

Title: CJK & Unihan Working Group Recommendations for UTC #181 Meeting

Author: Ken Lunde

Date: 2024-10-30

This document provides the CJK & Unihan Working Group recommendations for the UTC #181 meeting, based on a meeting that took place on 2024-10-12 from 6 to 7:30PM PDT, which was attended by Yi Bai, Eiso Chan, Peter Constable, Ken Lunde, William Nelson, CheonHyeong Sim, Harald Tveiten, and Xieyang Wang via [Zoom](#). The Chair of the [CJK & Unihan Working Group](#), Ken Lunde, chaired the meeting.

The CJK & Unihan Working Group reviewed public feedback and documents that were received since the UTC #180 meeting took place. Comments are marked in **green**, and Recommendations to the UTC are marked in **red**. A “plain text” Copy&Paste-ready version of the Recommendations is also provided as the PDF attachment named *recommendations-20241012.txt*.

PRI #508 Feedback

The eight items of [PRI #508](#) (*Proposed Update UAX #38*) feedback that are in this section were reviewed and discussed by the WG, and for convenience, the following data files, which are PDF attachments, include the recommended Unihan database additions and changes based on them:

- *Unihan-additions-20241012.txt*
- *Unihan-changes-20241012.txt*
- *Unihan_IRGSources-changes-20241012.txt*

The recommended Unihan database additions and changes are also shown inline, following the **Recommendations**.

01) ID20240922052148 & ID20240923225059

Date/Time: Sun Sep 22 05:21:48 CDT 2024

ReportID: ID20240922052148

Name: KWAN Ching Kit

Report Type: Public Review Issue

Opt Subject: **508**

The kCantonese property value of 貌 is currently mauu6, which is likely due to confusion with 貌. It should be corrected to ngai4, aligning with the pronunciation of its variant 貌. The kMandarin property value ní and the kFanqie 五稽 also justify this.

Date/Time: Mon Sep 23 22:50:59 CDT 2024

ReportID: ID20240923225059

Name: KWAN Ching Kit

Report Type: Public Review Issue

Opt Subject: **508**

The kCantonese property value of 拼 should be modified from ping1 to ping3 to reflect modern usage, e.g. 粵拼 jyut6 ping3.

Comments: The WG reviewed and discussed these two related feedback items, and agreed that no action should be taken at this time. The reason is because Professor Hou Xingquan (侯兴泉) of Jinan University in Guangzhou, China, which is close to Macao SAR and Hong Kong SAR, has volunteered to assemble a team of experts to review and expand the current *kCantonese* property values. In order for that work to be stable, we should make no further changes to this provisional Unihan database property. The current (Unicode Version 16.0) property values were provided to Professor Hou, along with these two feedback items for consideration.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 01 of document L2/24-227. See PRI #508 feedback [ID20240922052148] and [ID20240923225059].

02) ID20240923035256

Date/Time: Mon Sep 23 03:52:56 CDT 2024

ReportID: ID20240923035256

Name: Shieru Asakoto

Report Type: Public Review Issue

Opt Subject: **508**

Propose to add a secondary kRSUnicode value "61.6" to U+2BB7B 𡗗

Currently U+2BB7B 𡗗 only has a single kRSUnicode value "32.7".

Originally the V-source of the character, V4-445A, was submitted as 𡗗土忌, hence the 土 radical and the current kRSUnicode value "32.7"; however in WS2017 another similar characters WS2017-01282(V-F1DCA) & WS2017-01283 GDM-00068) 𡗗 𡗗心 with proposed kRSUnicode value "61.6" were submitted, and IRG decided that the original source V4-445A did not match the evidence and the WS2017 glyphs should be the current ones, hence these submissions were unified to U+2BB7B and the V-source font of V4-445A was modified to 𡗗 𡗗心.

The structure of the character U+2BB7B has been changed to have 𡗗 𡗗心 where 土 is no longer as apparent as 心 for radical, and although not yet horizontally extended by China, the WS2017 submissions shows 心 radical for 𡗗 𡗗心. Furthermore in the WS2017 submissions, although the evidence shows ji4, implying 𡗗土忌, as its Mandarin reading, an alternative reading pi3, implying 𡗗 𡗗心, is also given. As a result, I suggest adding a secondary kRSUnicode value "61.6" to U+2BB7B 𡗗 to reflect the above unification and modification.

Thanks.

Comments: The WG reviewed and discussed this feedback, and agreed that “61.1” would be an appropriate addition to the *kRSUnicode* property value of U+2BB7B 愬.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to add “61.6” to the informative *kRSUnicode* property value of U+2BB7B, based on PRI #508 feedback [ID20240923035256] and Section 02 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Add “61.6” to the *kRSUnicode* property value of U+2BB7B in ISO/IEC 10646’s CJKSrc.txt data file, based on PRI #508 feedback [ID20240923035256] and Section 02 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated Unihan17.txt data file to update the Unihan database, based on PRI #508 feedback [ID20240923035256] and Section 02 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 02 of document L2/24-227. See PRI #508 feedback [ID20240923035256].

Current:

U+2BB7B *kRSUnicode* 32.7

Adjusted:

U+2BB7B *kRSUnicode* 32.7 **61.6**

03) ID20240928135436

Date/Time: Sat Sep 28 13:54:36 CDT 2024

ReportID: ID20240928135436

Name: Ken Lunde

Report Type: Public Review Issue

Opt Subject: **508**

For consistency, when the 𠄎 component appears in an ideograph, Radical #140 should be its primary or secondary radical, in terms of its *kRSUnicode* property value. The following adjustments should be made to accommodate this policy:

1) The following ideographs already have two *kRSUnicode* property values, but because the IRG counts 𠄎 as six strokes, the 5 in the second property value should be changed to 6:

U+8314 莖 *kRSUnicode* 140.5 32.5 → 140.5 32.6

U+8365 菘 *kRSUnicode* 140.6 85.5 → 140.6 85.6

U+8366 葦 *kRSUnicode* 140.6 93.5 → 140.6 93.6

U+8367 莢 *kRSUnicode* 140.6 86.5 → 140.6 86.6

U+83B9 莖 *kRSUnicode* 140.7 96.5 → 140.7 96.6

U+8426 藜 *kRSUnicode* 140.8 120.5 → 140.8 120.6

Their *kTotalStrokes* property values should also be adjusted as follows:

U+8314 kTotalStrokes 8 → 9
U+8365 kTotalStrokes 9 → 10
U+8366 kTotalStrokes 9 → 10
U+8367 kTotalStrokes 9 → 10
U+83B9 kTotalStrokes 10 → 11
U+8426 kTotalStrokes 11 → 12

2) The following ideographs should have a second kRSUnicode property value (corrections to existing property values are shown in parentheses):

U+52B3 劳 kRSUnicode 19.5 + 140.4 (change 19.5 to 19.6)
U+83BA 鸞 kRSUnicode 140.7 + 196'.6
U+8424 螢 kRSUnicode 140.8 + 142.6
U+848F 薈 kRSUnicode 140.9 + 164.6
U+84E5 莖 kRSUnicode 140.10 + 167.6
U+44BF 苜 kRSUnicode 140.6 + 130.6
U+44E8 莖 kRSUnicode 140.8 + 121.6
U+26B2E 芫 kRSUnicode 140.4 + 10.6
U+26B6C 芾 kRSUnicode 140.5 + 50.6
U+26B9C 葦 kRSUnicode 140.6 + 68.6
U+26F89 蕙 kRSUnicode 140.13 + 196.6
U+30300 菱 kRSUnicode 38.6 + 140.5
U+3095E 菅 kRSUnicode 109.6 + 140.7
U+309B7 若 kRSUnicode 112.6 + 140.7
U+30C21 苙 kRSUnicode 140.3 + 1.6
U+30D2F 菅 kRSUnicode 149.6 + 140.9
U+32056 苙 kRSUnicode 147'.6 + 140.6

3) The following are missing kTraditionalVariant/kSimplifiedVariant relationships in the Unihan database:

U+848F 薈 & U+919F 薈
U+44BF 苜 & U+818B 苜
U+26B6C 芾 & U+2210B 芾
U+26B9C 葦 & U+23088 葦
U+26F16 蕙 & U+258FB 蕙
U+30C21 苙 & U+8499 蒙
U+32056 苙 & U+89AE 薈

That is all.

Comments: The WG reviewed and discussed this feedback, and agreed that the proposed *kRSUnicode* and *kTotalStrokes* property value changes are appropriate, and that the proposed *kSimplifiedVariant* and *kTraditionalVariant* property values are also appropriate, and should therefore be added to the Unihan database.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to change informative kRSUnicode and kTotalStrokes property values, based on PRI #508 feedback [ID20240928135436] and Section 03 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Change the kRSUnicode and kTotalStrokes property values in ISO/IEC 10646's CJKSrc.txt data file, based on PRI #508 feedback [ID20240928135436] and Section 03 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated Unihan17.txt data file to update the Unihan database, based on PRI #508 feedback [ID20240928135436] and Section 03 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the Unihan database to add the kSimplifiedVariant and kTraditionalVariant property values, based on PRI #508 feedback [ID20240928135436] and Section 03 of document L2/24-227, for Unicode Version 17.0.

