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## 1．Introduction

This document presents the second stage of glyph corrections for Tangut ideographs and components in response to the latest understanding of Tangut glyph shapes，based largely on the recent research by Profs．Jiǎ Chángyè 贾常业 and Jǐng Yǒngshí 景永时．The background investigation into the Tangut glyph issues raised by Jiǎ and Jǐng was carried out by West and Zaytsev，and presented in WG2 N5031＝L2／19－064．Subsequently，a joint proposal to disunify nine Tangut ideographs and six Tangut components was made in WG2 N5064＝L2／19－207，and these fifteen characters were encoded in Unicode 13．0．

The first stage corrected the original misunification of nine Tangut ideographs，and laid the foundations for further glyph corrections by encoding additional required components． However，as noted in N5031，and discussed in person at WG2 Meeting 68 at Redmond in June 2019，the issues of glyph shape（joined versus unjoined strokes）that underlie the Unicode 13.0 disunifications affect a very large number of other Tangut ideographs．

The second stage has been to identify the appropriate glyph forms（joined versus unjoined strokes）for all potentially affected Tangut ideographs，and apply the identified glyph corrections（joining adjacent strokes where appropriate）to the code chart font．In this document we propose glyph modifications for 72 Tangut components listed in Table 1， and $\mathbf{1 , 4 9 3}$ Tangut ideographs listed in Table 7 in the Appendix（just under a quarter of the encoded repertoire of Tangut ideographs）．Although these glyph changes are visually minor（especially at low font sizes），they do reflect an important systematic distinction between components with joined strokes and components with unjoined strokes．However， it should be noted that none of these changes result in pairs of characters which differ only by one of the affected components，as was the case with the Stage 1 glyph changes．

We also propose miscellaneous glyph corrections for 2 Tangut components listed in Table 4 and 32 Tangut ideographs listed in Table 5.
Due to the very large number of proposed glyph changes，it is possible that we have wrongly identified some glyph forms or missed some glyph corrections，so we hope that experts from China and elsewhere will carefully review this document，and provide timely feedback to the UTC in order that these changes can be incorporated into Unicode version 14.0 （scheduled for September 2021）．

## 2．Discussion

## 2．1 Caveats

The glyph modifications proposed in this document reflect what we believe is a systematic distinction between components with joined strokes and components with unjoined strokes，with the result that groups of semantically or phonetically related ideographs with the same component should use the same glyph form for that component（joined or unjoined as the case may be）．For example，of the ideographs which before Unicode 13.0 contained Component 267 炎，all those which are related to birds or phonetically derived from ideographs related to birds share the same unjoined component（Component 267 炎）； whereas those which are related to bones and the sun（among various other things）share the same joined component（Component 766 災）．

Fig．1．Components 267 and 766


Nevertheless，the glyph form of components is not always consistent across different sources，and some native Tangut writers were evidently susceptible to confusion about which is the correct glyph form to use．The Sea of Writing generally has the most accurate glyph forms，with correctly joined or unjoined components，but the extant volumes only cover about half the Tangut character repertoire．Post－Western Xia sources，such as the mid－14 ${ }^{\text {th }}$ century Buddhist inscriptions at Juyong Pass in Beijing，tend not to be good models for glyph forms，sometimes showing unjoined forms where joined forms are expected．Tangut ideographs which show joined versus unjoined components in different sources may be candidates for treatment as Ideographic Variation Sequences（IVS）．
For some components the evidence is more compelling than for other components，and we have a higher degree of certainty that the proposed glyph changes are correct．For example， the components 父父変 etc．are almost invariably shown with clearly joined strokes in all sources（see Fig．2），and there is no doubt that unjoined forms of ideographs with these components would be orthographically incorrect．NB Component 144 多 may be written as Component 765 父（only found as a variant of Component 144）which is more easily confused with Component 141 尣 but should still be distinguishable when examined closely．

Fig. 2. Comparison between Components 144 (left) and 141 (right)


Homophones B6 29B77

On the other hand, the distinction between Component 068 र (unjoined) and Component $763<$ (joined) is more blurred. When positioned above another component (e.g.
 in other positions both joined and unjoined forms may occur, and it is not always clear whether an apparent $\chi$ is intrinsically joined or whether it represents $\chi$ which has simply been written with the two strokes meeting at the same point. Visually, the difference between an intrinsically joined stroke ( $x$ ) and two separate strokes meeting together ( $x$ ) is that in the former case the stroke shows a smooth and broad bend, whereas in the latter case the bend is less smooth, and the strokes tend to become narrower as they join together (see Fig. 3). In practice it can be hard to distinguish, especially if the component is squashed against another component or if the woodblock printing is not clear.

Fig. 3. Comparison of Joined and Unjoined Strokes


Homophones B6 43B61


Homophones
B6 43B53

Thus, it is necessary to examine a range of primary sources in order to determine the correct glyph shape of a Tangut ideograph. Even so, many ideographs are only attested in one or two sources, and often the printed glyph may not be clear, so it can be difficult to determine the correct glyph form based solely on glyph evidence. Therefore, we have also relied on the character construction analysis given in Sea of Writing to identify groups of related ideographs which share a common component (see WG2 N5031 §3.1 Methodology for details). This allows us to assign the correct component in many cases where the evidence is unclear or contradictory for individual ideographs.

## 2．2 Manuscript Evidence

An additional way of determining whether an ideograph has joined or unjoined strokes for a particular component would be to examine high quality manuscripts written in cursive or semi－cursive script，where the distinction between joined strokes and unjoined strokes is generally very clear．For example，Fig． 4 shows the Tangut ideograph U＋1837E 并刑（red box） which clearly has a joined top right component $(x)$ and an unjoined bottom right component（ $<$ ），exactly as proposed in this document．Likewise，the Tangut ideograph $\mathrm{U}+17 \mathrm{C} 17$ 㢸（blue box）clearly shows that the right side component is the double－joined component（炎）rather than the unjoined component（攽），also exactly as proposed in this document．

Fig．4．Manuscript fragment with semi－cursive Tangut characters


Shānzuǐgōu Caves 山嘴沟石窟 K2：308

We believe that this would be a very fruitful area of study in the future，but we have not checked any of the proposed changes in this document with cursive or semi－cursive forms in manuscripts because it would be extremely time－consuming to search through hundreds of manuscript fragments looking for the required examples．It is quite possible that future investigations of semi－cursive manuscript forms will result in some glyph corrections to the code chart font．

### 2.3 Table of Xixia Characters

We have referred to the draft "Table of Xixia Characters" (2016) given to us by Profs. Jiǎ and Jǐng for guidance on Tangut glyph forms, and ideally we would have liked to check all our proposed glyph changes against the "Table of Xixia Characters". However, as we only have a hard copy of the document, which does not give Unicode code points for characters, it was not practical to do so for such a large number of characters. Therefore we cannot be certain that all the proposed glyph changes in this document agree with the "Table of Xixia Characters" - indeed there are some cases where we have deliberately diverged from the "Table of Xixia Characters" (see §3.2).

## 3．Unconditional Component Modifications

There are 72 Tangut components which need to be unconditionally modified so that two unjoined strokes at an angle to each other become a single joined stroke（with a few exceptions discussed after the table）．This change affects 1,135 Tangut ideographs，as summarized in Table 1 below（ 41 ideographs are affected by two separate component changes）．

The column labelled＂No．＂gives the Unicode Component Number（in the character name）， with the component number used in the 2016 ＂Table of Xixia Characters＂given in square brackets．
The column labelled＂ 13.0 ＂gives the Unicode 13.0 glyph with the Unicode stroke count in parentheses．The column labelled＂New＂gives the proposed new glyph with the stroke count from the＂Table of Xixia Characters＂in parentheses（NB Unicode counts $i$ as one stroke，whereas＂Table of Xixia Characters＂counts it as two strokes）．

Table 1．Summary of Unconditional Component Modifications

| Code <br> Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18845 | $\begin{gathered} 070 \\ {[15]} \end{gathered}$ | $s$ <br> （3） | $s$ <br> （2） |  <br>  <br>  | 41 |
| 18870 | $\begin{aligned} & 113 \\ & {[36]} \end{aligned}$ | X <br> （4） | K <br> （3） |  <br>  <br>  <br>  | 53 |
| 1888E | $\begin{align*} & 143  \tag{3}\\ & {[49]} \end{align*}$ | 多 <br> （4） | 多 |  | 6 |
| 1888F | $\begin{aligned} & 144 \\ & {[50]} \end{aligned}$ | $K$ <br> （4） | $4$ <br> （3） |  <br> 昆舜毅 | 33 |
| 18890 | $\begin{aligned} & 145 \\ & {[47]} \end{aligned}$ | 各 <br> （4） | 各 <br> （3） |  | 10 |


| Code <br> Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18892 | $\begin{aligned} & 147 \\ & {[48]} \end{aligned}$ | （4） | $i$ <br> （3） |  <br>  <br>  <br>  <br>  <br>  <br>  | 97 |
| 18893 | 148 | 务 <br> （4） | 务 <br> （3） |  <br>  <br>  <br>  <br>  | 72 |
| 18894 | $\begin{gathered} 149 \\ {[112]} \end{gathered}$ | 冬 <br> （4） | 冬 <br> （4） |  <br>  <br>  <br>  | 52 |
| 188CB | $\begin{gathered} 204 \\ {[113]} \end{gathered}$ | 2人 <br> （4） | 级 <br> （4） |  <br>  | 17 |
| 188D1 | $\begin{gathered} 210 \\ {[89]} \end{gathered}$ | $\bar{K}$ <br> （5） | $\overline{3}$ <br> （4） |  <br>  <br>  <br>  | 58 |
| 188E4 | $\begin{aligned} & 229 \\ & {[91]} \end{aligned}$ | $\pi$ <br> （5） | $\pi$ <br> （4） |  <br>  | 21 |
| 188E6 | $\begin{aligned} & 231 \\ & {[88]} \end{aligned}$ | 交 <br> （5） | 六 <br> （4） |  <br>  | 24 |
| 188E7 | 232 | 交 <br> （5） | 玄 <br> （4） | 掽蕧㐱 | 17 |


| Code <br> Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 188EF | $\begin{gathered} 240 \\ {[183]} \end{gathered}$ | $\overline{k x}$ <br> （5） | $\overline{2}$ (5) | 翇文级处 | 2 |
| 18906 | $\begin{gathered} 263 \\ {[109]} \end{gathered}$ | （5） | $4$ <br> （4） |  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  | 129 |
| 18907 | $\begin{gathered} 264 \\ {[110]} \end{gathered}$ | K <br> （5） | 公 <br> （4） |  | 14 |
| 18909 | 266 |  <br> （5） | (4) |  | 5 |
| 1890B | $\begin{gathered} 268 \\ {[106]} \end{gathered}$ | （5） | $\underset{(4)}{k}$ | 刘珍处效效 | 19 |
| 1890C | $\begin{gathered} 269 \\ {[111]} \end{gathered}$ | 公 <br> （5） | $\begin{aligned} & 4 \\ & 4 \\ & (4) \end{aligned}$ | 䋖綈䜌 | 3 |
| 1893C | $\begin{gathered} 317 \\ {[138]} \end{gathered}$ |  <br> （5） |  <br> （4） | 预 | 1 |
| 18956 | $\begin{gathered} 343 \\ {[154]} \end{gathered}$ | 庈 <br> （5） | $\underset{(4)}{\text { § }}$ |  <br> 稼敞 | 32 |
| 18965 | $\begin{gathered} 358 \\ {[174]} \end{gathered}$ | $\pi$ <br> （6） | $\overline{11 X}$ <br> （5） | 布好莿 | 2 |


| Code <br> Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1896A | $\begin{aligned} & 363 \\ & {[93]} \end{aligned}$ | （6） | （4） |  | 7 |
| 1897F | $\begin{gathered} 384 \\ {[204]} \end{gathered}$ | 爸 <br> （6） | （5） |  <br>  <br>  <br>  <br>  <br>  | 79 |
| 18980 | $\begin{gathered} 385 \\ {[196]} \end{gathered}$ | 务 <br> （6） | 务 (5) | 㸚 | 1 |
| 18981 | 386 | 各 <br> （6） | 务 <br> （5） |  | 5 |
| 18982 | $\begin{gathered} 387 \\ {[202]} \end{gathered}$ | 父 <br> （6） | 条 <br> （5） |  <br>  <br> 跧 | 46 |
| 18983 | $\begin{gathered} 388 \\ {[116]} \end{gathered}$ |  <br> （6） | $\underset{(4)}{\text { 条 }}$ |  | 15 |
| 18984 | 389 | 务 <br> （6） | 炎 <br> （4） | 㸚㸚秝 | 3 |
| 18988 | $\begin{gathered} 393 \\ {[212]} \end{gathered}$ | $\frac{1}{\bar{X}}$ <br> （6） | $\frac{1}{\overline{3}}$ (5) |  <br>  | 25 |
| 18992 | $\begin{gathered} 403 \\ {[312]} \end{gathered}$ | $\frac{1}{k}$ <br> （6） | $\frac{1}{3}$ (6) | 交莽 | 1 |


| Code <br> Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1899B | $\begin{gathered} 412 \\ {[227]} \end{gathered}$ | $\frac{v}{x}$ <br> （6） |  |  <br>  <br>  <br>  | 49 |
| 189B9 | $\begin{gathered} 442 \\ {[234]} \end{gathered}$ | 交 <br> （6） | $\frac{弓}{3}$ <br> （5） | 录 | 16 |
| 189C5 | $\begin{gathered} 454 \\ {[240]} \end{gathered}$ | $\vec{x}$ <br> （6） | $\vec{x}$ <br> （5） |  | 2 |
| 189C6 | $\begin{gathered} 455 \\ {[239]} \end{gathered}$ | $\frac{7}{x}$ <br> （6） | $\underset{(5)}{7}$ | 形交秎者言 | 3 |
| 189E2 | $\begin{gathered} 483 \\ {[275]} \end{gathered}$ | 开 <br> （7） | $\begin{aligned} & \text { 开 } \\ & \text { 又 } \\ & \text { (6) } \end{aligned}$ | 挭崣 | 1 |
| 189E3 | 484 | 元 <br> （7） | 要 <br> （6） | 㒸夏美妥 | 2 |
| 189E8 | $\begin{gathered} 489 \\ {[278]} \end{gathered}$ | 爷 <br> （7） | 爷 <br> （6） |  | 15 |
| 189E9 | $\begin{gathered} 490 \\ {[277]} \end{gathered}$ | 交 <br> （7） | 文 <br> （6） |  <br> 藙倿 | 32 |
| 189EA | $\begin{gathered} 491 \\ {[178]} \end{gathered}$ | 条 <br> （7） |  |  | 11 |
| 189EB | $\begin{gathered} 492 \\ {[279]} \end{gathered}$ | $\frac{\bar{r}}{x}$ <br> （7） | $\frac{\overline{r y}}{\langle }$ <br> （6） |  | 9 |


