

CS 797O: Neural Nets and Deep Learning

Unit 2: Assignment 4- Neuralworks Part 2

Digits Network

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1 Configuration 3: 441/50/10

No. of Hidden Layers Used = 1 (Hid 1)

No. of Neurons in Hidden Layer 1 = 50

Learn Rule = Delta

Transfer Function = Sigmoid

1.1 Network Training

Training RMS Error = 0.0798

Training Classification Rate = 0.9617

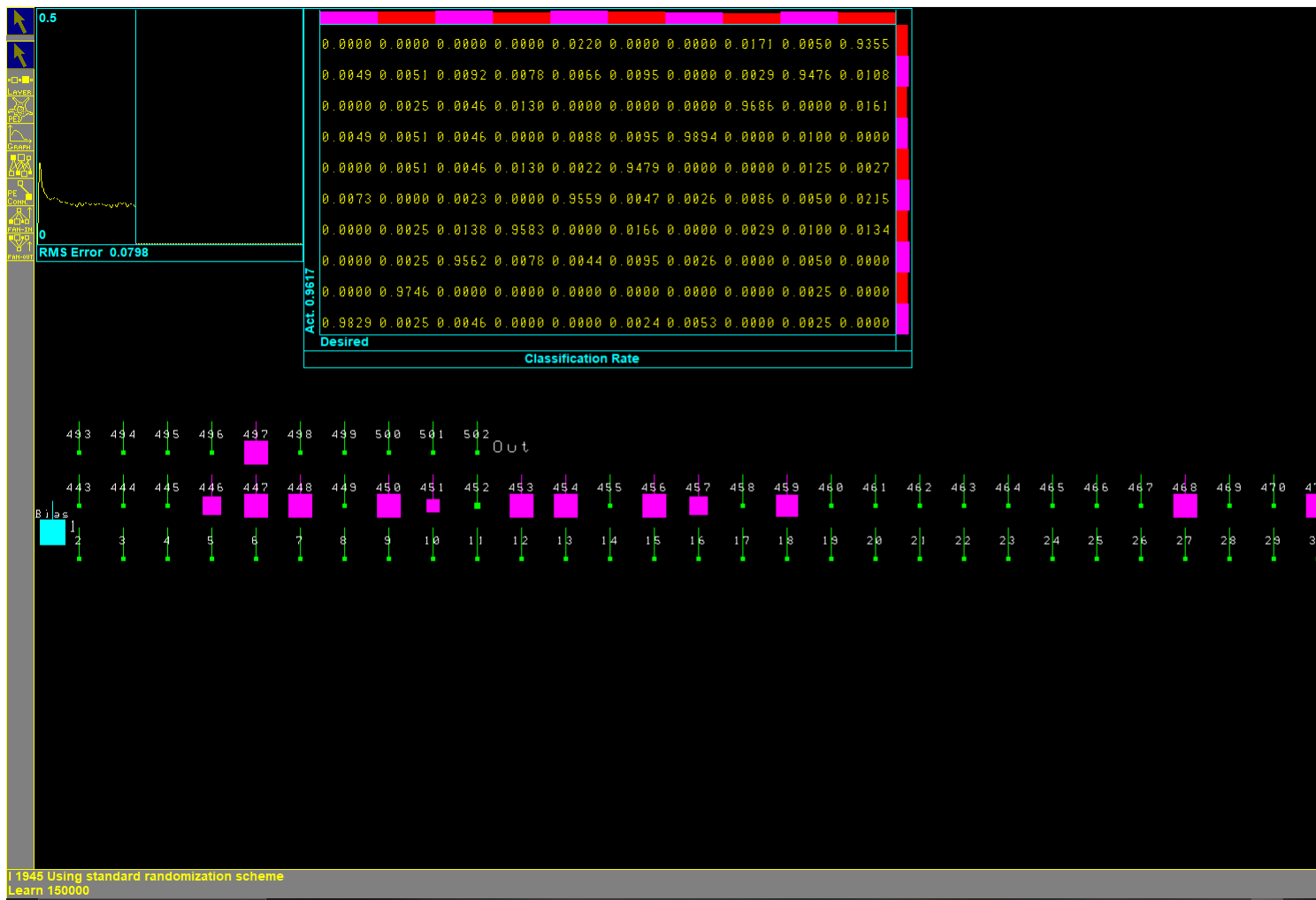


Figure 1: Configuration 3 Training

1.2 Network Testing