Current:

U+44BF	kRSUnicode	140.6
U+44E8	kRSUnicode	140.8
U+52B3	kRSUnicode	19.5
U+8314	kRSUnicode	140.5 32.5
U+8314	kTotalStrokes	8
U+8365	kRSUnicode	140.6 85.5
U+8365	kTotalStrokes	9
U+8366	kRSUnicode	140.6 93.5
U+8366	kTotalStrokes	9
U+8367	kRSUnicode	140.6 86.5
U+8367	kTotalStrokes	9
U+83B9	kRSUnicode	140.7 96.5
U+83B9	kTotalStrokes	10
U+83BA	kRSUnicode	140.7
U+8424	kRSUnicode	140.8
U+8426	kRSUnicode	140.8 120.5
U+8426	kTotalStrokes	11
U+848F	kRSUnicode	140.9
U+84E5	kRSUnicode	140.10
U+26B2E	kRSUnicode	140.4
U+26B6C	kRSUnicode	140.5
U+26B9C	kRSUnicode	140.6
U+26F89	kRSUnicode	140.13
U+30300	kRSUnicode	38.6
U+3095E	kRSUnicode	109.6
U+309B7	kRSUnicode	112.6
U+30C21	kRSUnicode	140.3
U+30D2F	kRSUnicode	149.6
U+32056	kRSUnicode	147'.6

Adjusted:

U+44BF	kRSUnicode	140.6 130.6
U+44E8	kRSUnicode	140.8 121.6
U+52B3	kRSUnicode	19.6 140.4
U+8314	kRSUnicode	140.5 32.6

U+8314	kTotalStrokes	9
U+8365	kRSUnicode	140.6 85.6
U+8365	kTotalStrokes	10
U+8366	kRSUnicode	140.6 93.6
U+8366	kTotalStrokes	10
U+8367	kRSUnicode	140.6 86.6
U+8367	kTotalStrokes	10
U+83B9	kRSUnicode	140.7 96.6
U+83B9	kTotalStrokes	11
U+83BA	kRSUnicode	140.7 196'.6
U+8424	kRSUnicode	140.8 142.6
U+8426	kRSUnicode	140.8 120.6
U+8426	kTotalStrokes	12
U+848F	kRSUnicode	140.9 164.6
U+84E5	kRSUnicode	140.10 167.6
U+26B2E	kRSUnicode	140.4 10.6
U+26B6C	kRSUnicode	140.5 50.6
U+26B9C	kRSUnicode	140.6 68.6
U+26F89	kRSUnicode	140.13 196.6
U+30300	kRSUnicode	38.6 140.5
U+3095E	kRSUnicode	109.6 140.7
U+309B7	kRSUnicode	112.6 140.7
U+30C21	kRSUnicode	140.3 1.6
U+30D2F	kRSUnicode	149.6 140.9
U+32056	kRSUnicode	147'.6 140.6

New:

U+44BF	kTraditionalVariant	U+818B
U+818B	kSimplifiedVariant	U+44BF
U+848F	kTraditionalVariant	U+919F
U+8499	kSimplifiedVariant	U+30C21
U+89AE	kSimplifiedVariant	U+32056
U+919F	kSimplifiedVariant	U+848F
U+2210B	kSimplifiedVariant	U+26B6C
U+23088	kSimplifiedVariant	U+26B9C
U+258FB	kSimplifiedVariant	U+26F16
U+26B6C	kTraditionalVariant	U+2210B
U+26B9C	kTraditionalVariant	U+23088
U+26F16	kTraditionalVariant	U+258FB
U+30C21	kTraditionalVariant	U+8499
U+32056	kTraditionalVariant	U+89AE

04) ID20241015223221

Date/Time: Tue Oct 15 22:32:21 CDT 2024

ReportID: ID20241015223221

Name: Judith Chen

Report Type: Public Review Issue

Opt Subject: 508

Currently, U+34A8 儻 and U+20457 儻 have the same G-source representative glyph. What is more, there seems to be a mismatch between the kHanYu and kIRGHanyuDaZidian properties of these two characters:

- U+34A8 儻

- kHanYu: 10239.060
- kIRGHanyuDaZidian: 10239.050
- U+20457 僂
 - kHanYu: 10239.050
 - kIRGHanyuDaZidian: 10239.060

I have checked p. 239 of 《汉语大字典》 (1st ed.), and the 6th character exactly matches the G-source glyph. However, the 5th character is more similar to the other glyphs of U+34A8 僂, with its upper right part identical to the J-source glyph and its lower right part identical to the T-source glyph.

Besides, since the kIRG_GSource property of U+34A8 僂 is G5-3329, I have also checked GB 7590-87, the simplified counterpart of GB5, and the character placed at 19-09 (0x3329) is not the same as the G-source glyph. The current G-source glyph has a lower right part of 巳, while the GB4 glyph has a lower right part of 巳.

Therefore, the solution seems to be modifying the G-source glyph of U+34A8 僂 to match the 5th character on p. 239 of 《汉语大字典》 (1st ed.), changing the kIRG_GSource property of U+34A8 僂 into GHZ-10239.05, and altering the kHanyu properties of U+34A8 僂 and U+20457 僂.

To summarise, this feedback suggests a glyph change to the G-source of U+34A8 僂, plus the following changes to the Unihan database:

- U+34A8 僂
 - kIRG_GSource: G5-3329 -> GHZ-10239.05
 - kHanYu: 10239.060 -> 10239.050
- U+20457 僂
 - kHanYu: 10239.050 -> 10239.060

That is all.

Comments: The WG reviewed and discussed this feedback, and while they agreed that a representative glyph change appears to be in order for U+34A8, China responded to this feedback by indicating that the G-source representative glyph of U+34A8 (shown below) follows their conventions, and should not be changed. Therefore, the only recommended action is to update the *kHanYu* property values of U+34A8 and U+20457 per the feedback.

34A8

人 9.19

G5-3329

T7-574C

JMJ-000131

20457

人 9.19

GKX-0121.39

T4-662F

JMJ-056959

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Ken Lunde, CJK: Update the UniHan database to change the kHanYu property values of U+34A8 and U+20457, based on PRI #508 feedback [ID20241015223221] and Section 04 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & UniHan Working Group comments in Section 04 of document L2/24-227. See PRI #508 feedback [ID20241015223221].

Current:

U+34A8	kHanYu	10239.060
U+20457	kHanYu	10239.050

Adjusted:

U+34A8	kHanYu	10239.050
U+20457	kHanYu	10239.060

05) ID20241015224536

Date/Time: Tue Oct 15 22:45:36 CDT 2024

ReportID: ID20241015224536

Name: Judith Chen

Report Type: Public Review Issue

Opt Subject: 508

The G-source representative glyph of U+20057 𠄎 seems to be erroneous.

The kIRG_GSource property of this character is GHZ-10027.03. However, the 3rd character on p. 27 of 《汉语大字典》 (1st ed.) has a glyph which is identical to the T- and J-source glyphs of U+20057 𠄎.

Therefore, I request a change to the G-source glyph of U+20057 𠄎 to match with its other representative glyphs.

That is all.

Comments: The WG reviewed and discussed this feedback, and agreed that the representative glyph for U+20057 𠄎 should be changed per this feedback. This feedback was forwarded to China, and they agreed that the representative glyph should be changed per this feedback. China already provided to WG 2 a TrueType font with an updated representative glyph. Below is the Unicode Version 16.0 code chart excerpt for this ideograph:

20057	𠄎	𠄎	𠄎
— 1.15	GHZ-10027.03	T4-4F7C	JMJ-030351

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to change the G-source representative glyph for U+20057, based on PRI #508 feedback [ID20241015224536] and Section 05 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Apply the G-source representative glyph change for U+20057 to the code charts for the CJK Unified Ideographs Extension B block with an updated TrueType font provided by China, based on PRI #508 feedback [ID20241015224536] and Section 05 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 05 of document L2/24-227. See PRI #508 feedback [ID20241015224536].

06) ID20241016031210

Date/Time: Wed Oct 16 03:12:10 CDT 2024

ReportID: ID20241016031210

Name: Judith Chen

Report Type: Public Review Issue

Opt Subject: 508

The current T-source glyph of U+277B0 襪 is different from all its other representative glyphs, and is identical with all the representative glyphs of U+2D7CD 憾.

Considering that the radical of U+277B0 襪 is 145 衣, I suggest either changing the T-source glyph of U+277B0 襪 to take the radical 衤, or move the T-source glyph to U+2D7CD 憾.

That is all.

Comments: The WG reviewed and discussed this feedback, and agreed that the T-source representative glyph of U+277B0 襪 is incorrect, and that the [CNS 11643 website](#) also indicates that its radical should be 145 with an IDS that includes Radical #145 as its first component. This was determined to be a regression in CNS 11643-2007, because the representative glyph in CNS 11643-1992 is correct. TCA agreed to correct the T-source representative glyph of this ideograph. Below are the Unicode Version 16.0 code chart excerpts for U+277B0 襪 and U+2D7CD 憾:

277B0
衣 145.15

襪

GKX-1126.55

憾

T4-6737

襪

JMJ-048481

2D7CD

心 61.15

憾

KC-05101

憾

SAT-80270

The T-source representative glyph in the Extension B code charts is unchanged from Version 6.0 (2010) through Version 16.0 (2024). The Extension B code chart excerpt below is from Unicode Version 5.2 (2009), which shows the correct representative glyph:

277B0

衣 145.15

襖

KX1126.55

襖

T4-6737

Due to the nature of this representative glyph error, the WG further recommends that a glyph erratum be issued.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to correct the T-source representative glyph for U+277B0, based on PRI #508 feedback [ID20241016031210] and Section 06 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Apply the T-source representative glyph correction for U+277B0 to the code charts for the CJK Unified Ideographs Extension B block, with an updated TrueType font provided by TCA, based on PRI #508 feedback [ID20241016031210] and Section 06 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michelle Perham, SEW: Draft and post an erratum notice about the correction of the representative glyph for U+277B0, based on PRI #508 feedback [ID20241016031210] and Section 06 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 06 of document L2/24-227. See PRI #508 feedback [ID20241016031210].

07) ID20241016034011

Date/Time: Wed Oct 16 03:40:11 CDT 2024

ReportID: ID20241016034011

Name: Judith Chen

Report Type: Public Review Issue

Opt Subject: 508

The kIRG_GSource property of U+5829 塏 is GE-346D. However, in GB/T 16500-1998, the character placed at 20-77 (0x346D) has the same glyph as U+21377 塏.

Therefore, I suggest that the kIRG_GSource property of U+5829 塤 be changed to GKX-0233.26.

That is all.

