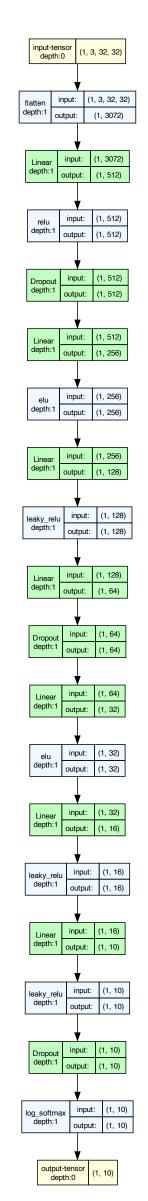
Net1

input-tensor depth:0 (1, 3, 32, 32)
flatten input: (1, 3, 32, 32)
depth:1 output: (1, 3072)
Linear input: (1, 3072)
Linear depth:1 output: (1, 3072)
V
relu depth:1 cutout: (1, 3072)
output: (1, 3072)
Linear input: (1, 3072)
depth:1 output: (1, 1024)
relu depth:1 input: (1, 1024) output: (1, 1024)
Dropout input: (1, 1024)
depth:1 output: (1, 1024)
—
Linear depth:1 input: (1, 1024) output: (1, 800)
leaky_relu input: (1, 800)
output: (1, 800)
Dropout input: (1, 800)
Dropout depth:1 output: (1, 800)
Linear depth:1 output: (1, 800) output: (1, 360)
ошри. (1, 500)
leaky_relu input: (1, 360)
depth:1 output: (1, 360)
—
Linear depth:1 input: (1, 360) output: (1, 480)
leaky_relu depth:1 (1, 480)
output: (1, 480)
Linear input: (1, 480)
depth:1 output: (1, 240)
•
leaky_relu depth:1 input: (1, 240) output: (1, 240)
Linear input: (1, 240)
depth:1 output: (1, 120)
leaky relu input: (1, 120)
leaky_relu depth:1 output: (1, 120)
Dropout depth:1 output: (1, 120)
output: (1, 120)
Linear input: (1, 120)
Linear depth:1 input: (1, 120) output: (1, 90)
depth:1 output: (1, 90)
denth:1
leaky_relu input: (1, 90)
leaky_relu depth:1 output: (1, 90) leaky_relu depth:1 output: (1, 90) Linear input: (1, 90)
leaky_relu depth:1 output: (1, 90)
leaky_relu depth:1 output: (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 output: (1, 90) output: (1, 90) output: (1, 24)
leaky_relu depth:1 output: (1, 90) leaky_relu depth:1 output: (1, 90) Linear input: (1, 90)
leaky_relu depth:1 output: (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 input: (1, 24)
leaky_relu depth:1 output: (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 input: (1, 24) Linear depth:1 output: (1, 24) Linear depth:1 input: (1, 10)
leaky_relu depth:1 output: (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 output: (1, 90) Linear depth:1 output: (1, 24) Linear depth:1 output: (1, 24)
leaky_relu depth:1 output: (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 input: (1, 90) Linear depth:1 input: (1, 24) Linear depth:1 output: (1, 24) Linear depth:1 input: (1, 10)

