-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
-0.8
0 10 20 30 40 50

Iteration

 ${\rm FIG.}\ 1:$ Plot of log-probability vs iterations for output

train /home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_logs_4/stage17_jul18_logsvalid /home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_logs_4/stage17_jul18_logs

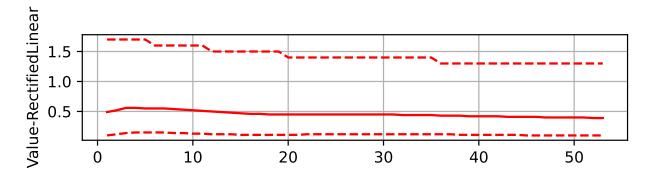
-3
-4
-4
-5
-6
-7
-8
0 10 20 30 40 50

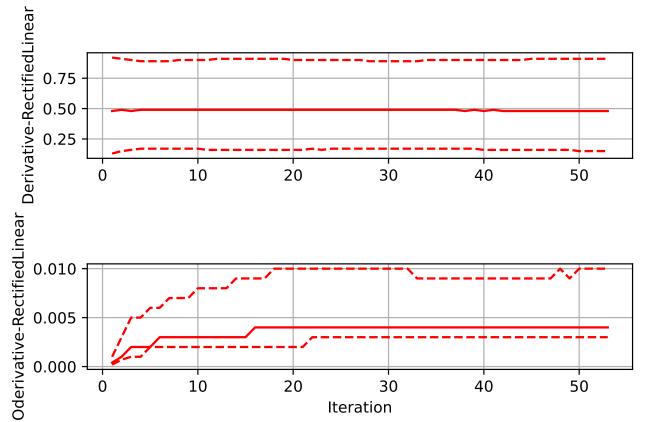
 ${\rm FIG.}\ 2:\ {\rm Plot}\ {\rm of}\ {\rm log-probability}\ {\rm vs}\ {\rm iterations}\ {\rm for}\ {\rm output-xent}$

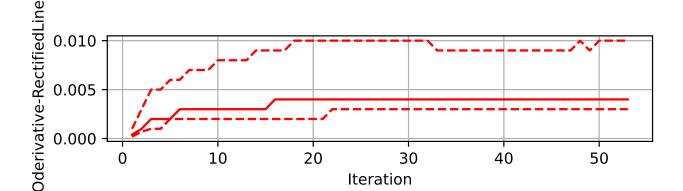
train /home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_logs_4/stage17_jul18_logsvalid /home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_logs_4/stage17_jul18_logs

Iteration

 ${\rm FIG.~3:~Per\text{-}dimension~average\text{-}(value,~derivative)~and~rms\text{-}oderivative~percentiles~for~prefinal\text{-}chain.relu}$

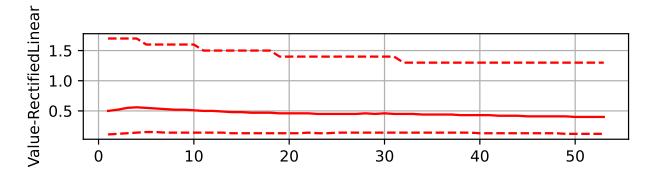


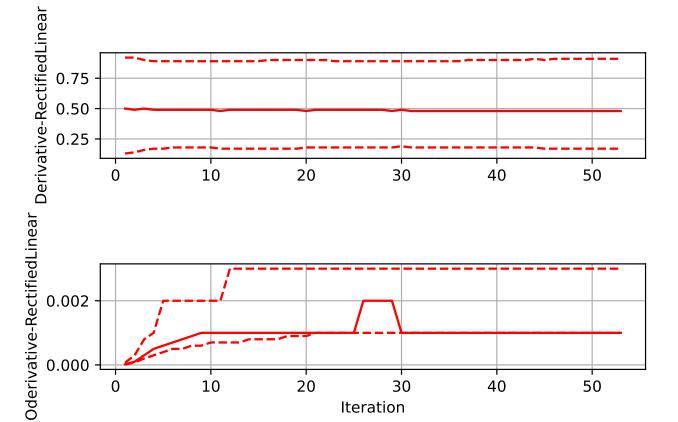






 ${
m FIG.}\ 4:$ Per-dimension average-(value, derivative) and rms-oderivative percentiles for prefinal-xent.relu



