L2/23-220

Title: Proposal to encode (disunify) two stroke characters in CJK Strokes block Author: Night Koo Date: 2023-10-01

This is a proposal to encode (or disunify) two stroke characters in CJK Strokes block, namely CJK STROKE HZXG 乁 (橫折斜鈎) and CJK STROKE SZP ㄣ (竪折撇).

The current form of CJK Strokes block is based on the L2/06-212 (WG2 3063), where the IRG Rapporteur proposed the current encoding for U+31D0..31E3. However, when comparing the document with its predecessors, L2/04-221 and L2/04-367, there are some strokes that were unified together. The unification discussion seems to be based on IRGN 1137, which is reflected in the <u>Appendix F: Documentation of CJK Strokes</u> of the Unicode Standard.

However, two of the strokes are unified when their use is actually very prevalent, which is CJK STROKE HZXG \land and CJK STROKE SZP \checkmark (or its variant form \checkmark). These 2 characters are listed separately in <u>GF 2001-2001《GB 13000.1 字符集汉字折笔规范》</u> with example usage. Thus, I propose to encode these two characters in the CJK Strokes block.

CJK STROKE HZXG 乁 (横折斜鈎)

This stroke is unified to U+31C8 CJK STROKE HZWG $\$ based on information in Appendix F. However, based on GF 2001-2001, HZWG $\$ should actually be unified to U+31E0 CJK STROKE HXWG $\$ based on the number of zags (折) of the stroke. HZWG $\$ and HXWG $\$ both have 3 zags, while HZXG $\$ only have 2 zags. Thus, HZWG $\$ and HZXG $\$ are listed separately in this document, while HXWG $\$ is listed as a variant of (or unified to) HZWG $\$.

Although not as evident as this, the original document as submitted by TCA in IRGN 1086A also suggested the difference between HZXG \neg and HXWG \angle , where HZXG \neg is listed under 2 turning points and HXWG \angle is listed under 3 turning points. It is thus possible to state that the unencoded stroke HZXG \neg is not equivalent to U+31C8 CJK STROKE HZWG \neg as suggested by Appendix F, and should be separately encoded to correctly represent the information as shown in GF 2001-2001 (since U+31C8 CJK STROKE HZWG \neg and U+31E0 CJK STROKE HXWG \angle are unified in GF 2001-2001).

CJK STROKE SZP > (竪折撇)

This stroke is unified to U+31DE CJK STROKE SZZ \Box based on information in Appendix F. However, based on GF 2001-2001, these two strokes are listed separately. The difference between these two strokes is the final stroke, where SZP \triangleright has a throw stroke ($rac{100}{100}$) and SZZ

has a vertical stroke (豎). These two strokes are not exchangeable unlike other unified variant strokes in many cases, thus requiring a separate character to be encoded.

There are two popular forms of this stroke currently in used: the first section being slanted 5° and being vertical 5° . These exists in U+4E13 专 (3rd stroke) and U+594A 奊 (8th stroke) respectively. However, this vertical/slanted difference is not as significant as SZP 5° vs SZZ 5° , and a similar unification is made to U+31D1 CJK STROKE S 1° when in the character U+4E94 Ξ (2nd stroke) as 1° , and to U+31D7 CJK STROKE SZ 1° when in the character U+7259 T (2nd stroke) as 2° . Referencing both stroke S and SZ, the vertical form for stroke SZP (5°) should be encoded, and the slanted form may be registered as a SVS in the future.

Proposed Characters



Unicode Character Properties

The proposed characters should have the following Unicode properties matching those in CJK Strokes block.

31E4;CJK STROKE HZXG;So;0;ON;;;;;N;;;;;

31E5;CJK STROKE SZP;So;0;ON;;;;;N;;;;;

Additional Changes

The proposed update to Appendix F in L2/23-116 will need to be modified to reflect the above changes. The diagrams are attached after the figures.

A font file containing both characters will be provided to update the *CJK Symbols* font used for the block as provided in L2/20-058.

Additionally, the annotation under U+31C8 CJK STROKE HZWG 1 for "1st stroke of 98DE 飞" will need to be moved to stroke HZXG 1. A new annotation for stroke SZP 5 can be "8th stroke of 594A 奊".

That is all.

Figures	(black is	encoded,	red is	unencoded)
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	5.12	横折竖折横	横折折	L	5 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日
	5.13	横折竖弯横	横折弯	L	朵
2	5.14	横折竖折提	横折提	l	计颓鸠
	5.15	横折竖钩	横折钩	了(1)	同门却永要万母仓/也
折	5.16	横折捺钩	横斜钩(俗称)	7	飞风执
	5.17	竖折横折竖	竖折折	5 4	鼎卐亞吳
	5.18	竖折横折撇	竖折撇	4 (5, 5)	专/奊/夨
	5.19	竖弯横钩	竖弯钩	L	己匕电心
	5.20	横折竖折横折竖	横折折折	7 2	凸
3	5.21	横折竖折横折撇	横折折撇	3	及延
折	5.22	横折竖弯横钩	横折弯钩	し(乙)	几丸/艺亿
1/1	5.23	横折撇折弯竖钩	横撇弯钩(俗称)	3	阳部
	5.24	竖折横折竖钩	竖折折钩	与(5)	马与钙/号弓

GF 2001-2001



汉字笔画名称表 883

汉字笔画名称表

、基本笔画: 一(横) Ⅰ(竖) ノ(撇) 、(点) [→](折) 、变形笔画:

笔形	名称	例字	笔形	名称	例字
	提	刁江	L	捺	大进
7	横折	尺口	て	横斜钩	飞汽
7	横撇	又水	Z	横折弯钩	亿九
	横钩	予 卖	3	横撇弯钩	队 都
1	横折折	Ш	Ч	横折折折	凸.
z	横折弯	朵 船	3	横折折撇	延 及
1	横折提	说	3	横折折折钩	乃场
7	横折钩	幻 月	L	竖提	长以
1	竖钩	丁小	5	竖折折钩	与弓
L	竖折	山母	L	撇折	台红
L	竖弯	西四	4	撇点	女 巡
L	竖弯钩	礼巳	L	斜钩	戈 式
L,	竖折撇	专)	弯钩	狗家
ч	竖折折	鼎		11 11 11	4 42 1 1 1

2013 年《世纪版新汉语字典》, ISBN 978-983-01-0216-0

	笔画	名利	弥	例字		笔画	名利	弥	例字		笔画	名利	尔	例字
1	-	枫	0	大	11	-	模钩	Q.	伱	21	J	弯钩	0	了
2	1	<u>\$</u>	0	+	12	L	整弯钩	0.	元	22	Z	橫折弯针	54 De	九
3	1	撤	ß	八	13	2	撇折	0.	去	23	L	整弯	0	四
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5	7	横折	0	D	15	L	整折	Q.	Ц	25	3	模折折折	的	仍
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)	1	整钩	P	小	19	3	模撇弯(4 1	那	29	7	整折折	Q.	鼎
0	7	橫撇	B.	水	20	7	橫折提	0.	课	30	1	橫折折	0	凹
										31	3	横折折打	f D	凸

Education site showing the different strokes (gcjxkhd.com/nd.jsp?id=1138)

Appendix F Update

「L U+31C8	HZWG	héng-zhé- wān-gōu	橫折彎鉤			
九 U+4E5D, 几 U+51E0, 九 U+4E38, 旭 U+65ED, 杂 U+6742						

て U+31E4	HZXG	héng-zhé- xié-gōu	橫折斜鉤			
飞 U+98DE, 风 U+98CE, 气 U+6C14, 虱 U+8671, 瘋 U+760B, 訊 U+8A0A						

் U+31DE	SZZ	shù-zhé-zhé	豎折折			
Ч U+200D1, 卐 U+5350, 亞 U+4E9E, 鼎 U+9F0E, 吳 U+5433						

ン U+31E5	SZP	shù-zhé-piĕ	豎折撇	4			
专 U+4E13, 奊 U+594A, 失 U+5928, 設 U+279AE, 爬 U+244F7,							

See also http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html for latest Roadmaps. A. Administrative 1. Title: Proposal to encode (disunify) two stroke characters in CJK Strokes block 2. Requester type (Member body/Liaison/Individual contribution): Individual 3. Requester type (Member body/Liaison/Individual contribution): Individual 4. Submission date: 2023-10-01 5. Requester's reference (if applicable): 2023-10-01 6. Choose one of the following: Yes (or) More information will be provided later: 2023-10-01 8. Technical – General Stonose one of the following: a. This proposal is for a new script (set of characters): Proposed name of script: b. The proposal is for addition of character(s) to an existing block: Yes Name of the existing block: Yes 2. Number of characters in proposal: 2 3. Proposed category (select one from below - see section 2.2 of P&P document): A-Contemporary A-Contemporary B-1-Specialized (small collection) X A-Contemporary B-1-Specialized (small collection) Yes a. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document? Yes b. Are the cha
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6. References:
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? Yes
b. Are published examples of use (such as samples from newspapers, magazines, or other sources)
of proposed characters attached? <u>Yes</u>
 Special encoding issues: Does the proposal address other aspects of character data processing (if applicable) such as input,
presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?
8. Additional Information:
Submitters are invited to provide any additional information about Properties of the proposed 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: Casing information, Numeric information, Currency information, Display behaviour
information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default
Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at http://www.unicode.org for such information on other scripts. Also
see Unicode Character Database (<u>http://www.unicode.org/reports/tr44/</u>) and associated Unicode Technical Reports
for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

¹ Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	Yes
If YES explain Unified to other stroke characters in IRGN 1137	
2. Has contact been made to members of the user community (for example: National Body,	Vee
user groups of the script or characters, other experts, etc.)?	Yes
If YES, with whom? IRG experts	
If YES, available relevant documents:	
3. Information on the user community for the proposed characters (for example:	Users of Han
size, demographics, information technology use, or publishing use) is included?	character
Reference:	<u>ona aotor</u>
4. The context of use for the proposed characters (type of use; common or rare)	Common
Reference:	
5. Are the proposed characters in current use by the user community?	Yes
If YES, where? Reference: See the representative glyphs in the published ISO/IEC 1	0646 Standard
6. After giving due considerations to the principles in the P&P document must the proposed character	
in the BMP?	Yes
If YES, is a rationale provided?	Yes
If YES, reference: Belongs to the CJK Strokes block	
7. Should the proposed characters be kept together in a contiguous range (rather than being scatter	ed)? Yes
8. Can any of the proposed characters be considered a presentation form of an existing	,
character or character sequence?	No
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?	No
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, or could be confused with, an existing character?	Yes
If YES, is a rationale for its inclusion provided?	Yes
If YES, reference: See proposal text	
11. Does the proposal include use of combining characters and/or use of composite sequences?	No
If YES, is a rationale for such use provided?	
If YES, reference:	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) prov	ided?
If YES, reference:	
12. Does the proposal contain characters with any special properties such as	No
control function or similar semantics?	No
If YES, describe in detail (include attachment if necessary)	
13. Does the proposal contain any Ideographic compatibility characters?	No
If YES, are the equivalent corresponding unified ideographic characters identified?	No
If YES, reference:	