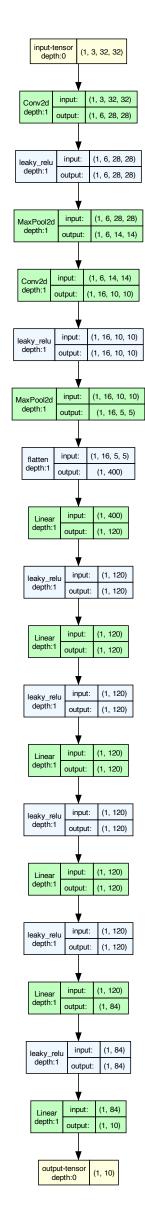
Net2

input-tensor depth:0 (1, 3, 32, 32)
flatten depth: 1 input: (1, 3, 32, 32) output: (1, 3072)
Linear depth:1 output: (1, 3072)
leaky_relu depth:1 input: (1, 1024) output: (1, 1024)
Linear input: (1, 1024) depth:1 output: (1, 512)
leaky_relu depth:1 input: (1, 512) output: (1, 512)
Dropout depth:1 (1, 512) output: (1, 512)
Linear depth:1 output: (1, 512) output: (1, 256)
leaky_relu depth:1 input: (1, 256) output: (1, 256)
Linear input: (1, 256)
leaky_relu input: (1, 256)
Dropout input: (1, 256)
depth:1 output: (1, 256) Linear input: (1, 256)
depth:1 output: (1, 128) leaky_relu input: (1, 128)
depth:1 output: (1, 128)
depth:1 output: (1, 64)
leaky_relu depth:1 input: (1, 64) output: (1, 64)
Dropout depth:1 (1, 64) output: (1, 64)
Linear depth:1 input: (1, 64) output: (1, 32)
leaky_relu depth:1 input: (1, 32) output: (1, 32)
Linear depth:1 input: (1, 32) output: (1, 16)
leaky_relu input: (1, 16) depth:1 output: (1, 16)
Dropout depth:1 input: (1, 16) output: (1, 16)
Linear depth:1 input: (1, 16) output: (1, 16)
leaky_relu depth:1 input: (1, 16) output: (1, 16)
Linear depth:1 input: (1, 16) output: (1, 10)
leaky_relu depth:1 input: (1, 10) output: (1, 10)
Dropout depth:1 input: (1, 10) output: (1, 10)
log_softmax depth:1
output-tensor depth:0 (1, 10)

Net3



CNN



VGG16

Sequential (1, 3, 224, 224)
Conv2d depth:2 output: (1, 64, 224, 224)
BatchNorm2d depth:2 input: (1, 64, 224, 224) output: (1, 64, 224, 224)
ReLU input: (1, 64, 224, 224) depth:2 output: (1, 64, 224, 224)
Sequential Conv2d input: (1, 64, 224, 224)
depth:2 output: (1, 64, 224, 224)
BatchNorm2d depth:2 input: (1, 64, 224, 224) output: (1, 64, 224, 224)
ReLU depth:2 input: (1, 64, 224, 224) output: (1, 64, 224, 224)
MaxPool2d depth:2 output: (1, 64, 224, 224)
Sequential
Conv2d depth:2 output: (1, 64, 112, 112)
BatchNorm2d depth:2 input: (1, 128, 112, 112) output: (1, 128, 112, 112)
ReLU depth:2 output: (1, 128, 112, 112) output: (1, 128, 112, 112)
Sequential
depth:2 output: (1, 128, 112, 112)
BatchNorm2d depth:2 output: (1, 128, 112, 112) output: (1, 128, 112, 112)
ReLU depth:2 input: (1, 128, 112, 112) output: (1, 128, 112, 112)
MaxPool2d depth:2 input: (1, 128, 112, 112) output: (1, 128, 56, 56)
Sequential (1, 128, 56, 56)
depth:2 output: (1, 256, 56, 56)
BatchNorm2d depth:2 input: (1, 256, 56, 56) output: (1, 256, 56, 56)
ReLU depth:2 input: (1, 256, 56, 56) output: (1, 256, 56, 56)
Sequential
Output: (1, 256, 56, 56)
BatchNorm2d depth:2 output: (1, 256, 56, 56)
ReLU depth:2 input: (1, 256, 56, 56) output: (1, 256, 56, 56)
Sequential Conv2d depth:2 output: (1, 256, 56, 56) output: (1, 256, 56, 56)
BatchNorm2d input: (1, 256, 56, 56)
depth:2 output: (1, 256, 56, 56)
ReLU depth:2 input: (1, 256, 56, 56) output: (1, 256, 56, 56)
MaxPool2d depth:2 input: (1, 256, 56, 56) output: (1, 256, 28, 28)
Sequential Conv2d depth:2 input: (1, 256, 28, 28) input: (1, 512, 28, 28, 28) input: (1, 512, 28, 28, 28, 28, 28, 28, 28, 28, 28, 2
BatchNorm2d input: (1, 512, 28, 28)
depth:2 output: (1, 512, 28, 28)
ReLU depth:2 input: (1, 512, 28, 28) output: (1, 512, 28, 28) Sequential
Conv2d depth:2 output: (1, 512, 28, 28)
BatchNorm2d depth:2 input: (1, 512, 28, 28) output: (1, 512, 28, 28)
ReLU input: (1, 512, 28, 28)
depth:2 output: (1, 512, 28, 28) Sequential
Conv2d depth:2 input: (1, 512, 28, 28) output: (1, 512, 28, 28)
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BatchNorm2d depth:2 input: (1, 512, 28, 28) output: (1, 512, 28, 28)
Datcinvoinizu
ReLU depth:2 output: (1, 512, 28, 28)
ReLU depth:2 output: (1, 512, 28, 28)
ReLU depth:2 output: (1, 512, 28, 28)
ReLU depth:2 output: (1, 512, 28, 28)
ReLU depth:2 output: (1, 512, 28, 28)
ReLU depth:2 input: (1, 512, 28, 28)
ReLU depth:2 input: (1, 512, 28, 28)
ReLU depth:2 input: (1, 512, 28, 28)
ReLU depth:2 output: (1, 512, 28, 28)
ReLU depth:2
ReLU depth:2
ReLU depth:2 output: (1, 512, 28, 28)
ReLU depth:2
ReLU input: (1, 512, 28, 28)
ReLU depth:2 output: (1, 512, 28, 28) MaxPool2d depth:2 output: (1, 512, 28, 28) MaxPool2d depth:2 output: (1, 512, 28, 28) Conv2d depth:2 output: (1, 512, 14, 14) BatchNorm2d depth:2 output: (1, 512, 14, 14) Conv2d depth:2 output: (1, 512, 14, 14) ReLU depth:2 output: (1, 512, 14, 14) Conv2d depth:2 output: (1, 512, 14, 14)
ReLU depth:2 input: (1, 512, 28, 28)
ReLU input: (1, 512, 28, 28)
ReLU input: (1, 512, 28, 28)
ReLU depth:2 input: (1, 512, 28, 28)
ReLU depth:2 output: (1, 512, 28, 28) output: (1, 512, 14, 14) outp
ReLU depth:2
ReLU depth:2