Comments: The WG reviewed and discussed this feedback, and while they agreed that the G-source representative glyph of U+5829 塤 does not match the representative glyph in its source, China responded to this feedback by stating that they do not want to take any action at this time. Below are the Unicode Version 16.0 code chart excerpts for U+5829 塤 and U+21377 塤:

5829
 土 32.9
 塤 塤 塤 塤 塤 塤
 GE-346D HB2-D87D T2-3A61 JMJ-009160 K2-2A57 KP1-3BE0

21377
 土 32.9
 塤 塤
 GHZ-10467.04 T4-3673

Below is an excerpt from the GB/T 16500-1998 standard that shows Row 20 with the representative glyph for the ideograph at Row-Cell 20-77 highlighted:

20区	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
01~19	導	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙	嚙
20~39	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁	囁
40~59	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉
60~79	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉	圉
80~94	城	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤	塤

Recommendations: The WG recommends to the UTC the following disposition =>

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 07 of document L2/24-227. See PRI #508 feedback [ID20241016034011].

Public Feedback

The nine items of public feedback from document L2/24-223 that are in this section were reviewed and discussed by the WG, and for convenience, the following data files, which are

PDF attachments, include the recommended Unihan database additions, changes, and removals based on them:

- *Unihan-additions-20241012.txt*
- *Unihan-changes-20241012.txt*
- *Unihan-removals-20241012.txt*
- *Unihan_IRGSources-changes-20241012.txt*

The recommended Unihan database additions, changes, and removals are also shown inline, following the **Recommendations**.

08) ID20240707180108, ID20240707214435 & ID20240708191405

Date/Time: Sun Jul 07 18:01:08 CDT 2024

ReportID: ID20240707180108

Name: Paul Masson

Report Type: Error Report

Opt Subject: **Variants for U+6784 构**

This character is listed as its own simplified and traditional variant. That is just simply wrong.

Date/Time: Sun Jul 07 21:44:35 CDT 2024

ReportID: ID20240707214435

Name: Paul Masson

Report Type: Error Report

Opt Subject: **Variants for U+5978 奸**

This character is listed as its own simplified and traditional variant. That is just simply wrong.

Date/Time: Mon Jul 08 19:14:05 CDT 2024

ReportID: ID20240708191405

Name: Paul Masson

Report Type: Error Report

Opt Subject: **Variants for U+575B 坛**

This character is listed as its own simplified and traditional variant. That is just simply wrong.

Comments: The WG reviewed and discussed these three near-identical feedback items, along with the more in-depth discussion in “Unihan Database” [Issue #408](#) (GitHub), and concluded that more discussion, particularly with past and present stakeholders of the provisional *kSimplifiedVariant* and *kTraditionalVariant* properties, is necessary before any action should be taken.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Ken Lunde, CJK: Discuss with the stakeholders of the *kSimplifiedVariant* and *kTraditionalVariant* properties the issues pointed out in feedback [ID20240707180108],

[ID20240707214435], and [ID20240708191405] in document L2/24-223, as recommended in Section 08 of document L2/24-227.

09) ID20240808231455

Date/Time: Thu Aug 08 23:14:55 CDT 2024

ReportID: ID20240808231455

Name: Eduardo Marín Silva

Report Type: Public Review Issue

Opt Subject: **On the addition of an extra kStrange entry**

Character U+3106C has an entry on the kStrange Unihan property but only for being "Stroke Heavy" when the fact that it's top and bottom rows do not stretch to fill the character cell, makes it my opinion, also a good candidate for the "Unusual Arrangement or Structure" category.

Comments: The WG reviewed and discussed this feedback, and concluded that the proposed addition to the *kStrange* property value of U+3106C 𪛗 is not necessary.

Recommendations: The WG recommends to the UTC the following disposition ⇨

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 09 of document L2/24-227. See feedback [ID20240808231455] in document L2/24-223.

10) ID20240810135155

Date/Time: Sat Aug 10 13:51:55 CDT 2024

ReportID: ID20240810135155

Name: M

Report Type: FAQ Suggestion

Opt Subject: **Unihan Database Properties (kGB7)**

I wonder why only 42 characters have the property kGB7

Comments: The WG reviewed and discussed this feedback, and noted that this provisional property has not changed since its introduction, which was prior to Unicode Version 2.0 (1996), and has always covered the same 42 ideographs. See [UTN #45 \(Unihan Property History\)](#). Furthermore, the “G7” source prefix of the normative *kIRG_GSource* property has a near-identical description, and when their coverage was compared, the “G7” source prefix was found to be a superset of the *kGB7* property, covering 120 additional ideographs. In lieu of updating the provisional *kGB7* property to match the coverage of the “G7” source prefix, the WG recommends that the *kGB7* property simply be removed altogether from the Unihan database for Unicode Version 17.0.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Remove the provisional kGB7 property, based on feedback [ID20240810135155] in document L2/24-223, and as amended in Section 10 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Remove the provisional kGB7 property from UAX #38, based on feedback [ID20240810135155] in document L2/24-223, and as amended in Section 10 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Remove the provisional kGB7 property from the Unihan database, based on feedback [ID20240810135155] in document L2/24-223, and as amended in Section 10 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 10 of document L2/24-227. See feedback [ID20240810135155] in document L2/24-223.

11) ID20240826145902

Date/Time: Mon Aug 26 14:59:02 CDT 2024

ReportID: ID20240826145902

Name: Ken Lunde

Report Type: Error Report

Opt Subject: **Unihan database error**

The *kRSUnicode* and *kTotalStrokes* property values for U+23D92 𠄎 are both incorrect. Instead of being 85.8 and 11 respectively, their property values should be 2.8 and 9, respectively.

Comments: The WG reviewed and discussed this feedback, and agreed that the *kTotalStrokes* property value of U+23D92 𠄎 should be changed to 9, but that “2.8” should be added as a second *kRSUnicode* property value, because this ideograph is classified under Radical 85 in the Kangxi Dictionary.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to change the informative *kRSUnicode* and *kTotalStrokes* property values of U+23D92, based on feedback [ID20240826145902] in document L2/24-223, and as amended in Section 11 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Change the *kRSUnicode* and *kTotalStrokes* property values of U+23D92 in ISO/IEC 10646’s CJKSrc.txt data file, based on feedback [ID20240826145902] in document L2/24-223, and as amended in Section 11 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated Unihan17.txt data file to update the Unihan database to change the *kRSUnicode* and *kTotalStrokes* property values of U+23D92, based on feedback [ID20240826145902] in document L2/24-223, and as amended in Section 11 of document L2/24-227, for Unicode Version 17.0.

Current:

U+23D92	kRSUnicode	85.8
U+23D92	kTotalStrokes	11

Adjusted:

U+23D92	kRSUnicode	85.8	2.8
U+23D92	kTotalStrokes	9	

12) ID20240911183502

Date/Time: Wed Sep 11 18:35:02 CDT 2024

ReportID: ID20240911183502

Name: Ryusei Yamaguchi

Report Type: Error Report

Opt Subject: **the code charts for Unicode version 16.0.0**

In the code charts for Unicode version 16.0.0, the glyphs in the J column for the following characters do not match the corresponding J-source codes.

"code point","kIRG_JSource","glyph in the chart"

"U+2D0B2","JMJ-059372","MJ068097"

"U+2D4F1","JMJ-059505","MJ068098"

"U+2EA41","JMJ-060341","MJ068100"

Comments: The WG reviewed and discussed this feedback, and noted that prior to Unicode Version 16.0, there were 1,647 ideographs with the “JMJ” source prefix. All but two of them were in Extension F (Unicode Version 10.0). The other two were appended to the URO as urgently needed ideographs in Unicode Version 11.0 (U+9FEE and U+9FEF).

The online Moji Jōhō Kiban database suggests that the current representative glyph in the Unicode Version 16.0 code charts is the one that should be mapped from the affected code point. Both representative glyphs (pre-16.0 and 16.0) are registered in the *Moji_Joho* IVD collection. For the one that should be directly encoded, the Moji Jōhō Kiban database uses “実装したUCS” to indicate this. Below are the current *kIRG_JSource* property values and *Moji_Joho* IVSes with links to the online Moji Jōhō Kiban database:

U+2D0B2	kIRG_JSource	JMJ-059372
<2D0B2,E0100>	= Moji_Joho	MJ059372
<2D0B2,E0101>	= Moji_Joho	MJ068097

U+2D4F1	kIRG_JSource	JMJ-059505
<2D4F1,E0100>	= Moji_Joho	MJ059505
<2D4F1,E0101>	= Moji_Joho	MJ068098

U+2EA41	kIRG_JSource	JMJ-060341
<2EA41,E0100>	= Moji_Joho	MJ060341
<2EA41,E0101>	= Moji_Joho	MJ060342
<2EA41,E0102>	= Moji_Joho	MJ068100

Below are code chart excerpts from Unicode Version 15.1 (top) and Version 16.0 (bottom):

2D0B2 几 16.6	凱 JMJ-059372	2D4F1 宀 40.7	𡩊 JMJ-059505	2EA41 食 184.9	餽 JMJ-060341
2D0B2 几 16.6	凱 JMJ-059372	2D4F1 宀 40.7	𡩊 JMJ-059505	2EA41 食 184.9	餽 JMJ-060341

Below are corresponding excerpts from the *Moji_Joho* IVD collection charts that show which glyphs are associated with the Moji Jōhō Kiban database serial numbers:

2D0B2	凱	凱	2D4F1	𡩊	𡩊	2EA41	餽	餽	餽
	E0100 Moji_Joho MJ059372	E0101 Moji_Joho MJ068097		E0100 Moji_Joho MJ059505	E0101 Moji_Joho MJ068098		E0100 Moji_Joho MJ060341	E0101 Moji_Joho MJ060342	E0102 Moji_Joho MJ068100

The Japan NB confirmed that this is a source reference issue, not a representative glyph issue, which means that the *kIRG_JSource* property values should be adjusted to match the Moji Jōhō Kiban database.

