516[0][0]']

conv2d\_517 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_516[0][0]']

batch\_normalization\_517 (Batch (None, 12, 12, 160) 480 ['conv2d\_517[0][0]']

Normalization)

activation\_517 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_517[0][0]']

conv2d\_515 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_12\_ac[0][0]']

conv2d\_518 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_517[0][0]']

batch\_normalization\_515 (Batch (None, 12, 12, 192) 576 ['conv2d\_515[0][0]']

Normalization)

batch\_normalization\_518 (Batch (None, 12, 12, 192) 576 ['conv2d\_518[0][0]']

Normalization)

activation\_515 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_515[0][0]']

activation\_518 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_518[0][0]']

block17\_13\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_515[0][0]',

'activation\_518[0][0]']

block17\_13\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_13\_mixed[0][0]']

)

block17\_13 (Lambda) (None, 12, 12, 1088 0 ['block17\_12\_ac[0][0]',

) 'block17\_13\_conv[0][0]']

block17\_13\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_13[0][0]']

)

conv2d\_520 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_13\_ac[0][0]']

batch\_normalization\_520 (Batch (None, 12, 12, 128) 384 ['conv2d\_520[0][0]']

Normalization)

activation\_520 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_520[0][0]']

conv2d\_521 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_520[0][0]']

batch\_normalization\_521 (Batch (None, 12, 12, 160) 480 ['conv2d\_521[0][0]']

Normalization)

activation\_521 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_521[0][0]']

conv2d\_519 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_13\_ac[0][0]']

conv2d\_522 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_521[0][0]']

batch\_normalization\_519 (Batch (None, 12, 12, 192) 576 ['conv2d\_519[0][0]']

Normalization)

batch\_normalization\_522 (Batch (None, 12, 12, 192) 576 ['conv2d\_522[0][0]']

Normalization)

activation\_519 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_519[0][0]']

activation\_522 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_522[0][0]']

block17\_14\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_519[0][0]',

'activation\_522[0][0]']

block17\_14\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_14\_mixed[0][0]']

)

block17\_14 (Lambda) (None, 12, 12, 1088 0 ['block17\_13\_ac[0][0]',

) 'block17\_14\_conv[0][0]']

block17\_14\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_14[0][0]']

)

conv2d\_524 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_14\_ac[0][0]']

batch\_normalization\_524 (Batch (None, 12, 12, 128) 384 ['conv2d\_524[0][0]']

Normalization)

activation\_524 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_524[0][0]']

conv2d\_525 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_524[0][0]']

batch\_normalization\_525 (Batch (None, 12, 12, 160) 480 ['conv2d\_525[0][0]']

Normalization)

activation\_525 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_525[0][0]']

conv2d\_523 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_14\_ac[0][0]']

conv2d\_526 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_525[0][0]']

batch\_normalization\_523 (Batch (None, 12, 12, 192) 576 ['conv2d\_523[0][0]']

Normalization)

batch\_normalization\_526 (Batch (None, 12, 12, 192) 576 ['conv2d\_526[0][0]']

Normalization)

activation\_523 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_523[0][0]']

activation\_526 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_526[0][0]']

block17\_15\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_523[0][0]',

'activation\_526[0][0]']

block17\_15\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_15\_mixed[0][0]']

)

block17\_15 (Lambda) (None, 12, 12, 1088 0 ['block17\_14\_ac[0][0]',

) 'block17\_15\_conv[0][0]']

block17\_15\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_15[0][0]']

)

conv2d\_528 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_15\_ac[0][0]']

batch\_normalization\_528 (Batch (None, 12, 12, 128) 384 ['conv2d\_528[0][0]']

Normalization)

activation\_528 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_528[0][0]']

conv2d\_529 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_528[0][0]']

batch\_normalization\_529 (Batch (None, 12, 12, 160) 480 ['conv2d\_529[0][0]']