| Code <br> Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 189F2 | 499 | 备 <br> （7） | 夆 <br> （6） | 俻 | 1 |
| 189F3 | $\begin{gathered} 500 \\ {[296]} \end{gathered}$ | 众 <br> （7） | 条 <br> （6） |  <br>  | 24 |
| 189F4 | 501 | 条 <br> （7） | 务 <br> （6） | 刘紬亚 | 2 |
| 189F6 | $\begin{gathered} 503 \\ {[297]} \end{gathered}$ |  | 务 <br> （6） |  | 4 |
| 189F7 | 504 | $\begin{aligned} & \text { 条 } \\ & \end{aligned}$ <br> （7） | 条 <br> （6） | 觡 | 1 |
| 18A1A | $\begin{gathered} 539 \\ {[337]} \end{gathered}$ | 㚆 <br> （7） | $\frac{y}{3}$ <br> （6） |  | 15 |
| 18A28 | $\begin{gathered} 553 \\ {[341]} \end{gathered}$ | $\frac{\overline{3}}{3}$ <br> （7） | $\begin{aligned} & \text { 多 } \\ & \text { (6) } \end{aligned}$ | 预 | 1 |
| 18A2C | $\begin{gathered} 557 \\ {[362]} \end{gathered}$ | （7） | 交 <br> （6） |  | 10 |
| 18A42 | $\begin{gathered} 579 \\ {[375]} \end{gathered}$ | 开 <br> （8） | 开 <br> （7） |  | 5 |
| 18A44 | $\begin{gathered} 581 \\ {[376]} \end{gathered}$ | 玄 <br> （8） | 玄 <br> （7） | 哜効 | 2 |
| 18A54 | $\begin{gathered} 597 \\ {[377]} \end{gathered}$ | 㚆 <br> （8） | 爸 <br> （7） |  | 5 |


| Code Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18A5C | 605 | 务 <br> （8） | 条 <br> （7） | （栠） | 0 |
| 18A5D | 606 | 杀 <br> （8） | 希 <br> （7） | 奴夈榇 | 2 |
| 18A63 | $\begin{gathered} 612 \\ {[391]} \end{gathered}$ | $\frac{\text { 关 }}{x}$ <br> （8） | $\frac{v}{\bar{x}}$ <br> （7） |  | 7 |
| 18A70 | $\begin{gathered} 625 \\ {[319]} \end{gathered}$ | 妾 <br> （8） | $\frac{v}{x}$ (6) |  | 4 |
| 18A76 | $\begin{gathered} 631 \\ {[325]} \end{gathered}$ | 倹 <br> （8） | $\sqrt{x}$ <br> （6） | 炏奴 | 1 |
| 18A78 | 633 | 妾 <br> （8） | 复 <br> （7） | 情美紋 | 3 |
| 18A8C | $\begin{gathered} 653 \\ {[433]} \end{gathered}$ | （8） | $\frac{\text { 竞 }}{2}$ <br> （7） |  | 6 |
| 18A91 | $\begin{gathered} 658 \\ {[499]} \end{gathered}$ | 葆 <br> （8） | 嫈 <br> （8） |  | 3 |
| 18A9A | $\begin{gathered} 667 \\ {[445]} \end{gathered}$ | $\frac{\text { 叏 }}{}$ <br> （9） | $\begin{aligned} & \frac{\text { 开 }}{4} \\ & \hline(8) \end{aligned}$ | 黄 ${ }^{\text {E }}$ | 1 |
| 18AAE | 687 | 食 <br> （9） | 佟 <br> （8） | 離㐌 | 1 |
| 18AB9 | $\begin{gathered} 698 \\ {[498]} \end{gathered}$ | 㚆 <br> （9） | 㐎 <br> （8） |  | 4 |


| Code <br> Point | No． | 13.0 | New | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18ABC | $\begin{gathered} 701 \\ {[496]} \end{gathered}$ | $\frac{\text { 吕 }}{x}$ <br> （9） | $\frac{\text { 吕 }}{X}$ <br> （8） |  | 9 |
| 18AC1 | $\begin{gathered} 706 \\ {[446]} \end{gathered}$ | （10） | 茾 <br> （8） | 受㸺 | 1 |
| 18AD2 | $\begin{gathered} 723 \\ {[532]} \end{gathered}$ | $\begin{gathered} \text { 条 } \\ \text { (10) } \end{gathered}$ | $\begin{aligned} & \text { 〒 } \\ & \text { 爸 } \\ & \text { (9) } \end{aligned}$ |  | 8 |
| 18AD7 | $\begin{gathered} 728 \\ {[508]} \end{gathered}$ | $\begin{aligned} & \text { म茾 } \\ & \text { XX } \\ & \text { (11) } \end{aligned}$ | $\begin{aligned} & \text { H } \\ & \text { XX } \\ & \text { (9) } \end{aligned}$ |  | 4 |
| 18ADE | $\begin{gathered} 735 \\ {[550]} \end{gathered}$ | （11） | 多 <br> （10） | 方夜夜妇 | 2 |
| 18AE2 | 739 | 云交 <br> （11） | $\underset{(10)}{\underset{i n}{7}}$ | 歪㐱 | 1 |
| 18AE3 | $\begin{gathered} 740 \\ {[546]} \end{gathered}$ | （12） | $\begin{aligned} & \overline{4 x} \\ & \hline \text { (10) } \end{aligned}$ |  | 2 |
| 18AE9 | $\begin{gathered} 746 \\ {[575]} \end{gathered}$ | 多 <br> （12） | 多 <br> （11） | 剔 | 16 |
| 18AED | $\begin{gathered} 750 \\ {[576]} \end{gathered}$ | （13） | （12） | 瀠 | 1 |

## 3．1 Exceptions

There are a few exceptions to the component modifications shown in Table 1．In two cases， a compound component has two separate and unrelated derivations according to the Tangut dictionary Sea of Writing．In the other two cases，the available evidence does not support changing the glyph form．
 $\mathrm{U}+1798 \mathrm{~A}$ 䵊（1久母冊 $\chi$ ）where the right side of component actually derives separately from the upper right and lower right components of U＋17A80 瑷（冊 and 久）：

Fig．5． $\mathbf{U}+1798 \mathrm{~A}$


Sea of Writing 3：09．251
 modified to use Component 763 x instead of Component 068 久．However，in the single case of $\mathrm{U}+17 \mathrm{~B} 04$ 处 this component is modified to $\square^{4} \chi$ ，because it derives separately from the upper middle component of $U+1731 \mathrm{C}$ 微（ ${ }^{〔}$ ）and the lower right component of U＋171E4夜（x）：

Fig．6．U＋17B04


Sea of Writing 1：24．241

3．Component 113 文 is modified to use Component 763 x underneath Component 001 —， except in the case of the two related characters U＋179FB 後＇Tangut person＇and U＋17F07仮＇Tangut’ which have Component 068 久 underneath Component 001 －in both editions of Homophones（see Fig．7）．Neither character occurs as a head character in Sea of Writing， so in the absence of conclusive evidence we recommend leaving these two characters unmodified．This accords with＂Table of Xixia Characters＂pp． 145 and where these two characters are given stroke counts of 13 and 9 respectively．

Fig．7． $\mathbf{U}+179$ FB and $\mathbf{U}+17$ F07


4．Component 412 㚣 is modified to use Component 763 ＜underneath Component 075 ， except in the case of $\mathrm{U}+1830 \mathrm{C}$ 敞．This character occurs as a head character in Homophones Ed．B only，and is not found anywhere else in either edition of Homophones or in Sea of Writing；and elsewhere it is only attested in Synonyms and Parental Love and Filial Piety
 Huáng Shígōng Sānlüè 黄石公三略［IOM Tang．9］）．The three examples of U＋1830C that we have been able to find all show an unjoined glyph form，and in the absence of better evidence we recommend leaving this character unmodified at the present time．This accords with＂Table of Xixia Characters＂p． 277 where it is given a stroke count of 12.

Fig．8． $\mathbf{U}+1830 \mathrm{C}$

|  |  |  |
| :---: | :---: | :---: |
| Homophones <br> B2 38B78 | Synonyms <br> 14B2 | Parental Love and <br> Filial Piety No．15 <br> 38B78 |

## 3．2 Unmodified Components

The glyph forms of the 72 components listed in Table 1 all accord with the＂Table of Xixia Characters＂（2016），but this table also lists the following five components as having joined strokes．However，based on our examination of primary sources，we believe that the evidence does not indicate that they do have joined strokes，and so ideographs with these components should not be modified．

Table 2．Summary of Unmodified Components

| Code Point | No． | Glyph | Affected Ideographs（no glyph change） | Count |
| :---: | :---: | :---: | :---: | :---: |
| 189F5 | $\begin{gathered} 502 \\ {[195]} \end{gathered}$ | 备 | 齐升斑齐 | 2 |
| 18A4E | $\begin{gathered} 591 \\ {[370]} \end{gathered}$ |  |  | 9 |
| 18A4F | 592 | $\begin{aligned} & \text { 自 } \\ & \text { 而 } \end{aligned}$ |  | 9 |
| 18A51 | $\begin{gathered} 594 \\ {[369]} \end{gathered}$ | 安 |  | 14 |
| 18A96 | $\begin{gathered} 663 \\ {[443]} \end{gathered}$ | $\underset{X}{Z}$ |  | 3 |

## 3．2．1 Component 502

U＋1853E 哜 and U＋1853F 斎 do not occur in Sea of Writing，and their glyph shapes in Homophones Ed．A are not conclusive．However，the only surviving page of Homophones Ed． B that covers these two characters（see Fig．9）clearly shows that they have unjoined strokes．

Fig．9．Homophones Ed．B（British Library Or．12380／3116）


Folio 53B

## 3．2．2 Components 591 and 592

In＂Table of Xixia Characters＂Components 591 夏 and 592 夏 have a stroke count of 7，and the bottom element of both components is Component 764 民．However，examination of Sea of Writing and Homophones shows that three forms of the components are used，as shown in Fig．10．Forms with Component $764 \bar{\chi}$ are most common in both Sea of Writing and Homophones Eds．A and B（see Fig．10：A and B）；but forms with Component 113 र are
 Fig．10：C）；and forms with Component 087 又 are found in both Sea of Writing（U＋17AEF復， $\mathrm{U}+18105$ 嗄， $\mathrm{U}+1864 \mathrm{E}$ 嗄， $\mathrm{U}+18698$ 夏， $\mathrm{U}+1869 \mathrm{~B}$ 枚）and Homophones Ed．B（U＋17606䃀，U＋17778 䄻，U＋17FFE 缓）（see Fig．10：D and E）．It is not clear from this evidence which is the correct form of Components 591 and 592，but in other Tangut sources it seems that the unjoined form with Component $087 \bar{x}$ is most common（see Fig．11）．

Fig．10．Examples with Components 591 and 592

| A | B | C | D | E |
| :---: | :---: | :---: | :---: | :---: |
| U＋18537 䌐 | U＋18699 貺 | U＋18699 頑 | U＋18105 詯 | U＋17606 媚 |
|  |  |  |  |  |
| Sea of Writing 1：48．122 | Homophones A 06B36 | Homophones B5 07B14 | Sea of Writing 3：20．231 | Homophones B1 27B47 |

Fig．11．Additional Examples with Components 591 and 592

| A | B | C | D | D |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{U}+17 \mathrm{~A} 37 \text { 復 } \\ & \mathrm{U}+18665 \text { 親 } \end{aligned}$ |  | $\begin{aligned} & \hline \mathrm{U}+17 \mathrm{~A} 37 \text { 㐮 } \\ & \mathrm{U}+18665 \text { 䒆 } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{U}+1869 \mathrm{D} \text { 簃 } \\ & \mathrm{U}+18105 \text { 䜡 } \end{aligned}$ | $\mathrm{U}+1864 \mathrm{E}$ 嗄 |
|  |  |  |  |  |
| Proverbs 05B | Proverbs 09A | Forest of Categories 06：05B | Mixed Characters 15B | $\begin{gathered} \text { Repentance } \\ \text { Dharma } \\ \text { B11:038 1:09 } \end{gathered}$ |

Overall，the evidence does not show a consistent use of the joined component（ $\bar{x}$ ），and in some cases where a joined form is seen it can be assumed to be due the disjoined form having been written carelessly as a joined form（compare U＋18665 皦 in Example 5．B where the bottom part of 夏 appears to be joined，but is clearly disjoined in Examples 5．A and 5．C）．
Furthermore，Component 764 反 is a special form of Component 087 亿 used only in $\mathrm{U}+18 \mathrm{D} 01$ 㛡，and is not used systematically elsewhere，so Component 087 反 would be the expected form for bottom part of Components 591 and 592．As the evidence is not conclusive，it would seem safest to leave Components 591 and 592 unmodified at present， pending better evidence for the correct glyph form．It may be appropriate to use Ideographic Variation Sequences to distinguish the different forms of these characters．

## 3．2．3 Component 594

In＂Table of Xixia Characters＂Component 594 图 has a stroke count of 7，and the upper part of the internal element is shown with a joined stroke．However，the evidence from Sea of Writing and Homophones does not seem to support this analysis，as shown by the examples given in Fig．12，where the internal element is Component 267 父（with unjoined strokes）．

Fig．12．Examples with Component 594

| A | B | C | D | E |
| :---: | :---: | :---: | :---: | :---: |
| U＋17653 顽 | U＋186A2 䍑 | $\mathrm{U}+18418$ 毅 | U＋1799D 璁 | $\mathrm{U}+174 \mathrm{~A} 0$ 塊 |
|  |  |  |  |  |
| $\begin{gathered} \text { Sea of Writing } \\ 1: 21.252 \end{gathered}$ | Sea of Writing 3：19．232 | Homophones A 28A27 | Homophones A 37A36 | Homophones B1 22B35 |

## 3．2．4 Component 663

In＂Table of Xixia Characters＂Component 663 组 has a stroke count of 7，and the three ideographs with Component 663，as well as the related ideograph $U+1762 \mathrm{~B}$ 灮，are shown with Component 763 （ $k$ ）．However，this analysis is not supported by the evidence of Sea of Writing and Homophones，where Component 068 （ $火$ ）can be seen in almost all cases，as shown in Fig． 13.

Fig．13．Examples with Component 663

| A | B | C | D | E |
| :---: | :---: | :---: | :---: | :---: |
| U＋1762B 㝚 | U＋1871F 絞 | U＋17062 甭 | U＋1871E 碱 | U＋1871F 絞 |
|  |  |  |  |  |
| $\begin{gathered} \text { Sea of Writing } \\ 1: 12.132 \end{gathered}$ | Sea of Writing 1:37.261 | $\begin{gathered} \text { Sea of Writing } \\ 3: 22.141 \end{gathered}$ | Homophones A 31B65 | Homophones B5 06A45 |

## 4．Conditional Component Modifications

There are 4 Tangut components which were disunified in Unicode 13.0 into forms with unjoined strokes（ $火$ 父交交）and forms with joined strokes（文文交）．All ideographs that under Unicode 13.0 include any of Components 068 （ $<$ ）， 267 （爻）， 278 （交），or 316 （交） have been examined，and based primarily on the glyph forms shown in Sea of Writing and Homophones Editions A and B，each ideograph glyph has either been left unmodified or Components $068,267,278$ ，or 316 have been modified to Components 763 （ $\chi$ ）， 766 （爻）， 767 （交），or 768 （麦）respectively．Additionally，eight ideographs with Component 267 under Unicode 13.0 have been modified to use a glyph form that is a hybrid between Components 267 and 766，as discussed in Note 1 to Table 3.

We have tried to determine the orthographically correct glyph forms for ideographs that in Unicode 13.0 incorporate Components $068,267,278$ ，or 316 ，based on the available evidence of glyph forms shown in Sea of Writing and Homophones，as well as the analysis of character construction given in Sea of Writing，but in many cases the glyph choices only reflect the balance of probability，and the glyph form（i．e．whether having joined or unjoined strokes）may well differ for individual characters in individual sources．
575 ideographs with Components $068,267,278$ or 316 are unchanged（ 6 ideographs have two unchanged components）；and 407 ideographs with Components 068，267， 278 or 316 are modified to use Components 763，766，767，or 768 instead（7 ideographs have two different modified components）．The five ideographs with Component 766 which were already modified in Unicode 13.0 and the two ideographs with Component 768 which were added in Unicode 13.0 do not require any further glyph changes，and are highlighted in yellow in Table 3.

