ISO/IEC JTC 1/SC 2/WG 2 N3246



DATE: 2007-04-20

ISO/IEC JTC 1/SC 2/WG 2

Universal	Multiple-Octet Coded Character Set (UCS) - ISO/IEC 10646
	Secretariat: ANSI
TITLE:	Proposal to encode two Bopomofo characters in UCS
SOURCE:	TCA
STATUS:	Contribution from Liaison Member
ACTION:	with N3179, for consideration by WG2
DISTRIBUTION:	ISO/IEC JTC1/SC2/WG2
A. Administrative	
1. Title: Proposal	to encode two Bopomofo characters in UCS
2. Requester's name:	TCA
3. Requester type (Me	ember body/Liaison/Individual contribution): Liaison
4. Submission date: _	2007/4/20
5. Requester's referen	ce (if applicable): No
6. Choose one of the f	following:
This is a complet	te proposal: <u>Yes</u>
or, More inform	nation will be provided later: <u>No</u>
B. Technical - Gen	eral
1. Choose one of the f	following:
a. This proposal	is for a new script (set of characters):No
Proposed na	ame of script:
b. The proposal i	s for addition of character(s) to existing block: Yes
	isting block: Bopomofo
2. Number of characte	ers in proposal:2
3. Proposed category	(select one from below - see section 2.2 of P&P document):
A-Contemporary	

B.1-Specialized (small collection) B.2-Specialized (large collection)	
C-Major extinct D-Attested extinct E-Minor extinct	
F-Archaic Hieroglyphic or Ideographic	
G-Obscure or questionable usage symbols	
. Proposed Level of Implementation (1, 2 or 3) (see Annex K in P&P document):1	
Is a rationale provided for the choice? No	
If Yes, reference:	
. Is a repertoire including character names provided? <u>Yes</u>	
a. If YES, are the names in accordance with the "character naming guidelines" in Anne of P&P document? <u>Yes</u>	хL
b. Are the character shapes attached in a legible form suitable for review? <u>Yes</u>	
. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard? <u>the Chinese Foundation for Digitizatio Technology (CMEX)</u>	<u>n</u>
If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used: selena@cmex.org.tw	
. References:	
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? No	
b. Are published examples of use (such as samples from newspapers, magazines, or oth sources) of proposed characters attached? <u>Yes</u>	er
. Special encoding issues:	
Does the proposal address other aspects of character data processing (if applicable) sucl input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclos information)? No	
. Additional Information:	
Submitters are invited to provide any additional information about Properties of the proportion Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casir information, Numeric information, Currency information, Display behaviour information as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence at other Unicode normalization related information. See the Unicode standard at http://www.unicode.org/Public/UNIDATA/UCD.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.	ig such ur, nd
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C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before	? <u>No</u>	
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If YES explain
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? <u>Yes</u>
If YES, with whom? Bureau of Standard, Metrology and Inspection (BSMI)
If YES, available relevant documents: The contract between BSMI and CMEX
3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? Students in primary schools of Taiwan, Linguists
Reference:
4. The context of use for the proposed characters (type of use; common or rare): Bopomofo characters are daily used in all primary education of Taiwan and a lot of publications for children reading
Reference:for example, http://140.111.1.43/b3/body/3624.html, an instance of the on-line dictionary on the MOE website, or http://tw.dictionary.yahoo.com/search?ei=UTF-8&p=%E7%95%A2
5. Are the proposed characters in current use by the user community? <u>Yes</u>
If YES, where? Reference: <u>as mentioned above</u>
6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP? <u>Yes</u>
If YES, is a rationale provided? Yes
If YES, reference: Keep with Bopomofo
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?No
8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence? <u>No</u>
If YES, is a rationale for its inclusion provided?
If YES, reference:
9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? <u>No</u>
If YES, is a rationale for its inclusion provided?
If YES, reference:
10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character? No
If YES, is a rationale for its inclusion provided?
If YES, reference:
11. Does the proposal include use of combining characters and/or use of composite sequences? No If YES, is a rationale for its inclusion provided?