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(1, 4096)

(1, 10)

(1, 10)

input:

output:

output-tensor depth:0

Linear depth:2

VGG19 input-tensor (1, 3, 224, 224) depth:0 Sequential input: (1, 3, 224, 224) Conv2d depth:2 output: (1, 64, 224, 224) (1, 64, 224, 224) input: BatchNorm2d depth:2 (1, 64, 224, 224) output: (1, 64, 224, 224) input: ReLU depth:2 (1, 64, 224, 224) output: Sequential (1, 64, 224, 224) input: Conv2d depth:2 output: (1, 64, 224, 224) input: (1, 64, 224, 224) BatchNorm2d depth:2 output: (1, 64, 224, 224) (1, 64, 224, 224) input: ReLU depth:2 output: (1, 64, 224, 224) input: (1, 64, 224, 224) MaxPool2d depth:2 (1, 64, 112, 112) output: Sequential (1, 64, 112, 112) input: Conv2d depth:2 (1, 128, 112, 112) output: (1, 128, 112, 112) input: BatchNorm2d depth:2 output: (1, 128, 112, 112) (1, 128, 112, 112) input: ReLU depth:2 output: (1, 128, 112, 112) Sequential (1, 128, 112, 112) input: Conv2d depth:2 output: (1, 128, 112, 112) (1, 128, 112, 112) input: output: (1, 128, 112, 112) input: output: (1, 128, 112, 112) (1, 128, 112, 112) input: output: (1, 128, 56, 56) (1, 128, 56, 56) input: Conv2d depth:2 output: (1, 256, 56, 56) input: (1, 256, 56, 56) depth:2 output: (1, 256, 56, 56) (1, 256, 56, 56) input: ReLU depth:2 (1, 256, 56, 56) output: input: (1, 256, 56, 56) Conv2d depth:2 output: (1, 256, 56, 56) (1, 256, 56, 56) input: depth:2 output: (1, 256, 56, 56) (1, 256, 56, 56) input: ReLU depth:2 output: (1, 256, 56, 56) (1, 256, 56, 56) input: Conv2d depth:2 (1, 256, 56, 56) output: input: (1, 256, 56, 56) (1, 256, 56, 56) output: (1, 256, 56, 56) input: ReLU depth:2 (1, 256, 56, 56) output: (1, 256, 56, 56) input: Conv2d depth:2 output: (1, 256, 56, 56) input: (1, 256, 56, 56) depth:2 (1, 256, 56, 56)