Note that in order to more clearly distinguish between the two sets of graphically similar components，many of the ideographs with Components $068,267,278$ or 316 have been cosmetically tweaked to accentuate the disjoined strokes．

Table 3．Summary of Conditional Component Modifications

| Code <br> Point | No． | Glyph | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: |
| 18843 | 068 | $y$ |  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  | 197 |


| $\underset{\substack{\text { Code } \\ \text { Point }}}{\text { a }}$ | No． | Glyph | Affected Ideographs（new glyph shown） |  |
| :---: | :---: | :---: | :---: | :---: |
| afa | 763 | X |  <br>  <br>  <br>  <br>  | 89 |
| 1890A | 267 | 爻 |  <br>  <br>  <br>  <br>  <br>  | 151 |
| FD | 766 | 爻 |  <br>  <br>  <br>  <br>  <br>  | 136 |
| － | － | 爻 |  | 8 |
| 18915 | 278 | 交 |  <br>  <br>  <br>  <br>  | 94 |
| 18AFE | 767 | 交 |  <br>  <br>  | 48 |


| Code Point | No． | Glyph | Affected Ideographs（new glyph shown） | Count |
| :---: | :---: | :---: | :---: | :---: |
| 1893B | 316 | 交 |  | 139 |
| 18AFF | 768 | 云 |  <br>  <br>  <br>  <br>  <br>  | 133 |

## Note 1

In N5031（p．17）we noted that in some cases the top strokes of Component 267 （爷）were joined like the top strokes of Component 766 （ $\chi$ ），resulting in a form which is a hybrid between Components 267 and 766，i．e．炎．At that time we concluded that there was not a consistent or meaningful distinction between this hybrid form and Component 267．We have since re－examined the evidence，and reached a new understanding．Some ideographs which should have Component 267 may be inconsistently written with the hybrid form in some sources，as shown in the example for U＋17F95 㸚 on p． 17 of N5031，and in such cases the use of the hybrid form is not significant．However，there are two groups of related ideographs where the hybrid form is used consistently across all sources，and appears not to be a mistake for either Component 267 or Component 766：

A．Ideographs with Component 557 㚆（see Groups 10 and 11 in N5031 pp．54－56）．This component（U＋18A2C）and the ten ideographs that include it are already covered in Table 1．There is also one ideograph，U＋17C7A 菝，which derives its bottom right component from the bottom right of $\mathrm{U}+181 \mathrm{BD}$ 磪，and this as expected uses the hybrid form（this accords with＂Table of Xixia Characters＂where it has a stroke count of 12）．

B．A group of seven interrelated ideographs（see Group 9 in N5031 p．54；excluding $\mathrm{U}+1731 \mathrm{C}$ 倣 which should not have been included in this group as it actually derives from U＋18736 靿）
The＂Table of Xixia Characters＂also shows Component 594 恖（see Group 13 in N5031 pp． 56－57）as having the 7 －stroke hybrid form，but as already discussed above（§2．2．3）we think that the evidence suggests that the internal element is Component 267.

## 5．Miscellaneous Glyph Corrections

The following is a summary of proposed miscellaneous glyph corrections．It is intended to document these in more detail in UTN 42 at a future date．Changes to radical and／or stroke count are highlighted in yellow in Table 5 （see Section 7 for discussion of stroke counts）．

Table 4．Summary of Glyph Corrections for 2 Tangut Components

| Code Point | Component | 13.0 | New | Stroke Count |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 13.0 | New |
| 188B4 | 181 | 三 | 三 | 4 | 4 |
| 18AF1 | 754 | 尿 | 属 | 13 | 13 |

Table 5．Summary of Glyph Corrections for 32 Tangut Ideographs

| Code <br> Point | 13.0 | New | Sample | Radical／Strokes |  | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 13.0 | New |  |
| 1706B | 1爫 | $\text { \| } 1 \times \bar{x}$ |  | 2.10 | 2.10 | Derived from U＋17B10 後 |
| 171BD | \｜产愛 | \｜商 |  | 17.16 | 17.16 | Derived from U＋17176 髙 |
| 171BF | \｜菐 | 嗳 |  | 17.16 | 17.15 | Derived from U＋1700D 奥 |
| 1732E | 级 | $\frac{K}{6 \pi}$ |  | 37.10 | 37.10 | Derived from U＋17D26 络 |
| 17403 | 体少 | 戫氘 |  | 68.20 | 68.20 | See Note 1 below |
| 174F4 | 单 | 关位 |  | 75.14 | 75.14 | See Note 2 below |


| Code <br> Point | 13.0 | New | Sample | Radical／Strokes |  | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 13.0 | New |  |
| 174F6 | 至交 | 关要化 |  | 75.14 | 75.13 | See Note 2 below |
| 176CA | 荄 | 後 |  | 106.12 | 106.12 | See Note 3 below |
| 17729 | 蕧 | 绦 |  | 106.14 | 106.13 | See Note 2 below |
| 17760 | 㚆荇 | 茭 |  | 106.15 | 106.15 | See＂Table of Xixia <br> Characters＂p． 101 |
| 177D6 | 蕣 | 菜程 |  | 106.21 | 106.21 | Derived from U＋170CE 溇 |
| 17869 | 文处 | 文处 |  | 113.13 | 230.13 | Derived from U＋18081 瓶 |
| 178DF | 行 | 䔨 |  | 141.9 | 141.9 | See＂Table of Xixia Characters＂p． 130 |
| 179CC | 尣言 | 信 |  | 141.12 | 141.11 | See＂Table of Xixia <br> Characters＂p． 138 |
| 17A8F | 沴 | 使 |  | 141.15 | 141.15 | See＂Table of Xixia Characters＂p． 149 |



| Code <br> Point | 13.0 | New | Sample | Radical／Strokes |  | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 13.0 | New |  |
| 17F03 | 人1 | 行 |  | 262.5 | 262.5 | See＂Table of Xixia Characters＂p． 224 |
| 18064 | 关交 | 举无 |  | 285.11 | 285.10 | See Note 2 below |
| 18179 | 示蒾 | 效芲 |  | 316.13 | 316.13 | See＂Table of Xixia Characters＂p． 181 |
| 1819A | 拃交 | 跤 |  | 327.11 | 327.10 | See Note 2 below |
| 183FC | 受交 | 兴灭 |  | 436.12 | 436.11 | See Note 2 below |
| 1846F | 跤 | 跤 |  | 449.12 | 449.11 | See Note 2 below |
| 184B3 | 责更 | 素交 |  | 462.12 | 462.11 | See Note 2 below |
| 18557 | 類 | 抆无 |  | 516.13 | 516.12 | See Note 2 below |

## Note 1 （Component 754）

There are two changes to Component 754 资 and the ideographs U＋17C2D 潁，U＋17403 貄， U＋17AE5 绿．The first change is to extend the central vertical stroke up to the 尹 component，as shown in all sources．The second change is to make the realization of the $\bar{\Xi}$ component consistent with $\mathrm{U}+17 \mathrm{C} 2 \mathrm{E}$ 犌．Currently， $\mathrm{U}+17 \mathrm{C} 2 \mathrm{D}$ 资 etc．show the top part as
 element has an extended horizontal stroke). However, examination of the sources shows
 consistent for each source, and that in most sources the component is written with an extended lower horizontal stroke.

Fig. 14. Comparison of $U+17 C 2 D$ and $U+17 C 2 E$

| U+17C2D 湘 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | B | C | D | E | F | G |
|  |  |  |  |  |  |  |
| Sea of Writing 1:27.113 | Homophones A 35B21 | Homophones B2 36A58 | Homonyms 12A5.04 | $\begin{gathered} \text { Three } \\ \text { Generations } \\ \text { 21B } \end{gathered}$ | $\begin{gathered} \text { Proverbs } \\ 17 \mathrm{~A} \end{gathered}$ | Repentance <br> Dharma <br> B11:040 <br> 4:42 |
| U+17C2E 壂 |  |  |  |  |  |  |
| A | B | C | D | E |  |  |
|  |  |  |  |  |  |  |
| Sea of Writing 1:87.221 | Homophones <br> A 11A62 | Homophones B2 12A41 | Homonyms 09B7.04 | Parental Lover <br> Filial Piety | ove and <br> No. 30 |  |

## Note 2 （Component 343）

As of Unicode version 13．0，there are 23 Tangut ideographs with Component 343 交，and 12 ideographs with the very similar component $\frac{K_{1}}{}$［not an encoded component］．The difference between these two components is that in the former component the diagonal stroke of the lower element extends into the upper element，whereas in the latter component the upper and lower elements are separate（ $\square$ 亿盾 ，and there is an extra dot in the upper component．

Analysis of the glyph forms of these ideographs demonstrates that ten of the twelve ideographs with component 交（ $\boxed{\text { 亿 }) ~ a r e ~ i n ~ f a c t ~ w r i t t e n ~ w i t h ~ C o m p o n e n t ~} 343$ ，and are related to other ideographs with Component 343 （e．g．U＋174F6 濰 derives from U＋181F9攼；and U＋17729 蕧 derives from U＋178F6 紋）．The other two ideographs，U＋1775B 荊 ［ne］＇plum＇and U＋17B3F 侅［ne］＇tough silk＇，are correctly written with component 莄（
 which is actually written with component $\overline{\text { 尣 }} \square \ll$ ）and is phonetically related to
 should be corrected to use Component 343 旡，and one ideograph with Component 343 交 needs to be corrected to use 交（ $\square$ 亿 ）。
However，it should be noted that in a few cases characters with Component 343 交 may sometimes be written with a dot instead of an extended diagonal stroke（i．e．$\square^{Z} \ell$ ，which is different from $\square^{Z}<$ in $U+1775 B, U+17 B 3 F$ and $\left.U+17 E A 8\right)$ ．

Fig．15．Forms of Component 343 with and without a dot

| $\mathrm{U}+181 \mathrm{FA}$ 絞 |  | $\mathrm{U}+184 \mathrm{~B} 3$ 频 |  |
| :---: | :---: | :---: | :---: |
| dot | no dot | dot | no dot |
|  |  |  |  |

These examples of glyph variation may be candidates for representation using Ideographic Variation Sequences．

## Note 3 （U＋17CAB）

Homophones Edition B2 has the current form of U＋17CAB（蔵），whereas Homophones Editions A and B5 show the proposed new form of the character（菝）（there is no head entry for U＋17CAB in Sea of Writing）．As U＋17CAB has a compositional relationship with U +1818 B 䩲（as indicated in the entry for U＋1818B in Sea of Writing），the glyph form shown in Homophones A and B5 must be correct．

## 6．Additional Font Improvements

There are many additional cosmetic changes that could be made to the code chart font to improve its appearance，and make it a better model for font designers to follow．However， most such changes are not essential，and it would take considerable time and effort to redesign the font．Moreover，it is possible that China will provide a new code chart font at some point．

Nevertheless，there is one cosmetic change that we have made to the font．In the current version of the code chart font，Components 069 （久）， 142 （六），and 453 （麦）extend most of the way across to the right side of an ideograph，whereas primary sources all show that the last stroke of these components should only extend part of the way under the rest of the ideograph．We have tweaked 78 Tangut ideographs shown below to reduce the extent of the under－stroke．

Table 6．Minor Glyph Modifications

| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| U＋17055 | 处 | 处 |
| U＋17056 | 1处 | 1处 |
| U＋1707F | 聄 | 文条 |
| U＋17104 | 盀 | $\overline{\text { 糸 }}$ |
| U＋1714A | 11近 | 1近 |
| U＋1715E | 11要 | 11㐱 |
| U＋1715F | 11人近 | 水近 |
| U＋171CF | 交交 | 交 |
| U＋171D0 | 嵃 | $\frac{1}{\text { 处 }}$ |
| U＋171E4 | 交 | 交文 |
| U＋171EA | 豙年 | 交进 |
| U＋171EB | 夜寀 | 挍 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| U＋171F5 | 㚆 | 交気 |
| U＋171F7 | 卒交 | 卒交 |
| U＋17224 |  | 徭 |
| U＋17379 | 戎年 | 可近 |
| U＋17404 | 处 | 处 |
| U＋17405 | 从㐍 | 父炎 |
| U＋17406 | 建 | 夈 |
| U＋17407 | 处正 | 处无 |
| U＋17408 | 通 | 通 |
| U＋17409 | 处比 | 处䢒 |
| U＋1740A | 授 | 授 |
| U＋17464 | 羙起 | 交兵 |
| U＋17484 | 交交 | 交交 |
| U＋174E4 | 美卒 | 家卒 |
| U＋17549 | 鼡处 | 并行 |
| U＋17556 | 齐处 | 交㞂 |
| U＋175FA | 双处 | 处 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| U＋176C9 | 处 | 萺 |
| U＋176CB | 蓗 | 蓗 |
| U＋1773E | 黄处 | 星䢒 |
| U＋177FD | 而近 | 可近 |
| U＋17869 | 刘处 | 不处 |
| U＋17AF1 | 処 | 众 |
| U＋17AF2 | 迌 | 处 |
| U＋17AF3 | 处 | 众行 |
| U＋17AF4 | 处 | 众 |
| U＋17AF5 | 众父 | 众 |
| U＋17AF6 | 㐱 | 众令 |
| U＋17AF7 | 众㐱 | 众会 |
| U＋17AF8 | 处全 | 处行 |
| U＋17AF9 | 处 | 众 |
| U＋17AFA | 众 | 父 |
| U＋17AFB | 处 | 六通 |
| U＋17AFC | 处 | 父升 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| U＋17AFD | 处 | 㐱 |
| U＋17AFE | 处 | 处近 |
| U＋17AFF | 众文 | 众交 |
| U＋17B00 | 处 | 处 |
| U＋17B01 | 各 | 众条 |
| U＋17B02 | 处 | 处 |
| U＋17B03 | 处 | 处 |
| U＋17B04 | 这 | 众妥 |
| U＋17B05 | 处 | 㫠 |
| U＋17B06 | 处㐱 | 处㐱 |
| U＋17B07 | 处违 | 处阵 |
| U＋17B08 | 㫠租 | 㫠 |
| U＋17B09 | 处辰 | 金第 |
| U＋17B0A | 䢎 | 处䇣 |
| U＋17B0B | 至 | 处旍 |
| U＋17B0D | 爱 | 条 |
| U＋17B75 | 学䢠 | 首效 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| U＋17C6F | 後 | 交父 |
| U＋17ED7 | 开余 | 形处 |
| U＋17F5C | 发处 | 处处 |
| U＋18037 | 效 | 效文 |
| U＋180A5 | 湤处 | 派处 |
| U＋18150 | 效近 | 效近 |
| U＋1817E | フ处 | 效不 |
| U＋18346 | 茦处 | 首处 |
| U＋1834E | 龙近 | 龙近 |
| U＋1847E | 号元 | 交元 |
| U＋1847F | 㣫 | 产井 |
| U＋18480 | 譱 | 交言 |
| U＋18481 | 巟夆 | 足夆 |
| U＋184AA | 有处 | 不旼 |
| U＋185B9 | 前紊 | 产㟥 |

## 7．Radical Stroke Data

We recommend that the kRSTUnicode key in the data files TangutSrc．txt（ISO／IEC 10646） and TangutSources．txt（UCD）be updated to reflect the new radical assignments for ideographs listed in Table 3．However，we do not recommend that the stroke counts given under kRSTUnicode should be changed for those ideographs where unjoined strokes have been modified to joined strokes．In the＂Table of Xixia Characters＂joined strokes are counted as a single stroke，so for example Component 144 齐，which has a stroke count of＇ 4 ＇in the Unicode data，is counted as having a stroke count of＇ 3 ＇in the＂Table of Xixia Characters＂．We would prefer to keep the existing stroke counts for the 72 components listed in Table 1 （and by extension the stroke counts for all ideographs with these components），as explained below．

