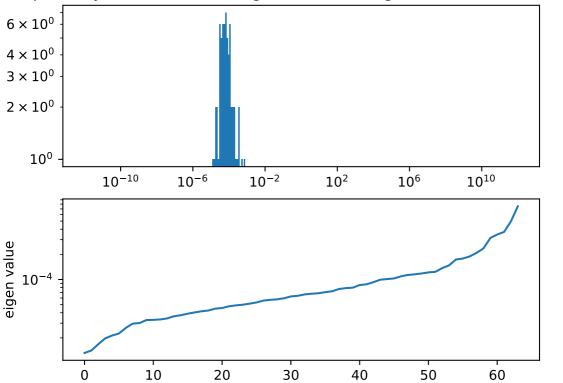
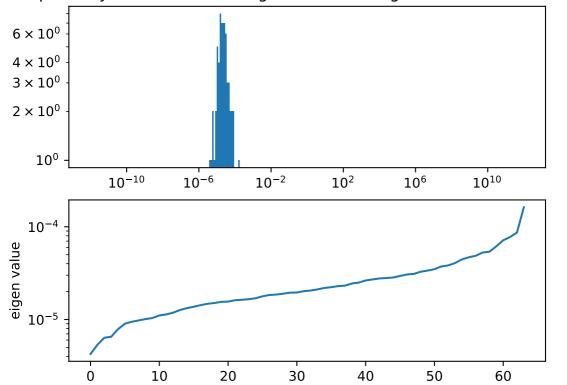


ep: 86 layer1.0.conv1 maxeig: 4.6e-03 mineig: 9.6e-06 con: 4.8e+02  $6 \times 10^{0}$  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 1010 10-10  $10^{-6}$  $10^{-2}$ 10<sup>2</sup> 10<sup>6</sup> eigen value 10<sup>-3</sup> 10<sup>-5</sup> 50 60 10 20 30 40

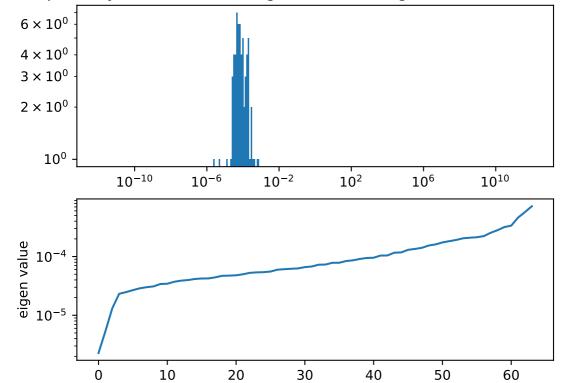
ep: 86 layer1.0.conv2 maxeig: 7.5e-04 mineig: 1.3e-05 con: 5.7e+01



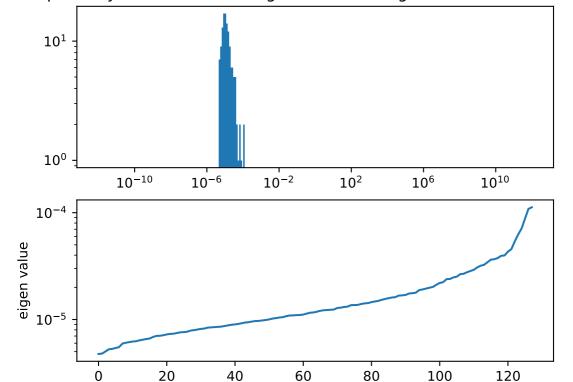
ep: 86 layer1.1.conv1 maxeig: 1.6e-04 mineig: 4.2e-06 con: 3.8e+01



ep: 86 layer1.1.conv2 maxeig: 7.2e-04 mineig: 2.3e-06 con: 3.1e+02



ep: 86 layer2.0.conv1 maxeig: 1.1e-04 mineig: 4.8e-06 con: 2.4e+01



ep: 86 layer2.0.conv2 maxeig: 1.7e-04 mineig: 8.8e-07 con: 1.9e+02  $10^{1}$ 10<sup>0</sup> 10 10 10<sup>2</sup> 10-10 10-2 10<sup>6</sup>  $10^{-6}$  $10^{-4}$ eigen value 10<sup>-5</sup>  $10^{-6}$ 