Normalization)

activation\_529 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_529[0][0]']

conv2d\_527 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_15\_ac[0][0]']

conv2d\_530 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_529[0][0]']

batch\_normalization\_527 (Batch (None, 12, 12, 192) 576 ['conv2d\_527[0][0]']

Normalization)

batch\_normalization\_530 (Batch (None, 12, 12, 192) 576 ['conv2d\_530[0][0]']

Normalization)

activation\_527 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_527[0][0]']

activation\_530 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_530[0][0]']

block17\_16\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_527[0][0]',

'activation\_530[0][0]']

block17\_16\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_16\_mixed[0][0]']

)

block17\_16 (Lambda) (None, 12, 12, 1088 0 ['block17\_15\_ac[0][0]',

) 'block17\_16\_conv[0][0]']

block17\_16\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_16[0][0]']

)

conv2d\_532 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_16\_ac[0][0]']

batch\_normalization\_532 (Batch (None, 12, 12, 128) 384 ['conv2d\_532[0][0]']

Normalization)

activation\_532 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_532[0][0]']

conv2d\_533 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_532[0][0]']

batch\_normalization\_533 (Batch (None, 12, 12, 160) 480 ['conv2d\_533[0][0]']

Normalization)

activation\_533 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_533[0][0]']

conv2d\_531 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_16\_ac[0][0]']

conv2d\_534 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_533[0][0]']

batch\_normalization\_531 (Batch (None, 12, 12, 192) 576 ['conv2d\_531[0][0]']

Normalization)

batch\_normalization\_534 (Batch (None, 12, 12, 192) 576 ['conv2d\_534[0][0]']

Normalization)

activation\_531 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_531[0][0]']

activation\_534 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_534[0][0]']

block17\_17\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_531[0][0]',

'activation\_534[0][0]']

block17\_17\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_17\_mixed[0][0]']

)

block17\_17 (Lambda) (None, 12, 12, 1088 0 ['block17\_16\_ac[0][0]',

) 'block17\_17\_conv[0][0]']

block17\_17\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_17[0][0]']

)

conv2d\_536 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_17\_ac[0][0]']

batch\_normalization\_536 (Batch (None, 12, 12, 128) 384 ['conv2d\_536[0][0]']

Normalization)

activation\_536 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_536[0][0]']

conv2d\_537 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_536[0][0]']

batch\_normalization\_537 (Batch (None, 12, 12, 160) 480 ['conv2d\_537[0][0]']

Normalization)

activation\_537 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_537[0][0]']

conv2d\_535 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_17\_ac[0][0]']

conv2d\_538 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_537[0][0]']

batch\_normalization\_535 (Batch (None, 12, 12, 192) 576 ['conv2d\_535[0][0]']

Normalization)

batch\_normalization\_538 (Batch (None, 12, 12, 192) 576 ['conv2d\_538[0][0]']

Normalization)

activation\_535 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_535[0][0]']

activation\_538 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_538[0][0]']

block17\_18\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_535[0][0]',

'activation\_538[0][0]']

block17\_18\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_18\_mixed[0][0]']

)

block17\_18 (Lambda) (None, 12, 12, 1088 0 ['block17\_17\_ac[0][0]',

) 'block17\_18\_conv[0][0]']

block17\_18\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_18[0][0]']

)

conv2d\_540 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_18\_ac[0][0]']

batch\_normalization\_540 (Batch (None, 12, 12, 128) 384 ['conv2d\_540[0][0]']

Normalization)

activation\_540 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_540[0][0]']

conv2d\_541 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_540[0][0]']

batch\_normalization\_541 (Batch (None, 12, 12, 160) 480 ['conv2d\_541[0][0]']

Normalization)

activation\_541 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_541[0][0]']

conv2d\_539 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_18\_ac[0][0]']

conv2d\_542 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_541[0][0]']

batch\_normalization\_539 (Batch (None, 12, 12, 192) 576 ['conv2d\_539[0][0]']