The Moji Jōhō Kiban database was used to check for other such cases among the 1,647 ideographs that used this source prefix prior to Unicode Version 16.0, but none were found. Also, the corresponding property values for the provisional *kMojiJoho* property, which are shown below, are already correct, so no adjustments are necessary:

U+2D0B2	kMojiJoho	MJ068097	MJ059372:E0100	MJ068097:E0101
U+2D4F1	kMojiJoho	MJ068098	MJ059505:E0100	MJ068098:E0101
U+2EA41	kMojiJoho	MJ068100	MJ060341:E0100	MJ060342:E0101
		MJ068100:E0102		

Recommendations: The WG recommends to the UTC the following disposition ⇨

Consensus: Accept the proposal to change the normative *kIRG_JSource* property values of U+2D0B2, U+2D4F1, and U+2EA41, based on feedback [ID20240911183502] in document L2/24-223, and as amended in Section 12 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Change the *kIRG_JSource* property values of U+2D0B2, U+2D4F1, and U+2EA4 in ISO/IEC 10646’s CJKSrc.txt data file, based on feedback [ID20240911183502] in document L2/24-223, and as amended in Section 12 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated Unihan17.txt data file to update the Unihan database, based on feedback [ID20240911183502] in document L2/24-223, and as amended in Section 12 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 12 of document L2/24-227. See feedback [ID20240911183502] in document L2/24-223.

Current:

U+2D0B2	kIRG_JSource	JMJ-059372
U+2D4F1	kIRG_JSource	JMJ-059505
U+2EA41	kIRG_JSource	JMJ-060341

Adjusted:

U+2D0B2	kIRG_JSource	JMJ- 068097
U+2D4F1	kIRG_JSource	JMJ- 068098
U+2EA41	kIRG_JSource	JMJ- 068100

13) ID20240921064245

Date/Time: Sat Sep 21 06:42:45 CDT 2024

ReportID: ID20240921064245

Name: Andrew West

Report Type: Error Report

Opt Subject: **Unihan_Variants.txt**

In Unihan_Variants.txt there are these two entries:

U+8AE9 kSimplifiedVariant U+2C8F2

U+2C8F2 kTraditionalVariant U+8AE9

However, U+8AE9 誼 is a variant form of U+8B5C 譜, and does not simplify to U+2C8F2 讲. On the other hand, the correct traditional mapping for U+2C8F2 讲 is U+8A81 誼.

Therefore remove these two entries:

U+8AE9 kSimplifiedVariant U+2C8F2

U+2C8F2 kTraditionalVariant U+8AE9

And add these three entries:

U+8A81 kSimplifiedVariant U+2C8F2

U+8AE9 kSemanticVariant U+8B5C

U+2C8F2 kTraditionalVariant U+8A81

Comments: The WG reviewed and discussed this feedback, and agreed that the proposed provisional *kSimplifiedVariant*, *kSemanticVariant*, and *kTraditionalVariant* property value removals, changes, and additions are appropriate.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Ken Lunde, CJK: Update the Unihan database to remove, change, or add *kSimplifiedVariant*, *kSemanticVariant*, and *kTraditionalVariant* property values, based on feedback [ID20240921064245] in document L2/24-223 and Section 13 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 13 of document L2/24-227. See feedback [ID20240921064245] in document L2/24-223.

Current:

U+8AE9	kSimplifiedVariant	U+2C8F2
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U+2C8F2	kTraditionalVariant	U+8AE9
Remove:		
U+8AE9	kSimplifiedVariant	U+2C8F2
Adjusted:		
U+2C8F2	kTraditionalVariant	U+8A81
New:		
U+8A81	kSimplifiedVariant	U+2C8F2
U+8AE9	kSemanticVariant	U+8B5C

14) ID20240921070719

Date/Time: Sat Sep 21 07:07:19 CDT 2024

ReportID: ID20240921070719

Name: Andrew West

Report Type: Error Report

Opt Subject: **Unihan_Variants.txt**

In Unihan_Variants.txt there are these two entries:

U+292CC kSimplifiedVariant U+31071

U+31071 kTraditionalVariant U+292CC

However, U+292CC 鞫 (𠄎革易) does not simplify to U+31071 鞫, which is the simplified form of U+292EC 鞫 (𠄎革易).

Therefore remove these two entries:

U+292CC kSimplifiedVariant U+31071

U+31071 kTraditionalVariant U+292CC

And add these two entries:

U+292EC kSimplifiedVariant U+31071

U+31071 kTraditionalVariant U+292EC

Comments: The WG reviewed and discussed this feedback, and agreed that the proposed provisional *kSimplifiedVariant* and *kTraditionalVariant* property value removals, changes, and additions are appropriate.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Action Item for Ken Lunde, CJK: Update the Unihan database to remove, change, or add *kSimplifiedVariant* and *kTraditionalVariant* property values, based on feedback [ID20240921070719] in document L2/24-223 and Section 14 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the feedback submitter the CJK & Unihan Working Group comments in Section 14 of document L2/24-227. See feedback [ID20240921070719] in document L2/24-223.

Current:

U+292CC	kSimplifiedVariant	U+31071
U+31071	kTraditionalVariant	U+292CC

Remove:

U+292CC kSimplifiedVariant U+31071

Adjusted:

U+31071 kTraditionalVariant **U+292EC**

New:

U+292EC kSimplifiedVariant U+31071

UAX #38 / Unihan Database Documents

The document in this section was reviewed and discussed by the WG, and for convenience, the following data file, which is a PDF attachment, includes all of the recommended Unihan database additions based on it:

- *kMandarin-additions-vetted-20241012.txt*

15) L2/24-209: Feedback on year-2022 proposed kMandarin additions for 2556 characters (per UTC action 170-A97)

Comments: This document completes the following UTC Action Item from 2022 by vetting the recommended informative *kMandarin* property value additions:

[170-A97](#) per [L2/22-022](#) Section 14

Recommendations: The group recommends to the UTC the following disposition ⇨

Consensus: Accept the informative kMandarin property value additions as reviewed and amended by the CLDR-TC, based on document L2/24-209 (Chen) and Section 15 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Update the Unihan database to add the kMandarin property values, based on document L2/24-209 and Section 15 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the author of document L2/24-209 the CJK & Unihan Working Group comments in Section 15 of document L2/24-227.

UAX #45 / U-Source Documents

The three documents in this section were reviewed and discussed by the WG, and for convenience, the following data file, which is a PDF attachment, includes the recommended UAX #45 *USourceData.txt* data file additions based on it:

- *USource-additions-20241012.txt*

The recommended UAX #45 *USourceData.txt* data file additions are also shown inline, immediately following the **Recommendations**.

16) L2/24-181: Proposal to Encode a Variant of 歲

Comments: The WG reviewed and discussed this proposal, and agreed that adding the ideograph to UAX #45 is reasonable, with an assigned status value of **FutureWS**. The WG noted that the ideograph is also similar to U+21ED5 歲, and to the following registered *Moji_Joho* IVSes:

6B72 E0101; Moji_Joho; MJ014842

6B72 E0102; Moji_Joho; MJ014843

6B72 E0104; Moji_Joho; MJ014841

6B72	歲	歲	歲
	E0101	E0102	E0104
	Moji_Joho	Moji_Joho	Moji_Joho
	MJ014842	MJ014843	MJ014841

The ideograph, whose representative glyph is shown below, can therefore be considered as a candidate for inclusion in the UTC's submission for the next IRG working set:

歲

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept one new U-source ideograph as UTC-03512 with a UAX #45 status value of FutureWS, based on document L2/24-181 (Yuan), and as amended in Section 16 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Add one new record to the UAX #45 USourceData.txt data file and its representative glyph to USourceGlyphs.pdf, based on document L2/24-181, and as amended in Section 16 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the author of document L2/24-181 the CJK & Unihan Working Group comments in Section 16 of document L2/24-227.

New:

UTC-03512;FutureWS;;46.9;;𪛗;UTCDoc L2/24-181;U+6B72 U+21ED5;12;1

17) L2/24-206: Proposal to add one ideograph used in High School History Textbook Elective 1 (People's Education Press)

Comments: The WG reviewed and discussed this proposal, and agreed that adding the ideograph to UAX #45 is reasonable, with an assigned status value of **FutureWS**. The ideograph, whose representative glyph is shown below, can therefore be considered as a candidate for inclusion in the UTC's submission for the next IRG working set:

罽

Recommendations: The WG recommends to the UTC the following disposition ⇨

Consensus: Accept one new U-source ideograph as UTC-03513 with a UAX #45 status value of FutureWS, based on document L2/24-206 (Fang & Junko) and Section 17 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Add one new record to the UAX #45 USourceData.txt data file and its representative glyph to USourceGlyphs.pdf, based on document L2/24-206 and Section 17 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the author of document L2/24-206 the CJK & Unihan Working Group comments in Section 17 of document L2/24-227.

New:

UTC-03513;FutureWS;;122.6;;罽;UTCDoc L2/24-206;kMandarin jī;11;5

18) L2/24-212: Proposal to add 6 characters used in Korean old maps to UAX #45

Comments: The WG reviewed and discussed this proposal, and agreed that adding the six ideographs to UAX #45 is reasonable, with an assigned status value of **FutureWS**. The ideographs, whose representative glyphs are shown below, can therefore be considered as candidates for inclusion in the UTC’s submission for the next IRG working set:

噲 峩 鄴 時 阿 龔

Recommendations: The WG recommends to the UTC the following disposition ⇨

Consensus: Accept six new U-source ideographs as UTC-03514 through UTC-03519 with a UAX #45 status value of FutureWS, based on document L2/24-212 (Dong) and Section 18 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Add six new records to the UAX #45 USourceData.txt data file and their representative glyphs to USourceGlyphs.pdf, based on document L2/24-212 and Section 18 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the author of document L2/24-212 the CJK & Unihan Working Group comments in Section 18 of document L2/24-227.