The kRSTUnicode key reflects the principles for assigning radicals and stroke counts that are defined in the original Tangut encoding proposal（WG2 N4522；L2／14－023），and for some purposes it is useful to continue using the sorting algorithm that kRSTUnicode currently produces，especially as this sort order more closely accords with the character ordering in Lǐ Fànwén＇s Tangut－Chinese Dictionary（2008）and other modern works of Tangut reference．In particular，maintaining the current stroke counts for kRSTUnicode would allow radicals such as $\mathrm{U}+1890 \mathrm{~A}$ 父 and $\mathrm{U}+18 \mathrm{AFD}$ 㚣 to sort adjacent to each other，
 be helpful for some users．
Furthermore，changing the stroke counts of the 72 components listed in Table 1 would only partially align kRSTUnicode with the＂Table of Xixia Characters＂，as the latter source has stroke counts that differ from kRSTUnicode for a number of other components（e．g． Component 009 i is 1 stroke in kRSTUnicode but 2 strokes in＂Table of Xixia Characters＂）． Therefore，we think that the best solution would be to add a new Radical／Stroke key which represents the radical assignments and stroke counts used by Profs．Jiǎ and Jǐng in a published source（such as a final published version of the＂Table of Xixia Characters＂）．

In summary，we propose making the following changes to kRSTUnicode：
－ 19 changes to radicals and stroke counts documented in WG2 N5126＝L2／19－403（18 changes listed on p．7）；
－ 8 radical corrections（Radical 316 to Radical 454 for U＋1814A；Radical 542 to Radical 543 for U＋185A5，U＋185A6，U＋185A8，U＋185AB，U＋185AD，U＋185C0；Radical 719 to Radical 691 for U＋187B0）；
－ 16 changes to radial and／or stroke count as listed in Table 5 above；
－ 27 changes from Radical 068 to Radical 763；
－ 50 changes from Radical 267 to Radical 766 （including U＋17F8A and U＋17FA5 which were modified in Unicode 13．0）；
－ 16 changes from Radical 278 to Radical 767；
－ 64 changes from Radical 316 to Radical 768 （including U＋18D05 and U＋18D06 which were added in Unicode 13．0）．
These changes are provided in an appended text file．

## 8．References

N5031．Andrew West and Viacheslav Zaytsev．Investigation of Tangut unification issues． ISO／IEC JTC1／SC2／WG2 N5031（L2／19－064）．2019－02－10．http：／／www．unicode．org ／L2／L2019／19064－tangut－n5031．pdf
N5064．Andrew West，Viacheslav Zaytsev（Institute of Oriental Manuscripts，Russian Academy of Sciences），Jia Changye（Ningxia Academy of Social Sciences），Jing Yongshi（Beifang University of Nationalities），Sun Bojun（Institute of Ethnology and Anthropology，Chinese Academy of Social Sciences）．Proposal to encode nine Tangut ideographs and six Tangut components．ISO／IEC JTC1／SC2／WG2 N5064（L2／19－207）． 2019－05－27．http：／／www．unicode．org／L2／L2019／19207－n5064－tangut．pdf

N5126．Andrew West and Viacheslav Zaytsev．Additional Tangut Glyph Corrections．ISO／IEC JTC1／SC2／WG2 N5126（L2／19－403）．2019－12－21．https：／／www．unicode．org／L2／ L2019／19403－n5126－tangut．pdf
Table of Xixia Characters．Zhōnghuá zìkù gōngchéng Xīxià wénzì de sōují zhěnglǐ kètí zǔ中华字库工程西夏文字的搜集整理课题组（comp．）．Xīxià zîfú jí shǔxìng biāozhù biǎo （căogăo）西夏字符及属性标注表（草稿）［Table of Xixia Characters with Annotated Properties（Draft）］．［s．l．］：Zhōnghuá zìkù gōngchéng Xīxià wénzì de sōují zhěnglǐ kètí zǔ 中华字库工程西夏文字的搜集整理课题组， 2016 年 8 月．

UTN 42．Andrew West and Viacheslav Zaytsev．Unicode Technical Note No．42：Tangut Character Additions and Glyph Corrections．Version 2．2019－12－21．https：／／www． unicode．org／notes／tn42／

See UTN 42 §6 for bibliographic details of the Tangut sources cited in this document．

## 9．Appendix：List of Modified Ideographs

The table below lists the 1，493 Tangut ideographs that are proposed for modification in Sections 3 and 4 above．

Table 7．List of Modified Ideographs

| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17002 | 千条 | F条 |
| 17009 | $\overline{\overline{3}}$ | $\overline{\overrightarrow{3} U}$ |
| 1700C | $\bar{x}$ |  |
| 1700E |  |  |
| 1700F | $\overline{11 X U}$ |  |
| 17011 | $\overline{\frac{v}{x}}$ | 高 |
| 17016 | 炃 | 炃 |
| 17017 |  |  |
| 17025 | 产干 | 受千 |
| 17041 | $1 \frac{1}{3}$ | $1 \frac{1}{\ll}$ |
| 17056 |  | 183 |
| 1705F |  |  |


|  | 13.0 |  |
| :---: | :---: | :---: |
| ${ }^{17068}$ | 姷 | 烺 |
| ${ }^{\text {ITV6i }}$ | 後 |  |
|  | 絲 |  |
|  | 1发 | 挍 |
|  | 訹 | 風 |
|  | 烙 | K |
|  | 炵 | 㴹 |
|  | 铬 |  |
|  | 䣅 | 㖘 |
|  | 洤 | 紋 |
|  | 校 | 㬵 |
| Don | 铰 | 紋 |
| \％ow | 冹 | 䃄 |
|  | 继荾 | 形荾 |
|  | 慢 |  |


| deteromt | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{17002}$ | 挤 | 榇 |
| ${ }^{\text {170］}}$ | 晸 | 洨 |
|  | 次 |  |
| ${ }_{\text {rove }}$ | 掞 | 攸 |
| ${ }_{\text {IVPI }}$ | 鹪 | 㒂 |
| ${ }_{\text {100 }}$ | 谚 | 倣 |
| ${ }^{12008}$ | 统 | 纹云 |
|  | 潵 | 沙 |
| ${ }_{1700}$ | 产 |  |
| ${ }_{17104}$ | 後 | 夜景 |
| ${ }_{17105}$ | 交 | 胶 |
| ${ }^{7115}$ | 䎟 | 植 |
| ${ }^{7117}$ | 㓎 | 気衰 |
|  | 朖 | 交奚 |
|  | 厰 | 喽 |


| Cubporn | 13．0 |  |
| :---: | :---: | :---: |
| 17127 | 劂 | 雏 |
| 1728 | 倣 |  |
| ${ }^{1722}$ | 胲 | 俢 |
|  | 咬 | 浽 |
| ${ }_{1744}$ | 瑷 | 挼 |
| ${ }^{1714}$ | 讹 | 机 |
|  | 楥 | 员 |
| ${ }_{17156}$ | 挤 | 挤 |
| ${ }_{1757}$ | 嫙 | 㤃 |
|  | 恔 | 恔 |
|  | 惨 | 惨 |
| 17，68 | 塨 | 瑷 |
| （17c | 﨔 | 誉 |
| 1183 | 数 | 数 |
| ${ }_{178} 7$ | 階 | ， |


| Sadepont | ， |  |
| :---: | :---: | :---: |
| ${ }_{1785}$ | 憮 | 脑 |
| ${ }_{1780}$ | 机 | 胗 |
| ${ }^{1799}$ | 訤 |  |
| ${ }^{1799}$ | 愋 | 悵 |
| ${ }^{1799}$ | 郎 | ｜313 |
| ${ }^{1719}$ | 惨 | 胶 |
|  | 相 | 愲 |
| ${ }^{719}$ | 紒 | 䋺 |
|  | 㼛 |  |
|  | 版 | 擞 |
| ${ }^{\text {71］}}$ | 炏䢒 |  |
| ${ }^{2} \mathrm{lc} 4$ | 吸 | 冽 |
| 1717 | 佟 | 㑷 |
| 位 | 疹 | 疼 |
|  | 唐 | 曻 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 171CF |  |  |
| 171D0 | $\frac{1}{4}$ |  |
| 171D1 |  |  |
| 171D2 | $\frac{1}{\frac{s}{2}}$ | $\frac{1}{\langle\hbar}$ |
| 171D3 |  |  |
| 171D5 |  |  |
| 171D7 |  |  |
| 171D8 | $\frac{1}{5 x}$ | $\frac{1}{5<}$ |
| 171D9 | 产 | $\frac{1}{50}$ |
| 171DB |  |  |
| 171E4 |  |  |
| 171E5 | $\frac{\vec{Z}}{\overline{4} \mathrm{~L}}$ |  |
| 171EB |  |  |
| 171F7 |  |  |
| 171F8 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 171FD |  |  |
| 17201 | $\frac{\text { 竍 }}{\text { 齐 }}$ |  |
| 17202 |  |  |
| 1720A | $\frac{\vec{\pi}}{\sqrt{\text { 又 }}}$ | $\frac{\square}{\sqrt{\text { 又 }}}$ |
| 1720F |  |  |
| 17212 |  |  |
| 17215 | 岳务 | 辰爸 |
| 1721A |  |  |
| 17220 | $\frac{7}{5 \frac{7}{7}<\chi^{2}}$ |  |
| 17223 |  |  |
| 1722C |  |  |
| 17232 | 象如 | 支《 |
| 17238 |  |  |
| 17239 |  |  |
| 17243 |  |  |


| Seterome |  |  |
| :---: | :---: | :---: |
| 17245 | 线 | 埈 |
| ${ }_{1276}$ | 婩 |  |
|  | 䂟 |  |
| ${ }^{17254}$ | 㱛 | 㱞 |
| ${ }_{17255}$ | 敄 | 放 |
| ${ }^{1228}$ | 饺 | 的 |
| ${ }^{1226}$ | ${ }_{5}$ | 侾 |
|  | 㬵 |  |
|  | 袯 | 倠 |
|  | 㭊 | 师 |
|  | 恐 | 嵅 |
| ${ }^{122 a}$ | 剕 | 戌 |
| ${ }_{1728}$ | 弦 | 垎 |
|  | 䛼 | 帰 |
|  |  | 碞 |


| ode Point | 13.0 | New |
| :---: | :---: | :---: |
| 172 CH | 牋 | 骹 |
| ${ }^{172 C B}$ | 卯发 | 湫 |
| 17208 | 瓜 | 印家 |
| ${ }^{\text {172EE }}$ | 峳 | 留 |
| 17725 | 澺 | 閭 |
| 17287 | 䥻 | 佼 |
| 172FF | 璦 | 誛 |
| 17305 | 㸞 | 篲 |
| 17308 | 覑 | 萨 |
| 1730F |  | 7而 |
| 17312 | 7x | 年 |
| 17313 | 鸿统 | 候讹 |
| 17319 | 暧 | 7效 |
| ${ }^{17318}$ | 鼷 | 铰 |
| ${ }^{731 \mathrm{C}}$ | 敛 | 詨 |


|  | 偳 |  |
| :---: | :---: | :---: |
|  |  | 没 |
|  | 弥 |  |
| ${ }_{722}$ | 㸛 | 顧 |
|  | 檺 | 㣪 |
|  | 髮 | 撘 |
| ${ }^{2328}$ | 纰 | 韀 |
| ${ }_{1336}$ | 挽 | 琖 |
| ${ }^{322}$ | 㢮 | 終 |
| 7388 |  | 掄 |
|  | 㐮 | 璦 |
|  | 㺷 | 于处 |
| ${ }^{3}$ | 屋 | 开 |
| ， | 㻊 | 娫 |
|  | 玟 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17352 |  |  |
| 17353 |  |  |
| 17359 |  |  |
| 1735B |  |  |
| 1735C | 保 | F条 |
| 1735F |  |  |
| 17361 |  | 干必平 |
| 17365 |  |  |
| 1736A |  |  |
| 1736C |  |  |
| 17378 |  |  |
| 1737A |  |  |
| 1737C |  |  |
| 1737E |  |  |
| 17380 |  |  |


| anepoir | ${ }^{13,}$ |  |
| :---: | :---: | :---: |
| 17381 | 㣪 | 析 |
| ${ }_{17384}$ | 沴 |  |
|  | 校 |  |
| ${ }_{1788} 1$ | 譺 | 校 |
| ${ }^{1738}$ | 榜 | 栲 |
| ${ }_{1}^{1339}$ | 機 | 機 |
| ${ }^{113}$ | 顔 | 曖 |
|  | 放 | 效 |
| ${ }^{1733}$ | 嗾 | 敄 |
|  | 䓉 | 䂆 |
|  | F孚 | 殹 |
| ${ }^{133 /}$ | 校 | 校 |
| 为 | 継 |  |
|  | 梴 | 拨 |
|  | 作 |  |


| Sateomeme | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{173}{ }^{\text {cr }}$ | 娘 | 如发 |
| ${ }_{1330}$ | 㖪 |  |
|  | 倍 | 媏 |
| ${ }_{1738}$ | 姣 | 帐 |
|  | 媛 | 授 |
| ${ }_{1738}$ | 旡 | 絺 |
|  | 㚴鳥 | 如同 |
|  | 煖 |  |
| ${ }_{1731}$ | 敉 | 娭 |
| ${ }_{17382}$ | 媏 | 媏 |
| ${ }^{1385}$ | 蜲 | 㜟 |
| ${ }_{17381}$ | 媻 | 媻 |
| \％ | 婽 | 緷 |
|  | 嫫 | 妘 |
|  | 侨 |  |


| deremet |  |  |
| :---: | :---: | :---: |
| ${ }_{17350}$ | 渞受 | 依 |
| ${ }_{17384}$ | 烟 |  |
| ${ }_{17372}$ | 娽 |  |
| ${ }^{1334}$ | 俳 | 㜀 |
|  | 娧 | 媏 |
|  | 诪 | 㸷 |
| ${ }^{13}$ | 隹筆 | 獜 |
|  | 㜛 | 㜀 |
|  | 㟲 | 儌 |
|  | 燱 | 处菱 |
|  | 相 | 婎 |
|  | 穎 | 總 |
|  | 嵝 | 納 |
|  | 根 | 相獘 |
|  | 修 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 1740B | $\frac{\pi}{2}$ |  |
| 1740C | \% | $\frac{8}{k}$ |
| 1740D |  |  |
| 1740E | 条 | 条 |
| 1740F |  |  |
| 17410 |  |  |
| 17411 |  |  |
| 17412 |  |  |
| 17413 | $\frac{\frac{3}{\sqrt{2}}}{\sqrt{8}}$ |  |
| 17414 |  |  |
| 17415 |  |  |
| 17416 |  |  |
| 17417 |  |  |
| 17418 |  |  |
| 17419 |  |  |


| Seteromt | ， |  |
| :---: | :---: | :---: |
| ${ }^{1741}$ | 絯 | 篤 |
| ${ }^{17418}$ | 筌 | 至至 |
| ${ }^{1791}$ | 媇 | 絾 |
| ${ }^{17411}$ | 㝚 | 閂 |
| ${ }_{1742}$ | 疹 | 硕 |
| ${ }^{17738}$ | 愛 | 美 |
| 174 | 落 | 前 |
| ${ }_{1742}$ | 砬 | 䇣 |
| ${ }_{1745}$ | 前 | 兹 |
| ${ }_{17456}$ | 前 | 前 |
| ${ }_{17360}$ | 㖪 | 㖪 |
| ${ }^{17468}$ | 优 | 夜 |
| ${ }^{17472}$ | 剖 | 这 |
| 为 | 㑓 | 㑓 |
|  | 藦 | 促 |


