

**Title:** Unihan Ad Hoc Recommendations for UTC #165 Meeting

**Author:** Ken Lunde & Unihan Ad Hoc

**Date:** 2020-09-22

This document provides the Unihan Ad Hoc recommendations for UTC #165 based on a meeting that took place from 6 to 9PM PDT on 2020-09-18, which was attended by Eiso Chan, Lee Collins, John Jenkins, Ken Lunde, William Nelson, Ngô Thanh Nhàn, Stephan Hyeonjun Stiller, and Yifán Wáng via [Zoom](#). John Jenkins and Ken Lunde co-chaired the meeting.

The Unihan Ad Hoc reviewed public feedback and documents that were received since UTC #164. Comments are marked in **green**, and Copy&Paste-ready Recommendations to the UTC are marked in **red**.

## 1) UAX #45 / U-Source Public Feedback

The single item of public feedback that is in this section was discussed by the ad hoc, and for convenience, the *USource-changes-20200918.txt*, *Unihan-removals-20200918.txt*, and *Unihan-additions-20200918.txt* (PDF attachments) files include all of the recommended changes based on the changes that were proposed. These recommended changes are also shown inline as part of the Recommendations.

Date/Time: **Mon Aug 31 08:29:11 CDT 2020**

Name: Ken Lunde

Report Type: Error Report

Opt Subject: **Unihan-related feedback**

Please consider the following three pieces of Unihan-related feedback:

1) Change 金 (U+91D2) to 金 (U+91D1) in the IDSes for the following eight U-Source ideographs:

UTC-00102;C;U+2B4B6;167.9;1316.111;𠄎金 𠄎;kMatthews 2051;

UTC-00207;X;;167.10;1318.281;𠄎金 𠄎;kSBGY 115.19;

UTC-00432;X;;167.11;1321.071;𠄎金 𠄎;kMeyerWempe 3708b;

UTC-00872;D;U+2B7F0;167.6;1305.211;𠄎金 𠄎;Adobe-Japan1 20240;

UTC-00889;N;;167.10;1318.281;𠄎金 𠄎;Adobe-CNS1 C+16257;

UK-02711;G;U+30F25;167.5;1303.101;𠄎金 𠄎;UTCDoc L2/15-260 1399;

UK-02829;UK-2015;UTC-02828;167.7;1308.261;𠄎金 𠄎;UTCDoc L2/15-260 1517;

UK-02895;G;U+30F23;167.4;1299.191;𠄎金 𠄎;UTCDoc L2/15-260 1583;

Rationale: 金 (U+91D2) appears only once in the IDS database, as itself. 金 (U+91D1) is used as a component in over 2,000 ideographs. Also, the IDS database already includes these adjustments for those that are encoded.

2) Simplify the IDS for UTC-00892 (U+2DF3C 癩) as follows:

Current:

UTC-00892;F;U+2DF3C;104.23;0783.271;𠄎癩 𠄎 𠄎山一黑女;Adobe-CNS1 C+16303;

Proposed:

UTC-00892;F;U+2DF3C;104.23;0783.271;𠄎广徽;Adobe-CNS1 C+16303;

Rationale: The IDS database already specifies 𠄎广徽 as the IDS for U+2DF3C 癩 (UTC-00892).

3) Horizontally-extend U+289B1 𠄎 (Extension B) to add UK-02829 𠄎金囟 as a source reference. Its simplified form, U+30F8A 𠄎 (UK-2828), is in Extension G, which further means that the kSimplifiedVariant and kTraditionalVariant properties can be added to these ideographs as follows:

U+289B1 kSimplifiedVariant U+30F8A

U+30F8A kTraditionalVariant U+289B1

That is all.

**Comments:** The ad hoc reviewed this feedback, and agreed that all of them are appropriate *USourceData.txt* and Unihan database changes. Although no formal action is required by the UTC, William Nelson volunteered to compare the IDSes for the encoded ideographs in UAX #45 with those in the [IDS Database](#), and to submit his findings at a later date.