Normalization)

batch\_normalization\_542 (Batch (None, 12, 12, 192) 576 ['conv2d\_542[0][0]']

Normalization)

activation\_539 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_539[0][0]']

activation\_542 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_542[0][0]']

block17\_19\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_539[0][0]',

'activation\_542[0][0]']

block17\_19\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_19\_mixed[0][0]']

)

block17\_19 (Lambda) (None, 12, 12, 1088 0 ['block17\_18\_ac[0][0]',

) 'block17\_19\_conv[0][0]']

block17\_19\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_19[0][0]']

)

conv2d\_544 (Conv2D) (None, 12, 12, 128) 139264 ['block17\_19\_ac[0][0]']

batch\_normalization\_544 (Batch (None, 12, 12, 128) 384 ['conv2d\_544[0][0]']

Normalization)

activation\_544 (Activation) (None, 12, 12, 128) 0 ['batch\_normalization\_544[0][0]']

conv2d\_545 (Conv2D) (None, 12, 12, 160) 143360 ['activation\_544[0][0]']

batch\_normalization\_545 (Batch (None, 12, 12, 160) 480 ['conv2d\_545[0][0]']

Normalization)

activation\_545 (Activation) (None, 12, 12, 160) 0 ['batch\_normalization\_545[0][0]']

conv2d\_543 (Conv2D) (None, 12, 12, 192) 208896 ['block17\_19\_ac[0][0]']

conv2d\_546 (Conv2D) (None, 12, 12, 192) 215040 ['activation\_545[0][0]']

batch\_normalization\_543 (Batch (None, 12, 12, 192) 576 ['conv2d\_543[0][0]']

Normalization)

batch\_normalization\_546 (Batch (None, 12, 12, 192) 576 ['conv2d\_546[0][0]']

Normalization)

activation\_543 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_543[0][0]']

activation\_546 (Activation) (None, 12, 12, 192) 0 ['batch\_normalization\_546[0][0]']

block17\_20\_mixed (Concatenate) (None, 12, 12, 384) 0 ['activation\_543[0][0]',

'activation\_546[0][0]']

block17\_20\_conv (Conv2D) (None, 12, 12, 1088 418880 ['block17\_20\_mixed[0][0]']

)

block17\_20 (Lambda) (None, 12, 12, 1088 0 ['block17\_19\_ac[0][0]',

) 'block17\_20\_conv[0][0]']

block17\_20\_ac (Activation) (None, 12, 12, 1088 0 ['block17\_20[0][0]']

)

conv2d\_551 (Conv2D) (None, 12, 12, 256) 278528 ['block17\_20\_ac[0][0]']

batch\_normalization\_551 (Batch (None, 12, 12, 256) 768 ['conv2d\_551[0][0]']

Normalization)

activation\_551 (Activation) (None, 12, 12, 256) 0 ['batch\_normalization\_551[0][0]']

conv2d\_547 (Conv2D) (None, 12, 12, 256) 278528 ['block17\_20\_ac[0][0]']

conv2d\_549 (Conv2D) (None, 12, 12, 256) 278528 ['block17\_20\_ac[0][0]']

conv2d\_552 (Conv2D) (None, 12, 12, 288) 663552 ['activation\_551[0][0]']

batch\_normalization\_547 (Batch (None, 12, 12, 256) 768 ['conv2d\_547[0][0]']

Normalization)

batch\_normalization\_549 (Batch (None, 12, 12, 256) 768 ['conv2d\_549[0][0]']

Normalization)

batch\_normalization\_552 (Batch (None, 12, 12, 288) 864 ['conv2d\_552[0][0]']