| Sateome | ， |  |
| :---: | :---: | :---: |
| ${ }_{17778}$ | 落 | 坒 |
|  | 亦 |  |
| ${ }^{17898}$ | 交 | 夜 |
| ${ }^{1784}$ | 夜 | 兹 |
| ${ }_{1736}$ | 鿏 | 寺 |
| ${ }^{1799}$ | 䔟 | 刑荗 |
|  | 并夏 | 最 |
|  | 妾倠 |  |
|  | 最 | 首 |
|  | 紋 | 兹 |
| ${ }^{17887}$ | 兹 | 妣 |
| ${ }_{17488}$ | 兹 | 位 |
| 崖 | 菝 | 碳 |
|  | 㨢 | 誂 |
|  | 㒸 | 崖 |


| Sateonet | ． |  |
| :---: | :---: | :---: |
| 17402 | 詟 | 裘 |
| ${ }^{1748}$ | 峢 | 後 |
|  | 彦 | 菐 |
| ${ }_{1780}$ | 前 | 前 |
| ${ }_{1742}$ | 嗞 | 兹 |
| ${ }^{1748}$ | 蓕 | 倠 |
|  | 蒾 | 蓯 |
|  | 慈这 | 婒 |
| ${ }_{17466}$ | 萑 | 㚇 |
| 17447 | 螆 | 妾荗 |
| ${ }^{7449}$ | 斋 | n＜ |
| ${ }^{17488}$ | 㚇攽 | 愛 |
| 寺 | 㧞 | 沓 |
| ${ }_{1744}$ | 爰 | 猚 |
|  | 経 | 寺 |


| Sateont | ． |  |
| :---: | :---: | :---: |
| ${ }_{1744}$ | 愛 | 爰 |
| ${ }^{1750}$ | 㚆 | 慈 |
| ${ }^{1750}$ | 効 |  |
| ${ }^{17509}$ | 舜 | 极 |
| ${ }_{17508}$ | 慈 | ， |
| ${ }^{17506}$ | 慈 | 姜 |
| ${ }_{15310}$ | 慈 | 穊 |
| ${ }^{175}$ | 酸 | 宕 |
| ${ }_{17512}$ | 賋 | 瑶 |
| ${ }^{7513}$ | 举 | 兴 |
| ${ }_{17517}$ | 䔀 | 笋 |
| ${ }_{17518}$ |  | 妥荷 |
| ${ }_{15326}$ | 舜 | 紋 |
| ${ }^{153}$ | 䍜 | 眊 |
|  | 攁 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17530 |  |  |
| 17532 | 少么 |  |
| 17533 |  |  |
| 17534 |  |  |
| 17535 |  |  |
| 17536 |  |  |
| 17537 |  |  |
| 1753A |  |  |
| 1753B | $\frac{v}{\text { 文盂 }}$ |  |
| 17542 | 交 |  |
| 17556 |  |  |
| 17558 |  | $\frac{\overline{7}}{\text { 万㚆 }}$ |
| 1755C |  |  |
| 17561 |  |  |
| 17564 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 1756B |  |  |
| 1756D |  |  |
| 17571 | 卒文人 | $\frac{\overline{3}}{\text { 卒人 }}$ |
| 1757C | $\frac{7}{3} k$ | $\frac{3}{2}<$ |
| 17585 | $\frac{7}{7}$ | $\frac{7}{2}<$ |
| 1758E | $\stackrel{7}{7} \frac{1}{2}$ | $\frac{7}{7}$ 交 |
| 175A6 | これ人 |  |
| 175A8 | $\begin{aligned} & \text { コ } \\ & \text { 子キ } \end{aligned}$ | $\begin{aligned} & \text { コキ } \\ & \imath キ ラ \end{aligned}$ |
| 175AB | 子众 | 号文し |
| 175B3 |  |  |
| 175B4 |  |  |
| 175B7 | マユ久 |  |
| 175B8 |  |  |
| 175C1 |  |  |
| 175C4 | $\begin{gathered} 7 \\ 7 \end{gathered}$ | $\begin{aligned} & \text { 子位 } \end{aligned}$ |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 175C9 |  |  |
| 175CD |  |  |
| 175CE |  |  |
| 175CF | $\frac{7}{\mathrm{H}_{3}^{\prime}}$ |  |
| 175D0 |  |  |
| 175D1 | $\frac{\overrightarrow{7}}{\frac{7}{x}}$ | $\frac{\frac{t}{\sqrt{\prime}}}{\frac{\sqrt{x}}{x}}$ |
| 175D2 |  |  |
| 175EA | 予坟 | 水 |
| 175EE |  |  |
| 175F9 |  |  |
| 17604 |  |  |
| 17610 |  |  |
| 17613 | 采 | 马号 |
| 17618 | 予全 | 千众 |
| 17619 |  |  |


| Suepoit | 㙰 |  |
| :---: | :---: | :---: |
| ${ }^{1761 F}$ | 袶 | 袨 |
| ${ }_{17620}$ | 䒘 |  |
|  | 頑 |  |
|  | 形交 | 候 |
|  | 动蕒 |  |
| ${ }^{1766}$ | 設 | 誏 |
| ${ }^{1767}$ | 詨 | 绦 |
|  | 詨 | 訧 |
| ${ }^{1767}$ | 䏒 |  |
| ${ }^{1767}$ | 㬵 |  |
| ${ }^{17675}$ | 致延 |  |
| ${ }^{1794}$ | 菜 | 碞 |
| \％os | 落 | 萦 |
|  | 䒵 | 䒵 |
|  | 曼 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 1769D |  |  |
| 176A1 | $\frac{H H}{11 \frac{\alpha}{3}}$ | $\frac{H 1}{1 / \frac{\alpha}{3}}$ |
| 176A9 | $\begin{aligned} & \text { 众 } \end{aligned}$ | H 处 |
| 176B3 | $\begin{aligned} & \text { H } \\ & \text { 交も } \end{aligned}$ | 呂 |
| 176C6 | 谷 |  |
| 176CA | $\begin{aligned} & \text { H } \\ & \text { 多各 } \end{aligned}$ | 艾全 |
| 176CC | $\begin{aligned} & \text { H } \\ & \text { 众 } \end{aligned}$ | 艾务 |
| 176CD | $\frac{11}{k \\| \neq}$ | 相 |
| 176D4 |  | 方落 |
| 176D9 | $\begin{gathered} \text { H } \\ \text { 5年 } \end{gathered}$ | $\begin{aligned} & \text { 呂 } \\ & \text { 5交 } \end{aligned}$ |
| 176DE | $\begin{gathered} +1 \\ F<x \end{gathered}$ | 千花 |
| 176E2 |  | $\begin{gathered} \text { H } \\ \text { 交文 } \end{gathered}$ |
| 176E4 |  | $\frac{\text { H }}{112}$ |
| 176E7 | $\begin{gathered} H \\ \frac{1}{7} / 3 \end{gathered}$ | 荘务 |
| 176E8 | 少综 | H |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 176EE | $\begin{aligned} & H \\ & \text { 卒 } \end{aligned}$ | $\begin{aligned} & H \\ & \text { 卒 } \end{aligned}$ |
| 176F0 | 䒚交 | 岁 |
| 176F2 |  | $\begin{aligned} & \text { H } \\ & \text { 众 } \end{aligned}$ |
| 176F4 | $\begin{aligned} & \text { H } \\ & \text { 发多 } \end{aligned}$ | 发亏 |
| 176F9 | 爷多 | 芹艾 |
| 176FA | $\begin{aligned} & \text { H } \\ & \text { 㕣 } \end{aligned}$ | $\begin{aligned} & \text { 十芴 } \end{aligned}$ |
| 176FB | $\begin{aligned} & +1 \\ & \text { 人交 } \end{aligned}$ | $\begin{aligned} & 4 \\ & \text { 父 } \end{aligned}$ |
| 176FC | $\begin{gathered} \text { H } \\ \text { 冬モ } \end{gathered}$ | $\begin{aligned} & \text { H } \\ & \text { 冬も } \end{aligned}$ |
| 176FD | 忞色 | 忩色 |
| 176FF | 六交亏 | 岗交亏 |
| 17715 |  | 千芜 |
| 1771B | $\frac{4}{x}$ | $\frac{14}{\bar{X}}$ |
| 1771C | $\frac{11}{亠 幺}$ | 六交 |
| 1771D | 艾し | $\frac{H}{x}$ |
| 17725 | $\begin{aligned} & \text { H } \\ & \text { 条方 } \end{aligned}$ | $\begin{aligned} & \text { 多 } \\ & \text { 多 } \end{aligned}$ |


| Sose pomet | 13．0 |  |
| :---: | :---: | :---: |
| ${ }_{1726}$ | 药 | 茺 |
| ${ }_{1727}$ | 藙 | 蕧 |
|  | 後 | 愛 |
| ${ }_{1724}$ | 萃 | 蒌 |
| ${ }^{1772 A}$ | 媍 | 荻 |
| ${ }^{1727}$ | 薮 | 姚 |
| ${ }_{1720}$ | 澼 | 無 |
| ${ }^{17272}$ | 眇 | 藢 |
| ${ }^{1727}$ | 䔨 | 䒫 |
| ${ }_{17730}$ | 薪 | 形 |
| ${ }^{7734}$ | 㥹 |  |
| ${ }^{7738}$ | 薬 | 真 |
|  | 蓣 | 蘋 |
| 为 | 薮 | 䒵 |
|  | 䔉 | 稀 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17752 |  | $\begin{aligned} & H \\ & \overline{\bar{\Pi}}<\bar{U} \end{aligned}$ |
| 17753 |  |  |
| 17755 | $\frac{11}{\sqrt{8}}$ | 㸵㐎 |
| 17760 | 桜多 | $\begin{aligned} & \text { 度 } \\ & \text { 友 } \end{aligned}$ |
| 17762 | 爻半 | $\begin{aligned} & \text { H } \\ & \text { 爻半 } \end{aligned}$ |
| 17763 | $\begin{aligned} & \text { H } \\ & \text { 立井万 } \end{aligned}$ | $\begin{aligned} & \text { H } \\ & \text { 人其万 } \end{aligned}$ |
| 17764 | $\begin{aligned} & \text { 父类 } \end{aligned}$ | $\begin{aligned} & \text { H } \\ & \text { 关 } \end{aligned}$ |
| 17765 | $\begin{aligned} & \text { H } \\ & \frac{1}{7} X C \end{aligned}$ | $\begin{gathered} H \\ \bar{\Pi} \end{gathered}$ |
| 17766 | 交全し | $\frac{+1}{\frac{1}{x}}$ |
| 17772 |  |  |
| 17774 | $\begin{gathered} \text { 交而 } \end{gathered}$ | 六百 |
| 17775 | 京言 | $\frac{H}{\text { H }}$ |
| 1777A |  | 網純 |
| 17789 | $\begin{aligned} & \text { 爻萉 } \end{aligned}$ | 荽华 |
| 1778B | $\begin{aligned} & \text { 觉 } \\ & \text { 人啚 } \end{aligned}$ | 苍莩 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 1778F |  | $\frac{H}{\frac{1}{x}} 1 \frac{\bar{x}}{\frac{1}{x}}$ |
| 17799 | 芳首 | $\begin{aligned} & \text { H } \\ & \text { 交角 } \end{aligned}$ |
| 1779C |  | $\begin{aligned} & \text { 上啚 } \\ & \text { 与荾 } \end{aligned}$ |
| 1779F | 賁产 |  |
| 177A0 |  | 的齐 |
| 177A3 | 岁单 | 岗桨 |
| 177A4 | $\begin{aligned} & \text { 商开 } \end{aligned}$ |  |
| 177A7 | 萑兴 | 苍茙 |
| 177A8 | $\begin{aligned} & \text { 箖开 } \end{aligned}$ | $\begin{aligned} & \text { H } \\ & \text { 言学开 } \end{aligned}$ |
| 177A9 |  | $\begin{aligned} & \text { 首 } \\ & \text { 妾 } \end{aligned}$ |
| 177B4 |  | 应桜 |
| 177B5 | 草 | $\begin{aligned} & \text { 十 } \\ & \text { 交人 } \end{aligned}$ |
| 177B6 | 发六文 | $\begin{aligned} & \text { 近 } \\ & \text { 交 } \end{aligned}$ |
| 177B7 | 夋茾 | 苍菩 |
| 177BA | 世管 | 少年 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 177BB | $\begin{aligned} & \text { 岩 } \\ & \text { 罙羊 } \end{aligned}$ | $\begin{gathered} \text { 芹 } \\ \text { 至茬 } \end{gathered}$ |
| 177C1 |  | $\begin{gathered} \text { 萦交 } \end{gathered}$ |
| 177C2 | $\begin{aligned} & \text { H } \\ & \text { 艾爻 } \end{aligned}$ | 恶齐 |
| 177C7 | 釜苛 | 苟葡 |
| 177CD | $\begin{aligned} & \text { H } \\ & \text { 華觉 } \end{aligned}$ | $\begin{gathered} \text { H } \\ \text { 至苶し } \end{gathered}$ |
| 177CE | H1 至豕 | H 至各 |
| 177D0 | 笠家 | 产 |
| 177DB | $\prod_{+17}$ |  |
| 177E4 |  |  |
| 177ED | 雨务 | 所落 |
| 17800 |  |  |
| 1781F |  |  |
| 17829 | $\text { } \overline{8} \frac{\pi}{7}$ | 友至 |
| 1782E |  |  |
| 17839 | 原爸 | 原文し |


|  |  |  |
| :---: | :---: | :---: |
| 17838 | 診 | 败 |
| ${ }_{1784}$ | 砍各 |  |
| ${ }^{1784}$ | 㖒人 |  |
|  | 磁 | 烄 |
| ${ }_{17855}$ | 䐂 | 琭 |
|  | 倭 |  |
|  | 磄 | 姷 |
|  | 娭 | 师 |
|  | 昽 |  |
|  | 廹 | 娘 |
|  | 娘 | 娘 |
| ${ }^{1786}$ | 㱛 | 攻 |
| ${ }^{1789}$ | 碚 | 有 |
|  | 档 | 珰 |
|  | 脌交 | 顽 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17867 |  |  |
| 17868 |  | ¢ TV $^{\text {N }}$ |
| 1786A | 保多 | 们品务 |
| 17879 |  |  |
| 1787C | 牛条 | 的众 |
| 1787D |  |  |
| 1787E |  |  |
| 1787F |  |  |
| 17884 | 民条 | 降 |
| 1788B |  |  |
| 17893 | 敳 |  |
| 17898 | 彷 | 乡衣 |
| 178A0 | 㪀 |  |
| 178A2 |  |  |
| 178A3 |  |  |


| Suepome | ， |  |
| :---: | :---: | :---: |
| ${ }_{\text {trea }}$ | 䘖 | 微 |
| ${ }^{17888}$ | 效 | 效 |
| ${ }_{\text {İ8B6 }}$ | 䊽 | 糸 |
| ${ }^{17888}$ | 後 | 䜌 |
| ${ }_{\text {reat }}$ | 饺 | 效 |
| ${ }_{\text {lven }}$ | 很 | 很 |
|  | 效 | 标 |
|  | 幑 | 紷 |
|  | 效 | 紋 |
| ${ }_{1784}$ | 效 | 效 |
| ${ }_{\text {IFP6 }}$ | 紘 | 䛃 |
| \％90， | 修 | 紟 |
|  | 修 | 街 |
|  | 幑 | 幑 |
|  | 账 | 帐 |


| duepoit |  |  |
| :---: | :---: | :---: |
| ${ }_{17901}$ | 钒 | 㺪込 |
| ${ }^{1997}$ | 尣 | 聄 |
| ${ }^{17916}$ | 緕 | 終 |
| ${ }_{1099}$ | 㸚 | 众 |
|  | 处这 | 䋁 |
|  | 终 | 碞 |
| 7904 | 仯 | 後 |
|  | 妏 |  |
| ${ }_{17952}$ | 缽 |  |
| 17959 | 㣠 |  |
|  | 烇 | 洤 |
| 7938 | 楸 | 㚭 |
|  | 滧 | 碞 |
|  | 䜌 | 夋 |
|  | 徵 | 哏 |


