

Digital Signal Processing HW3

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1 Environment

1.1 System : macOS Sierra

1.2 Processor : 2 GHz Intel Core i5

1.3 Memory : 16 GB 1867 MHz LPDDR3

2 Compile Instruction

2.1 make map : Generate ZhuYin-Big5.map

2.2 make all : Generate executable mydisambig

3 Execute Instruction

3.1 make run : Decode testdata/1.txt~10.txt
using mydisambig into result2/1.txt~10.txt.

ex: ./mydisambig -text xxx -map yyy -lm zzz

-order n > output.txt

xxx = input text file

yyy = map

zzz = language model

4 What have you done?

4.1 Setpath script : To set the path of srilm
source code and libraries.

4.2 Splitting script : To spilt all the
testdata by using separator_big5.pl.

4.3 mapping.py : Use the "dict" data structure
to store the information of the characters'
mapping and export it as ZhuYin-Big5.map.

4.4 mydisambig.cpp : After reading some .h file
in the srilm, I use some pretty helpful
function in Ngram.h and Prob.h to help me
implement my mydisambig.cpp.