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Course: Application Programming in MATLAB Environment 2000

Exercises 11–12

Speeding up training of MLP by using a MEX-file.
Building GUI for MLP.

Problem 1

Pick up the MEX-file `mlp.c` from the course homepage and complete it to be used as an external routine for computing the values of function and derivatives for training the MLP. Compile the final MEX-file and test it using the corresponding MATLAB-files. Finally, use the MEX-routine in `mlp_out.m`, `mlp_cost.m` and `mlp_grad.m` and see how long does it take to train the network then (`tic ... tac`)?

Problem 2

Build a GUI for sin-function approximation. You can desing the layout by yourself or use a similar structure that was proposed in the lecture notes.