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| :---: | :---: | :---: |
| 1 197E | 挍 | 紋 |
| ${ }^{17980}$ | 钬 | 兂 |
|  | 䘖 |  |
|  | 行文 |  |
|  | 敉 | 推 |
|  | 琂 | 相 |
|  | 珓 | 絞 |
| ${ }_{17996}$ | 彷 | 碞 |
| ${ }^{17998}$ | 勿站 | 紋 |
| ${ }^{19998}$ | 很 | 行 |
| （7900 | 级相 | 気材 |
| ，91 | 挍 | 後 |
| ${ }^{19912}$ | 緻 | 䂠 |
|  | 唚 | 復 |
| ${ }^{1798}$ | 终 | 修 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 179B3 | 各㐱 | 众㐱 |
| 179B4 | 伩人 | 㸚人 |
| 179B5 | 後 | 紒 |
| 179BD | 交 | 父禀 |
| 179C0 | 文単人 | 蓟人 |
| 179C1 | 行㐱 | 交坒各 |
| 179C5 | 㐱匂 | 玄文 |
| 179D5 | 尣交 | 交变 |
| 179D8 | 苳 | 得 |
| 179DC | 㪀处 | 处处 |
| 179E2 | 㣔化 | 行如 |
| 179E9 | 逡 | 浐 |
| 179F3 | 体人 | 体义 |
| 179FC | 条 | 聄 |
| 179FD | 㸚 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 179FE |  | 众苋 |
| 179FF |  |  |
| 17A04 |  | 处立 |
| 17A05 |  | x㒬 |
| 17A0F | 交 |  |
| 17A14 |  |  |
| 17A1C |  |  |
| 17A1F |  |  |
| 17A20 |  |  |
| 17A2F | 行页 | 係条 |
| 17A30 |  |  |
| 17A38 |  |  |
| 17A3C | $\begin{aligned} & \text { 厈 } \\ & x<6 \end{aligned}$ |  |
| 17A3F |  | 行条 |
| 17A45 | 众库 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17A49 | 们㐱 | 网条 |
| 17A4A |  | 行交 |
| 17A4C | 湢人 | 绍 |
| 17A4D | 妉不 | 妉交 |
| 17A4E |  |  |
| 17A4F |  | 仔尼 |
| 17A54 | 质人 | 在人 |
| 17A56 | 齐 |  |
| 17A57 | x | x处 |
| 17A59 | 人 | 人 $\chi^{\frac{1}{7}}$ |
| 17A5A | 效 |  |
| 17A5B | 人× | 仗 |
| 17A5E | 少人 | 少少 |
| 17A60 |  |  |
| 17A73 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17A74 |  |  |
| 17A77 |  |  |
| 17A78 | $\begin{aligned} & \text { 卒 } \\ & \text { 人 } \end{aligned}$ |  |
| 17A7D | 隹作 | 炏化 |
| 17A82 | $\begin{aligned} & \text { 人开 } \\ & \text { x人 } \end{aligned}$ |  |
| 17A86 |  | 外咸 |
| 17A88 |  |  |
| 17A89 | 处 | 处 |
| 17A8F |  |  |
| 17A90 | $\begin{aligned} & \text { K甘 } \\ & \text { XXE } \end{aligned}$ |  |
| 17A94 | 律多 | 行文 |
| 17A97 |  |  |
| 17A99 | 伟効 | 佼入如 |
| 17A9A | 彷七 | 烄七 |
| 17AA0 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17AA1 |  |  |
| 17AB1 | 父炎 |  |
| 17AB2 | 齐务 | 众书爻 |
| 17AB5 |  |  |
| 17AB7 |  | 仠伩 |
| 17ABB |  |  |
| 17ABE |  |  |
| 17AC3 |  |  |
| 17AC8 | 信务 |  |
| 17ACA | 単妾 |  |
| 17AD0 |  |  |
| 17AD1 | 位立し |  |
| 17AD9 | 律弄 | 律严 |
| 17ADC |  |  |
| 17ADF | 位示 | 位テ |


| Satepom |  |  |
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| ${ }_{17 \text { ariz }}$ | 嗞 | 紶 |
| 1дaEI | 姷䔺 |  |
|  | 㣜 |  |
| ${ }_{\text {ITaEE }}$ | 徹型 | 绞郞 |
| ${ }_{\text {tadif }}$ | 处 | 全 |
| ${ }_{\text {IJaFI }}$ | 处 | 全 |
|  | 俢 | 众 |
|  | 处 | 处 |
|  | 处 | 缺 |
|  | 这 | 处 |
|  | 开 | 条 |
| 1800 | 萨 | 越 |
|  | 效 | 文 |
|  | 效 | 奴 |
|  | 後 |  |


|  | 挍 | 姣 |
| :---: | :---: | :---: |
| \％ex | 缺 | 旼 |
| 7818 | 缺 |  |
| ${ }^{294}$ | 绫 | 姣 |
| vor | 张 | 炏 |
| ${ }^{294}$ | 称 |  |
| ${ }^{2807}$ | 禪 | 裖 |
| ${ }^{7218}$ | 㡎 | 处 |
| ${ }^{2818}$ | 紼 | 兗 |
| тman | 斍 | 䙺 |
| man | 紋 | 妏 |
| sac | 姢 | 媵 |
| \％aid | 姯 | 媏 |
| тaİ | 彻 | 㛦 |
|  |  |  |


|  | 娫 | 娭 |
| :---: | :---: | :---: |
| \％eir | 雏 | 㿥 |
| ver | 逃 |  |
| ${ }_{212}$ | 纯 | 纪 |
| ${ }^{108}$ | 纯 | 帞 |
| ${ }^{208}$ | 後 | 纹 |
| ${ }^{720} 8$ | 维 | 维 |
| ${ }^{\text {ven }}$ | 班 | 㖣 |
| ver | 绍 | 烦 |
| ${ }_{\text {，} 1028}$ | 㷋 | 维 |
| vex | 维 | 级 |
| ${ }^{\text {raxaz }}$ | 㢭 | 佔 |
| ${ }_{\text {reac }}$ | 杹 | 後 |
| \％ex | 维 |  |
|  | 紼 |  |


| Sucpomt | 3， |  |
| :---: | :---: | :---: |
| ${ }^{1782 F}$ | 訛 | 继 |
| ${ }_{17838}$ | 维 | 维 |
| ${ }^{1783}$ | 後 | 後 |
| ${ }_{17832}$ | 讹 | 纪 |
| ${ }_{\text {trg3 }}$ | 铆 | 继 |
| ${ }_{\text {1783 }}$ | 僘 | 楼 |
| ${ }_{1783}$ | 㠓 | 维 |
| ${ }_{1733}$ | 食 |  |
| Lrege | 食 | 食 |
| ${ }_{\text {LP833 }}$ | 斺 | 颜 |
| 1785！ | 棭 | 砇 |
| Vb6 | 毅 | 分 |
| （8） | 䗠 | 称 |
|  | 假 | 假 |
|  | 敞 | 洤 |


| Suepome | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| 17 B 5 | 欮 | 㣢 |
| ${ }_{\text {İbac }}$ | 脑 | 这 |
| ${ }^{\text {ITBEI }}$ | 顽 | 这 |
| ${ }^{17886}$ | 逄 | 遥 |
| ${ }_{\text {178日发 }}$ | 䢦 | 䢞 |
|  | 逃这 | 込 |
| ${ }_{\text {trga }}$ | 瑷 | 撹 |
|  | 裗 | 这迤 |
| \％8， | 兎 | 㧼 |
| rzae | 㖻 | 遂 |
|  | 䢒 | 越 |
| ${ }^{\text {1780］}}$ | 效 | 效 |
|  | 賋 | 放 |
|  | 弱 | 峧 |
|  | 呅 | 弦 |


| cubepoir | ， |  |
| :---: | :---: | :---: |
| 17can | 訛 | 碞 |
| ${ }^{17011}$ | 䛵 |  |
|  | 楼 |  |
| ${ }^{172} 2$ | 确 | 放年 |
| ${ }_{1728}$ | 伩 | 觡 |
| uca | 敄 | 欢 |
|  | 䢂 | 扥 |
|  | 絏 |  |
| ${ }_{\text {ITCut }}$ | 劧 |  |
| ${ }_{\text {ITcs }}$ | 爱 | 若 |
| ${ }_{\text {a }}^{6} 4$ | 莀 | 液 |
| ${ }^{7}$ 768 | 落 | 落 |
| 1755 | 夜 |  |
|  | 葹 | 如 |
| ${ }^{1766}$ |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17C62 | 事炎 | 市务 |
| 17C64 |  |  |
| 17C6B | 平务 | 平 |
| 17C6E |  |  |
| 17C6F |  |  |
| 17C70 | 度 | 应人 |
| 17C7A |  |  |
| 17C7B |  |  |
| 17C83 | 効 | 炃 |
| 17C84 | 爷年 | 齐 |
| 17C85 | 齐角 | $\stackrel{\text { 齐 }}{\underline{1}}$ |
| 17C86 |  |  |
| 17C8A |  |  |
| 17C90 |  | 音分 |
| 17C95 | $\begin{gathered} \text { 务 } \\ \text { 分 } \end{gathered}$ | 㚆肖 |


| Suepomt |  |  |
| :---: | :---: | :---: |
| 1798 | 杵 | 濰 |
| 1709 | 品 | 準 |
| 17090 | 誫 | － |
| 17 Tg | 蕧 | 後 |
| ${ }_{\text {ITar }}$ | 紋 | 寺 |
| uras | 蕧 | 蕧 |
| ${ }_{\text {treab }}$ | 覆 | 䕑 |
| 17 cm | 薪 | 䕑 |
| ${ }_{17682}$ | 蔲 | 䛮 |
| ${ }_{\text {ITcra }}$ | 頶 | 蒖 |
| 17¢а | 變 | 䊼 |
| \％скв | 硫 | 政 |
|  | 敇 | 楼 |
| ，ums | 效 | 䊵 |
|  | 伃 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17D08 |  |  |
| 17D09 |  |  |
| 17D18 |  |  |
| 17D1B | 斥交 |  |
| 17D1F | 外条 |  |
| 17D24 |  |  |
| 17D25 | $\frac{\underline{z}}{\bar{k}}$ |  |
| 17D26 | $\frac{24}{2 \pi}$ | $\frac{5}{2 \pi}$ |
| 17D27 | $\frac{5}{i / \bar{y}}$ | $\frac{\Sigma \ll}{i=1}$ |
| 17D28 | 広 |  |
| 17D29 | $\frac{24}{6 x}$ | $\frac{5}{2}$ |
| 17D2A |  |  |
| 17D2B |  |  |
| 17D2C | $\frac{2}{\frac{1}{x}}$ | $\frac{5 \%}{\frac{1}{x}}$ |
| 17D2D |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17D2E |  |  |
| 17D32 | $\begin{aligned} & \text { F } \\ & 4 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \mp+ \\ & 4 E \end{aligned}$ |
| 17D35 | $\begin{aligned} & \text { F } \\ & \text { x1 } \end{aligned}$ | FF 父立 |
| 17D36 |  |  |
| 17D39 | FF 人 $11 \times$ |  |
| 17D3B | 条方 | 妾方 |
| 17D45 | 下千 |  |
| 17D47 | $\begin{aligned} & \text { 干 } \\ & \text { 交乡 } \end{aligned}$ |  |
| 17D4A | 交交 |  |
| 17D4B | 平落 | 露条 |
| 17D4D | F条 |  |
| 17D4E | FF 住 |  |
| 17D52 | $\begin{aligned} & \text { 千 } \\ & \text { 弃㐱 } \end{aligned}$ |  |
| 17D58 |  |  |
| 17D59 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17D5C | 千下 人干 |  |
| 17D5D |  |  |
| 17D5E |  |  |
| 17D66 |  |  |
| 17D67 | $\begin{aligned} & \text { FI } \\ & \text { 条井 } \end{aligned}$ | $\begin{aligned} & \text { 千斤 } \\ & \text { 条井 } \end{aligned}$ |
| 17D68 |  | $\begin{aligned} & \text { 众 } \\ & \text { 全 } \end{aligned}$ |
| 17D69 |  |  |
| 17D6A |  | 平要 |
| 17D6E |  |  |
| 17D73 |  |  |
| 17D75 |  |  |
| 17D77 |  |  |
| 17D78 |  |  |
| 17D79 |  |  |
| 17D7B |  |  |


|  | 椣 |  |
| :---: | :---: | :---: |
| vop | 效 |  |
| \％ow | 效 |  |
| ${ }^{\text {nown }}$ | 効 | 効 |
| ${ }_{\text {Nome }}$ | 效 | 效 |
| \％04 | 饺 |  |
| ${ }^{\text {pope }}$ | 㪰 | 狡 |
| \％pes | 效 | 絾 |
| voen | 效 | 挽 |
| momes | 效 | 效 |
| Now | 効 | 效 |
| ${ }_{\text {\％ose }}$ | 兗 | 㪰 |
| poxe | 效 | 效 |
| pom | 效 | 效 |
|  |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17D8B |  |  |
| 17D8C |  |  |
| 17D8D |  |  |
| 17D8E |  |  |
| 17D8F |  |  |
| 17D90 |  |  |
| 17D91 |  | 之芹 |
| 17D92 |  |  |
| 17D93 |  |  |
| 17D94 |  |  |
| 17D95 |  |  |
| 17D96 |  |  |
| 17D98 |  |  |
| 17D9A | 所六 |  |
| 17DA3 | $\begin{aligned} & \text { 交 } \\ & \hline 1+1 \end{aligned}$ | $\begin{aligned} & \text { 文交 } \\ & \text { 等 } \end{aligned}$ |


| Sateome | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{17018}$ | 雍 | 目 |
| ${ }^{1709}$ | 㜪 | 積 |
| ${ }^{170.4}$ | 嚮 | 嚮 |
| ${ }^{\text {rDa }}$ A |  | 雍 |
| ${ }^{1702}$ | 曼 | 無 |
| ${ }^{17088}$ | 無 | 無 |
| ${ }^{\text {400 }}$ | 無 | 無 |
| ${ }^{\text {ITDEE }}$ | 舞 | 無 |
| ${ }^{\text {TVP80 }}$ | 橆 | 輀 |
| ${ }_{10 \mathrm{p} \times 0}$ | 橆 | 廡 |
| voci | 無 | 無 |
| ${ }^{200}$ | 奚 | 䍃 |
| 100 | 橆 | 潍 |
|  | 舜 |  |
|  | 無 | 墲 |


