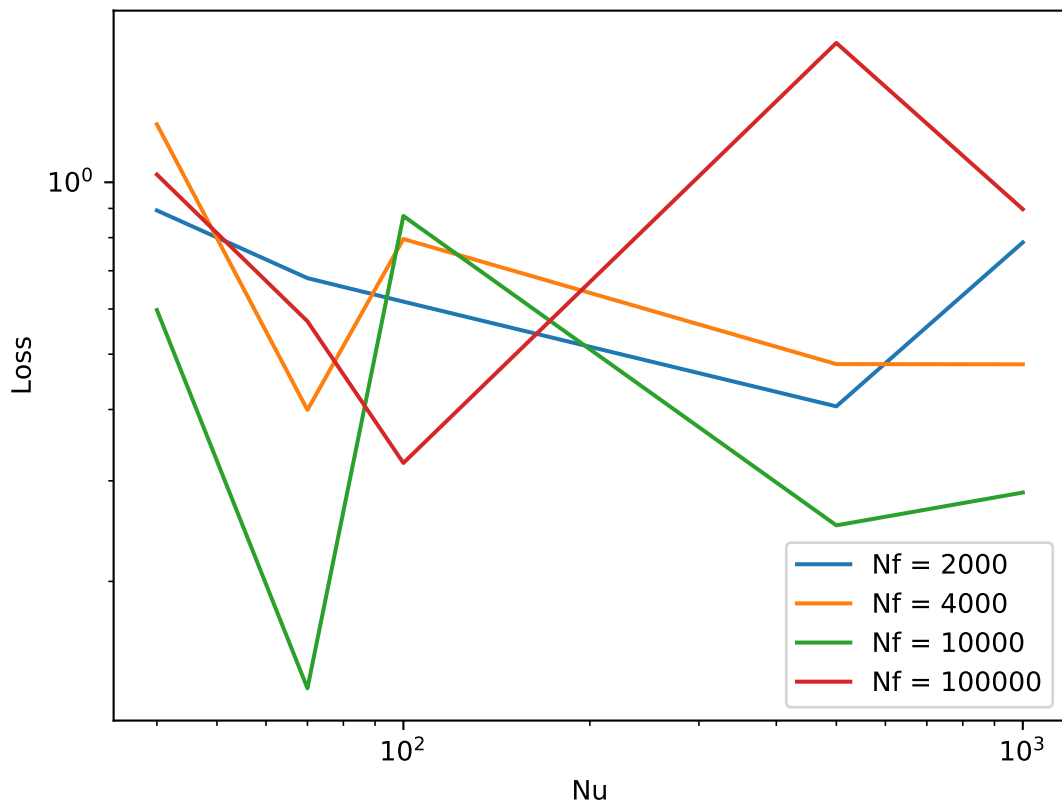Neural network's Nf/Nu test:
Adam epochs -> 500
L-BFGS iterations -> 2000
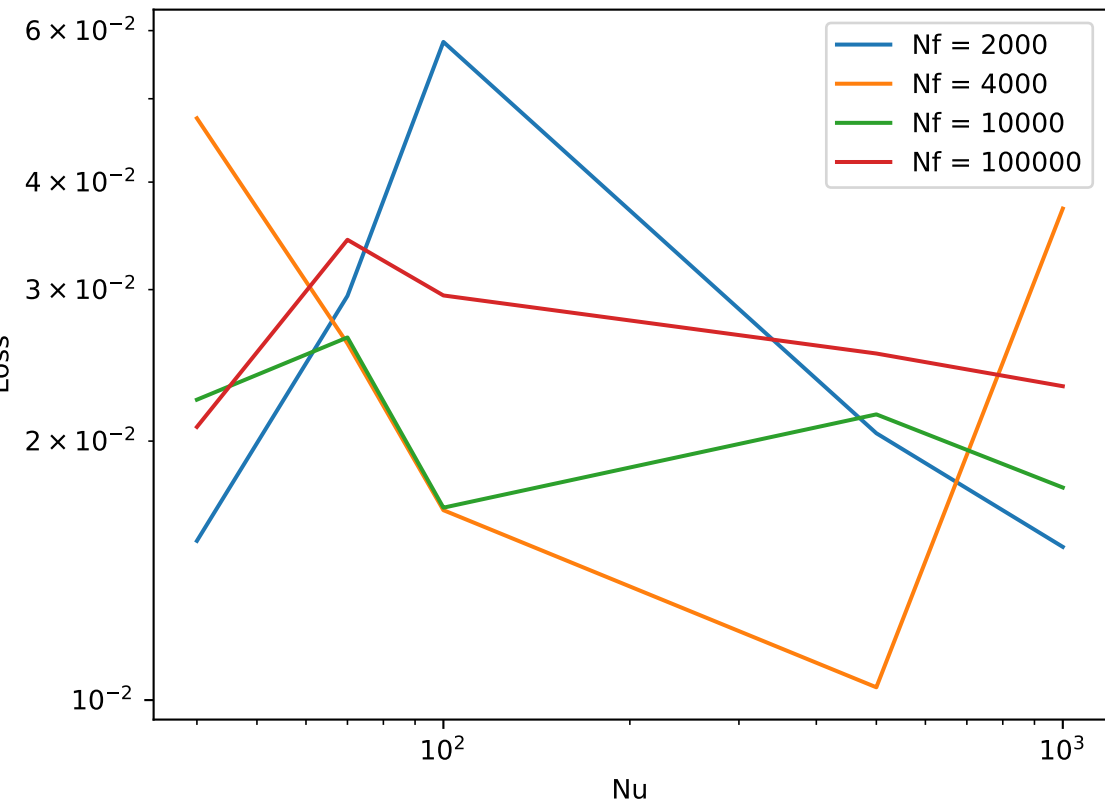Neural network's structure -> 10 hidden layers of 5 neurons