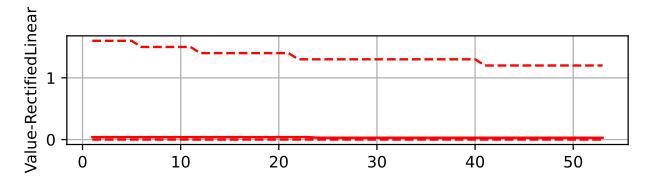


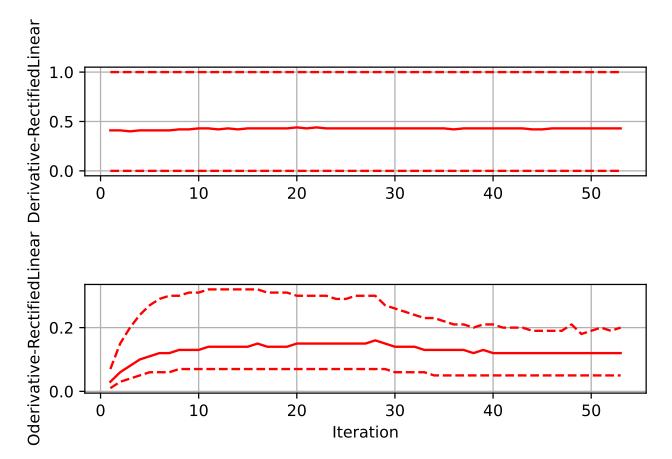
0.000



Iteration

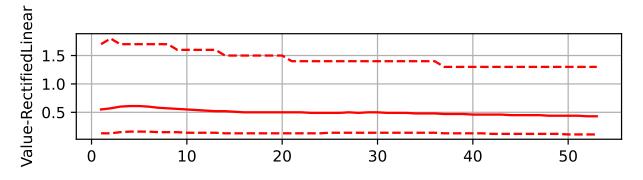
FIG. 5: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnn1.relu

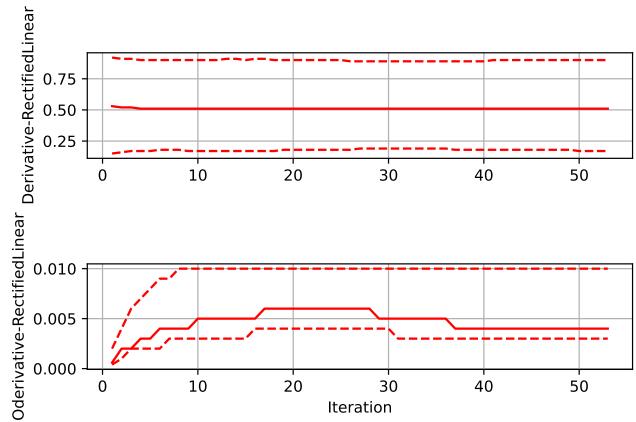






 ${\rm FIG.~6:~Per-dimension~average-(value,~derivative)~and~rms-oderivative~percentiles~for~tdnnf10.relu}$





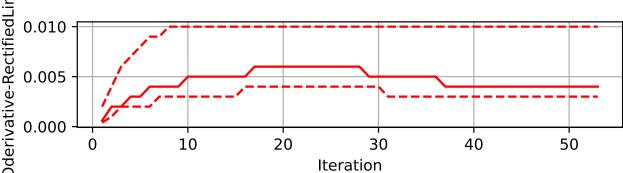
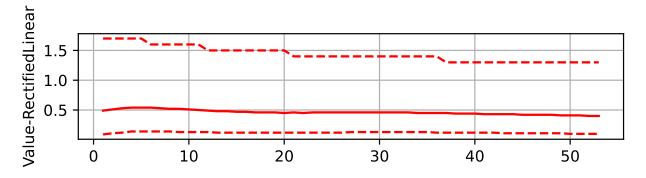
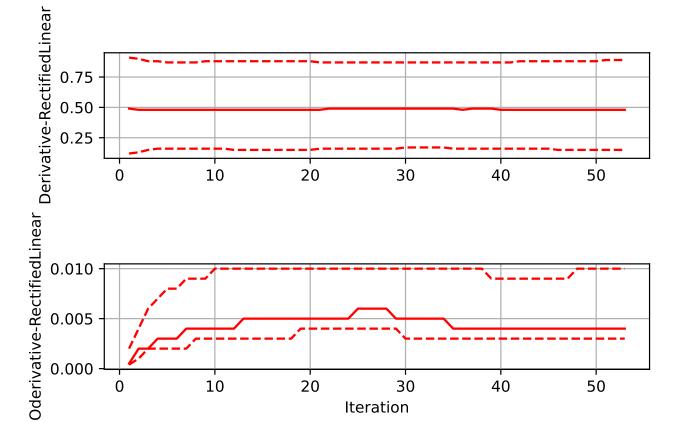




FIG. 7: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf11.relu

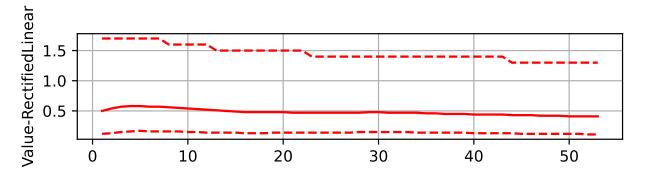


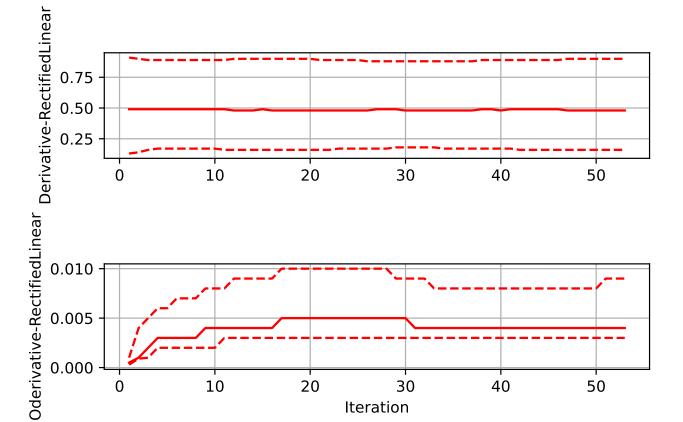




Iteration

 ${\rm FIG.~8:~Per-dimension~average-(value,~derivative)~and~rms-oderivative~percentiles~for~tdnnf12.relu}$



