

National Taiwan University

# Digital Speech Processing: Report #3

EE2 b03901016

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## 1 Introduction

This program aim to fix sentences which contains ZhuYin to the most suitable sentences contains only Chinese words, based on the related language model.

## 2 Environment

- OS : Linux mint 17.2 Rafaela
- Machine Type : i686-m64
- Kernel : x86\_64 Linux 3.16.0-38-generic
- Shell : zsh 5.0.2

## 3 Usage

- How to compile :  
At the path includes Makefile, bigram.lm, Big5-ZhuYin.map, mapping.cpp, mydisambig.cpp
  1. `make clean`: Initialization
  2. `make map`: create ZhuYin-Big5.map from Big5-ZhuYin.map
  3. `make`: Build mydisambig

- How to execute :  
First create ZhuYin-Big5.map,  
ex.  
`./mapping Big5-ZhuYin.map ZhuYin-Big5.map`  
where `argv[1]` is the input and `argv[2]` is the output.

At the path includes `testdata/`, simply type `make run` to run through all the files in `testdata/`, and check all the outputs at `result2/`.

For more details about `mydisambig`, as an example,

ex.

`./mydisambig testdata.txt output.txt`

where `argv[1]` is the input testdata, `argv[2]` is the output file.