80

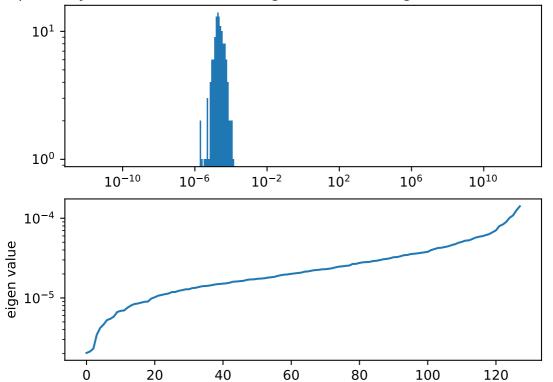
20

40

100

120

ep: 86 layer2.0.shortcut.0 maxeig: 1.4e-04 mineig: 2.0e-06 con: 6.9e+01



ep: 86 layer2.1.conv1 maxeig: 3.9e-05 mineig: 2.8e-06 con: 1.4e+01  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10-10  $10^{-6}$ 10-2 10<sup>6</sup> eigen value 10<sup>-5</sup>

100

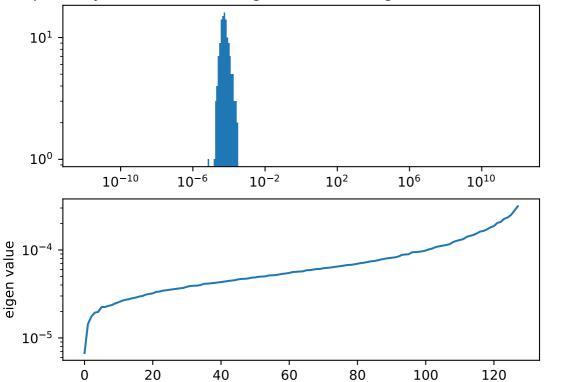
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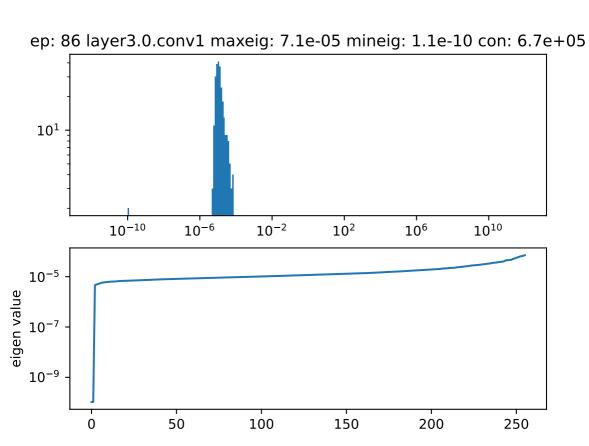
120