**Recommendations (Unihan-UTC165-R01):** The ad hoc recommends to the UTC the following disposition ⇒ Accept feedback from Ken Lunde [Fri Aug 31 08:29:11 CDT 2020], based on document L2/20-239, for Unicode Version 14.0. **Assign Action Items to John Jenkins:** Update the following records in *USourceData.txt* as shown below, based on document L2/20-239 and Unihan-UTC165-R01 in document L2/20-235, for Unicode Version 14.0:

UTC-00102;C;U+2B4B6;167.9;1316.111;𠄎金囟;kMatthews 2051;  
UTC-00207;X;;167.10;1318.281;𠄎金冤;kSBGY 115.19;  
UTC-00432;X;;167.11;1321.071;𠄎金患;kMeyerWempe 3708b;  
UTC-00872;D;U+2B7F0;167.6;1305.211;𠄎金当;Adobe-Japan1 20240;  
UTC-00889;N;;167.10;1318.281;𠄎金祖;Adobe-CNS1 C+16257;  
UTC-00892;F;U+2DF3C;104.23;0783.271;𠄎广徽;Adobe-CNS1 C+16303;  
UK-02711;G;U+30F25;167.5;1303.101;𠄎金卢;UTCDoc L2/15-260 1399;  
UK-02829;UK-2015;UTC-02828;167.7;1308.261;𠄎金囟;UTCDoc L2/15-260 1517;  
UK-02895;G;U+30F23;167.4;1299.191;𠄎金亾;UTCDoc L2/15-260 1583;

Remove the following Unihan database records, based on document L2/20-239 and Unihan-UTC165-R01 in document L2/20-235, for Unicode Version 14.0:

U+9FD2 kSimplifiedVariant U+9FD3  
U+9FD3 kTraditionalVariant U+9FD2

Add the following Unihan database records, based on document L2/20-239 and Unihan-UTC165-R01 in document L2/20-235, for Unicode Version 14.0:

U+9FD2 kTraditionalVariant U+9FD3  
U+9FD3 kSimplifiedVariant U+9FD2

Prepare a proposal to horizontally-extend U+289B1 𠄎 to add UK-02829 as a new source reference and submit to the UTC and IRG, based on document L2/20-239 and Unihan-UTC165-R01 in document L2/20-235, for Unicode Version 14.0.

## 2) UAX #45 / U-Source Documents

The documents in this section were discussed by the ad hoc, and for convenience, the *USourceData-additions-20200918.txt* (PDF attachment) file includes all of the recommended UAX #45 *USourceData.txt* data file additions based on those documents. These recommended data file additions are also shown inline, following the Recommendations.

### L2/20-206: Proposal to add six ideographic characters for Japanese place names to UAX #45

**Comments:** This document proposes that six ideographs be added to UAX #45 as new U-Source ideographs, and provides sufficient metadata and evidence. These ideographs are used for place names in Japan, and the evidence is from Japan's real estate registration records (不動産登記記録). William Nelson pointed out that the IDS for the sixth ideograph, 門見, could be simplified as 門兒. There was also some discussion as to whether the first ideograph, 土番, is unifiable with U+58BB 墻 or U+2BBB0 墻, which are referenced in the proposal, but no such UCV (*Unifiable Component Variations*) exists. NUCV (*Non-Unifiable Component Variations*) #317, which includes the components 田 and 回, is the closest match. Whether the first ideograph is unifiable with an existing ideograph is not a barrier to adding it to UAX #45. Lastly, Eiso Chan noted that the proposed first residual stroke values for the second, fourth, and fifth ideographs should be 4, 3, and 5, respectively.