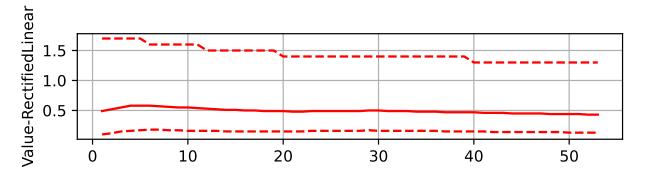


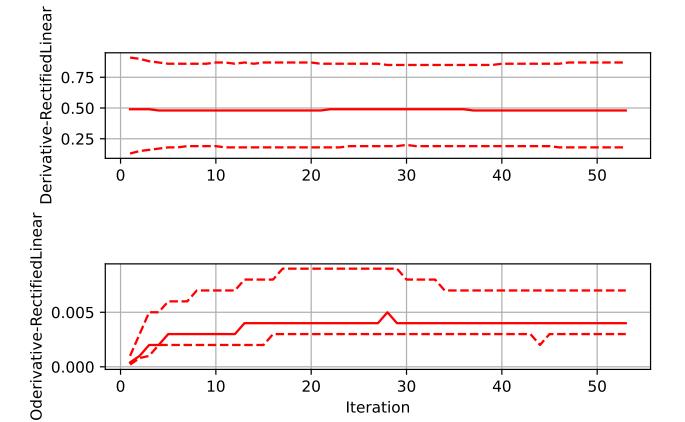
0.000



Iteration

 ${\rm FIG.~9:~Per-dimension~average-(value,~derivative)~and~rms-oderivative~percentiles~for~tdnnf13.relu}$

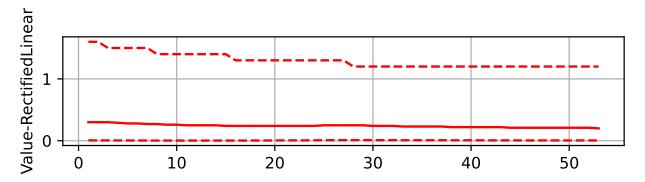


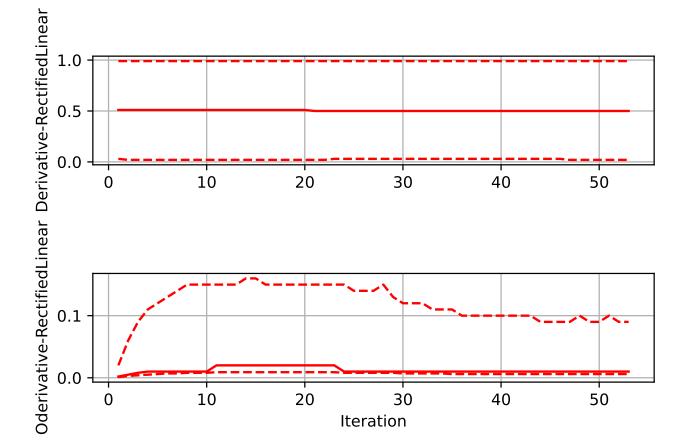




Iteration

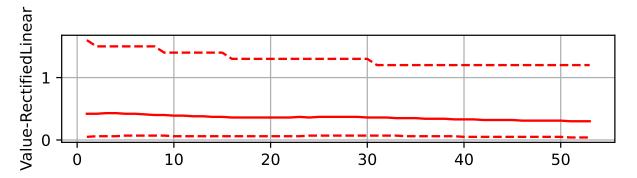
 $FIG.\ 10:\ Per-dimension\ average-(value,\ derivative)\ and\ rms-oderivative\ percentiles\ for\ tdnnf2.relu$

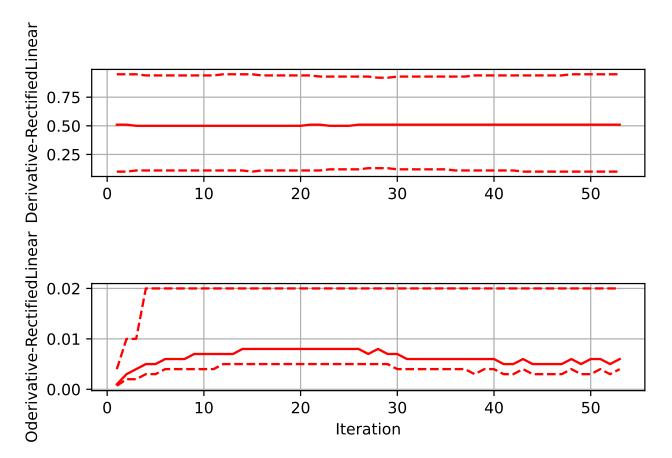






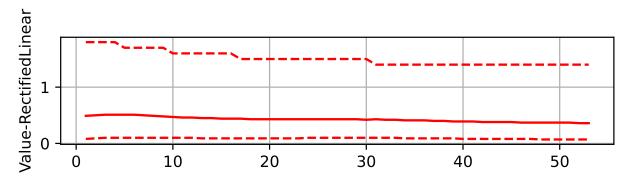
 ${\rm FIG.~11:~Per-dimension~average-(value,~derivative)~and~rms-oderivative~percentiles~for~tdnnf3.relu}$

