DSP HW1

- Discrete Hidden Markov Model Impletation –

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Environment:

- Windows Bash on Windows 10(WSL)
- gcc version 4.8.4 (Ubuntu 4.8.4-2ubuntu1~14.04.3)
- Ryzen 5 1600, DDR4 2400MHz, SSD, GPU doesn't matter.
- Tested on CSIE Workstation linux8.

How to execute:

- make
- ./train [iterations] [model_init.txt] [seq_model.txt] [target_model.txt]
- ./test [modellist.txt] [testing_data.txt] [result.txt]
- ake clean

Summary of your results:

- Run 900 iterations, and get the accuracy of 87.04 on testing_data1.txt
- Using –O2 optimization, so one model (1200 iterations) costs 5 minutes only.
- From about 550 iterations, accuracy is concussing between 0.86 to 0.8704.
- Best accuracy begins at iteration 888, and I took 900 as final result.