New:

UTC-03514;FutureWS;;30.17;;噲;UTCDoc L2/24-212 1;kKorean YAK;20;3
UTC-03515;FutureWS;;46.6;;峩;UTCDoc L2/24-212 2;kKorean I;9;1
UTC-03516;FutureWS;;5.12;;鄴;UTCDoc L2/24-212 3;kKorean TOL;13;1
UTC-03517;FutureWS;;30.12;;時;UTCDoc L2/24-212 4;kKorean SIS;15;2
UTC-03518;FutureWS;;30.10;;阿;UTCDoc L2/24-212 5;kKorean AS;13;2
UTC-03519;FutureWS;;30.15;;龔;UTCDoc L2/24-212 6;kKorean HOIS;18;3

19) L2/24-208: Proposal to add 47 ideographs

Comments: The WG reviewed and discussed this proposal, and agreed that adding the 47 ideographs to UAX #45 is reasonable, with an assigned status value of **FutureWS**. The ideographs, whose representative glyphs are shown below, can therefore be considered as candidates for inclusion in the UTC's submission for the next IRG working set:

貳貳羽辮軌桂冂閉筭囷燧爰
被訖庾钅輻輶祕舞姿茆產念
夔啗航嘯繩囡囧虹誇爛區徒
嘿掬吃丷爛係劉益勳僞甄

Recommendations: The WG recommends to the UTC the following disposition ⇨

Consensus: Accept 47 new U-source ideographs as UTC-03520 through UTC-03566 with a UAX #45 status value of FutureWS, based on document L2/24-208 (Junko et al.) and Section 19 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Add 47 new records to the UAX #45 USourceData.txt data file and their representative glyphs to USourceGlyphs.pdf, based on document L2/24-208 and Section 19 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Convey to the author of document L2/24-208 the CJK & Unihan Working Group comments in Section 19 of document L2/24-227.

New:

UTC-03520;FutureWS;;7.7;𠄎貳二;UTCDoc L2/24-208 1;kTraditionalVariant
U+8CB3;kMandarin èr;9;1
UTC-03521;FutureWS;;7.10;貳二;UTCDoc L2/24-208 2;kTraditionalVariant
U+8CB3;kMandarin èr;12;1
UTC-03522;FutureWS;;124.1;羽乙;UTCDoc L2/24-208 3;kTraditionalVariant
U+7FFC;kMandarin yì;7;5
UTC-03523;FutureWS;;93.9;午前;UTCDoc L2/24-208 4;;13;4
UTC-03524;FutureWS;;159.4;車气;UTCDoc L2/24-208 5;;11;3
UTC-03525;FutureWS;;75.7;木五土;UTCDoc L2/24-208 6;;11;1
UTC-03526;FutureWS;;169'.2;冂丁;UTCDoc L2/24-208 7;;5;1
UTC-03527;FutureWS;;169.2;門丁;UTCDoc L2/24-208 8;;10;1
UTC-03528;FutureWS;;36.7;死央;UTCDoc L2/24-208 9;;10;5
UTC-03529;FutureWS;;31.5;口示;UTCDoc L2/24-208 10;;8;1
UTC-03530;FutureWS;;86.12;火林止;UTCDoc L2/24-208 11;;16;1
UTC-03531;FutureWS;;8.7;六义;UTCDoc L2/24-208 12;;9;4
UTC-03532;FutureWS;;145.5;禘厂及;UTCDoc L2/24-208 13;;11;1
UTC-03533;FutureWS;;149.6;設十;UTCDoc L2/24-208 14;;13;3
UTC-03534;FutureWS;;27.5;厂史;UTCDoc L2/24-208 15;;7;2
UTC-03535;FutureWS;;93.6;午后;UTCDoc L2/24-208 16;;10;3

UTC-03536;FutureWS;;159.13;𨮑車電;UTCDoc L2/24-208 17;;20;1
 UTC-03537;FutureWS;;173.9;𨮑電及;UTCDoc L2/24-208 18;;17;2
 UTC-03538;FutureWS;;113.3;𨮑示义;UTCDoc L2/24-208 19;;8;3
 UTC-03539;FutureWS;;4.10;𨮑𨮑𨮑一及;UTCDoc L2/24-208 20;;11;1
 UTC-03540;FutureWS;;15.7;𨮑次及;UTCDoc L2/24-208 21;;9;3
 UTC-03541;FutureWS;;1.8;𨮑廿叩;UTCDoc L2/24-208 22;;9;2
 UTC-03542;FutureWS;;140.7;𨮑𨮑厓;UTCDoc L2/24-208 23;;11;1
 UTC-03543;FutureWS;;61.5;𨮑全心;UTCDoc L2/24-208 24;;9;3
 UTC-03544;FutureWS;;107.6;𨮑皮夹;UTCDoc L2/24-208 25;kMandarin piā;11;1
 UTC-03545;FutureWS;;30.9;𨮑𨮑𨮑比由;UTCDoc L2/24-208 26;kMandarin biu;12;1
 UTC-03546;FutureWS;;137.4;𨮑舟气;UTCDoc L2/24-208 27;;10;3
 UTC-03547;FutureWS;;30.13;𨮑𨮑電;UTCDoc L2/24-208 28;;16;1
 UTC-03548;FutureWS;;120.13;𨮑𨮑条電;UTCDoc L2/24-208 29;;19;1
 UTC-03549;FutureWS;;31.6;𨮑𨮑𨮑众;UTCDoc L2/24-208 30;kTraditionalVariant
 U+570B;kMandarin guó;9;3
 UTC-03550;FutureWS;;1.11;𨮑𨮑𨮑𨮑𨮑;UTCDoc L2/24-208 31;kTraditionalVariant
 U+798F;kMandarin fú;12;2
 UTC-03551;FutureWS;;142.2;𨮑𨮑虫了;UTCDoc L2/24-208 32;kMandarin liǎo;8;5
 UTC-03552;FutureWS;;149'.6;𨮑𨮑𨮑夸;UTCDoc L2/24-208 33;kTraditionalVariant
 U+8A87;kMandarin kuā;8;1
 UTC-03553;FutureWS;;86.12;𨮑𨮑火阑;UTCDoc L2/24-208 34;kTraditionalVariant
 U+721B;kMandarin làn;16;2
 UTC-03554;FutureWS;;23.2;𨮑𨮑𨮑又;UTCDoc L2/24-208 35;kTraditionalVariant U+5340;4;5
 UTC-03555;FutureWS;;60.6;𨮑𨮑𨮑贞;UTCDoc L2/24-208 36;kTraditionalVariant
 U+22524;9;2
 UTC-03556;FutureWS;;30.10;𨮑𨮑𨮑𨮑;UTCDoc L2/24-208 37;kTraditionalVariant
 U+2BB18;13;2
 UTC-03557;FutureWS;;64.8;𨮑𨮑𨮑𨮑门东;UTCDoc L2/24-208 38;kTraditionalVariant
 U+6514;kMandarin làn;11;2
 UTC-03558;FutureWS;;30.6;𨮑𨮑𨮑𨮑空;UTCDoc L2/24-208 39;;9;4
 UTC-03559;FutureWS;;9.0;𨮑𨮑人;UTCDoc L2/24-208 40;kMandarin rén;2;0
 UTC-03560;FutureWS;;86.8;𨮑𨮑火𨮑𨮑门东;UTCDoc L2/24-208 41;kTraditionalVariant
 U+721B;kMandarin làn;12;2
 UTC-03561;FutureWS;;9.8;𨮑𨮑𨮑𨮑忝;UTCDoc L2/24-208 42;kTraditionalVariant
 U+6DFB;kMandarin tiān;10;1
 UTC-03562;FutureWS;;18.15;𨮑𨮑𨮑𨮑𨮑𨮑𨮑;UTCDoc L2/24-208 43;;17;3
 UTC-03563;FutureWS;;108.4;𨮑𨮑天皿;UTCDoc L2/24-208 44;;9;1
 UTC-03564;FutureWS;;209.4;𨮑𨮑鼻匀;UTCDoc L2/24-208 45;;18;3
 UTC-03565;FutureWS;;9.7;𨮑𨮑𨮑𨮑九𨮑𨮑匀三;UTCDoc L2/24-208 46;;9;3
 UTC-03566;FutureWS;;8.13;𨮑𨮑亭匠;UTCDoc L2/24-208 47;kMandarin tāng;15;2

Other Documents

The document in this section was reviewed and discussed by the WG.

20) L2/24-201: Proposal to add a new Script-Hybrid CJK Ideographs block

Comments: This topic was discuss during IRG Meeting #63 (2024-10-21 through 2024-10-25). Document [IRG N2717](#) (Lunde) proposed that such ideographs be accepted as normal CJK Unified Ideographs, meaning that they can be included in submissions for IRG working sets. Five feedback documents—[IRG N2731](#) (China) and [IRG N2738R](#) (Fan), [IRG N2741](#) (Sim), [IRG N2742](#) (Wang), and [IRG N2744](#) (Kojitani)—provided feedback against or in support of the

proposal. This topic will continue to be discussed during IRG Meeting #64 in March of next year. Until the IRG concludes its discussions, the WG recommends that the UTC takes no action on this proposal.

Recommendations: The WG recommends to the UTC the following disposition ⇒

No UTC action is required.

IRG Documents

The nine documents in this section were reviewed and discussed by the WG, and for convenience, the following data file, which is a PDF attachment, includes all of the recommended Unihan database additions based on it:

- *Unihan_IRGSources-additions-20241012.txt*
- *Unihan_IRGSources-changes-20241012.txt*

The recommended Unihan database additions and changes are also shown inline, following the **Recommendations**.

21) L2/24-207: US/Unicode Activity Report for IRG #63 Meeting [IRG N2700]

Comments: This document is the UTC’s activity report as delivered during IRG Meeting #63 in October of 2024, and is therefore an FYI document for the UTC.

Recommendations: The WG recommends to the UTC the following disposition ⇒

No UTC action is required.