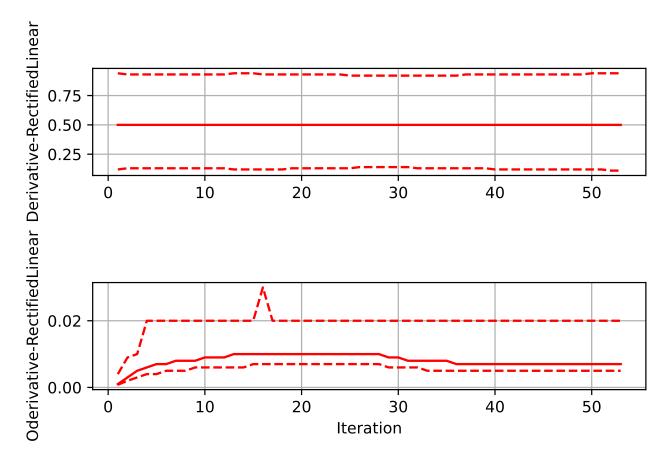






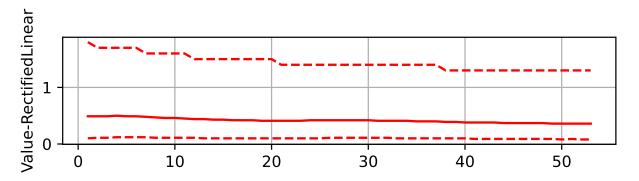
 $FIG.\ 12:\ Per-dimension\ average-(value,\ derivative)\ and\ rms-oderivative\ percentiles\ for\ tdnnf4.relu$

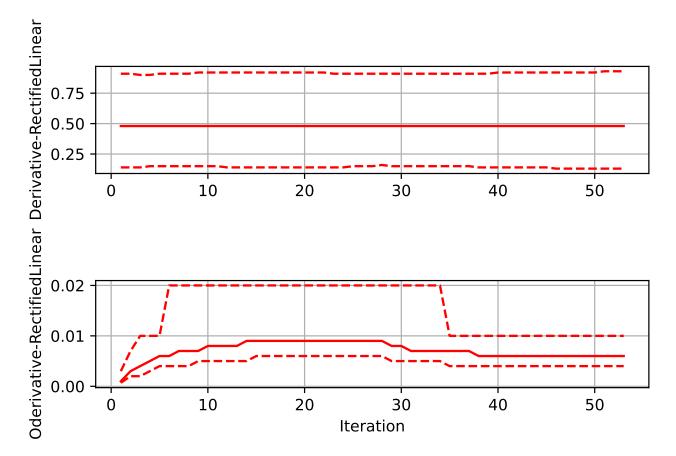






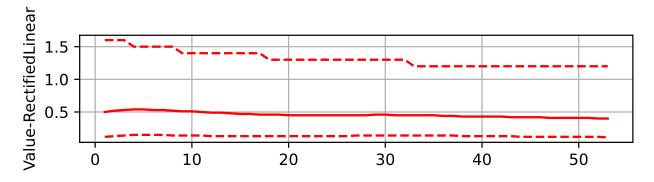
 ${
m FIG.~13:~Per-dimension~average-(value,~derivative)}$ and ${
m rms-oderivative~percentiles~for~tdnnf5.relu}$

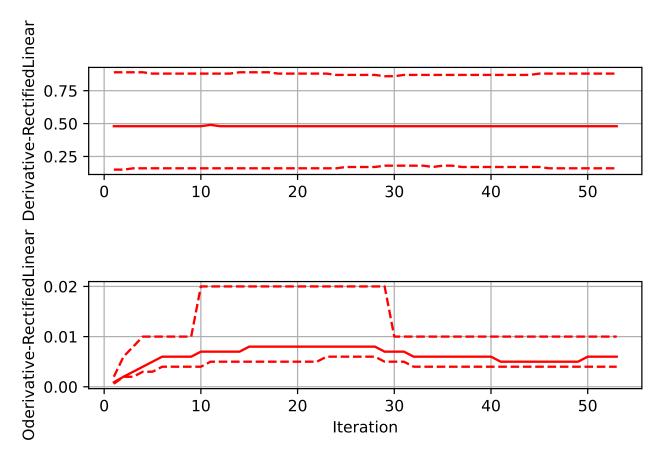






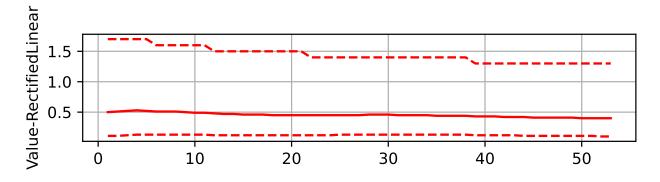
 $FIG.\ 14:\ Per-dimension\ average-(value,\ derivative)\ and\ rms-oderivative\ percentiles\ for\ tdnnf6.relu$