**Recommendations (Unihan-UTC165-R02):** The ad hoc recommends to the UTC the following disposition ⇒ Accept six new U-Source ideographs as **UTC-03228** through **UTC-03233** with a UAX #45 status value of **N**, based on document L2/20-206 and Unihan-UTC165-R02 in document L2/20-235, for Unicode Version 14.0. **Assign an Action Item to John Jenkins:** Add the following six new records to *USourceData.txt* and their representative glyphs to *USourceGlyphs.pdf*, based on document L2/20-206 and Unihan-UTC165-R02 in document L2/20-235, for Unicode Version 14.0:

```
UTC-03228;N;;32.15;;土番;UTCDoc L2/20-206 1;Similar to U+58BB 2BBB0:kJapaneseKun  
KAKI KUNE;18;1  
UTC-03229;N;;46.8;;山定;UTCDoc L2/20-206 2;kJapaneseKun TAWA;11;4  
UTC-03230;N;;53.9;;夕广?;UTCDoc L2/20-206 3;Similar to U+2B756:kJapaneseOn  
SO;12;3  
UTC-03231;N;;64.6;;扌込;UTCDoc L2/20-206 4;kJapaneseKun NYOU;9;3  
UTC-03232;N;;94.2;;扌又;UTCDoc L2/20-206 5;kJapaneseKun MATA;5;5  
UTC-03233;N;;169.7;;門兒;UTCDoc L2/20-206 6;Variant of U+9B29:kJapaneseKun  
HISHIRI;15;2
```

### L2/20-229: Proposal to Add First Residual Stroke Field to UAX #45

**Comments:** The ad hoc was completely in favor of adding a new field, Field 9, to *USourceData.txt* for Unicode Version 14.0, for recording the first residual stroke, particularly because the first residual stroke is required metadata for IRG submissions. Note that the *USourceData.txt* additions shown above already include Field 9.

**Recommendations (Unihan-UTC165-R03):** The ad hoc recommends to the UTC the following disposition ⇒ Authorize a proposed update of UAX #45 for Unicode Version 14.0 to add the first residual stroke field, Field 9, and its description, based on document L2/20-229 and Unihan-UTC165-R03 in document L2/20-235, for Unicode Version 14.0. **Assign an Action Item to John Jenkins and the Editorial Committee:** Update the text of UAX #45 to include the first residual stroke field, Field 9 and its description, based on document L2/20-229 and Unihan-UTC165-R03 in document L2/20-235, for Unicode Version 14.0. **Assign an Action Item to Rick McGowan:** Post the PRI for the proposed update of UAX #45, to close on December 31, 2020. **Assign an Action Item to John Jenkins:** Add Field 9 to *USourceData.txt*, based on document L2/20-229 and Unihan-UTC165-R03 in document L2/20-235, for Unicode Version 14.0.

### 3) UAX #38 / Unihan Database Public Feedback

The five items of public feedback that are in this section were discussed by the ad hoc, and for convenience, the *USource-additions-20200918.txt*, *Unihan-changes-20200918.txt*, and *Unihan-removals-20200918.txt* (PDF attachments) files include all of the recommended changes based on the changes that were proposed. These recommended changes are also shown inline as part of the Recommendations.

Date/Time: **Fri Jul 17 20:18:55 CDT 2020 (updated 2020-09-01)**

Name: Jim Breen

Report Type: Submission (FAQ, Tech Note, Case Study)

Opt Subject: **Additional Unihan information for U+FA11 U+37E2 U+2550E**

I would like to propose some additional Unihan information for several related characters. I am basing this submission on the entries in the 2002 edition of Shibano's JIS 漢字字典. That dictionary covers the kanji in JIS X 0208 and JIS X 0213. As you are probably aware, Shibano chaired the JSC committee that revised JIS X 0208 and developed JIS X 0213. The characters are:

U+FA11 崎 (p. 174)

U+37E2 嵯 (p. 173)

U+2550E 碯 (p. 457)

The kIRG\_JSource for all three is JIS X 0213.

These characters are stated in Shibano to be variants of 崎 (U+5D0E), 碯 (U+7895), 嵯 (U+5D5C) and 埼 (U+57FC). U+5D0E is a Jinmeiyō Kanji (2010).

The additions I propose are:

U+FA11 崎

kJapaneseKun SAKI

kJapaneseOn KI

kDefinition cape; spit; promontory

U+37E2 嵯

kJapaneseKun SAKI

kDefinition cape; spit; promontory

U+2550E 碯

kJapaneseKun SAKI

kDefinition cape; spit; promontory

The readings are all drawn from Shibano. The kDefinition values are from those associated with the related characters in Japanese sources.

