DSP hw3

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1. run my program

generate language model

in terminal, the following command will output lanmodel.lm as language model

```
$ make lanmodel
```

- generate 注音 to 字 mapping
 - \$1 is the Big5-ZhuYin mapping file and \$2 is the output ZhuYin-Big5 mapping file

```
$ make map FROM=$1 TO=$2
```

● decode 注音文

\$1 is the segemented file to be decoded, \$2 is the ZhuYin-Big5 mapping file, \$3 language model file and \$4 is the decoded output file

```
./mydisambig $1 $2 $3 $4
```

• I diff the decoded output file with mydisambig and SRILM disambig (with perled testdata as input in both commands), it turns out their outputs are exactly the same.

2. running time

I use time command to calculate execution time as follows.

file	execution time
1.txt	13.602 s
2.txt	22.182 s
3.txt	13.370 s
4.txt	18.561 s
5.txt	13.823 s
6.txt	27.593 s
7.txt	20.392 s
8.txt	22.016 s
9.txt	24.488 s
10.txt	37.722 s
example.txt	19.922 s
<avg></avg>	∼ 21.242 s

3. Reference

- b06902017
- Internet: c++, python, Makefile