Normalization)

activation\_547 (Activation) (None, 12, 12, 256) 0 ['batch\_normalization\_547[0][0]']

activation\_549 (Activation) (None, 12, 12, 256) 0 ['batch\_normalization\_549[0][0]']

activation\_552 (Activation) (None, 12, 12, 288) 0 ['batch\_normalization\_552[0][0]']

conv2d\_548 (Conv2D) (None, 5, 5, 384) 884736 ['activation\_547[0][0]']

conv2d\_550 (Conv2D) (None, 5, 5, 288) 663552 ['activation\_549[0][0]']

conv2d\_553 (Conv2D) (None, 5, 5, 320) 829440 ['activation\_552[0][0]']

batch\_normalization\_548 (Batch (None, 5, 5, 384) 1152 ['conv2d\_548[0][0]']

Normalization)

batch\_normalization\_550 (Batch (None, 5, 5, 288) 864 ['conv2d\_550[0][0]']

Normalization)

batch\_normalization\_553 (Batch (None, 5, 5, 320) 960 ['conv2d\_553[0][0]']

Normalization)

activation\_548 (Activation) (None, 5, 5, 384) 0 ['batch\_normalization\_548[0][0]']

activation\_550 (Activation) (None, 5, 5, 288) 0 ['batch\_normalization\_550[0][0]']

activation\_553 (Activation) (None, 5, 5, 320) 0 ['batch\_normalization\_553[0][0]']

max\_pooling2d\_15 (MaxPooling2D (None, 5, 5, 1088) 0 ['block17\_20\_ac[0][0]']

)

mixed\_7a (Concatenate) (None, 5, 5, 2080) 0 ['activation\_548[0][0]',

'activation\_550[0][0]',

'activation\_553[0][0]',

'max\_pooling2d\_15[0][0]']

conv2d\_555 (Conv2D) (None, 5, 5, 192) 399360 ['mixed\_7a[0][0]']

batch\_normalization\_555 (Batch (None, 5, 5, 192) 576 ['conv2d\_555[0][0]']

Normalization)

activation\_555 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_555[0][0]']

conv2d\_556 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_555[0][0]']

batch\_normalization\_556 (Batch (None, 5, 5, 224) 672 ['conv2d\_556[0][0]']

Normalization)

activation\_556 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_556[0][0]']

conv2d\_554 (Conv2D) (None, 5, 5, 192) 399360 ['mixed\_7a[0][0]']

conv2d\_557 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_556[0][0]']

batch\_normalization\_554 (Batch (None, 5, 5, 192) 576 ['conv2d\_554[0][0]']

Normalization)

batch\_normalization\_557 (Batch (None, 5, 5, 256) 768 ['conv2d\_557[0][0]']

Normalization)

activation\_554 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_554[0][0]']

activation\_557 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_557[0][0]']

block8\_1\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_554[0][0]',

'activation\_557[0][0]']

block8\_1\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_1\_mixed[0][0]']

block8\_1 (Lambda) (None, 5, 5, 2080) 0 ['mixed\_7a[0][0]',

'block8\_1\_conv[0][0]']

block8\_1\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_1[0][0]']

conv2d\_559 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_1\_ac[0][0]']

batch\_normalization\_559 (Batch (None, 5, 5, 192) 576 ['conv2d\_559[0][0]']

Normalization)

activation\_559 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_559[0][0]']

conv2d\_560 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_559[0][0]']

batch\_normalization\_560 (Batch (None, 5, 5, 224) 672 ['conv2d\_560[0][0]']

Normalization)

activation\_560 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_560[0][0]']

conv2d\_558 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_1\_ac[0][0]']

conv2d\_561 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_560[0][0]']

batch\_normalization\_558 (Batch (None, 5, 5, 192) 576 ['conv2d\_558[0][0]']

Normalization)

batch\_normalization\_561 (Batch (None, 5, 5, 256) 768 ['conv2d\_561[0][0]']

Normalization)

activation\_558 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_558[0][0]']

activation\_561 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_561[0][0]']

block8\_2\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_558[0][0]',

'activation\_561[0][0]']

block8\_2\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_2\_mixed[0][0]']

block8\_2 (Lambda) (None, 5, 5, 2080) 0 ['block8\_1\_ac[0][0]',

'block8\_2\_conv[0][0]']

block8\_2\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_2[0][0]']

conv2d\_563 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_2\_ac[0][0]']

batch\_normalization\_563 (Batch (None, 5, 5, 192) 576 ['conv2d\_563[0][0]']

