






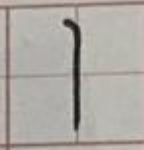

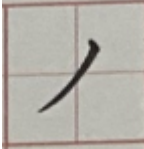
Universal Multiple-Octet Coded Character Set
 International Organization for Standardization
 Organisation Internationale de Normalisation
 Международная организация по стандартизации






Doc Type: Working Group Document
Title: Annotations for CJK strokes used as Hangul strokes
Source: Eiso Chan (陈永聪)
Status: Individual Contribution
Action: For consideration by UTC
Date: 2022-06-18

0. Introduction

In the primary school Korean textbook in China, which is published by [Yanbian Educational Publishing House](#) (延边教育出版社/연변교육출판사), there is a list of Hangul strokes before teaching the modern basic Hangul letters. Maybe it's useful to include them in a Hangul font for China because these strokes are used for the basic education of the Joseon people in China. I don't know if it's also useful for DPRK/North Korea, ROK/South Korea, and Koreans in Central Asia. If other Hangul encoding experts can provide any other comment, it will be valuable for them.

The basic stroke style of Hangul script is derived from Hanzi/Hanja, so the best way to handle the Hangul strokes is to unify them to CJK strokes. The following is my suggestion based on the picture.

U+31D4			점 jeom	1st stroke of ㅈ
U+31D0			검네금 geomneogeum	1st stroke of ㅡ
U+31D1			내리금 naerigeum	1st stroke of ㅣ
U+31D2			삐침 bbicim	1st stroke of ㅅ

U+31C0	ㄱ		치삐침 cibbicim	4th stroke of 파
U+31CF	ㄴ		벌림 beolrim	2nd stroke of ㄴ
U+31C7	ㄷ		웃꺾음 usggeogg'eum	1st stroke of ㄷ
U+31C4	ㄹ		아래꺾음 araeggeogg'eum	1st stroke of ㄹ
U+31E3	ㅇ		동그라미 donggeurami	1st stroke of ㅇ

Please note the followings.

- 1) Jeom and beolrim are both treated as 點 U+31D4 (丶) in Hanzi/Hanja, but they are treated as different strokes for Hangul, and the position of beolrim is similar to that of 捺 U+31CF (㇇) in Hanzi/Hanja, so it's acceptable to unify it to 捺 here.
- 2) Bbicim is not used for the basic Hangul letter, but the last horizontal stroke of the lower left letters would be written as bbicim. This situation is similar to that of Hanzi/Hanja.
- 3) The Hangul letter ㄷ is used for the bottom component of some Idu characters, such as U+5DEA (𪚱), U+3AC7 (𪚱) and so on. We often use U+200D (␣) as the component in IDS, but the current glyph for the Hangul stroke usggeogg'eum is suitable to unify with U+31C7 (ㄷ) not U+31D5 (ㄷ).
- 4) The Hangul letter ㄹ is used for the bottom component of one Idu character, U+4733 (𪚱). We use U+200A (␣) as the component in IDS, but the current glyph for the Hangul araeggeogg'eum is suitable to unify with U+31C4 (ㄹ) not U+31D7 (ㄹ).

1. Proposal

The following is the updated information for NamesList.txt.

31C0	CJK STROKE T
	= hangul stroke cibbicim
	* 2nd stroke of 51B0
	* 4th stroke of D30C
31C4	CJK STROKE SW
	= hangul stroke araeggeogg'eum
	* 3rd stroke of 4EA1

* 4th stroke of 56DB
* **1st stroke of 3134**

31C7 CJK STROKE HP
= **hangul stroke usggeogg'eum**
* 1st stroke of 53C8
* 4th stroke of 4ECA
* **1st stroke of 3131**

31CF CJK STROKE N
= **hangul stroke beolrim**
* 3rd stroke of 5927
* **2nd stroke of 3145**

31D0 CJK STROKE H
= **hangul stroke geomneogeum**
* 1st stroke of 5927
* 1st stroke of 4E03
* **1st stroke of 3161**

31D1 CJK STROKE S
= **hangul stroke naerigeum**
* 4th stroke of 4E2D
* **1st stroke of 3163**

31D2 CJK STROKE P
= **hangul stroke bbicim**
* 1st stroke of 4E4F
* **1st stroke of 3145**

31D4 CJK STROKE D
= **hangul stroke jeom**
* 3rd stroke of 4E38
* **1st stroke of 314A**

31E3 CJK STROKE Q
= **hangul stroke donggeurami**
* 6th stroke of 3514
* **1st stroke of 3147**

On the other hand, the relative CJK strokes should be treated as the Hangul characters as well. The following is the information for ScriptExtensions.txt.

```
# Script_Extensions=Hang  
  
31C0 ; Hang # So CJK STROKE T  
31C4 ; Hang # So CJK STROKE SW  
31C7 ; Hang # So CJK STROKE HP  
31CF..31D2 ; Hang # So [4] CJK STROKE N..CJK STROKE P
```

31D4	;	Hang # So	CJK STROKE D
31E3	;	Hang # So	CJK STROKE Q
# Total code points: 9			

In fact, the strokes used for Tangut, Khitan and Jurchen scripts are derived from Hanzi basically. If it's accepted that all the Hangul strokes could be unified to CJK strokes in my opinion, I will submit the document on the strokes for other relative scripts in future.

2. Bibliography

延边教育出版社朝鲜语文编辑室, 东北朝鲜文教材研究开发中心: 《义务教育朝鲜族学校教科书 朝鲜语文 一年级上册》, 延吉: 延边教育出版社, 2014.07, ISBN 978-7-5524-2753-0 / 연변교육출판사 조선어문편집실, 동북조선문교재연구개발센터: 《의무교육조선족학교교과서 조선어문 1 학년 상권》, 연길: 연변교육출판사, 2014.07, ISBN 978-7-5524-2753-0

3. Picture

...제 1단원

획의 이름을 알고 바르게 써봅시다.

1. 획의 이름을 알아봅시다.

丶	一	丨	ノ	ㄱ	ㄴ	ㄷ	ㄹ	○
점	건너금	내리금	삐침	치삐침	벌림	웃꾸음	아래꾸음	동그라미

2. 획의 이름을 말하며 바르게 써봅시다.

丶	一	丨	ノ	ㄱ	ㄴ	ㄷ	ㄹ	○
丶	一	丨	ノ	ㄱ	ㄴ	ㄷ	ㄹ	○
丶	一	丨	ノ	ㄱ	ㄴ	ㄷ	ㄹ	○