| Sucpoim | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{170}$ | 愛 | 爰 |
| ${ }_{\text {170ce }}$ | 黄 | 笭 |
| ${ }^{12002}$ | 纗 | 効 |
| ${ }^{17003}$ |  |  |
| ${ }_{17004}$ | 黄悉 | 黄 |
|  | 㲫 |  |
| ${ }^{7007}$ | 舞 | 瞢 |
| ${ }^{17 \mathrm{pra}}$ | 船 | 盘 |
| IDPre | 的 | 軨 |
| ${ }^{\text {rfer }}$ | 的 | 形 |
| ${ }^{\text {ren }}$ | 鸸年 |  |
| ${ }^{17810}$ | 酸 | Hix |
| 1812 | 䑦 | 肳 |
| 1726 | 效 |  |
|  | 盼 | － |


| datepoit |  |  |
| :---: | :---: | :---: |
| 17728 | 效 | 絧 |
| ${ }_{1722}$ | 琒为 |  |
|  | 效 |  |
|  | 縙 | 效 |
| ${ }_{172 \mathrm{c}}$ | 㱛 | 㱛 |
| ${ }_{\text {vtrat }}$ | 效 | 寺 |
|  | 鿉 | 覚 |
| ${ }_{\text {vraer }}$ | 信 | 效 |
| \％780 | 㱨 | 杼 |
| ${ }_{\text {2 } 731}$ | 湤 |  |
| ข182 | 豕誟 |  |
| ${ }^{7} 183$ | 效炎 | 䄉 |
| ${ }^{1734}$ | 䄛 | 䄛 |
|  | 粫 | 部者 |
|  | 弱 | 兂 |


| Seroie | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| 1784 | 諼 | 詅 |
| 1784 | 敦 | 研 |
|  | 衩 |  |
| ${ }^{1755}$ | 被 | 袚 |
| ${ }_{\text {ITES }}$ | 放 | 耻 |
|  | 絡 | 何 |
|  | 䄈 | 而 |
|  | 斐 |  |
|  | 的交 | 敖 |
| 187 | 的多 | 耏 |
| ${ }_{1875}$ | 䡈 | 段 |
| （1） | H風 | 龙逃 |
| твео |  |  |
|  | 䊼 | 紤 |
|  | 北 | 为 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 1788D | 教 | 比效 |
| ${ }^{1788 F}$ | 段爰 | 段爱 |
| ${ }^{17881}$ | 䇣 | 笠 |
| ${ }^{17882}$ | 䋁弓 | 䑤行 |
| ${ }^{17883}$ | 铰 | 铰 |
| ${ }^{17 \text { BB }}$ | 皎 | 疑 |
| 17ecs | 败 | 形奴 |
| ${ }^{17 \mathrm{ED}} 3$ | 形 | 矮 |
| 178E4 | 笋 | 轪 |
| 178ED | 軼䧺 | 橅 |
| 17 Fr 2 | 絡 | 形数 |
| ${ }^{1712}$ | 帐 | 很 |
| 17717 | 缼 | 咯 |
| 17FID | 忟 | 炇 |
| 17720 | 很 | 渡 |


|  |  |  |
| :---: | :---: | :---: |
| ${ }_{17726}$ | 㣪 | 嬡 |
| ${ }^{17778}$ | 微 |  |
|  | 徦 |  |
|  | 处 |  |
| ${ }_{1789}$ | 处 | 碞 |
|  | 处 | 处 |
|  | 郊 | 柿 |
| ${ }_{1733}$ | 发 | 发 |
|  | 边， |  |
| ${ }_{1785}$ | 发方 | 交方 |
| vir6 | 趘 | 徉 |
|  | 发 | 发 |
| тпзв | 发 | 发 |
|  | 该 | 炀 |
| ${ }_{1783}$ | 发等 | 缺 |


| asep | 13.0 |  |
| :---: | :---: | :---: |
| 173s | 处 | 䋁 |
| ${ }_{17 \mathrm{rac}}$ | 处底 | 发衣 |
| ${ }_{17350}$ | 交迷 | 㪰 |
| ${ }_{\text {I7F3I }}$ | 效 | 发事 |
| ${ }_{\text {ITF3 }}$ | 栭 | 悀 |
| ${ }^{1784}$ | 效 | 趘 |
|  | 唖 | 婦 |
| ${ }_{\text {27\％} 2}$ | 发 | 㪀 |
| тяз | 发发 | 发炎 |
| ${ }_{17744}$ | 效 | 紋 |
| ${ }^{2744}$ | 发年 | 发宰 |
| ${ }^{17746}$ | 縑 | 絆 |
| ${ }^{\text {，7\％47 }}$ | 效 | 双 |
| （194 | 綬 | 㖟 |
|  | 㥅 | 復 |


|  |  |  |
| :---: | :---: | :---: |
| 17 Fa | 縑 | 縑 |
| ${ }_{\text {ITrat }}$ | 緛 |  |
|  | 紼 |  |
|  | 夋比 | 絧 |
|  | 枨 | 㸱 |
|  | 復 |  |
|  | 处产 |  |
|  | 处亥 |  |
|  | 挍 |  |
|  | 徬 |  |
|  | 边䊽 |  |
|  | 炏 |  |
| \％ssa | 效 |  |
|  | 復 | 復 |
|  | 父秏 | 右 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17759 | 纺式 | 始束 |
| ${ }^{1755 A}$ | 刘㲎 | 则秚 |
| 1775B | 处気 | 处戒 |
| 1775C | 䞖 | 效用 |
| 17750 | 发兹 | 絧 |
| ${ }^{17 \mathrm{FFE}}$ | 復 | 緵 |
| 17F5F | 发事 | 发撣 |
| 17F60 | 处兹 |  |
| ${ }^{17861}$ | 效 | 效交 |
| 17662 | 裓 | 䘬 |
| ${ }^{17663}$ | 攸 | 候人 |
| 17664 | 絔 | 織 |
| 17765 | 谚 | 絾 |
| ${ }^{7766}$ | 微 | 㜦 |
| 17867 | 烈 | 婦 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17F68 | 位 |  |
| 17F69 | 隹㘶 | 多㘶 |
| 17F6A | 哖吘 |  |
| 17F6B |  | 经多 |
| 17F6C |  |  |
| 17F6D |  |  |
| 17F6E |  |  |
| 17F6F |  | 情人 |
| 17 F 70 |  |  |
| 17F71 | 仙華 | 佼華 |
| 17F72 |  |  |
| 17F73 |  |  |
| 17F74 |  |  |
| 17F75 |  |  |
| 17 F 76 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17 F 77 |  |  |
| 17F78 |  |  |
| 17F79 |  |  |
| 17F7A |  |  |
| 17F7B |  |  |
| 17F7C |  |  |
| 17F7D |  |  |
| 17F7E |  |  |
| 17F7F | 方茫 |  |
| 17F80 | 会 |  |
| 17F81 |  |  |
| 17F82 |  |  |
| 17F83 | 分各 |  |
| 17F84 | 攽交 |  |
| 17F85 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17788 | 效 | 䋝 |
| 17789 | 㸚 | 䜌 |
| 17880 | 䋁 | 䋁 |
| 17790 | 坟 | 絞 |
| 17791 | 糽 | 級 |
| 17793 | 刘 | 呚 |
| $17 \mathrm{F94}$ | 爻缃 | 爻人 |
| 17796 | 文市 | 䋁 |
| 17798 | 㸚 | 緛 |
| ${ }^{17799}$ | 㸚 | 㸚 |
| 1779C | 全今 | 䜌 |
| 1779E | 㸚组 | 納 |
| 1779F | 㸚 | 䋌 |
| 17FA1 | 紋 | 紋 |
| ${ }^{\text {fra7 }}$ | 㸚 | 絞 |


| Code Point | ${ }^{13.0}$ | New |
| :---: | :---: | :---: |
| 17FAA | 維 | 維 |
| 177AB | 坟它 | 奸无 |
| 17FAD | 㸚 | 㸚 |
| ${ }^{17 \mathrm{~F}}$ | 㸚 | 絧 |
| 17RAF | 刘交 | 㸚交 |
| 17PB0 | 桜炏 | 务伙 |
| $17 \mathrm{FB1}$ | 玟 | 各效 |
| 17789 | 各扎 | 純 |
| 17FBA | 㸚岸 | 姘 |
| ${ }^{\text {178BB }}$ | 紤 | 紤 |
| ${ }^{1788 E}$ | 綡 | 数 |
| ${ }^{17 \mathrm{FbF}}$ | 拠 | 㚾迅 |
| 17Fco | 效 | 䋁 |
| ${ }^{17 \mathrm{Fc} 2}$ | 䋑 | 紋 |
| 77ecs | 㸚 | 繆 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17FC6 |  |  |
| 17FCA | $\text { x } \bar{x}$ | $x$ |
| 17FCC | 各交 |  |
| 17FCF | 対ヨ | 奸ヨ |
| 17FD0 |  | 必开 |
| 17FD2 | 条華 |  |
| 17FD4 | 各众 | 爻各 |
| 17FD5 |  |  |
| 17FDC |  |  |
| 17FDD |  |  |
| 17FDE | 父枼 |  |
| 17FDF |  | 苾开 |
| 17FE0 | 各开 | 文㘶 |
| 17FE2 | 父芝 | 各芝 |
| 17FE3 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 17FE4 |  |  |
| 17FE7 | 爻音 |  |
| 17FEA |  | 如偪 |
| 17FEE |  |  |
| 17FEF |  |  |
| 17FF0 |  |  |
| 17FF1 |  |  |
| 17FF3 |  |  |
| 17FF4 | 众爫 | x行 |
| 17FF5 |  |  |
| 17FF7 |  |  |
| 17FF8 |  |  |
| 17FF9 |  |  |
| 17FFE |  |  |
| 17FFF | 人 | X |


| Sucpomt | 碞 |  |
| :---: | :---: | :---: |
| ${ }_{1800}$ | 紻 | 4 |
| ${ }_{1801}$ | 䋞 | 紜 |
| ${ }^{18007}$ | 楊 |  |
| ${ }_{1808}$ | 㕮 | 詨 |
|  | 玟 | 設 |
|  | 詨 | 談 |
|  | 訧 | 玟 |
| ${ }^{\text {sa0］}}$ | 詙 |  |
| ${ }^{8011}$ | 誕 | 談 |
| ${ }_{8015}$ | 玟 | 悋 |
| \％oic | 䐂 | 䐂 |
| 㖪 | 绦 | 詻 |
| ， | 設挽 | 詨島 |
|  | 詨市 | 詨告 |
|  | 秕 | 浬 |


| Code Pint | 13.0 | New |
| :---: | :---: | :---: |
| ${ }^{8016}$ | 諾 | 輴 |
| 1820 C | 效 | 效 |
| ${ }^{1802 D}$ | 效 | 效 |
| 1802 F | 郊交 | 效 |
| 1830 | 効 | 校 |
| 18331 | 翣 | 效 |
| 1833 | 效 | 效 |
| 1803 | 㪯 | 效 |
| 18034 | 嫁 | 詨 |
| 18035 | 效交 | 效交 |
| ${ }^{18837}$ | 交 | 校 |
| 18038 | 效 | 交而 |
| 18039 | 效 | 姢 |
| ${ }^{1803 A}$ | 效 | 㛖 |
| ${ }^{1803 B}$ | 效文 | 效 |


| Ameporat | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{1039}$ | 效 | 効 |
| ${ }^{18033}$ | 娭 |  |
| ${ }^{1808}$ | 校 | 效 |
| ${ }_{18051}$ | 效 | 等 |
| ${ }^{18083}$ | 戦 | 羏 |
|  | 欮 | 焍 |
|  | 哖捽 | 敌 |
|  | 嗄 | 跰 |
|  | 気㐱 | 㔙 |
| ${ }^{8077}$ | 欮 | 㕫 |
| －094 | 就 | 划 |
| 8098 | 的 | 顽 |
| 180 | 糇 | 䊉 |
| some | 校 | 楀 |
|  | 頊 |  |


| Suepoit | ， |  |
| :---: | :---: | :---: |
| ${ }_{18006}$ | 效 | 紋 |
|  |  |  |
| ${ }^{180}$ | 㔙 |  |
| ${ }^{1800]}$ | 郱 | 㔙纸 |
| ${ }^{180}$ | 杼 | 新 |
| ${ }_{180}$ | 詨 | 硕 |
| ${ }_{181} 1$ | 教 | 戨 |
|  | 弱 |  |
|  | 效 | 形 |
| ${ }_{1822}$ | 䂭 | 颜 |
|  | 緛 |  |
|  | 効 | 効 |
| ${ }^{1832}$ | 效 | 效 |
|  | 效 | 㸚 |
|  | 䂭 |  |


| deroate | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| 18135 | 效 | 效 |
| ${ }^{1818}$ | 效 |  |
|  | 交劦 |  |
| ${ }_{1813}$ | 效 | 咞 |
| ${ }^{1813}$ | 咜 | 䃄 |
|  | 归㐱 | ， |
|  | 㬵 | 號 |
|  | 妵 | 效 |
|  | 效 | 艮 |
|  | 效 | 姢 |
|  | 顽 | 搞 |
|  | 狡 | 狡 |
|  | 效 | 边 |
|  | 娧 | 娧 |
|  | 兗 | 疎 |


|  |  |  |
| :---: | :---: | :---: |
| 1849 | 延 | 效 |
| ${ }_{1814}{ }^{\text {a }}$ | 忨凩 |  |
|  | 棪 |  |
| ${ }^{1814}$ | 姷 |  |
| ${ }_{1844} 18$ | 玆 |  |
|  | 挽 | 媚 |
|  | 效 | 效 |
|  | 效 |  |
|  | 豩 |  |
|  | 劑 | 㒭 |
|  | 檐 |  |
| ${ }^{10156}$ | 效 |  |
| ${ }^{1857}$ | 涭 | 碞 |
| ${ }^{158}$ | 哮 |  |
|  | 媆 | 7 |


| Surome |  |  |
| :---: | :---: | :---: |
| 18154 | 楥 | 皧 |
| ${ }_{1815}$ | 䂭 | 就 |
|  | 交 |  |
| ${ }^{1815}$ | 效 | 效 |
|  | 教 | 碞 |
|  | 効効 | 极 |
|  | 傩 | 豩 |
|  | 震 | 效 |
|  | 教 |  |
|  | 效 | 动 |
|  | 植 | 碞 |
|  | 梳 | 敄 |
|  | 效 | 㧧 |
|  | 效 | 紻 |
|  | 效 |  |


| 隹poit |  |  |
| :---: | :---: | :---: |
| 18.68 | 啟 | 碞 |
| ${ }_{1870}$ | 窕 | 桭 |
|  | 刘展 |  |
|  | 坆夜 | 效 |
|  | 效 | 效聿 |
|  | 观晋 | 寺 |
|  | 效 | 碞 |
|  | 教箷 | 致蕣 |
|  | 效考 |  |
|  | 硴 |  |
|  | 諼 | 諼年 |
| （197 | 狡曻 |  |
| 机 | 效 | 奴 |
|  | 廷 | 趑 |
|  | 㘧 | 禚 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18183 |  |  |
| 18187 |  |  |
| 18193 | 交交 |  |
| 1819A |  |  |
| 181A4 |  |  |
| 181B5 |  |  |
| 181B7 |  |  |
| 181BD |  |  |
| 181C3 |  |  |
| 181C6 |  |  |
| 181C7 |  |  |
| 181D0 |  |  |
| 181D4 | 市交 | 度 |
| 181E8 | 手六 | 千少 |
| 181E9 | 平䊽 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 181 EC | 䅂 | 稀 |
| ${ }^{181 \mathrm{ED}}$ | 秝 | 秝 |
| ${ }^{1818 E}$ | 秝 | 秝 |
| ${ }^{18154}$ | 敄 | 䂆 |
| ${ }^{18179}$ | 效 | 效 |
| ${ }^{181 F A}$ | 饺 | 絞 |
| ${ }^{181 f B}$ | 㬵 | 級 |
| 181FC | 䊽 | 攵处 |
| ${ }^{181 F D}$ | 饺 | 饺 |
| ${ }^{1817 \mathrm{FE}}$ | 效 | 紋 |
| ${ }^{1817 F}$ | 効文 | 列令 |
| 18200 | 效不 | 玍在 |
| 18201 | 交号 | 㚣号 |
| ${ }^{1820}$ | 效 | 紋 |
| ${ }^{1823}$ | 攺比 | 政 |