If YES, reference:
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? No
If YES, reference:
12. Does the proposal contain characters with any special properties such as control function or similar semantics?No
If YES, describe in detail (include attachment if necessary):
13. Does the proposal contain any Ideographic compatibility character(s)?No
If YES, is the equivalent corresponding unified ideographic character(s) identified?
If YES, reference:
D. Proposal
There are two characters need to be proposed here for encoding. One is the
character , as BOPOMOFO LETTER HI. And the other one is the
character, as BOPOMOFO LETTER YI. Regarding the requirement of the Bopomofo letter HI and evidence, since it has been explained in document N3179. It won't be mentioned here again.
As we know the UCS contains a number of Bopomofo characters in the Bopomofo block (U+3100-U+312F) and the Bopomofo Extended block (U+31A0-U+31BF). Therefore, this document is proposed here for encoding at U+312E, as BOPOMOFO LETTER YI.
Under the Microsoft Windows OS, it is queer that Character and
Character are using the same code, U+3127. But in the UCS, the code,
U+3127, is mapping to Character . And there is no other code mapping to
the Character . In Taiwan it is more easy and common to see and to use
the Character than the Character, especially in the field of education or publications

Evidence for this character like in the Chinese dictionaries which are call "國民 常用標準字典"(ISBN957-09-0118-7) and "正中形音義綜合大字典"(ISBN 957-09-1623-0), both of these two dictionaries embodied many Chinese words which need the characters to be part of the phonogram. See figure 1 and 2.

We also can easily to see this character be printed on much kind of publications. For examples, the publication of the Ministry of Education in Taiwan, or the Mandarin daily news(國語日報).
See figure 3, 4 and 5.



Figure 1. one of the table in the "國民常用標準字典"

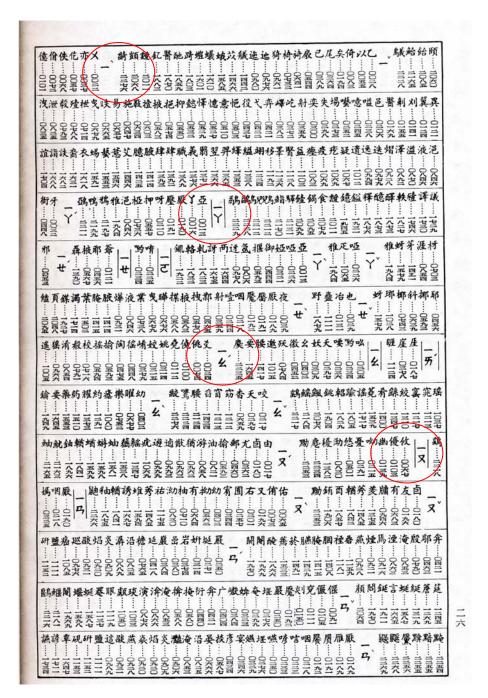


Figure 2 one of the table in the "正中形音義綜合大字典"

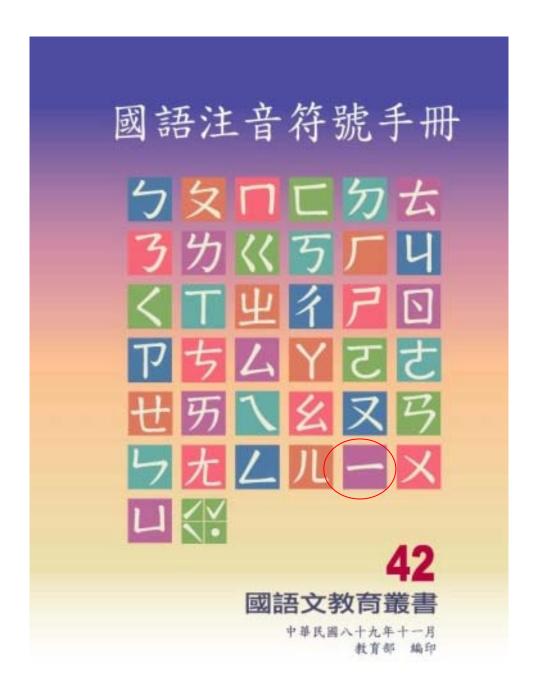


Figure 3. Publication of the Ministry of Education in Taiwan (1)

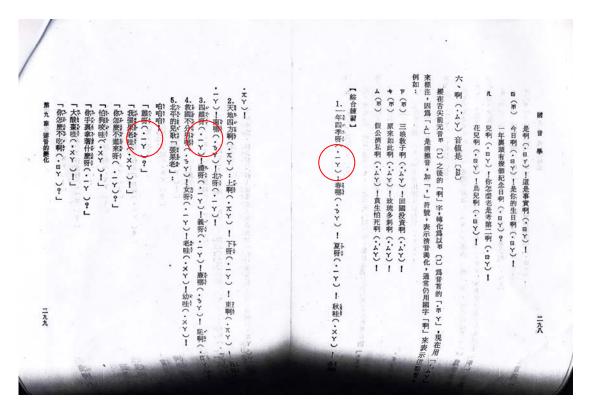


Figure 4. Publication of the Ministry of Education in Taiwan(2)



Figure 5. the Mandarin daily news(國語日報)

總表



- 註:1. 聲符「万」、「兀」、「广」國音不用。
 - 2. 韻符「币」注音時省略不標。
 - 3. 韻符「一」直式注音寫成「一」,橫式注音寫成「 | 」。