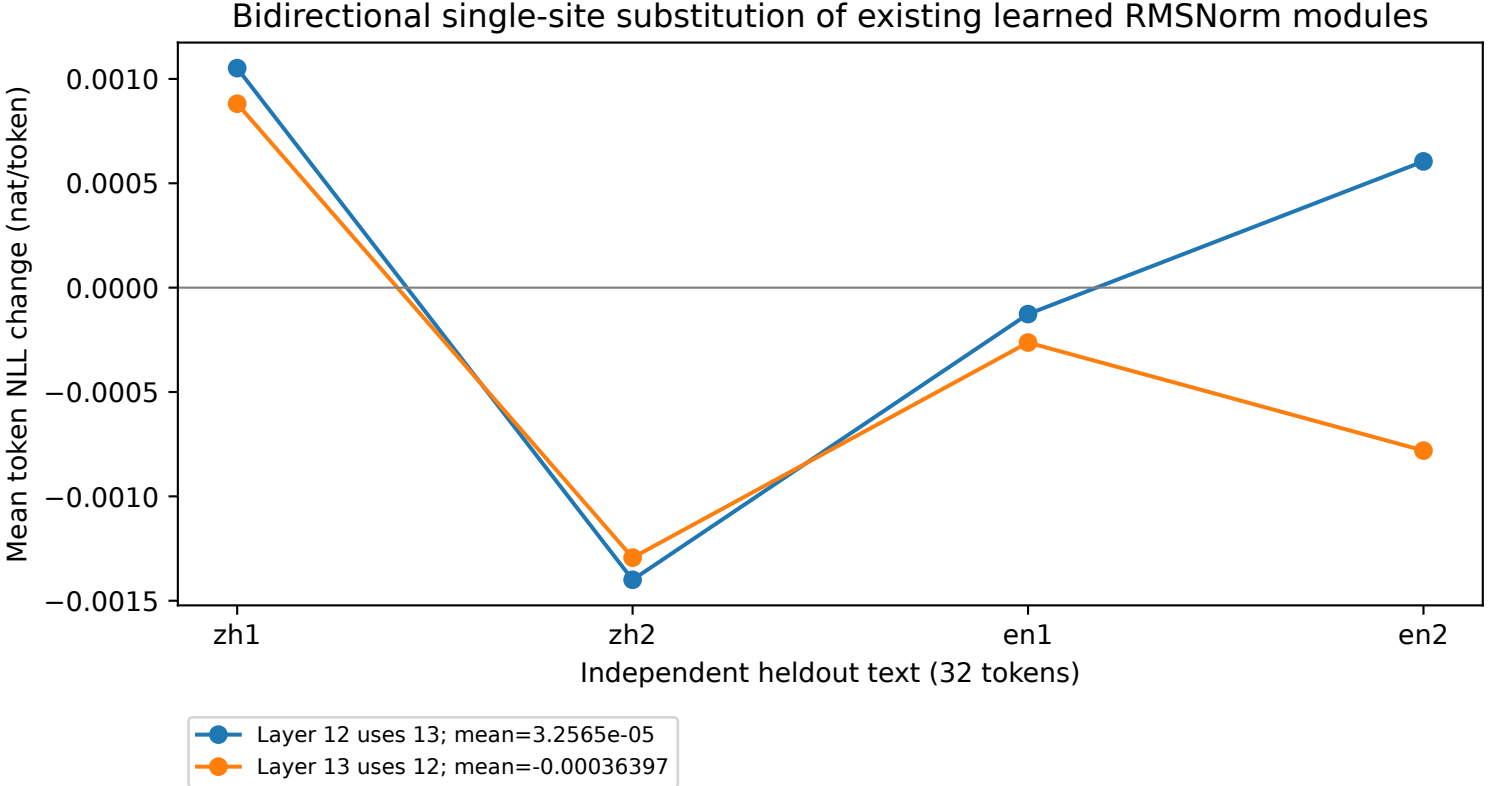

Bidirectional single-site substitution of existing learned RMSNorm modules
Mean token NLL change (nat/token)
0.0010
0.0005
0.0000
−0.0005
−0.0010
−0.0015
zh1
zh2
en1
en2
Independent heldout text (32 tokens)
Layer 12 uses 13; mean=3.2565e-05
Layer 13 uses 12; mean=-0.00036397