Normalization)

activation\_563 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_563[0][0]']

conv2d\_564 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_563[0][0]']

batch\_normalization\_564 (Batch (None, 5, 5, 224) 672 ['conv2d\_564[0][0]']

Normalization)

activation\_564 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_564[0][0]']

conv2d\_562 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_2\_ac[0][0]']

conv2d\_565 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_564[0][0]']

batch\_normalization\_562 (Batch (None, 5, 5, 192) 576 ['conv2d\_562[0][0]']

Normalization)

batch\_normalization\_565 (Batch (None, 5, 5, 256) 768 ['conv2d\_565[0][0]']

Normalization)

activation\_562 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_562[0][0]']

activation\_565 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_565[0][0]']

block8\_3\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_562[0][0]',

'activation\_565[0][0]']

block8\_3\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_3\_mixed[0][0]']

block8\_3 (Lambda) (None, 5, 5, 2080) 0 ['block8\_2\_ac[0][0]',

'block8\_3\_conv[0][0]']

block8\_3\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_3[0][0]']

conv2d\_567 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_3\_ac[0][0]']

batch\_normalization\_567 (Batch (None, 5, 5, 192) 576 ['conv2d\_567[0][0]']

Normalization)

activation\_567 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_567[0][0]']

conv2d\_568 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_567[0][0]']

batch\_normalization\_568 (Batch (None, 5, 5, 224) 672 ['conv2d\_568[0][0]']

Normalization)

activation\_568 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_568[0][0]']

conv2d\_566 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_3\_ac[0][0]']

conv2d\_569 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_568[0][0]']

batch\_normalization\_566 (Batch (None, 5, 5, 192) 576 ['conv2d\_566[0][0]']

Normalization)

batch\_normalization\_569 (Batch (None, 5, 5, 256) 768 ['conv2d\_569[0][0]']

Normalization)

activation\_566 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_566[0][0]']

activation\_569 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_569[0][0]']

block8\_4\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_566[0][0]',

'activation\_569[0][0]']

block8\_4\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_4\_mixed[0][0]']

block8\_4 (Lambda) (None, 5, 5, 2080) 0 ['block8\_3\_ac[0][0]',

'block8\_4\_conv[0][0]']

block8\_4\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_4[0][0]']

conv2d\_571 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_4\_ac[0][0]']

batch\_normalization\_571 (Batch (None, 5, 5, 192) 576 ['conv2d\_571[0][0]']

Normalization)

activation\_571 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_571[0][0]']

conv2d\_572 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_571[0][0]']

batch\_normalization\_572 (Batch (None, 5, 5, 224) 672 ['conv2d\_572[0][0]']

Normalization)

activation\_572 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_572[0][0]']

conv2d\_570 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_4\_ac[0][0]']

conv2d\_573 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_572[0][0]']

batch\_normalization\_570 (Batch (None, 5, 5, 192) 576 ['conv2d\_570[0][0]']

Normalization)

batch\_normalization\_573 (Batch (None, 5, 5, 256) 768 ['conv2d\_573[0][0]']

Normalization)

activation\_570 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_570[0][0]']

activation\_573 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_573[0][0]']

block8\_5\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_570[0][0]',

'activation\_573[0][0]']

block8\_5\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_5\_mixed[0][0]']

block8\_5 (Lambda) (None, 5, 5, 2080) 0 ['block8\_4\_ac[0][0]',

'block8\_5\_conv[0][0]']

block8\_5\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_5[0][0]']

conv2d\_575 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_5\_ac[0][0]']

batch\_normalization\_575 (Batch (None, 5, 5, 192) 576 ['conv2d\_575[0][0]']