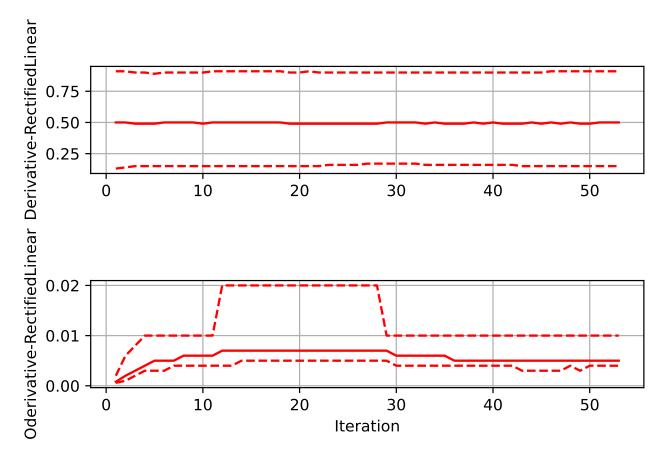






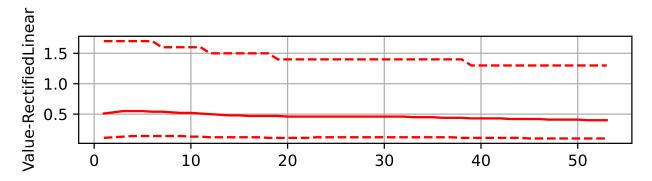
 ${
m FIG.~15:~Per-dimension~average-(value,~derivative)}$ and ${
m rms-oderivative~percentiles~for~tdnnf7.relu}$







 $FIG.\ 16:\ Per-dimension\ average-(value,\ derivative)\ and\ rms-oderivative\ percentiles\ for\ tdnnf8.relu$



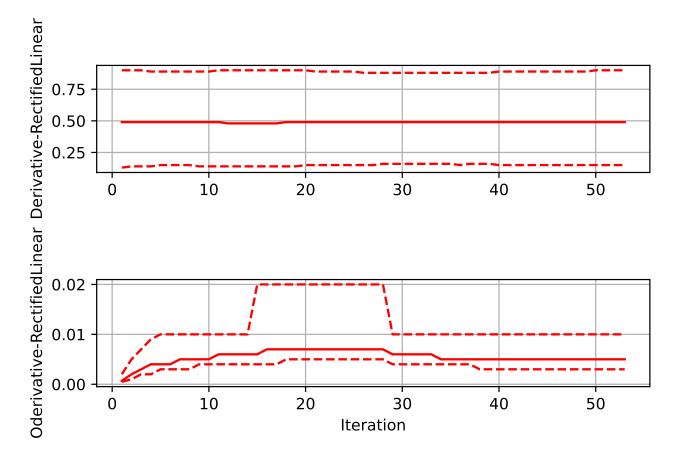
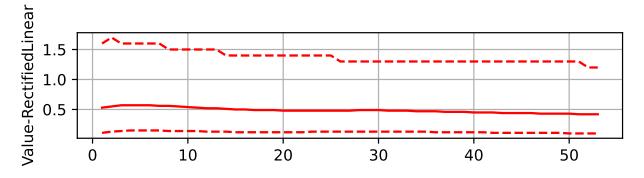
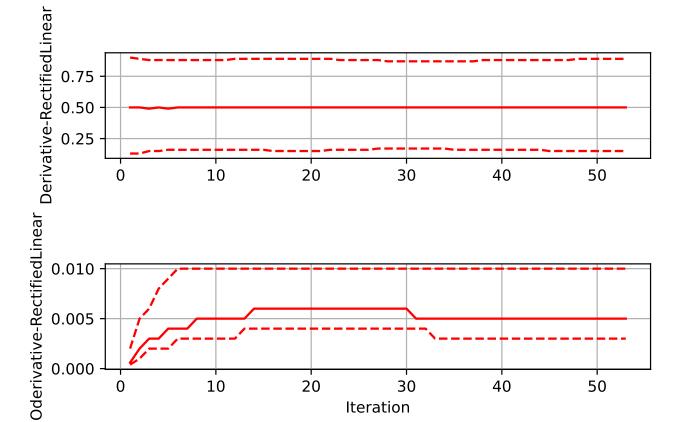




