Digital Signal Processing Homework 1

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Environment

OS: macOS 10.12.1 (16B2555)

2 | Compiler: Apple LLVM version 8.0.0 (clang-800.0.42.1)

Target: x86_64-apple-darwin16.1.0

4 Thread model: posix

5 | Processor: Intel(R) Core(TM) M-5Y71 CPU @ 1.20GHz

Instructions

1. Compiling: command make will compile three binaries: train, test, accuracy

2. Training:

Usage: ./train [iteration] [Initial Model file] [Input sequence file] [output file]

3. Testing: Usage: ./test [Model list] [Testing Sequence file] [output file]

4. Get accuracy:

Usage: ./accuracy [Test output file] [Answer file] [output accuracy file]

Additional Analysis

Iterations	Accuracy	Running Time
1	0.766	0.843s
5	0.6484	3.720s
10	0.5408	7.529s
50	0.8228	34.207s
100	0.81	1m 10.432s
500	0.856	6m 13.623s
1000	0.8696	12m 21.764s
5000	0.8676	68m 42.761s