Normalization)

activation\_575 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_575[0][0]']

conv2d\_576 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_575[0][0]']

batch\_normalization\_576 (Batch (None, 5, 5, 224) 672 ['conv2d\_576[0][0]']

Normalization)

activation\_576 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_576[0][0]']

conv2d\_574 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_5\_ac[0][0]']

conv2d\_577 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_576[0][0]']

batch\_normalization\_574 (Batch (None, 5, 5, 192) 576 ['conv2d\_574[0][0]']

Normalization)

batch\_normalization\_577 (Batch (None, 5, 5, 256) 768 ['conv2d\_577[0][0]']

Normalization)

activation\_574 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_574[0][0]']

activation\_577 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_577[0][0]']

block8\_6\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_574[0][0]',

'activation\_577[0][0]']

block8\_6\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_6\_mixed[0][0]']

block8\_6 (Lambda) (None, 5, 5, 2080) 0 ['block8\_5\_ac[0][0]',

'block8\_6\_conv[0][0]']

block8\_6\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_6[0][0]']

conv2d\_579 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_6\_ac[0][0]']

batch\_normalization\_579 (Batch (None, 5, 5, 192) 576 ['conv2d\_579[0][0]']

Normalization)

activation\_579 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_579[0][0]']

conv2d\_580 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_579[0][0]']

batch\_normalization\_580 (Batch (None, 5, 5, 224) 672 ['conv2d\_580[0][0]']

Normalization)

activation\_580 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_580[0][0]']

conv2d\_578 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_6\_ac[0][0]']

conv2d\_581 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_580[0][0]']

batch\_normalization\_578 (Batch (None, 5, 5, 192) 576 ['conv2d\_578[0][0]']

Normalization)

batch\_normalization\_581 (Batch (None, 5, 5, 256) 768 ['conv2d\_581[0][0]']

Normalization)

activation\_578 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_578[0][0]']

activation\_581 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_581[0][0]']

block8\_7\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_578[0][0]',

'activation\_581[0][0]']

block8\_7\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_7\_mixed[0][0]']

block8\_7 (Lambda) (None, 5, 5, 2080) 0 ['block8\_6\_ac[0][0]',

'block8\_7\_conv[0][0]']

block8\_7\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_7[0][0]']

conv2d\_583 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_7\_ac[0][0]']

batch\_normalization\_583 (Batch (None, 5, 5, 192) 576 ['conv2d\_583[0][0]']

Normalization)

activation\_583 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_583[0][0]']

conv2d\_584 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_583[0][0]']

batch\_normalization\_584 (Batch (None, 5, 5, 224) 672 ['conv2d\_584[0][0]']

Normalization)

activation\_584 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_584[0][0]']

conv2d\_582 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_7\_ac[0][0]']

conv2d\_585 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_584[0][0]']

batch\_normalization\_582 (Batch (None, 5, 5, 192) 576 ['conv2d\_582[0][0]']

Normalization)

batch\_normalization\_585 (Batch (None, 5, 5, 256) 768 ['conv2d\_585[0][0]']

Normalization)

activation\_582 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_582[0][0]']

activation\_585 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_585[0][0]']

block8\_8\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_582[0][0]',

'activation\_585[0][0]']

block8\_8\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_8\_mixed[0][0]']

block8\_8 (Lambda) (None, 5, 5, 2080) 0 ['block8\_7\_ac[0][0]',

'block8\_8\_conv[0][0]']

block8\_8\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_8[0][0]']

conv2d\_587 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_8\_ac[0][0]']

batch\_normalization\_587 (Batch (None, 5, 5, 192) 576 ['conv2d\_587[0][0]']

Normalization)

activation\_587 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_587[0][0]']

conv2d\_588 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_587[0][0]']

batch\_normalization\_588 (Batch (None, 5, 5, 224) 672 ['conv2d\_588[0][0]']