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This is in addition to the following changes proposed by Ken and others:

U+37E2 kSemanticVariant U+57FC U+5D0E<kMorohashi:TZ U+5D5C U+7895 U+966D  
U+FA11 U+2550E

U+57FC kJapaneseKun SAI SAKI

U+57FC kSemanticVariant U+37E2 U+5D0E<kMorohashi U+5D5C U+7895<kMorohashi:T  
U+966D U+FA11 U+2550E

U+5D0E kSemanticVariant U+37E2<kMorohashi:T U+57FC<kMorohashi  
U+5D5C<kMorohashi U+7895<kMorohashi U+966D<kMorohashi U+FA11<kMorohashi  
U+2550E

U+5D5C kSemanticVariant U+37E2 U+57FC U+5D0E<kMorohashi:Z U+7895 U+966D  
U+FA11 U+2550E

U+7895 kSemanticVariant U+37E2 U+57FC<kMorohashi:TZ U+5D0E<kMorohashi U+5D5C  
U+966D U+FA11 U+2550E

U+966D kSemanticVariant U+37E2 U+57FC U+5D0E<kMorohashi U+5D5C U+7895 U+FA11  
U+2550E

U+FA11 kSemanticVariant U+37E2 U+57FC U+5D0E<kMorohashi:Z U+5D5C U+7895  
U+966D U+2550E

U+2550E kSemanticVariant U+37E2 U+57FC U+5D0E U+5D5C U+7895 U+966D U+FA11

**Comments:** The ad hoc reviewed this feedback, and agreed that all of them are appropriate Unihan database changes.

**Recommendations (Unihan-UTC165-R04):** The ad hoc recommends to the UTC the following disposition ⇨ Accept feedback from Jim Breen [Fri Jul 17 20:18:55 CDT 2020 (updated 2020-09-01)], based on document L2/20-239, for Unicode Version 14.0. **Assign Action Items to John Jenkins:** Update the Unihan database to add the following records, based on document L2/20-239 and Unihan-UTC165-R04 in document L2/20-235, for Unicode Version 14.0:

U+37E2	kJapaneseKun	SAKI
U+37E2	kSemanticVariant	U+57FC U+5D0E<kMorohashi:TZ U+5D5C U+7895 U+966D U+FA11 U+2550E
U+57FC	kJapaneseKun	SAI SAKI
U+57FC	kSemanticVariant	U+37E2 U+5D0E<kMorohashi U+5D5C U+7895<kMorohashi:T U+966D U+FA11 U+2550E
U+5D0E	kSemanticVariant	U+37E2<kMorohashi:T U+57FC<kMorohashi U+5D5C<kMorohashi U+7895<kMorohashi U+966D<kMorohashi U+FA11<kMorohashi U+2550E
U+5D5C	kSemanticVariant	U+37E2 U+57FC U+5D0E<kMorohashi:Z U+7895 U+966D U+FA11 U+2550E
U+7895	kSemanticVariant	U+37E2 U+57FC<kMorohashi:TZ U+5D0E<kMorohashi U+5D5C U+966D U+FA11 U+2550E

U+966D	kSemanticVariant	U+37E2 U+57FC U+5D0E<kMorohashi U+5D5C U+7895 U+FA11 U+2550E
U+FA11	kDefinition	cape; spit; promontory
U+FA11	kJapaneseKun	SAKI
U+FA11	kJapaneseOn	KI
U+FA11	kSemanticVariant	U+37E2 U+57FC U+5D0E<kMorohashi:Z U+5D5C U+7895 U+966D U+2550E
U+2550E	kDefinition	cape; spit; promontory
U+2550E	kJapaneseKun	SAKI
U+2550E	kSemanticVariant	U+37E2 U+57FC U+5D0E U+5D5C U+7895 U+966D U+FA11

Update the Unihan database to change the following record as shown below, based on document L2/20-239 and Unihan-UTC165-R04 in document L2/20-235, for Unicode Version 14.0:

U+37E2	kDefinition	the rocks on the hills are of different #shapes; rugged and weird, character different from others; cape; spit; promontory
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Date/Time: **Thu Sep 3 12:30:38 CDT 2020**  
 Name: Jaemin Chung  
 Report Type: Error Report  
 Opt Subject: **U+28E0F kTotalStrokes error**

The kTotalStrokes value for U+28E0F 𪛗 should be 8, not 2.

