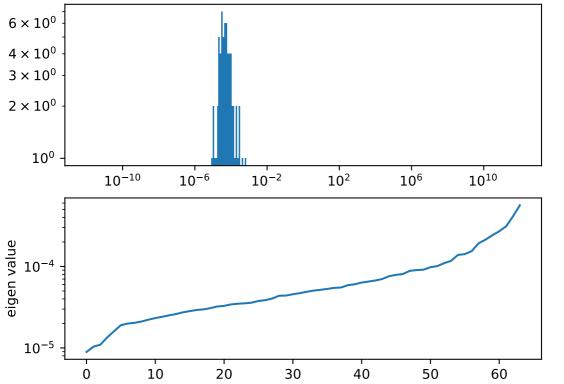
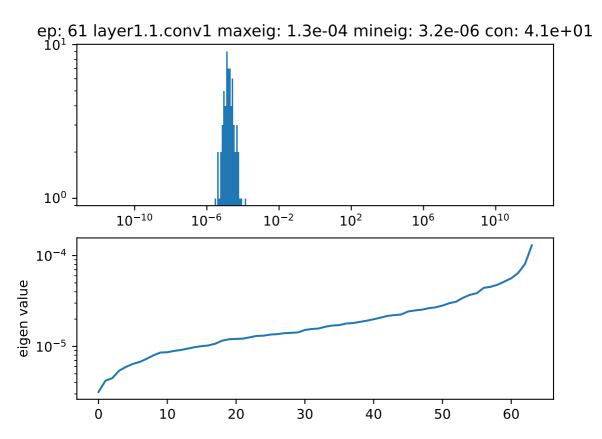


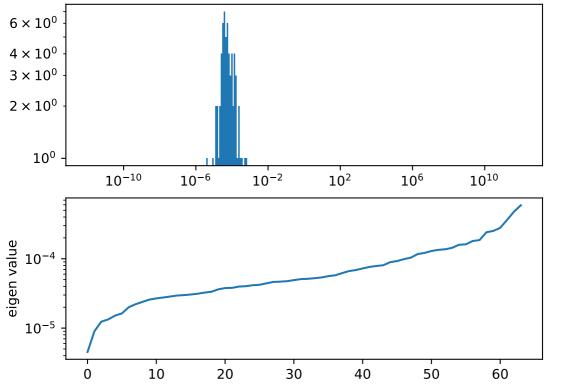
ep: 61 layer1.0.conv1 maxeig: 4.1e-03 mineig: 1.1e-05 con: 3.8e+02  $6 \times 10^{0}$  $4 \times 10^{0}$  $3 \times 10^{0}$  $2 \times 10^{0}$ 10<sup>0</sup> 1010 10-10 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$  $10^{-2}$ eiden value 10<sup>-3</sup> 10<sup>-5</sup> 30 50 60 10 20 40

ep: 61 layer1.0.conv2 maxeig: 5.6e-04 mineig: 8.9e-06 con: 6.3e+01

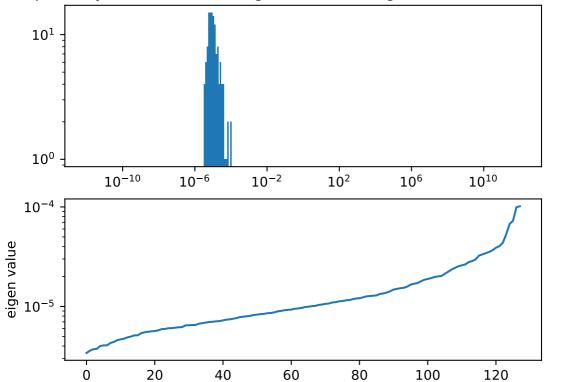




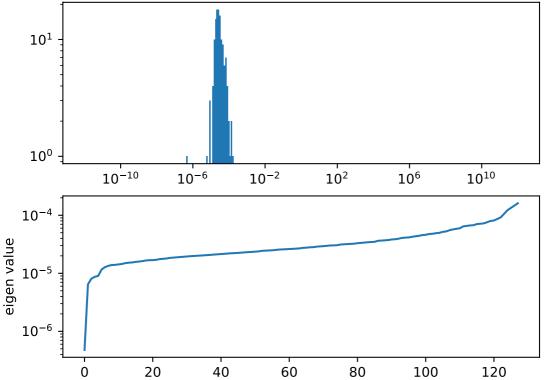
ep: 61 layer1.1.conv2 maxeig: 5.9e-04 mineig: 4.5e-06 con: 1.3e+02