Normalization)

activation\_588 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_588[0][0]']

conv2d\_586 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_8\_ac[0][0]']

conv2d\_589 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_588[0][0]']

batch\_normalization\_586 (Batch (None, 5, 5, 192) 576 ['conv2d\_586[0][0]']

Normalization)

batch\_normalization\_589 (Batch (None, 5, 5, 256) 768 ['conv2d\_589[0][0]']

Normalization)

activation\_586 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_586[0][0]']

activation\_589 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_589[0][0]']

block8\_9\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_586[0][0]',

'activation\_589[0][0]']

block8\_9\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_9\_mixed[0][0]']

block8\_9 (Lambda) (None, 5, 5, 2080) 0 ['block8\_8\_ac[0][0]',

'block8\_9\_conv[0][0]']

block8\_9\_ac (Activation) (None, 5, 5, 2080) 0 ['block8\_9[0][0]']

conv2d\_591 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_9\_ac[0][0]']

batch\_normalization\_591 (Batch (None, 5, 5, 192) 576 ['conv2d\_591[0][0]']

Normalization)

activation\_591 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_591[0][0]']

conv2d\_592 (Conv2D) (None, 5, 5, 224) 129024 ['activation\_591[0][0]']

batch\_normalization\_592 (Batch (None, 5, 5, 224) 672 ['conv2d\_592[0][0]']

Normalization)

activation\_592 (Activation) (None, 5, 5, 224) 0 ['batch\_normalization\_592[0][0]']

conv2d\_590 (Conv2D) (None, 5, 5, 192) 399360 ['block8\_9\_ac[0][0]']

conv2d\_593 (Conv2D) (None, 5, 5, 256) 172032 ['activation\_592[0][0]']

batch\_normalization\_590 (Batch (None, 5, 5, 192) 576 ['conv2d\_590[0][0]']

Normalization)

batch\_normalization\_593 (Batch (None, 5, 5, 256) 768 ['conv2d\_593[0][0]']

Normalization)

activation\_590 (Activation) (None, 5, 5, 192) 0 ['batch\_normalization\_590[0][0]']

activation\_593 (Activation) (None, 5, 5, 256) 0 ['batch\_normalization\_593[0][0]']

block8\_10\_mixed (Concatenate) (None, 5, 5, 448) 0 ['activation\_590[0][0]',

'activation\_593[0][0]']

block8\_10\_conv (Conv2D) (None, 5, 5, 2080) 933920 ['block8\_10\_mixed[0][0]']

block8\_10 (Lambda) (None, 5, 5, 2080) 0 ['block8\_9\_ac[0][0]',

'block8\_10\_conv[0][0]']

conv\_7b (Conv2D) (None, 5, 5, 1536) 3194880 ['block8\_10[0][0]']

conv\_7b\_bn (BatchNormalization (None, 5, 5, 1536) 4608 ['conv\_7b[0][0]']

)

conv\_7b\_ac (Activation) (None, 5, 5, 1536) 0 ['conv\_7b\_bn[0][0]']

flatten\_1 (Flatten) (None, 38400) 0 ['conv\_7b\_ac[0][0]']

dense\_1 (Dense) (None, 1) 38401 ['flatten\_1[0][0]']

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

Total params: 54,375,137

Trainable params: 38,401

Non-trainable params: 54,336,736

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Epoch 1/100

17/17 [==============================] - 24s 634ms/step - loss: 1.1569 - accuracy: 0.6555 - val\_loss: 0.5466 - val\_accuracy: 0.7985 - lr: 0.0010

Epoch 2/100

17/17 [==============================] - 5s 312ms/step - loss: 0.3411 - accuracy: 0.8603 - val\_loss: 0.6223 - val\_accuracy: 0.7910 - lr: 0.0010

Epoch 3/100

17/17 [==============================] - 5s 308ms/step - loss: 0.2186 - accuracy: 0.8994 - val\_loss: 0.9185 - val\_accuracy: 0.7239 - lr: 0.0010