FIG. 17: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf9.relu

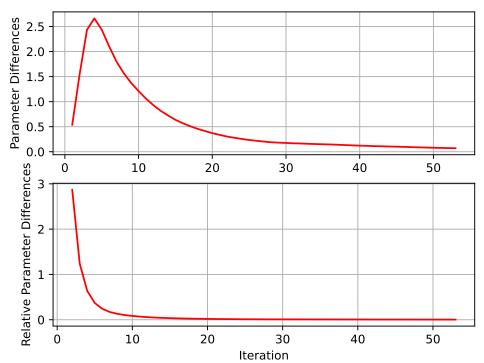




0.000



Iteration



 ${\rm FIG.}\ 18:$ Parameter differences at output-xent.affine

1.5 Relative Parameter Differences Parameter Differences 1.0 0.5 0.0 50 40 10 20 Ó 30 1.5 1.0 0.5 0.0 0 10 20 30 40 50 Iteration

 ${\rm FIG.}\ 19$: Parameter differences at output.affine

Parameter Differences 0.6 0.4 0.2 50 10 20 30 40 Relative Parameter Differences 0.0150 0.0125 0.0100 0.0075 0.0050 0.0025 10 20 50 0 30 40 Iteration

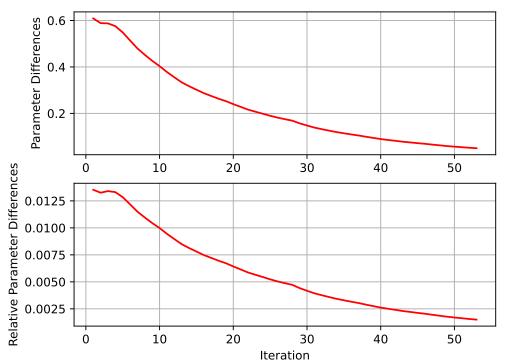
 ${\rm FIG.}\ 20:$ Parameter differences at prefinal-chain.affine

Parameter Differences 3 1 50 40 10 20 30 Relative Parameter Differences Ó 0.25 0.20 0.15 0.10 0.05 0.00 10 Ò 20 30 40 50 Iteration

 ${\rm FIG.}\ 21:$ Parameter differences at prefinal-chain.linear

Parameter Differences 3 50 20 40 10 30 Relative Parameter Differences Ó 0.25 0.20 0.15 0.10 0.05 0.00 20 10 Ò 30 40 50 Iteration

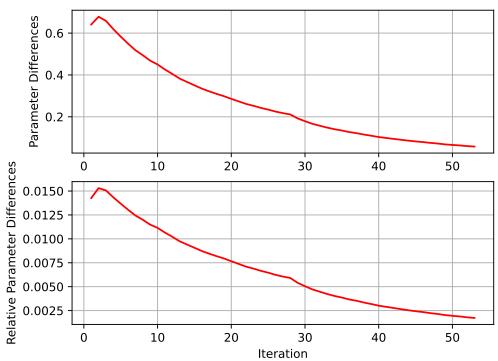
FIG. 22: Parameter differences at prefinal-1



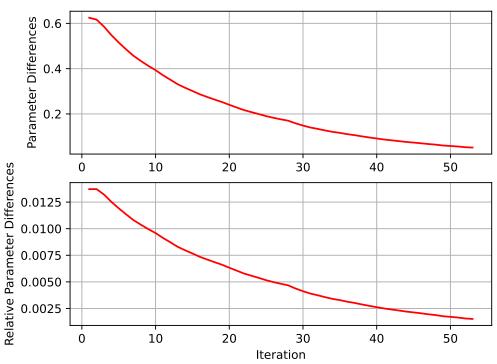
 ${\rm FIG.}\ 23:$ Parameter differences at prefinal-xent.affine

Parameter Differences 3 1 50 40 10 20 30 Relative Parameter Differences Ó 0.25 0.20 0.15 0.10 0.05 0.00 10 Ò 20 30 40 50 Iteration