22) IRG N2702: IRG Meeting #63 Recommendations and Action Items

Comments: While this is mainly an FYI document for the UTC, because all of the necessary actions have been specified under documents that are referenced later in this section, it is important to point out the future IRG meeting schedule, the IRG Working Set 2024 review schedule, and proposals that are likely to reach the UTC during the UTC #183 meeting in April of next year, all of which impact UTC experts:

- Per Recommendation IRG M63.01, the next IRG meeting, **IRG #64 (2025-03-17 through 2025-03-21)** will be virtual (Zoom) and hosted by the Unicode Consortium; **IRG #65 (2025-10-13 through 2025-10-17)** will be hosted by China in Guangzhou (hybrid); and **IRG #66 (2026-03-16 through 2026-03-20)** will be virtual (Zoom) and hosted by the Unicode Consortium. None of the dates have changed.
- Per Recommendation IRG M63.06, the following is the review schedule for **IRG Working Set 2024 Version 2.0:**
 - **2024-12-06:** The IRG Chief Editor and ORT Manager fix all data; submitters that need to update representative glyphs provide updated fonts to the IRG Chief Editor and ORT Manager—6 weeks

- **2024-12-27:** The ORT Manager releases IRG Working Set 2024 Version 2.0 online via the ORT and as document IRG N2750 with an attached attributes file in Excel format—3 weeks
- **2025-02-07:** The IRG Editors submit comments online via the ORT—6 weeks
- **2025-02-28:** The ORT Manager releases Consolidated Comments online and as document IRG N2751—3 weeks
- **2025-03-14:** Submitters provide responses to comments online via the ORT—3 weeks
- Per Recommendation IRG M63.07, and as proposed in document [IRG N2656](#), China is likely to accept or adjust the proposed *kIRG_GSource* property value changes during the IRG #64 meeting in March of next year, meaning that it may be a topic during the UTC #183 meeting in April of next year.
- Per Recommendation IRG M63.09, and as proposed in document [IRG N2729R3](#), China’s 2,145-ideograph horizontal extension is likely to be accepted by the IRG during the IRG #64 meeting in March of next year, meaning that it may be a topic during the UTC #183 meeting in April of next year.
- Per Recommendation IRG M63.17, China, TCA, and Hong Kong SAR are planning to prepare a joint proposal to encode a couple hundred CJK components, which would be useful for a variety of purposes, in particular IDSes. China’s preliminary proposal, which includes 131 CJK components, is document [IRG N2733R](#). My suggestion to the IRG, which I want to discuss during this UTC meeting, is to simply encode these CJK components as ordinary CJK Unified Ideographs in a new block tentatively named **CJK Unified Ideographs Components**, which would be modeled after the [Tangut Components](#) block for the Tangut script.
- Per Recommendation IRG M63.18, China is preparing to submit a nine-ideograph UNC (*Urgently Needed Character*) proposal that would be discussed during the IRG #64 meeting in March of next year, meaning that it may be a topic during the UTC #183 meeting in April of next year.
- Per Recommendation IRG M63.19, the topic of script-hybrid Han ideographs was discussed, and both sides of the issue presented their ideas, but no conclusion was reached. The discussion included a brief tour of [UTN #43](#), which is the documentation for the provisional [kStrange](#) property of the Unihan database. This clearly demonstrated that script-hybrid Han ideographs have already been encoded in CJK Unified Ideographs blocks. This topic will be discussed again during the IRG #64 meeting in March of next year. I believe that we will eventually convince the IRG as a whole to accept such Han ideographs as CJK Unified Ideographs that would be processed in IRG working sets. To that end, the Chair of the WG is considering an approach whereby two very prominent script-hybrid Han ideographs, such as 𠄎广K and 𠄎广O, which are the respective abbreviated forms of 慶 (*kei*) and 應 (*ō*) of 慶應大学 (*Keio University*), be proposed to the IRG as urgently-needed ideographs for encoding at the end of the Extension D block, U+2B81E and U+2B81F, which would fill that particular block.

Recommendations: The WG recommends to the UTC the following disposition ⇒

No UTC action is required.

23) IRG N2643R2: A proposal requesting a Horizontal Extension of 306 Hanja chars

Comments: Per Recommendation M63.08 in document IRG N2702, the IRG recommends accepting the 306-ideograph horizontal extension proposed by ROK in document IRG N2643R2. ROK has been tasked to provide to WG 2 the representative glyphs by 2024-11-29. The WG therefore recommends that the UTC accepts this 306-ideograph horizontal extension.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the 306-ideograph horizontal extension, based on document IRG N2643R2 (Shin et al.) and Section 23 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Add the 306 new kIRG_KSource property values to ISO/IEC 10646's CJKSrc.txt data file, based on document IRG N2643R2 and Section 23 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the updated Unihan17.txt data file to update the Unihan database, based on document IRG N2643R2 and Section 23 of document L2/24-227, for Unicode Version 17.0.

New:

U+4C4E	kIRG_KSource	K6-1130
U+4C7A	kIRG_KSource	K6-1131
U+4C9B	kIRG_KSource	K6-1132
U+4CEB	kIRG_KSource	K6-1133
U+4CF4	kIRG_KSource	K6-1134
U+4D4B	kIRG_KSource	K6-1135
U+4D4C	kIRG_KSource	K6-1136
U+4D4D	kIRG_KSource	K6-1137
U+4D4E	kIRG_KSource	K6-1138
U+856C	kIRG_KSource	K6-1139
U+9B5C	kIRG_KSource	K6-113A
U+9B6E	kIRG_KSource	K6-113B
U+9BBC	kIRG_KSource	K6-113C
U+9C26	kIRG_KSource	K6-113D
U+9CED	kIRG_KSource	K6-113E
U+9EC7	kIRG_KSource	K6-113F
U+9ECA	kIRG_KSource	K6-1140
U+23682	kIRG_KSource	K6-1141
U+25730	kIRG_KSource	K6-1142
U+25C84	kIRG_KSource	K6-1143
U+25CA4	kIRG_KSource	K6-1144
U+25CC6	kIRG_KSource	K6-1145
U+25CCD	kIRG_KSource	K6-1146
U+25CD1	kIRG_KSource	K6-1147
U+25CD5	kIRG_KSource	K6-1148
U+25CDF	kIRG_KSource	K6-1149
U+25CFD	kIRG_KSource	K6-114A
U+28CF2	kIRG_KSource	K6-114B
U+28CF3	kIRG_KSource	K6-114C
U+28D17	kIRG_KSource	K6-114D

U+28D43	kIRG_KSource	K6-114E
U+28D48	kIRG_KSource	K6-114F
U+28D69	kIRG_KSource	K6-1150
U+28D77	kIRG_KSource	K6-1151
U+28DC2	kIRG_KSource	K6-1152
U+28DDA	kIRG_KSource	K6-1153
U+28E14	kIRG_KSource	K6-1154
U+28E1A	kIRG_KSource	K6-1155
U+28E20	kIRG_KSource	K6-1156
U+28E30	kIRG_KSource	K6-1157
U+28E75	kIRG_KSource	K6-1158
U+28EA4	kIRG_KSource	K6-1159
U+28EA9	kIRG_KSource	K6-115A
U+28EB2	kIRG_KSource	K6-115B
U+28EB9	kIRG_KSource	K6-115C
U+28EF5	kIRG_KSource	K6-115D
U+28F39	kIRG_KSource	K6-115E
U+28F4F	kIRG_KSource	K6-115F
U+28F7F	kIRG_KSource	K6-1160
U+28FC5	kIRG_KSource	K6-1161
U+2900C	kIRG_KSource	K6-1162
U+2907A	kIRG_KSource	K6-1163
U+29088	kIRG_KSource	K6-1164
U+29096	kIRG_KSource	K6-1165
U+290A7	kIRG_KSource	K6-1166
U+290C0	kIRG_KSource	K6-1167
U+290CE	kIRG_KSource	K6-1168
U+290D2	kIRG_KSource	K6-1169
U+290D6	kIRG_KSource	K6-116A
U+290F1	kIRG_KSource	K6-116B
U+29101	kIRG_KSource	K6-116C
U+29106	kIRG_KSource	K6-116D
U+29121	kIRG_KSource	K6-116E
U+29140	kIRG_KSource	K6-116F
U+29162	kIRG_KSource	K6-1170
U+2916D	kIRG_KSource	K6-1171
U+29170	kIRG_KSource	K6-1172
U+29174	kIRG_KSource	K6-1173
U+2917C	kIRG_KSource	K6-1174
U+2917F	kIRG_KSource	K6-1175
U+29180	kIRG_KSource	K6-1176
U+29181	kIRG_KSource	K6-1177
U+29183	kIRG_KSource	K6-1178
U+2918C	kIRG_KSource	K6-1179
U+29193	kIRG_KSource	K6-117A
U+291B7	kIRG_KSource	K6-117B
U+291B8	kIRG_KSource	K6-117C
U+291C9	kIRG_KSource	K6-117D
U+291CF	kIRG_KSource	K6-117E
U+291D5	kIRG_KSource	K6-117F
U+291E3	kIRG_KSource	K6-1180
U+291F1	kIRG_KSource	K6-1181
U+29205	kIRG_KSource	K6-1182
U+2926B	kIRG_KSource	K6-1183
U+2927E	kIRG_KSource	K6-1184

