

Universal Multiple-Octet Coded Character Set (UCS)

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Title: Adding two Bangjeom chars (Old Hangul tone marks) to UCS-2

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Action: For consideration at Washington D.C> WG2 meeting

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*(typed up from hardcopy .. V.S. Umamaheswaran, 2011-10-25)*

We request that two Bangjeom characters (Old Hangul tone marks) be added to UCS-2.

### 1. Background.

- Two Bangjeom's (Old Hangul tone marks), single dot and double dot, were used in Old Hangul in the past.
- Graphically, Bangjeom was attached to the left of a syllable.
- Current UCS-2 has two Bangjeom's (Old Hangul tone marks), 302E and 302F, which are combining characters.
- These two tone marks were supposed to be used with the Hangul combining/non-combining method in 10646 DIS-1.2: 94 non-combining Hangul Jamos (3131 thru 318E) and 94 combining Hangul characters (31A1 thru 31FE).
- However, in the final IS 10646-1, the syllable-initial-peak-final (syllable-IPF) method was adopted and the combining/non-combining method was dropped. The syllable-IPF method uses 240 characters.
- Therefore, the current two tone marks should have been deleted when the combining/non-combining method was dropped in 1992.
- In the syllable-IPF method, there is no base character concept. Therefore, it is not clear where to put the combining tone marks in the character stream: after syl-init char, after syl-peak, or after syl-final char? In other words, it is hard to decide the base character of the combining tone mark.

### 2. Our Proposal

- Add two non-combining Bangjeom's to UCS-2 as follows:

Character Name	Code Point
. Old Hangul single dot Bangjeom:	11FE.
. Old Hangul double dot Bangjeom	11FF.

- Add their usage to the end of Section 24 Hangul Syllable Composition method of 10646-1:
  - An Old Hangul Bangjeom (tone mark) is placed right before a syllable starts:  
that is,
    - right before a precomposed syllable or
    - right before a syllable-initial character
- Disposition of current tone marks (302E and 302F)
  - We suggest that they be deleted from 10646.