**Comments:** The ad hoc reviewed this feedback, and agreed that it is an appropriate Unihan database change.

**Recommendations (Unihan-UTC165-R05):** The ad hoc recommends to the UTC the following disposition ⇒ Accept feedback from Jaemin Chung [Thu Sep 3 12:30:38 CDT 2020], based on document L2/20-239, for Unicode Version 14.0. **Assign an Action Item to John Jenkins and Michel Suignard:** Update the Unihan database to change the following record as shown below, based on document L2/20-239 and Unihan-UTC165-R05 in document L2/20-235, for Unicode Version 14.0:

U+28E0F	kTotalStrokes	8
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Date/Time: **Thu Sep 3 12:34:42 CDT 2020**  
 Name: Jaemin Chung  
 Report Type: Other Question, Problem, or Feedback  
 Opt Subject: **Request for addition of one cross-reference under U+2EA7**

Under U+2EA7 𪛗, a cross-reference to U+20092 𪛗 needs to be added. When I was writing L2/19-214R, I was not aware of U+20092.

**Comments:** The ad hoc reviewed this feedback, and agreed that U+20092 is an appropriate cross reference for U+2EA7.

**Recommendations (Unihan-UTC165-R06):** The ad hoc recommends to the UTC the following disposition ⇒ Accept feedback from Jaemin Chung [Thu Sep 3 12:34:42 CDT 2020], based



on document L2/20-239, for Unicode Version 14.0. **Assign an Action Item to Ken Whistler:** Update *NamesList.txt* to add U+20092 as a related CJK Unified Ideograph to U+2EA7, based on document L2/20-239 and Unihan-UTC165-R06 in document L2/20-235, for Unicode Version 14.0.

Date/Time: **Thu Sep 17 18:20:16 CDT 2020**

Name: Jaemin Chung

Report Type: Error Report

Opt Subject: **kTotalStrokes value for U+2B413**

The kTotalStrokes value for U+2B413 𨮑 should be 13, not 10.

**Comments:** The ad hoc reviewed this feedback, and agreed that it is an appropriate Unihan database change.

**Recommendations (Unihan-UTC165-R07):** The ad hoc recommends to the UTC the following disposition ⇒ Accept feedback from Jaemin Chung [Thu Sep 17 18:20:16 CDT 2020], based on document L2/20-239, for Unicode Version 14.0. **Assign an Action Item to John Jenkins and Michel Suignard:** Update the Unihan database to change the following record as shown below, based on document L2/20-239 and Unihan-UTC165-R07 in document L2/20-235, for Unicode Version 14.0:

U+2B413	kTotalStrokes	13
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Date/Time: **Thu Sep 17 18:44:18 CDT 2020**

Name: Jaemin Chung

Report Type: Error Report

Opt Subject: **kCantonese value for U+2B413**

<http://unicode.org/L2/L2020/20231-2B413-2B5E6-change.pdf>

In addition to what I wrote in L2/20-231, the kCantonese value for U+2B413 𨮑 should be changed to jau4 (which is the kCantonese value for U+8F2E 𨮑). This has to be changed anyway, and I think copying the value from the traditional counterpart is fine in this case.

**Comments:** The ad hoc reviewed this feedback, and quickly pointed out that John Jenkins is already assigned an Action Item from UTC #164 to update the *kCantonese* property, which will include this change.

**Recommendations (Unihan-UTC165-R08):** The ad hoc recommends to the UTC the following disposition ⇒ John Jenkins is already assigned an Action Item, [164-A11](#), to update the *kCantonese* property values, which will apply this change, so no additional action is necessary.

## 4) UAX #38 / Unihan Database Documents

The documents in this section were discussed by the ad hoc, and for convenience, the *Unihan-changes-20200918.txt*, *Unihan-additions-20200918.txt*, *Unihan-m-20200918.txt*, and *Unihan-v-20200918.txt* (PDF attachments) files include all of the recommended Unihan data-

base changes, removals, and additions based on those documents. These recommended Unihan database additions, removals, and changes are also shown inline, following the Recommendations.

