

DSP HW3 Report

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A) My Environment

64-bit linux PC. distro: openSUSE.

B) How to compile

You should have gcc that supports the 'c++11' standard.

Then you should use the makefile to compile.

You could just type 'make SRIPATH=/data/DSP_HW3/103_2/srilm-1.5.10 all' to compile. You may see some compilation warnings which are all totally harmless.

C) How to execute

You should use the makefile to execute.

First you should compile the source codes. Type 'make all'.

Then you generate ZhuYin-Big5 mapping. Type 'make map'.

Last you execute 'mydisambig'. Type 'make run'.

If you don't like to use makefile script, the usage of mydisambig is './mydisambig [text file] [vocabulary mapping] [language model]'.

D) What I have done

I use SRILM's functions to parse the language model file and testdata files.

Then I use the parsed bi-gram model and viterbi algorithm to find a sub-optimal probability path and output the found word sequence.