Testing RMS Error = 0.0881

Testing Classification Rate = 0.9522

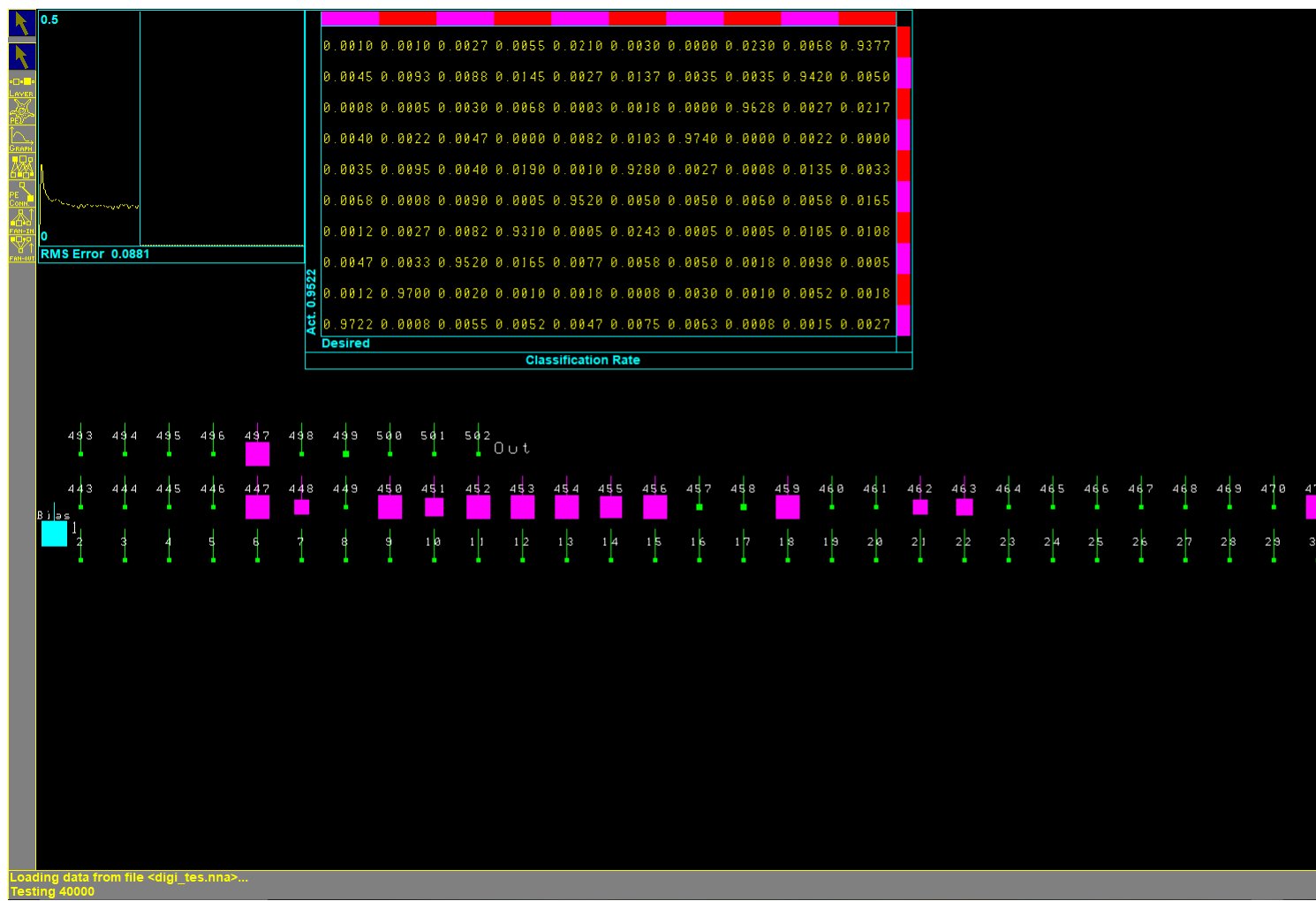


Figure 2: Configuration 3 Testing

1.3 Network Configuration

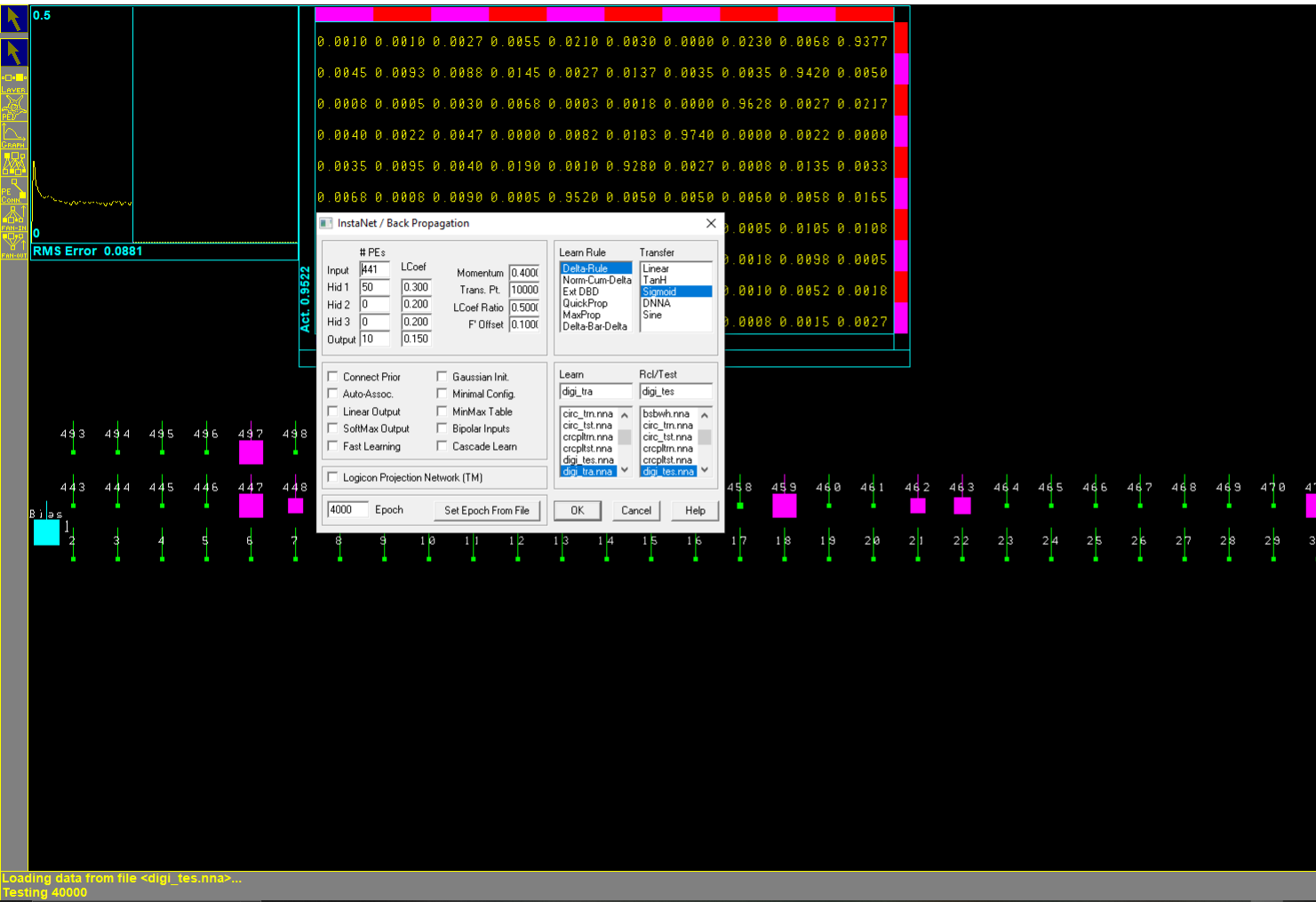


Figure 3: Configuration 3