**L2/20-203: Submission of 5 Macao SARG UNC Characters and One TCA UNC character**

**L2/20-204: UNC Proposal for Two U-Source Ideographs**

**L2/20-205: Feedback on MC-00137 glyph in L2/20-203**

**Comments:** The ad hoc discussed these three documents that cover a five-ideograph UNC (*Urgently Needed Character*) proposal that originated from Macao SAR, and agreed that they satisfy the criteria given their inclusion in the forthcoming MSCS (*Macao Supplementary Character Set*) standard. If accepted, these five ideographs will completely fill the remaining code points at the end of the URO (3) and Extension B (2) blocks. As noted in L2/20-203 and L2/20-204, two of the ideographs, MC-00137 and MC-00139, are present in IRG Working Set 2017 as serial numbers 02004 and 00746, respectively, and will need to be removed if they are accepted as UNCs. Also noted was that the following new source prefixes, along with their syntax and descriptions, need to be added to UAX #38:

*kIRG\_GSource*: GDM-\d{5}

*kIRG\_MSource*: MC-\d{5}, MA-[0-9A-F]{4}, MB-[0-9A-F]{4}, MD-[23]?[0-9A-F]{4},  
MDH-[23]?[0-9A-F]{4}

In addition, the existing *kIRG\_MSource* “MAC-” source prefix that covers 87 ideographs will no longer be used in the Unihan database after Macao SAR’s horizontal extension, which is included in IRG N2430R (this is included in L2/20-203 starting from [page 4](#)), has been accepted. The ad hoc reviewed the horizontal extension, which involves the 87 ideographs that are currently assigned the “MAC-” source prefix, along with 255 additional ideographs that will be assigned a *kIRG\_MSource* property value. Finally, the ad hoc agreed that the representative glyph for MC-00137 should be adjusted to match actual usage as demonstrated in L2/20-205.

**Recommendations (Unihan-UTC165-R09):** The ad hoc recommends to the UTC the following disposition ⇒ Accept the five UNCs proposed in L2/20-203 and L2/20-204 with code points U+9FFD through U+9FFF, U+2A6DE, and U+2A6DE, along with the representative glyph change for MC-00137 proposed in L2/20-205, and authorize a proposed update of UAX #38 for Unicode Version 14.0 to add the new *kIRG\_GSource* and *kIRG\_MSource* source prefixes. **Assign an Action Item to John Jenkins and the Editorial Committee:** Create a proposed update of UAX #38 to add the new *kIRG\_GSource* and *kIRG\_MSource* source prefixes, along with their syntax and descriptions, based on documents L2/20-203 and L2/20-204, and Unihan-UTC165-R09 in document L2/20-235, for Unicode Version 14.0. **Assign an Action Item to Rick McGowan:** Post the PRI for the proposed update of UAX #38, to close on December 31, 2020. **Assign an Action Item to Ken Lunde:** Request that Macao SAR adjust the representative glyph for MC-00137 per L2/20-205, and provide an updated font to Michel Suignard. **Assign Action Items to John Jenkins and Michel Suignard:** Add the following Unihan database records (included in the PDF attachment named *Unihan-additions-20200918.txt*), based on documents L2/20-203 and L2/20-204, and Unihan-UTC165-R09 in document L2/20-235, for Unicode Version 14.0:



U+9FFD	kIRG_MSource	MC-00134
U+9FFD	kRSUnicode	30.10
U+9FFD	kTotalStrokes	13
U+9FFE	kIRG_GSource	GDM-00031
U+9FFE	kIRG_MSource	MC-00139
U+9FFE	kIRG_USource	UTC-03009
U+9FFE	kRSUnicode	32.9
U+9FFE	kTotalStrokes	12
U+9FFF	kIRG_GSource	GDM-00085
U+9FFF	kIRG_MSource	MC-00137
U+9FFF	kIRG_USource	UTC-02993
U+9FFF	kRSUnicode	85.9
U+9FFF	kTotalStrokes	14
U+2A6DE	kIRG_MSource	MC-00136
U+2A6DE	kIRG_TSource	TC-662B
U+2A6DE	kRSUnicode	96.10
U+2A6DE	kTotalStrokes	14
U+2A6DF	kIRG_MSource	MC-00138
U+2A6DF	kRSUnicode	109.4
U+2A6DF	kTotalStrokes	9