Epoch 4/100

17/17 [==============================] - 6s 332ms/step - loss: 0.1422 - accuracy: 0.9423 - val\_loss: 0.5403 - val\_accuracy: 0.8284 - lr: 0.0010

Epoch 5/100

17/17 [==============================] - 5s 302ms/step - loss: 0.0521 - accuracy: 0.9888 - val\_loss: 0.6141 - val\_accuracy: 0.7687 - lr: 0.0010

Epoch 6/100

17/17 [==============================] - 5s 307ms/step - loss: 0.0582 - accuracy: 0.9777 - val\_loss: 0.7262 - val\_accuracy: 0.7687 - lr: 0.0010

Epoch 7/100

17/17 [==============================] - 5s 297ms/step - loss: 0.0250 - accuracy: 0.9963 - val\_loss: 0.5595 - val\_accuracy: 0.8358 - lr: 0.0010

Epoch 8/100

17/17 [==============================] - 6s 331ms/step - loss: 0.0179 - accuracy: 1.0000 - val\_loss: 0.5220 - val\_accuracy: 0.8060 - lr: 1.0000e-04

Epoch 9/100

17/17 [==============================] - 6s 324ms/step - loss: 0.0146 - accuracy: 1.0000 - val\_loss: 0.5128 - val\_accuracy: 0.8358 - lr: 1.0000e-04

Epoch 10/100

17/17 [==============================] - 5s 312ms/step - loss: 0.0121 - accuracy: 1.0000 - val\_loss: 0.5166 - val\_accuracy: 0.8284 - lr: 1.0000e-04

Epoch 11/100

17/17 [==============================] - 5s 315ms/step - loss: 0.0117 - accuracy: 1.0000 - val\_loss: 0.5220 - val\_accuracy: 0.8209 - lr: 1.0000e-04

Epoch 12/100

17/17 [==============================] - 6s 350ms/step - loss: 0.0109 - accuracy: 1.0000 - val\_loss: 0.5230 - val\_accuracy: 0.8209 - lr: 1.0000e-04

Epoch 13/100

17/17 [==============================] - 5s 311ms/step - loss: 0.0108 - accuracy: 1.0000 - val\_loss: 0.5235 - val\_accuracy: 0.8284 - lr: 1.0000e-05

Epoch 14/100

17/17 [==============================] - 6s 330ms/step - loss: 0.0108 - accuracy: 1.0000 - val\_loss: 0.5242 - val\_accuracy: 0.8284 - lr: 1.0000e-05

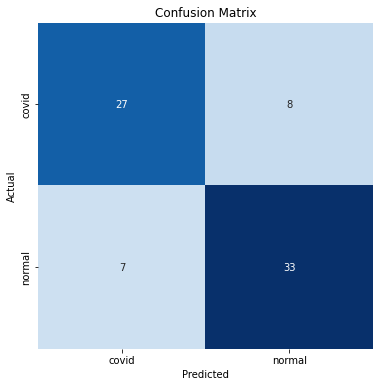
INFO:tensorflow:Assets written to: /content/drive/MyDrive/CTInceptionResnetV2Split0.9noAug/assets

Test Loss: 0.38749

Test Accuracy: 80.00%

/usr/local/lib/python3.7/dist-packages/ipykernel\_launcher.py:123: DeprecationWarning: `np.int` is a deprecated alias for the builtin `int`. To silence this warning, use `int` by itself. Doing this will not modify any behavior and is safe. When replacing `np.int`, you may wish to use e.g. `np.int64` or `np.int32` to specify the precision. If you wish to review your current use, check the release note link for additional information.

Deprecated in NumPy 1.20; for more details and guidance: <https://numpy.org/devdocs/release/1.20.0-notes.html#deprecations>



Classification Report:

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precision recall f1-score support

covid 0.79 0.77 0.78 35

normal 0.80 0.82 0.81 40

accuracy 0.80 75

macro avg 0.80 0.80 0.80 75

weighted avg 0.80 0.80 0.80 75