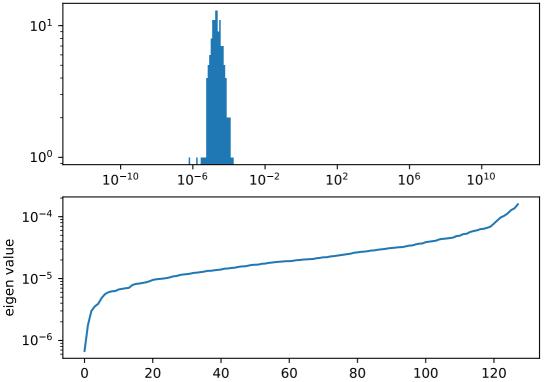
ep: 61 layer2.0.conv1 maxeig: 1.0e-04 mineig: 3.4e-06 con: 3.0e+01



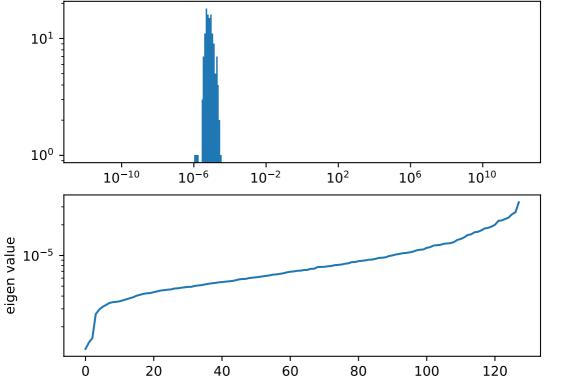
ep: 61 layer2.0.conv2 maxeig: 1.6e-04 mineig: 4.8e-07 con: 3.4e+02



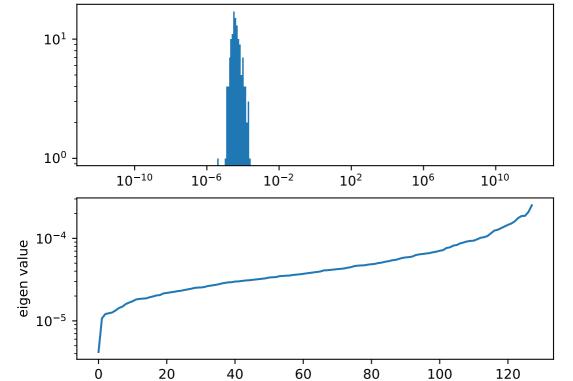
ep: 61 layer2.0.shortcut.0 maxeig: 1.6e-04 mineig: 6.8e-07 con: 2.3e+02



ep: 61 layer2.1.conv1 maxeig: 3.3e-05 mineig: 1.2e-06 con: 2.7e+01



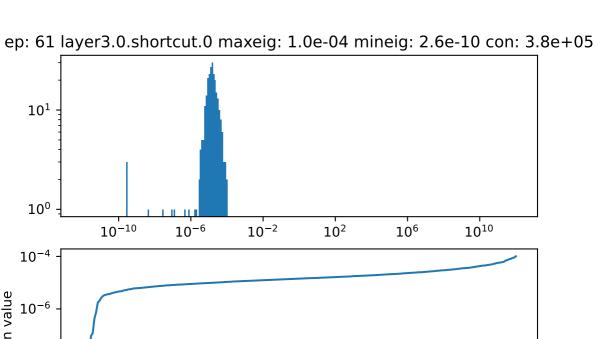
ep: 61 layer2.1.conv2 maxeig: 2.5e-04 mineig: 4.2e-06 con: 6.0e+01