FIG. 24: Parameter differences at prefinal-xent.linear



 ${\rm FIG.}\ 25:$ Parameter differences at tdnn1.affine



 ${\rm FIG.}\ 26:$ Parameter differences at tdnnf10.affine

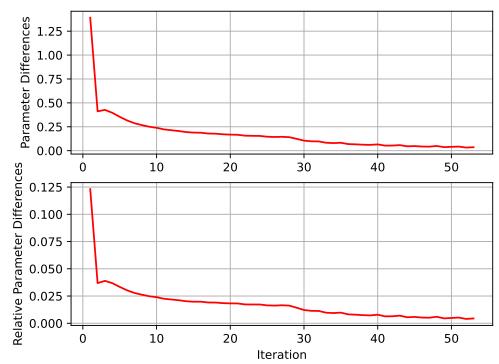


FIG. 27: Parameter differences at tdnnf10.linear

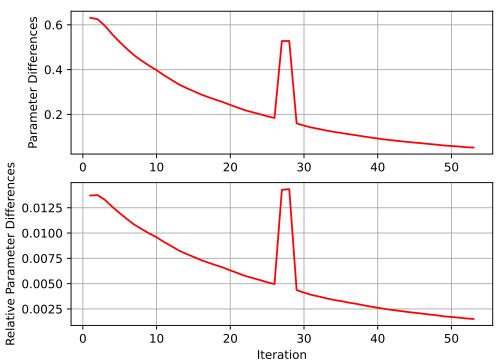


FIG. 28: Parameter differences at tdnnf11.affine

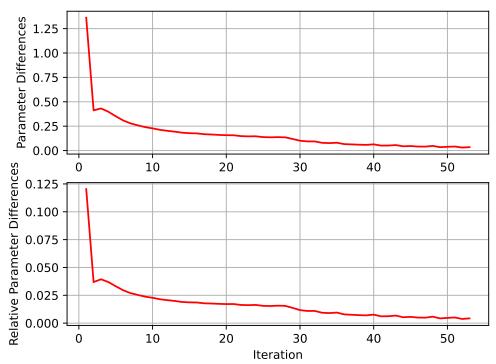
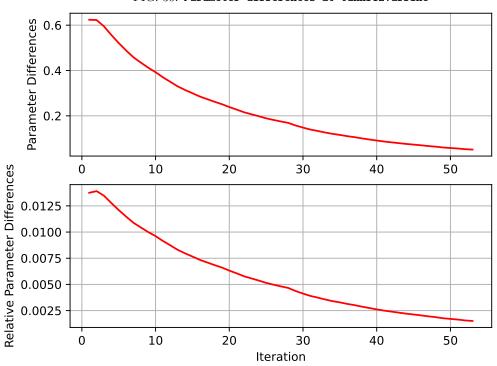


FIG. 29: Parameter differences at tdnnf11.linear



 ${\rm FIG.~30:}$ Parameter differences at tdnnf12.affine

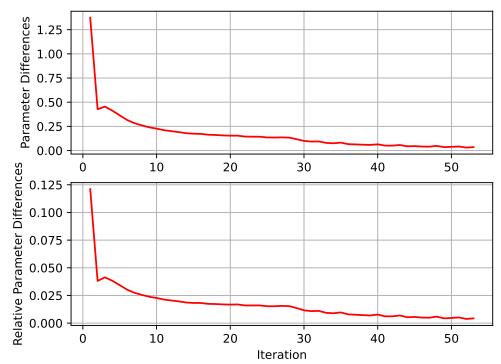
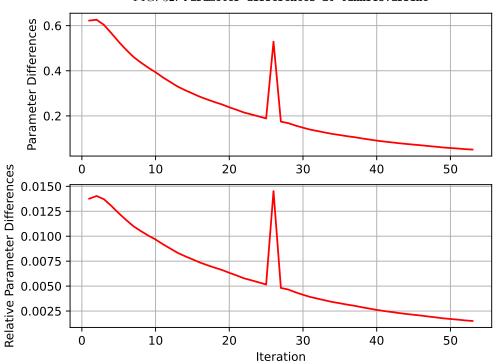


FIG. 31: Parameter differences at tdnnf12.linear



 ${\rm FIG.~32:}$ Parameter differences at tdnnf13.affine

1.25 1.00 1.00 1.00 0.75 0.00 0.125 0.000 0.0050 0.00

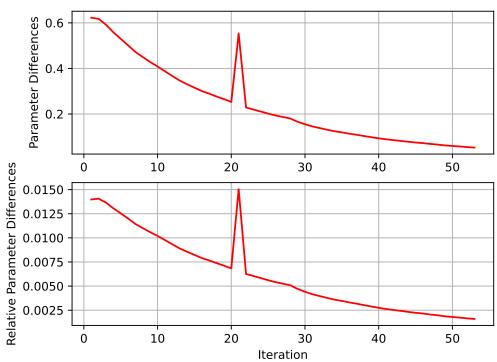
FIG. 33: Parameter differences at tdnnf13.linear

Parameter Differences 0.6 0.4 0.2 Relative Parameter Differences 0.0150 0.0125 0.0050 0.0055 0.0055 50 20 10 30 40 0 30 Iteration 40 Ó 10 50 20

 ${\rm FIG.~34:}$ Parameter differences at tdnnf2.affine

1.25 1.00 1.00 0.75 0.00 0.125 0.00 0.125 0.00 0.125 0.00 0.005 0.0

FIG. 35: Parameter differences at tdnnf2.linear



 $FIG.\ 36:\ \textbf{Parameter differences at tdnnf3.affine}$

1.25 1.00 1.00 0.75 0.00 0.125 0.000 0.125 0.000 0.100 0.005

FIG. 37: Parameter differences at tdnnf3.linear

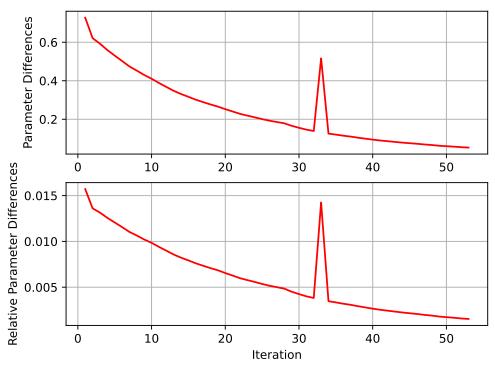
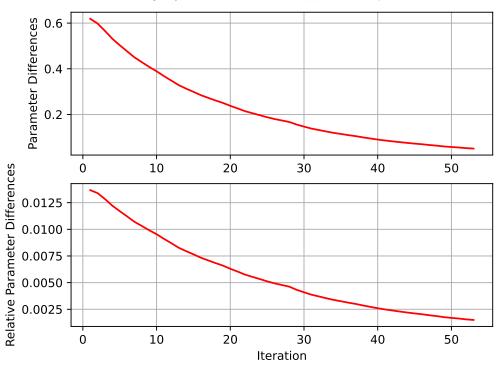