U+2927F	kIRG_KSource	K6-1185
U+29282	kIRG_KSource	K6-1186
U+2928A	kIRG_KSource	K6-1187
U+29297	kIRG_KSource	K6-1188
U+2929A	kIRG_KSource	K6-1189
U+292AD	kIRG_KSource	K6-118A
U+292BF	kIRG_KSource	K6-118B
U+292E5	kIRG_KSource	K6-118C
U+292F0	kIRG_KSource	K6-118D
U+292FE	kIRG_KSource	K6-118E
U+29327	kIRG_KSource	K6-118F
U+29350	kIRG_KSource	K6-1190
U+29365	kIRG_KSource	K6-1191
U+29396	kIRG_KSource	K6-1192
U+293A3	kIRG_KSource	K6-1193
U+293E3	kIRG_KSource	K6-1194
U+29409	kIRG_KSource	K6-1195
U+2940B	kIRG_KSource	K6-1196
U+29433	kIRG_KSource	K6-1197
U+29443	kIRG_KSource	K6-1198
U+29454	kIRG_KSource	K6-1199
U+2946E	kIRG_KSource	K6-119A
U+2946F	kIRG_KSource	K6-119B
U+29479	kIRG_KSource	K6-119C
U+2947A	kIRG_KSource	K6-119D
U+294AE	kIRG_KSource	K6-119E
U+294BA	kIRG_KSource	K6-119F
U+294C5	kIRG_KSource	K6-11A0
U+294E8	kIRG_KSource	K6-11A1
U+294EA	kIRG_KSource	K6-11A2
U+294EB	kIRG_KSource	K6-11A3
U+294F9	kIRG_KSource	K6-11A4
U+29507	kIRG_KSource	K6-11A5
U+29514	kIRG_KSource	K6-11A6
U+2952A	kIRG_KSource	K6-11A7
U+29531	kIRG_KSource	K6-11A8
U+29537	kIRG_KSource	K6-11A9
U+29573	kIRG_KSource	K6-11AA
U+295BC	kIRG_KSource	K6-11AB
U+295BD	kIRG_KSource	K6-11AC
U+295C3	kIRG_KSource	K6-11AD
U+295CF	kIRG_KSource	K6-11AE
U+295D7	kIRG_KSource	K6-11AF
U+295DB	kIRG_KSource	K6-11B0
U+295E0	kIRG_KSource	K6-11B1
U+295EC	kIRG_KSource	K6-11B2
U+295FA	kIRG_KSource	K6-11B3
U+295FE	kIRG_KSource	K6-11B4
U+29605	kIRG_KSource	K6-11B5
U+29617	kIRG_KSource	K6-11B6
U+29625	kIRG_KSource	K6-11B7
U+29689	kIRG_KSource	K6-11B8
U+2969A	kIRG_KSource	K6-11B9
U+296AB	kIRG_KSource	K6-11BA
U+296AC	kIRG_KSource	K6-11BB

U+296BF	kIRG_KSource	K6-11BC
U+296C6	kIRG_KSource	K6-11BD
U+296D5	kIRG_KSource	K6-11BE
U+296D8	kIRG_KSource	K6-11BF
U+296DE	kIRG_KSource	K6-11C0
U+296E1	kIRG_KSource	K6-11C1
U+296FA	kIRG_KSource	K6-11C2
U+296FD	kIRG_KSource	K6-11C3
U+29701	kIRG_KSource	K6-11C4
U+29705	kIRG_KSource	K6-11C5
U+29726	kIRG_KSource	K6-11C6
U+2973A	kIRG_KSource	K6-11C7
U+2973E	kIRG_KSource	K6-11C8
U+2975D	kIRG_KSource	K6-11C9
U+29765	kIRG_KSource	K6-11CA
U+29786	kIRG_KSource	K6-11CB
U+297A9	kIRG_KSource	K6-11CC
U+297C3	kIRG_KSource	K6-11CD
U+297C4	kIRG_KSource	K6-11CE
U+297C7	kIRG_KSource	K6-11CF
U+297C8	kIRG_KSource	K6-11D0
U+297D3	kIRG_KSource	K6-11D1
U+297F7	kIRG_KSource	K6-11D2
U+2985D	kIRG_KSource	K6-11D3
U+29891	kIRG_KSource	K6-11D4
U+298A0	kIRG_KSource	K6-11D5
U+298A1	kIRG_KSource	K6-11D6
U+298A8	kIRG_KSource	K6-11D7
U+298BF	kIRG_KSource	K6-11D8
U+298C9	kIRG_KSource	K6-11D9
U+298D5	kIRG_KSource	K6-11DA
U+298DD	kIRG_KSource	K6-11DB
U+298E1	kIRG_KSource	K6-11DC
U+298ED	kIRG_KSource	K6-11DD
U+298EF	kIRG_KSource	K6-11DE
U+2990F	kIRG_KSource	K6-11DF
U+29942	kIRG_KSource	K6-11E0
U+29947	kIRG_KSource	K6-11E1
U+2994C	kIRG_KSource	K6-11E2
U+2996C	kIRG_KSource	K6-11E3
U+299B1	kIRG_KSource	K6-11E4
U+299B6	kIRG_KSource	K6-11E5
U+299BA	kIRG_KSource	K6-11E6
U+299C6	kIRG_KSource	K6-11E7
U+29A12	kIRG_KSource	K6-11E8
U+29A17	kIRG_KSource	K6-11E9
U+29A1D	kIRG_KSource	K6-11EA
U+29A28	kIRG_KSource	K6-11EB
U+29A2C	kIRG_KSource	K6-11EC
U+29A3E	kIRG_KSource	K6-11ED
U+29A4B	kIRG_KSource	K6-11EE
U+29A5D	kIRG_KSource	K6-11EF
U+29A72	kIRG_KSource	K6-11F0
U+29A80	kIRG_KSource	K6-11F1
U+29A8B	kIRG_KSource	K6-11F2

U+29AAD	kIRG_KSource	K6-11F3
U+29AF6	kIRG_KSource	K6-11F4
U+29AF9	kIRG_KSource	K6-11F5
U+29B05	kIRG_KSource	K6-11F6
U+29B26	kIRG_KSource	K6-11F7
U+29B39	kIRG_KSource	K6-11F8
U+29B47	kIRG_KSource	K6-11F9
U+29B4F	kIRG_KSource	K6-11FA
U+29B54	kIRG_KSource	K6-11FB
U+29B5B	kIRG_KSource	K6-11FC
U+29B64	kIRG_KSource	K6-11FD
U+29B72	kIRG_KSource	K6-11FE
U+29B73	kIRG_KSource	K6-11FF
U+29B96	kIRG_KSource	K6-1200
U+29BE1	kIRG_KSource	K6-1201
U+29C2A	kIRG_KSource	K6-1202
U+29C67	kIRG_KSource	K6-1203
U+29C83	kIRG_KSource	K6-1204
U+29CB8	kIRG_KSource	K6-1205
U+29CCC	kIRG_KSource	K6-1206
U+29D63	kIRG_KSource	K6-1207
U+29D66	kIRG_KSource	K6-1208
U+29D76	kIRG_KSource	K6-1209
U+29D7E	kIRG_KSource	K6-120A
U+29DD5	kIRG_KSource	K6-120B
U+29DE8	kIRG_KSource	K6-120C
U+29DF9	kIRG_KSource	K6-120D
U+29E07	kIRG_KSource	K6-120E
U+29E29	kIRG_KSource	K6-120F
U+29E3D	kIRG_KSource	K6-1210
U+29E41	kIRG_KSource	K6-1211
U+29E83	kIRG_KSource	K6-1212
U+29EAC	kIRG_KSource	K6-1213
U+29EB5	kIRG_KSource	K6-1214
U+29EDF	kIRG_KSource	K6-1215
U+29F0B	kIRG_KSource	K6-1216
U+29F27	kIRG_KSource	K6-1217
U+29F46	kIRG_KSource	K6-1218
U+29F48	kIRG_KSource	K6-1219
U+29F4F	kIRG_KSource	K6-121A
U+29FC7	kIRG_KSource	K6-121B
U+29FCA	kIRG_KSource	K6-121C
U+2A009	kIRG_KSource	K6-121D
U+2A00F	kIRG_KSource	K6-121E
U+2A04B	kIRG_KSource	K6-121F
U+2A089	kIRG_KSource	K6-1220
U+2A08F	kIRG_KSource	K6-1221
U+2A0CB	kIRG_KSource	K6-1222
U+2A0E9	kIRG_KSource	K6-1223
U+2A101	kIRG_KSource	K6-1224
U+2A109	kIRG_KSource	K6-1225
U+2A115	kIRG_KSource	K6-1226
U+2A120	kIRG_KSource	K6-1227
U+2A132	kIRG_KSource	K6-1228
U+2A14D	kIRG_KSource	K6-1229

U+2A156	kIRG_KSource	K6-122A
U+2A199	kIRG_KSource	K6-122B
U+2A1B0	kIRG_KSource	K6-122C
U+2A1BD	kIRG_KSource	K6-122D
U+2A1C4	kIRG_KSource	K6-122E
U+2A1C5	kIRG_KSource	K6-122F
U+2A1F9	kIRG_KSource	K6-1230
U+2A23A	kIRG_KSource	K6-1231
U+2A23F	kIRG_KSource	K6-1232
U+2A267	kIRG_KSource	K6-1233
U+2A293	kIRG_KSource	K6-1234
U+2A2A7	kIRG_KSource	K6-1235
U+2A2B6	kIRG_KSource	K6-1236
U+2A2B7	kIRG_KSource	K6-1237
U+2A35D	kIRG_KSource	K6-1238
U+2A363	kIRG_KSource	K6-1239
U+2A374	kIRG_KSource	K6-123A
U+2A377	kIRG_KSource	K6-123B
U+2A3BD	kIRG_KSource	K6-123C
U+2A3BE	kIRG_KSource	K6-123D
U+2A3C6	kIRG_KSource	K6-123E
U+2A3CB	kIRG_KSource	K6-123F
U+2A3D4	kIRG_KSource	K6-1240
U+2A3DA	kIRG_KSource	K6-1241
U+2A3EA	kIRG_KSource	K6-1242
U+2A3EE	kIRG_KSource	K6-1243
U+2A404	kIRG_KSource	K6-1244
U+2A418	kIRG_KSource	K6-1245
U+2A427	kIRG_KSource	K6-1246
U+2A434	kIRG_KSource	K6-1247
U+2A449	kIRG_KSource	K6-1248
U+2A453	kIRG_KSource	K6-1249
U+2A457	kIRG_KSource	K6-124A
U+2A460	kIRG_KSource	K6-124B
U+2A49F	kIRG_KSource	K6-124C
U+2A4A0	kIRG_KSource	K6-124D
U+2A4CB	kIRG_KSource	K6-124E
U+2A4DB	kIRG_KSource	K6-124F
U+2A4EC	kIRG_KSource	K6-1250
U+2A4F0	kIRG_KSource	K6-1251
U+2A4F9	kIRG_KSource	K6-1252
U+2A507	kIRG_KSource	K6-1253
U+2A51B	kIRG_KSource	K6-1254
U+2A523	kIRG_KSource	K6-1255
U+2A533	kIRG_KSource	K6-1256
U+2A534	kIRG_KSource	K6-1257
U+2A54F	kIRG_KSource	K6-1258
U+2A597	kIRG_KSource	K6-1259
U+2A5A1	kIRG_KSource	K6-125A
U+2A5C6	kIRG_KSource	K6-125B
U+2A619	kIRG_KSource	K6-125C
U+2A64C	kIRG_KSource	K6-125D
U+2A668	kIRG_KSource	K6-125E
U+2A6B1	kIRG_KSource	K6-125F
U+2A6B6	kIRG_KSource	K6-1260