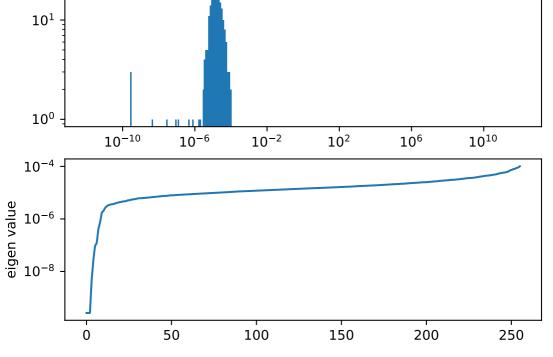


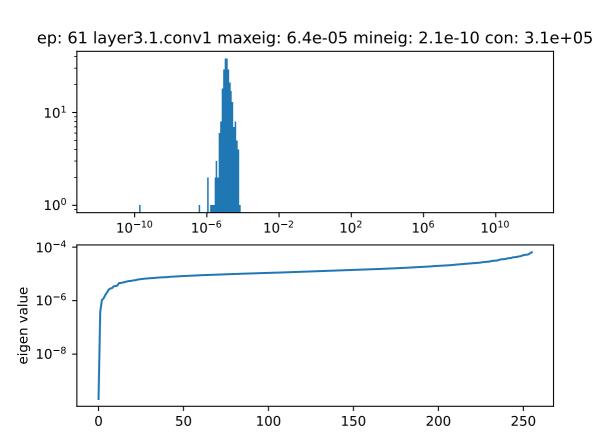
ep: 61 layer3.0.conv1 maxeig: 6.2e-05 mineig: 1.1e-10 con: 5.9e+05 10<sup>1</sup> 10<sup>0</sup> 1010 10-10 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$ 10<sup>-5</sup>  $10^{-7}$  $10^{-9}$ 250 50 100 150 200

eigen value

ep: 61 layer3.0.conv2 maxeig: 1.5e-04 mineig: 4.2e-10 con: 3.6e+05 10<sup>1</sup> 10<sup>0</sup> 1010  $10^{-10}$ 10-2 10<sup>2</sup> 10<sup>6</sup>  $10^{-6}$  $10^{-4}$ eigen value 10<sup>-6</sup> 250 50 100 150 200







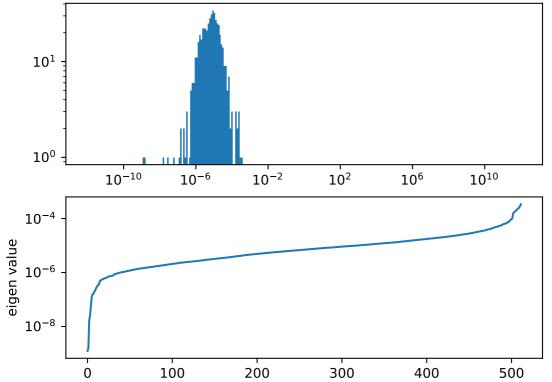
ep: 61 layer3.1.conv2 maxeig: 3.3e-04 mineig: 2.9e-06 con: 1.1e+02  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10-10 10<sup>2</sup> 10-6 10-2 10<sup>6</sup> eigen value 10<sup>-4</sup>  $10^{-4}$ 250 50 100 150 200

ep: 61 layer4.0.conv1 maxeig: 1.6e-04 mineig: 6.9e-07 con: 2.3e+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>  $10^{-6}$  $10^{-4}$ 10<sup>-5</sup>  $10^{-6}$ 100 500 200 300 400

eigen value

ep: 61 layer4.0.conv2 maxeig: 4.1e-04 mineig: 6.9e-09 con: 6.0e+04 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 -7 100 500 200 300 400

ep: 61 layer4.0.shortcut.0 maxeig: 3.4e-04 mineig: 1.2e-09 con: 2.7e+05



ep: 61 layer4.1.conv1 maxeig: 1.8e-04 mineig: 8.5e-11 con: 2.2e+06  $10^{1}$ 10<sup>0</sup> 10<sup>10</sup> 10<sup>2</sup> 10-10  $10^{-6}$ 10-2 10<sup>6</sup>  $10^{-5}$  $10^{-7}$  $10^{-9}$ 100 500 200 300 400

eigen value

ep: 61 layer4.1.conv2 maxeig: 1.2e-03 mineig: 2.4e-09 con: 5.0e+05