FIG. 38: Parameter differences at tdnnf4.affine

1.25 1.00 1.00 0.75 0.00 0.125 0.000 0.125 0.000 0.005

FIG. 39: Parameter differences at tdnnf4.linear



 ${\rm FIG.~40:}$ Parameter differences at tdnnf5.affine

2.0 1.5 1.5 0.00 0 10 20 30 40 50

Read of the latest of t

FIG. 41: Parameter differences at tdnnf5.linear

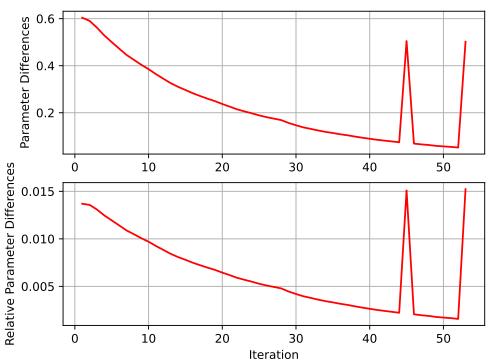


FIG. 42: Parameter differences at tdnnf6.affine

1.25 1.00 1.00 1.00 0.75 0.00 0.125 0.000 0.005 0.0050 0.005

FIG. 43: Parameter differences at tdnnf6.linear

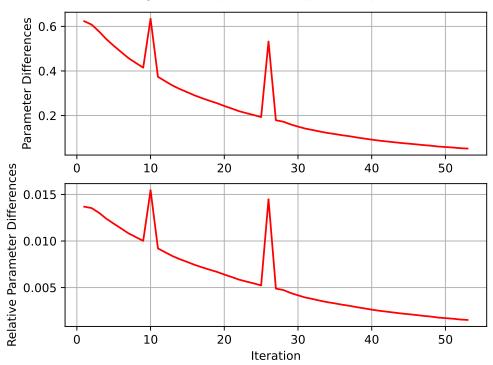


FIG. 44: Parameter differences at tdnnf7.affine

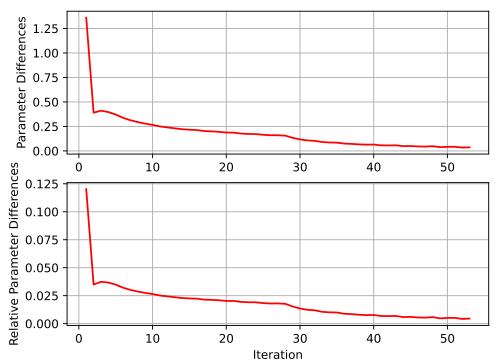
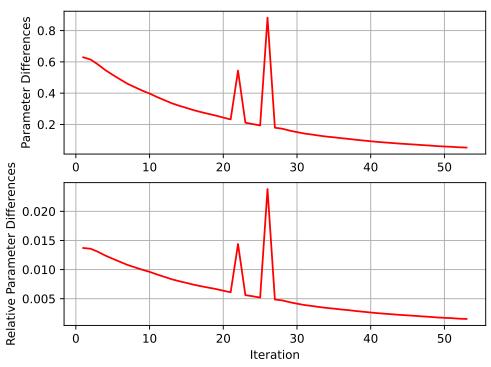


FIG. 45: Parameter differences at tdnnf7.linear



 ${
m FIG.~46:}$ Parameter differences at tdnnf8.affine

Relative Parameter Differences Parameter Differences 1.25 1.00 0.75 0.50 0.25 0.00 50 40 20 30 0 10 0.100 0.075 0.050 0.025 0.000 Ó 10 30 Iteration 40 50 20

FIG. 47: Parameter differences at tdnnf8.linear

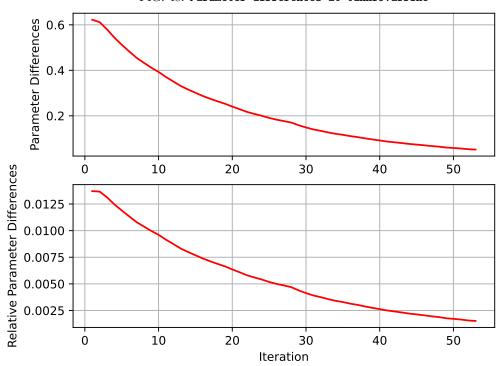


FIG. 48: Parameter differences at tdnnf9.affine

Relative Parameter Differences Parameter Differences 1.25 1.00 0.75 0.50 0.25 0.00 50 40 20 30 0 10 0.125 0.100 0.075 0.050 0.025 0.000 Ó 10 30 Iteration 40 50 20

FIG. 49: Parameter differences at tdnnf9.linear