BatchNorm2d depth:2 (1, 128, 112, 112) ReLU depth:2 MaxPool2d depth:2 Sequential BatchNorm2d Sequential BatchNorm2d Sequential BatchNorm2d depth:2 Sequential BatchNorm2d input: (1, 256, 56, 56) ReLU depth:2 (1, 256, 56, 56) output: input: (1, 256, 56, 56) MaxPool2d depth:2 (1, 256, 28, 28) output: Sequential (1, 256, 28, 28) input: Conv2d depth:2 output: (1, 512, 28, 28) (1, 512, 28, 28) input: BatchNorm2d depth:2 (1, 512, 28, 28) output: (1, 512, 28, 28) input: ReLU depth:2 (1, 512, 28, 28) output: ====== Sequential (1, 512, 28, 28) input: Conv2d depth:2 output: (1, 512, 28, 28) (1, 512, 28, 28) input: BatchNorm2d depth:2 output: (1, 512, 28, 28) (1, 512, 28, 28) input: ReLU depth:2 output: (1, 512, 28, 28) Sequential (1, 512, 28, 28) input: Conv2d depth:2 (1, 512, 28, 28) output: (1, 512, 28, 28) input: BatchNorm2d depth:2 output: (1, 512, 28, 28) input: (1, 512, 28, 28) ReLU depth:2 (1, 512, 28, 28) output: Sequential (1, 512, 28, 28) input: Conv2d depth:2 output: (1, 512, 28, 28) input: (1, 512, 28, 28) BatchNorm2d depth:2 (1, 512, 28, 28) output: input: (1, 512, 28, 28) ReLU depth:2 (1, 512, 28, 28) output: (1, 512, 28, 28) input: MaxPool2d depth:2 (1, 512, 14, 14) output: Sequential (1, 512, 14, 14) input: Conv2d depth:2 (1, 512, 14, 14) output:

(1, 512, 14, 14) input: BatchNorm2d depth:2 output: (1, 512, 14, 14) (1, 512, 14, 14) input: ReLU depth:2 (1, 512, 14, 14) output: Sequential input: (1, 512, 14, 14) Conv2d depth:2 (1, 512, 14, 14) output: input: (1, 512, 14, 14) BatchNorm2d depth:2 output: (1, 512, 14, 14) (1, 512, 14, 14) input: ReLU depth:2 output: (1, 512, 14, 14) Sequential (1, 512, 14, 14) input: Conv2d depth:2 output: (1, 512, 14, 14) input: (1, 512, 14, 14) BatchNorm2d depth:2 output: (1, 512, 14, 14) (1, 512, 14, 14) input: ReLU depth:2 (1, 512, 14, 14) output: Sequential (1, 512, 14, 14) input: Conv2d depth:2 (1, 512, 14, 14) output: input: (1, 512, 14, 14) BatchNorm2d depth:2 output: (1, 512, 14, 14) (1, 512, 14, 14) input: ReLU depth:2 (1, 512, 14, 14) output: (1, 512, 14, 14) input: MaxPool2d depth:2 (1, 512, 7, 7) output: input: (1, 512, 7, 7) reshape depth:1 output: (1, 25088) Sequential input: (1, 25088) Linear depth:2 (1 4006) (1, 4096) input: ReLU depth:2 (1, 4096) output: (1, 4096) input: Dropout depth:2 (1, 4096) output: Sequential (1, 4096) input: Linear depth:2 output: (1, 4096)(1, 4096)input: ReLU depth:2

output: (1, 4096) (1, 4096) input: Dropout depth:2 output: (1, 4096)Sequential

input: (1, 4096)Linear depth:2 output: (1, 1000) output-tensor (1, 1000) depth:0