| Sepomet |  |  |
| :---: | :---: | :---: |
| 1829 | 宕茊 | 㚴 |
| ${ }_{1823}$ | 㛏 |  |
| ${ }_{1826}$ | 䀤 | 䋨 |
| ${ }_{1828}$ | 㸉 | 辩 |
| ${ }_{18213}$ | 欮 | 豴 |
| ${ }_{18215}$ | 效 | 効 |
| ${ }_{182}$ | 效 | 㬵 |
|  | 效 |  |
|  | 娥 | 取 |
|  | 岈 | 烄 |
| 1922 | 效 | 紓 |
| ${ }^{1822}$ | 攼另 | 碞 |
| ${ }^{182}$ | 㸚 | 䇌 |
|  | 敨 | 㛫 |
|  | 瑈 |  |


| Sateromt | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{1837}$ | 褋 | 絡 |
| ${ }_{1238}$ | 舩 | 戳 |
| ${ }_{1224}$ | 解 |  |
| ${ }_{1224}$ | 炏 | 赂 |
| 1895 | 倹 | 珍 |
| ${ }^{1826}$ | 积 | 缡 |
| ${ }^{1826}$ | 絡 | 絡 |
| ${ }_{18275}$ | 佼 | 瑶 |
|  | 後 | 佼 |
| ${ }_{1283}$ | 住 | 俛 |
| ${ }^{1828}$ | 徦 | 敎 |
| ${ }^{18384}$ | 薩 | 双｜ |
| ${ }^{1828}$ | 交 |  |
|  | 绞 | 妨 |
|  | 紬 | 䋗 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18292 | 炎文 | 炎文 |
| 18293 | 条긱 | 文亏 |
| 18294 | 炎と | 齐学 |
| 18295 | 各专 | 条青 |
| 18296 |  |  |
| 18297 |  |  |
| 18298 |  |  |
| 18299 |  |  |
| 1829A | 务学 |  |
| 1829B | 条 |  |
| 1829C | 条亏 | 条 |
| 1829D |  | 条予 |
| 1829E |  | 各关 |
| 1829F | 父名 |  |
| 182A0 | 交型 | 少学 |


| Sepomet | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{182} 1$ | 媿 | 孫 |
| ${ }_{122}$ | 紋 |  |
|  | 郊 |  |
| ${ }_{1224}$ | 㬵 | 胶 |
| ${ }_{122 \mathrm{~A}}$ | 饺 | 饺 |
|  | 狡 | 教 |
|  | 哦 | 效 |
|  | 校 | 效 |
|  | 效 | 效 |
| ${ }_{1888}$ | 庭 | 硯 |
| 1821 | 觡 | 㴰 |
| ${ }^{1823}$ | 㑷 | 效 |
| \％ | 皎 | 道 |
|  | 効 | 促 |
|  | 效 |  |


| Seporit | ${ }^{130}$ |  |
| :---: | :---: | :---: |
| ${ }_{182}{ }^{\text {are }}$ | 赅 | 赅 |
| ${ }_{1832}$ | 弱 | 勏 |
| ${ }^{1820}$ | 雄 |  |
| ${ }_{1827}$ | 㔙 | 㔙 |
|  | 撇 | 撇 |
|  | 䊸 | 䊽 |
| ${ }_{182}$ | 効 | 玄市 |
|  | 㚇处 |  |
| ${ }_{1388}$ | 效 | 效 |
| ${ }^{1827]}$ | 窕 | 縕 |
| ${ }^{1328]}$ | 8 | 䋁 |
| ${ }^{1827 C}$ | 疑 | 㒸答 |
| 180 | 效 | 碞 |
| ， | 效 | 奴 |
|  | 斑 | 顽 |


| Code Point | ${ }^{13.0}$ | Nev |
| :---: | :---: | :---: |
| ${ }^{18270}$ | 谖化 | 瑗 |
| ${ }^{18271}$ | 䊽方 | 喛号 |
| 18272 | 窕 |  |
| 18273 | 欮开 | 碞 |
| 18274 | 玆 | 䋁 |
| 18275 | 緉 | 緖 |
| 18276 | 旡 | 㒸危 |
| 18877 | 桜 | 欮受 |
| 18278 | 級 | 䋝姷 |
| 18879 | 欮彞 | 欮䊉 |
| 1827E | 䄱 | 侕 |
| 18301 | 號 | 梂 |
| ${ }^{1830}{ }^{\text {a }}$ | 敏 | 敞 |
| 18311 | 族 | 墽 |
| 18314 | 烗 | 墽 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18324 |  |  |
| 18333 |  |  |
| 18337 |  |  |
| 18365 | 回务 |  |
| 1836D |  | 文 |
| 1836E |  |  |
| 1837A |  |  |
| 1837E |  |  |
| 18393 | 要交 | 多交 |
| 18395 |  |  |
| 18398 | 开文 |  |
| 1839B |  |  |
| 183A1 |  |  |
| 183B5 |  |  |
| 183CA |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 183D1 |  |  |
| 183D2 |  |  |
| 183E8 |  |  |
| 183EF |  |  |
| 183FC |  |  |
| 18400 |  |  |
| 18405 | 父驳 | 令紒 |
| 18419 |  | 学全人 |
| 1841E |  | 栄务 |
| 1841F | 分众 | 桜齐 |
| 18421 | 乡単文 |  |
| 18422 |  |  |
| 18427 |  |  |
| 1842C |  |  |
| 18431 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18437 | 举 | 兰哃 |
| 18442 |  |  |
| 18444 | 兴交久 | 乡号㸚 |
| 18446 |  |  |
| 18448 |  |  |
| 1845B | $\frac{\text { 了 }}{\text { 又 }}$ | 云 |
| 1845C | 文 | $\frac{3}{4} L$ |
| 1845D | $\frac{3}{3} \bar{L}$ |  |
| 1845E |  | 专人 |
| 1845F |  |  |
| 18460 | ユヨ | 弓立 |
| 18461 |  | 弓云 |
| 18462 |  | 之立井 |
| 18463 | 三表 |  |
| 18464 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18466 | $\text { } 183$ | 多 |
| 1846F |  |  |
| 18479 |  |  |
| 18482 |  |  |
| 18491 |  |  |
| 184A8 |  |  |
| 184AA |  |  |
| 184B0 |  |  |
| 184B3 |  |  |
| 184B4 |  |  |
| 184B6 |  |  |
| 184C4 |  |  |
| 184CB |  |  |
| 184CE |  |  |
| 184D3 | 任交 | 任窂 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 184DA |  |  |
| 184DB | 任齐 |  |
| 184E0 |  | 牦紒 |
| 184E7 |  |  |
| 184E9 | 云広 | 言広 |
| 184EA |  |  |
| 184EB |  |  |
| 1850B | 父々 |  |
| 1850C | $\begin{aligned} & \text { 爻冊 } \\ & \text { 俭 } \end{aligned}$ | $\begin{gathered} \text { 杀冊 } \\ \text { 相 } \end{gathered}$ |
| 1850D | 条至 |  |
| 1850E | 爷局民 |  |
| 1850F | 爸 | 交 |
| 18510 | $\overline{4} \bar{k}$ | 各 |
| 18511 | 交父 | 交分 |
| 18512 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18513 | $\bar{x} k$ | 交人 |
| 18514 |  | 爸 |
| 18515 | 交开 | 爸分 |
| 18516 | 交交/ | 交多 |
| 18517 | 交父 |  |
| 18518 |  |  |
| 18519 |  |  |
| 1851A | 交齐 | 交齐 |
| 1851B | 六父 |  |
| 1851C | 父仙 |  |
| 1851D | 文夎 | 交坐 |
| 1851E |  |  |
| 1851F |  |  |
| 18520 |  |  |
| 18521 | 妾众 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18522 | 剂炎 | 齐 |
| 18523 | 爷尼 | 乎尼 |
| 18524 | 槅 | $\begin{aligned} & \text { 列久 } \\ & \hline \end{aligned}$ |
| 18525 | 高忩 | 高夏 |
| 18530 | 㐱乡 | 多々 |
| 18531 | 㐱办 | 㐱沛 |
| 18532 | 㐱高 | 㐱亏 |
| 18533 | 㐱父 | 爸父 |
| 18534 | 㐱炎 | 㐱炎 |
| 18535 | 爸光 | 爸光 |
| 18536 | 爸尼 | 㐱反 |
| 18537 | $\begin{aligned} & \text { 爸元 } \end{aligned}$ | 㐱元 |
| 18538 | 糽代 | 纸紙 |
| 18539 | 納 | 後仅 |
| 1853A | 爻炎 | 条处 |


| Sodepont | ${ }^{13.0}$ |  |
| :---: | :---: | :---: |
| ${ }_{\text {arssb }}$ | 綏 | 嗳 |
| ${ }^{1285 C}$ | 納 | 䋛 |
| ${ }^{18383}$ | 玅 | 細 |
| ${ }_{\text {1854 }}$ | 发酺 | 发都 |
| ${ }^{1654}$ | 庭 | 洨 |
|  | 蓣 | 鹃 |
|  | 帾 | 涉 |
| ${ }_{1852}$ | 教 | 敞 |
|  | 颋 | 频 |
| ${ }_{\text {1365E }}$ | 永 | 朔令 |
| ${ }_{18566}$ | 䃯 | 䋃 |
| ${ }_{1888} 1$ | 浉 |  |
| ${ }_{\text {1854 }}$ | 兹 | 効 |
|  | 絞 |  |
|  | 学 | 学 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 1858D | 号分 |  |
| 1858E | $\frac{\mathfrak{y}}{\frac{1}{x}} \frac{1}{x}$ | 妾立 |
| 1858F | 兊六保 | 牟多 |
| 18590 | 学友 |  |
| 18591 | 牟多 | 忩忩 |
| 18592 | 号多 |  |
| 18593 | 多和 | 号和年 |
| 18594 | 号开 | 六开 |
| 18595 |  |  |
| 18596 | 牟开 | 号开 |
| 18597 |  |  |
| 18598 | 牟要 |  |
| 1859A | 毟仆 | 毟少 |
| 185AB |  | 变 |
| 185B3 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 185B9 |  |  |
| 185BD |  |  |
| 185BE |  |  |
| 185CA | 产公兴 |  |
| 185CF |  |  |
| 185D8 |  |  |
| 185DA |  |  |
| 185DB |  |  |
| 185E3 |  |  |
| 185F2 |  | 岁 $巨$ |
| 185F4 |  |  |
| 185F5 | 交㐎 | 文齐 |
| 185F6 |  |  |
| 185F7 |  | 㑷人 |
| 185F9 | 寻众 |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 185FE |  |  |
| 1860B | EX |  |
| 1860D |  |  |
| 1861D |  | $\begin{aligned} & 7 \\ & \prod \end{aligned}$ |
| 18620 |  |  |
| 18621 |  | $\frac{\text { 豆 }}{7}$ |
| 1862C |  |  |
| 18630 | 要六 |  |
| 1863F | 恶如 | 恶仙 |
| 18640 | 要六 |  |
| 18650 | 恶人 | 恶人 |
| 18651 | 要各 | 至条 |
| 18652 |  |  |
| 18653 | 要文 | 严交し |
| 18657 | 要务 | 正艺 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18658 |  |  |
| 1865A |  | 考文 |
| 1865F | 要人要 |  |
| 18660 | 要人 |  |
| 18663 |  |  |
| 18664 | 吾齐 | 要妾 |
| 18667 |  |  |
| 1866F | 氐卒 |  |
| 18671 |  |  |
| 18675 |  |  |
| 1867C |  |  |
| 1867D | $\frac{\pi}{x} k$ | 云 |
| 18681 |  |  |
| 18682 | $\overbrace{7}^{\text {开 }}$ |  |
| 18686 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18687 | $\begin{aligned} & \text { 开亏 } \\ & \text { 文 } \end{aligned}$ | $\begin{aligned} & \text { 开亏 } \\ & 4 \bar{\prod} \end{aligned}$ |
| 18688 |  |  |
| 18689 | 开学 | 开学 |
| 1868A | 开学多 |  |
| 1868B |  | 玄人 |
| 18695 |  |  |
| 18697 |  |  |
| 1869B |  |  |
| 1869D |  |  |
| 1869E |  |  |
| 186A1 | 言各 |  |
| 186A8 | 爸久 | 㚆久 |
| 186AE |  |  |
| 186B0 |  |  |
| 186B4 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 186B7 |  |  |
| 186CC |  |  |
| 186CD | $\frac{v}{\frac{v}{k}}$ | $\frac{v>}{\bar{k}}$ |
| 186CE | 产雨 | 交寿右 |
| 186CF | 㚆乡 |  |
| 186DB | 交文 | $\frac{v}{x}<$ |
| 186E1 | 伭反 |  |
| 186E4 | $\frac{V_{1}}{\neq 1}$ | $\frac{y_{1}}{\text { 号亏 }}$ |
| 186E5 | $\frac{V}{1}$ | $\frac{V_{1}}{A} \bar{K}$ |
| 186E6 |  |  |
| 186E8 | 㗊 | 学市 |
| 186F8 |  |  |
| 18701 | $\begin{aligned} & \text { Э } \\ & \text { 手 } \end{aligned}$ | 三 |
| 18703 |  |  |
| 18704 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18705 |  |  |
| 18706 |  | 晋形 |
| 1870A |  |  |
| 1870B |  |  |
| 1870C |  |  |
| 1870E | $\begin{aligned} & \text { 〒Z } \\ & \text { 冬 } \end{aligned}$ | 忞冗 |
| 1870F | そ齐音 | 齐豙 |
| 18710 | 恶说分 | 采学々 |
| 1871A |  |  |
| 1871C |  |  |
| 18729 | $\frac{\#}{4} E$ | $\frac{\bar{H}}{4} E$ |
| 18743 |  |  |
| 1874B |  |  |
| 1875B | 尘人 | 学 |
| 1875C | 业仙 | 尘仙 |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 18760 |  |  |
| 18772 |  |  |
| 1877D |  |  |
| 1877E |  |  |
| 1877F |  | 㐎亏 |
| 18780 | 㚆少 | 㚆学 |
| 18781 |  | 㐎夋 |
| 18782 | 吾众 | 吾分 |
| 18783 |  |  |
| 18784 | 严犮 |  |
| 18785 | 共马 | 恶コ |
| 1878F |  |  |
| 187A6 |  |  |
| 187B7 |  | 爸文 |
| 187C3 |  |  |


| Code Point | 13.0 | New |
| :---: | :---: | :---: |
| 187C4 | 开人 |  |
| 187C9 |  |  |
| 187CF |  |  |
| 187D6 | 云交乡 | 云交乡 |
| 187D7 |  |  |
| 187D8 |  |  |
| 187E0 |  |  |
| 187E1 |  |  |
| 187E2 |  |  |
| 187E5 |  |  |
| 187E6 |  |  |