24) IRG N2745: A request to modify the glyph for U+2E23A/KC-06640

Comments: Per Recommendation M63.11 in document IRG N2702, the IRG recommends accepting the K-source representative glyph change for U+2E23A in the Extension F block, and ROK was tasked to prepare and submit this document, IRG N2745, which was done on 2024-10-24. ROK has already provided to WG 2 a TrueType font that includes the updated representative glyph. The WG therefore recommends that the UTC accepts this K-source representative glyph change.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to change the K-source representative glyph for U+2E23A, based on document IRG N2745 (Kim et al.) and Section 24 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Apply the K-source representative glyph change for U+2E23A to the code charts for the CJK Unified Ideographs Extension F block, with a TrueType font provided by ROK, based on document IRG N2745 and Section 24 of document L2/24-227, for Unicode Version 17.0.

25) IRG N2747: Revised Glyphs of 11 G-Source Characters

Comments: Per Recommendation M63.12 in document IRG N2702, the IRG recommends accepting the 11 G-source representative glyph changes, and China was tasked to prepare and submit this document, IRG N2747, which was done on 2024-10-24. The document includes as a PDF attachment a TrueType font that includes the updated representative glyphs. The WG noted that four of the G-source representative glyph changes apply to IRG Working Set 2021, meaning that the referenced CJK Unified Ideographs Extension J code points are tentative. The WG therefore recommends that the UTC accepts these G-source representative glyph changes.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to change 11 G-source representative glyphs, based on document IRG N2747 (Tao) and Section 25 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Apply the 11 G-source representative glyph changes, with a TrueType font provided by China, based on document IRG N2747 and Section 25 of document L2/24-227, for Unicode Version 17.0.

26) IRG N2748: Update of V-Source Representative Glyphs

Comments: Also per Recommendation M63.12 in document IRG N2702, the IRG recommends accepting the 12 V-source representative glyph changes, and Vietnam was tasked to prepare and submit this document, IRG N2748, which was done on 2024-10-25. Vietnam has already provided to WG 2 a TrueType font that includes the updated representative glyphs. The WG

noted that nine of the V-source representative glyph changes apply to IRG Working Set 2024, and the UTC need not take any action on them. The other three affect the following three tentative CJK Unified Ideographs Extension J code points with their V-sources shown in parentheses:

U+33065 (VN-F0547)

U+32FDC (VN-F1B3E)

U+33142 (VN-F1BB4)

The WG therefore recommends that the UTC accepts these three V-source representative glyph changes.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the proposal to change three V-source representative glyphs in the CJK Unified Ideographs Extension J block, based on document IRG N2748 (Collins) and as amended in Section 26 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Apply the three V-source representative glyph changes to the CJK Unified Ideographs Extension J block, with a TrueType font provided by Vietnam, based on document IRG N2748 and as amended in Section 26 of document L2/24-227, for Unicode Version 17.0.

27) IRG N2691: UNC proposal for ethnic musical instruments of Yunnan Province

Comments: Per Recommendation M63.13 in document IRG N2702, the IRG recommends accepting this urgently-needed G-source ideograph, with U+2B73B at the end of the Extension C block as the recommended code point. This document includes as a PDF attachment a TrueType font that includes the representative glyph. The WG therefore recommends that the UTC accepts this urgently-needed G-source ideograph. The WG also noted that “GCA” is a new source prefix for the *kIRG_GSource* property, so its Syntax and Description need to be updated in UAX #38.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the urgently-needed G-source ideograph with code point U+2B73B at the end of the Extension C block, and all of the associated property value additions, based on document IRG N2691 (Tao et al.) and Section 27 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Add the property values for U+2B73B to ISO/IEC 10646’s CJKSrc.txt data file, based on document IRG N2691 and Section 27 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the Unihan17.txt data file to update the Unihan database, based on document IRG N2691 and Section 27 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Add “GCA” as a new source prefix to the *kIRG_GSource* property in UAX #38.

Action Item for Ken Whistler, UTC: Update the pipeline to add U+2B73B, based on document IRG N2691 and Section 27 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Whistler, RMG: Add mention of the range extension of the CJK Unified Ideographs Extension C block to the Alpha review notes for Unicode Version 17.0, based on document IRG N2691 and Section 27 of document L2/24-27.

Action Item for Ken Whistler, EDC: Document the range extension of the CJK Unified Ideographs Extension C block in the Core Specification, based on document IRG N2691 and Section 27 of document L2/24-227, for Unicode Version 17.0.

New:

U+2B73B	kIRG_GSource	GCA-K0016
U+2B73B	kRSUnicode	96.6
U+2B73B	kTotalStrokes	10

28) IRG N2709: UNC proposal for 2 TCA's UNC Characters

Comments: Per Recommendation M63.14 in document IRG N2702, the IRG recommends accepting these two urgently-needed T-source ideographs, with U+2B73C and U+2B73D at the end of the Extension C block as the recommended code points. The WG noted that the SC (residual number of strokes) and TS (total number of strokes) values for the second ideograph in this proposal are transposed. This document includes as a PDF attachment a TrueType font that includes the representative glyphs. The WG therefore recommends that the UTC accepts these two urgently-needed T-source ideographs.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the two urgently-needed T-source ideographs with code point U+2B73C and U+2B73D at the end of the Extension C block, and all of the associated property value additions, based on document IRG N2709 (TCA) and as amended in Section 28 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Add the property values for U+2B73C and U+2B73D to ISO/IEC 10646's CJKSrc.txt data file, based on document IRG N2709 and as amended in Section 28 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the Unihan17.txt data file to update the Unihan database, based on document IRG N2709 and Section 28 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Whistler, UTC: Update the pipeline to add U+2B73C and U+2B73D, based on document IRG N2709 and Section 28 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Whistler, RMG: Add mention of the range extension of the CJK Unified Ideographs Extension C block to the Alpha review notes for Unicode Version 17.0, based on document IRG N2709 and Section 28 of document L2/24-27.

Action Item for Ken Whistler, EDC: Document the range extension of the CJK Unified Ideographs Extension C block in the Core Specification, based on document IRG N2709 and Section 28 of document L2/24-227, for Unicode Version 17.0.

New:

U+2B73C	kIRG_TSource	TB-7D2C
U+2B73C	kRSUnicode	29.11
U+2B73C	kTotalStrokes	13
U+2B73D	kIRG_TSource	TB-7D2F
U+2B73D	kRSUnicode	128.6
U+2B73D	kTotalStrokes	12

29) IRG N2771: Disunification of U+2F980 and U+2335F

Comments: Per Recommendation M63.15 in document IRG N2702, the IRG recommends disunifying U+2335F, with U+2B73E at the end of the Extension C block as the recommended code point for the disunified ideograph. The T-source (T6-287B) and an updated representative glyph of U+2F980 should be moved to U+2B73E, and the T-source of U+2F980 should be changed to TU-2F980 with no change to its representative glyph. This document includes as a PDF attachment a TrueType font that includes the representative glyph. The WG therefore recommends that the UTC accepts this disunification proposal.

Recommendations: The WG recommends to the UTC the following disposition ⇒

Consensus: Accept the disunification of U+2335F, the encoding of its disunified form at U+2B73E at the end of the Extension C block, and all of the associated property value changes and additions, based on document IRG N2771 (TCA) and Section 29 of document L2/24-227, for Unicode Version 17.0.

Action Item for Michel Suignard, CJK: Add the property values for U+2B73E and adjust the kIRG_TSource property value of U+2F980 to ISO/IEC 10646's CJKSrc.txt data file, based on document IRG N2771 and Section 29 of document L2/24-227, and provide to Ken Lunde an updated Unihan17.txt data file, for Unicode Version 17.0.

Action Item for Ken Lunde, CJK: Use the Unihan17.txt data file to update the Unihan database, based on document IRG N2771 and Section 29 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Whistler, UTC: Update the pipeline to add U+2B73E, based on document IRG N2771 and Section 29 of document L2/24-227, for Unicode Version 17.0.

Action Item for Ken Whistler, RMG: Add mention of the range extension of the CJK Unified Ideographs Extension C block to the Alpha review notes for Unicode Version 17.0, based on document IRG N2771 and Section 29 of document L2/24-27.

Action Item for Ken Whistler, EDC: Document the range extension of the CJK Unified Ideographs Extension C block in the Core Specification, based on document IRG N2771 and Section 29 of document L2/24-227, for Unicode Version 17.0.

Current:

U+2F980	kIRG_TSource	T6-287B
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Adjusted:

U+2F980 kIRG_TSource **TU-2F980**

New:

U+2B73E kIRG_TSource T6-287B

U+2B73E kRSUnicode 130.3

U+2B73E kTotalStrokes 7

Other Topics

30) Updated Provisional Unihan Database Properties

Comments: The purpose of this section is to provide a synopsis of adjustments that were made to provisional Unihan database properties by Ken Lunde since the UTC #180 meeting, which are shown in the table below:

Property	Additions	Removals	Changes	Notes
kPhonetic	837	0	60	Fine-tuning of property values with stakeholder
kStrange	3	0	3	

Recommendations: The WG recommends to the UTC the following disposition ⇒

No UTC action is required.

That is all.