

# Mac Hanin Software

# Hanin Dictionary Maker Manaul

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ТМ	РМ	Prepared
Youko Ohiwa	Wu Jia-Kwan	Wu Jia-Kwan



Panasonic Taiwan Laboratories Co., Ltd. (PTL)

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#### 1. Introduction

#### 1.1 Abstract

*HDicMaker* is a utility to build the binary dictionary using text files of Chinese character and word lists for Hanin input algorithm. *HDicMaker* is a Win32 console application developed using Microsoft Visual C++ v6.0. It can be executed on a console terminal on Windows environment.

This document introduces the usage of *HDicMaker* to demonstrate how to build a Hanin executable dictionary. This document also describes the format of Hanin dictionary both of text file and binary file.

#### 1.2 References

The following documents are inputs of this specification. When changes are made to the following documents, these changes will impact this specification.

- [1] Liu Guei-Ji, Data Structure Modification for Hanin Dictionary, Technical Report PTL8804, Panasonic Taiwan Laboratories Co., Ltd., Jun 21, 1999
- [2] Liu Guei-Ji, Tools for Hanin Dictionary Maintenance, Technical Report MITT8737, Matsushita Electric Institute of Technology (Taipei) Co., Ltd., Mar 4, 1999
- [3] Ouyang Yen-I & Lin Chin-Hsuen, Tools for Hanin System,
  Technical Report MTT8638, Matsushita Electric Institute of
  Technology (Taipei) Co., Ltd., Mar 31, 1998

# 2. Usage of HDicMaker

#### 2.1 Build a Hanin Executable Dictionary

#### **Syntax**

#### HDicMaker <character file> <word file> <target file> <label name>

where, < character file> is a pre-prepared fixed format of character dictionary. Currently, this character dictionary is **char.v4.cmp**.

<word file> is the filename of text format of words

<target file> is the filename of binary dictionary to be created

<label name> is the label string of this binary dictionary

#### **Example**



HDicMaker char.v4.cmp hv5.big HaninDic 系統

#### 2.2 Build an Aimei Dictionary

### **Syntax**

HDicMaker <aimei text file> <aimei binary file>

where, <aimei text file> is the text format of aimei zhuyin

<aimei binary file> is the filename of binary aimei dictionary to be created

# **Example**

HDicMaker aimei.big AimeiDic

## 3. Format of Hanin Text Dictionary

In Hanin text dictionary, each line contains zhuyin fuhao, Chinese characters code, and word frequency regarding word. It can't put any space between these items to be a separator.

### **Example**

If the first character in a line is '|' (0x7C), this line is regarded as a comment line. For example:

```
| 漢音 5.0 版詞庫格式說明
| 頻率:
| 2字詞: ケチィケラ∨白板 42
```

Regarding aimei dictionary, its format is different than other Hanin dictionaries. In the aimei text file, each line contains a zhuyin fuhao and following zhuyin fuhaos which are aimei-yin of the first zhuyin fuhao.

## **Example**

5Y15Y15Y25Y35Y45Y55Y5

It means  $\forall Y 1, \forall Y 2, \forall Y 3, \forall Y 4, \forall Y 5, \forall Y 5$  are aimei-yin of  $\forall Y 1$ .

# 4. Format of Hanin Binary Dictionary

The architecture of the Hanin binary dictionary is shown as below.

$$0 \times 0000$$
 IDX1 (size = sizeof(IDX1) \* MD\_MAX\_IDX)



0x0200	Hanin Version (12 bytes), Label Name (12 bytes)
0x0400	IDX2 (size = sizeof(IDX2) * 3550[1])
	[1] The number of records of IDX2 will be increased if the number of words in dictionary is increased.
0x5C00	Chinese Character Cache Area
0xAC00	Chinese Character & Chinese Word
	(Chinese character & Index3 area for leading two compress code)