Working period -> 1.0 s
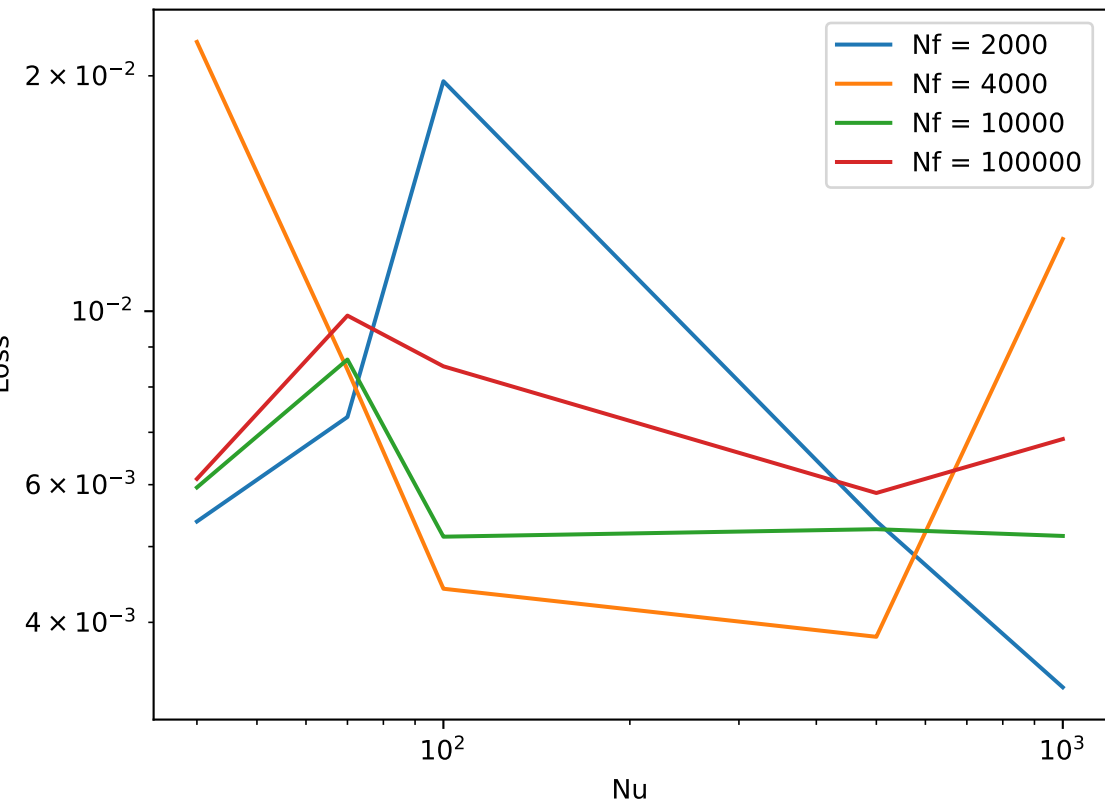Validation points -> 10% of Nf

Final validation loss

Final train total loss

Final train u loss

Final train f loss