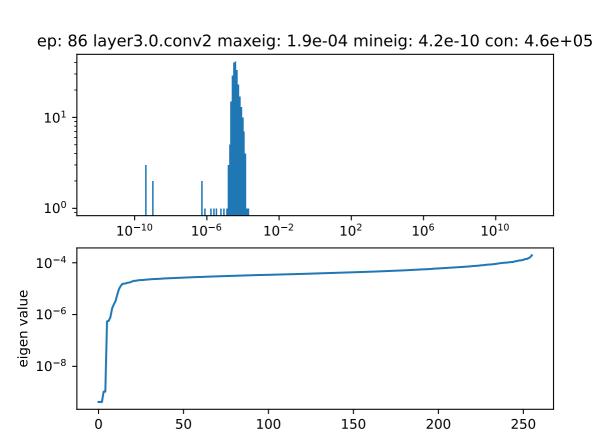
20

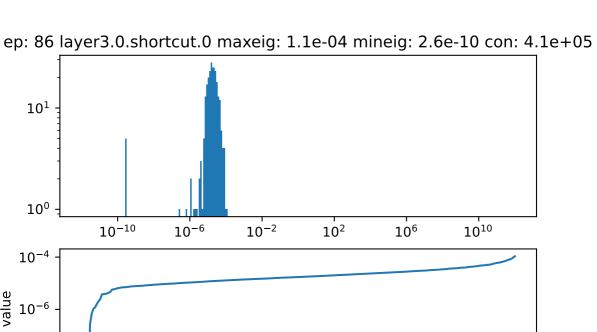
40

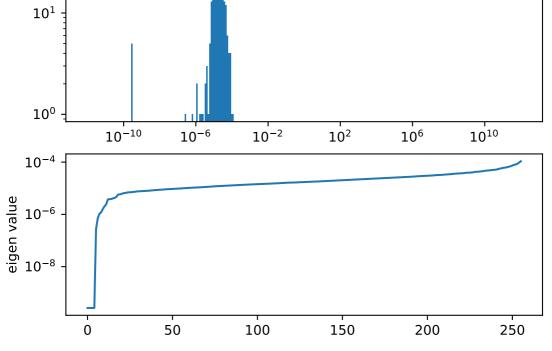
ep: 86 layer2.1.conv2 maxeig: 3.1e-04 mineig: 6.7e-06 con: 4.7e+01

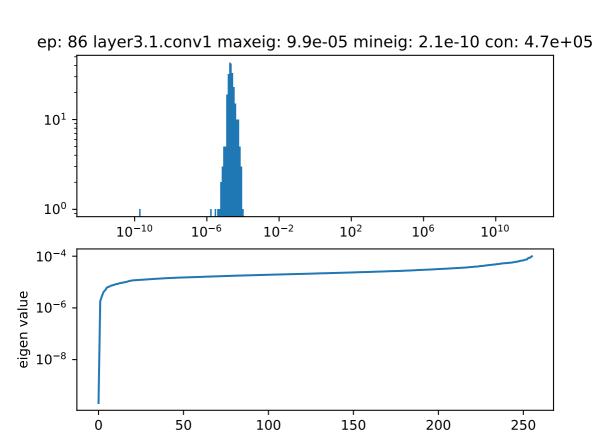












ep: 86 layer3.1.conv2 maxeig: 4.9e-04 mineig: 6.1e-06 con: 8.0e+01  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup> 10-2 10<sup>6</sup>  $10^{-6}$  $10^{-4}$  $10^{-5}$ 250

150

200

50

eigen value

ep: 86 layer4.0.conv1 maxeig: 2.0e-04 mineig: 1.4e-06 con: 1.4e+02 10<sup>1</sup> 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup> 10-2 10<sup>6</sup>  $10^{-6}$  $10^{-4}$ eigen value 100 500 200 300 400

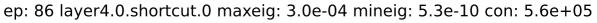
ep: 86 layer4.0.conv2 maxeig: 5.9e-04 mineig: 8.4e-10 con: 7.0e+05 10<sup>1</sup> 10<sup>0</sup> 1010 10-10  $10^{-6}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-4}$ eigen value  $10^{-6}$ 10<sup>-8</sup>

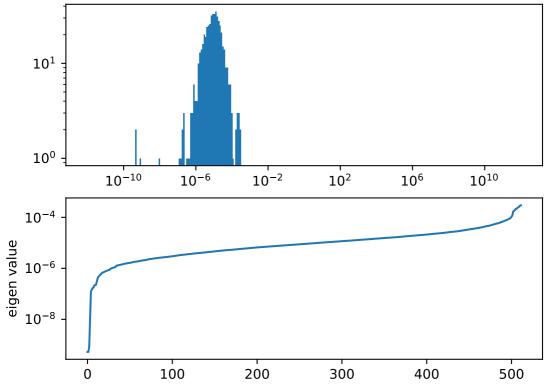
300

400

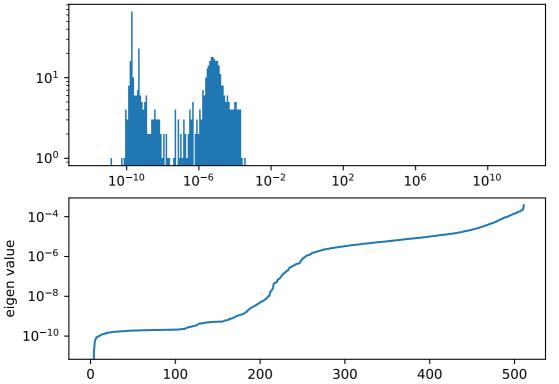
500

100





ep: 86 layer4.1.conv1 maxeig: 3.7e-04 mineig: -5.5e-11 con: 3.0e+07



ep: 86 layer4.1.conv2 maxeig: 1.4e-03 mineig: 1.1e-09 con: 1.3e+06

