1. Introduction

In the book named Quanguo Zhuyao Fangyanqu Fangyin Duizhaobiao published by Chinese Character Reform Commission in 1954, I found there were also several unencoded Bopomofo letters, some are for the Cantonese usages, and others are for other Chinese dialects usages. The Cantonese Bopomofo letters were also published by the Guangdong Province Governments after the founding of PRC, please see Fig. 1. I trust these letters are very useful but I am aware that the current evidences are not sufficient enough.

ㆼ and ㆽ are the initials (聲母), the corresponding IPA values are \([k^w-]\) and \([k^{hw}-]\), and the Cantonese pinyin used for these two initials are GW- and KW- in the Unihan Database. For example, the kCantonese property value for 鬼 (U+9B3C) is gwai2, which the corresponding Bopomofo sequence should be ㆼ ㄟ; the kCantonese property value for 葵 (U+8475) is kwai4, which the corresponding Bopomofo sequence should be ㆽ ㄟ.

ㆾ and ㆿ are the finals (韻母), the corresponding IPA values are \([œ]\) or \([ø]\) and \([ɐ]\), and the Cantonese pinyin used for these two initials are OE or -EO- and -A- in the Unihan Database. For example, the kCantonese property value for 梁 (U+6881) is loeng4, which the corresponding Bopomofo sequence should be ㄌ ㄧ; the kCantonese property value for 雷 (U+96F7) is leoi4, which the corresponding Bopomofo sequence should be ㄌ ㄧ; the kCantonese property value for 墨 (U+58A8) is mak6, which the corresponding Bopomofo sequence should be ㄇ ㄈ.

<table>
<thead>
<tr>
<th>Bopomofo</th>
<th>IPA</th>
<th>kCantonese</th>
</tr>
</thead>
<tbody>
<tr>
<td>ㄆ</td>
<td>k^w-</td>
<td>gw</td>
</tr>
<tr>
<td>ㄈ</td>
<td>k^{hw}-</td>
<td>kw</td>
</tr>
<tr>
<td>ㄩ</td>
<td>œ / ø</td>
<td>oe / -eo-</td>
</tr>
<tr>
<td>ㄫ</td>
<td>u</td>
<td>-a-</td>
</tr>
</tbody>
</table>
2. Proposed characters

<table>
<thead>
<tr>
<th>Code</th>
<th>Char</th>
<th>Bopomofo Letter</th>
</tr>
</thead>
<tbody>
<tr>
<td>31BC</td>
<td>女</td>
<td>BOPOMOFO LETTER GW</td>
</tr>
<tr>
<td>31BD</td>
<td>女</td>
<td>BOPOMOFO LETTER KW</td>
</tr>
<tr>
<td>31BE</td>
<td>女</td>
<td>BOPOMOFO LETTER OE</td>
</tr>
<tr>
<td>31BF</td>
<td>女</td>
<td>BOPOMOFO LETTER AH</td>
</tr>
</tbody>
</table>

3. Ordering

The native ordering for the list of Bopomofo letters for Cantonese is shown as below according to Fig. 1.

ㄅ < ㄆ < ㄇ < ㄈ < ㄉ < ㄊ < ㄋ < ㄌ < ㄍ < ㄎ < ㄫ < ㄏ < ㄐ < ㄑ < ㄒ < ㄢ < ㄣ < ㄤ < ㄥ < ㆼ < ㆽ < ㆾ < ㆿ

< ㄐ < ㄐ < ㄑ < ㄒ < ㄢ < ㄣ < ㄤ < ㄥ < ㆼ < ㆽ < ㆾ < ㆿ

*Fig. 1 List of Cantonese Bopomofo Letters published by Guangdong Province Government*

However, other 29 letters had been encoded in Unicode, 1.0. So, the ordering for four unencoded letters should be shown as below.

ㄅ < ㄚ < ㄤ < ㄏ

4. Unicode Properties

Block: Bopomofo Extended
Script: Bopomofo

31BC;BOPOMOFO LETTER GW;Lo;0;L;;;;;N;;;;;
31BD;BOPOMOFO LETTER KW;Lo;0;L;;;;;N;;;;;
31BE;BOPOMOFO LETTER OE;Lo;0;L;;;;;N;;;;;
31BF;BOPOMOFO LETTER AH;Lo;0;L;;;;;N;;;;;
5. Evidence

Fig. 2 Quanguo Zhuyao Fangyanqu Fangyin Duizhaobiao, P. 17
Fig. 3 Quanguo Zhuyao Fangyanqu Fangyin Duizhaobiao, P. 35
Fig. 4 Quanguo Zhuyao Fangyanqu Fangyin Duizhaobiao, P. 39
Fig. 7 Quanguo Zhuyao Fangyanqu Fangyin Duizhaobiao, P. 63
6. Bibliography

7. Acknowledgements
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(End of Document)