Update the following Unihan database records (included in the PDF attachment named *Unihan-m-20200918.txt*), based on documents L2/20-203 and L2/20-204, and Unihan-UTC165-R09 in document L2/20-235, for Unicode Version 14.0:

U+21290	kIRG_MSource	MD-21290
U+2A731	kIRG_MSource	MC-00001
U+2A77C	kIRG_MSource	MC-00020
U+2A9B4	kIRG_MSource	MC-00012
U+2AB2C	kIRG_MSource	MC-00022
U+2AD65	kIRG_MSource	MC-00021
U+2ADEB	kIRG_MSource	MC-00017
U+2AEF3	kIRG_MSource	MC-00006
U+2AEF5	kIRG_MSource	MC-00008
U+2AF13	kIRG_MSource	MC-00007
U+2AF47	kIRG_MSource	MC-00002
U+2B017	kIRG_MSource	MC-00019
U+2B062	kIRG_MSource	MC-00014
U+2B090	kIRG_MSource	MC-00011
U+2B334	kIRG_MSource	MC-00010
U+2B3DC	kIRG_MSource	MC-00018
U+2B487	kIRG_MSource	MC-00004
U+2B8F2	kIRG_MSource	MC-00076
U+2B92A	kIRG_MSource	MC-00070
U+2B9AA	kIRG_MSource	MC-00056
U+2BA28	kIRG_MSource	MC-00065
U+2BA60	kIRG_MSource	MC-00074
U+2BBDC	kIRG_MSource	MC-00055
U+2BC0B	kIRG_MSource	MC-00052
U+2BC84	kIRG_MSource	MC-00094
U+2BC90	kIRG_MSource	MC-00015
U+2BD77	kIRG_MSource	MC-00107
U+2BEA2	kIRG_MSource	MC-00023
U+2BFBB	kIRG_MSource	MC-00106
U+2C032	kIRG_MSource	MC-00057

U+2C046	kIRG_MSource	MC-00050
U+2C05D	kIRG_MSource	MC-00062
U+2C13E	kIRG_MSource	MC-00047
U+2C1DE	kIRG_MSource	MC-00110
U+2C1E3	kIRG_MSource	MC-00071
U+2C239	kIRG_MSource	MC-00067
U+2C277	kIRG_MSource	MC-00059
U+2C28F	kIRG_MSource	MC-00027
U+2C295	kIRG_MSource	MC-00061
U+2C2A7	kIRG_MSource	MC-00026
U+2C2CB	kIRG_MSource	MC-00009
U+2C332	kIRG_MSource	MC-00046
U+2C342	kIRG_MSource	MC-00118
U+2C370	kIRG_MSource	MC-00109
U+2C373	kIRG_MSource	MC-00048
U+2C386	kIRG_MSource	MC-00028
U+2C3FA	kIRG_MSource	MC-00116
U+2C428	kIRG_MSource	MC-00051
U+2C480	kIRG_MSource	MC-00003
U+2C494	kIRG_MSource	MC-00111
U+2C4B0	kIRG_MSource	MC-00113
U+2C4E5	kIRG_MSource	MC-00064
U+2C53B	kIRG_MSource	MC-00049
U+2C5CB	kIRG_MSource	MC-00063
U+2C786	kIRG_MSource	MC-00013
U+2C7D3	kIRG_MSource	MC-00078
U+2C838	kIRG_MSource	MC-00066
U+2C939	kIRG_MSource	MC-00034
U+2CAC3	kIRG_MSource	MC-00016
U+2CB8D	kIRG_MSource	MC-00031
U+2CBBC	kIRG_MSource	MC-00112
U+2CBCB	kIRG_MSource	MC-00060
U+2CC1A	kIRG_MSource	MC-00025
U+2CC43	kIRG_MSource	MC-00119
U+2CCE7	kIRG_MSource	MC-00053
U+2CF7A	kIRG_MSource	MC-00045
U+2D1D2	kIRG_MSource	MC-00133
U+2D1F4	kIRG_MSource	MC-00042
U+2D22E	kIRG_MSource	MC-00129
U+2D3DC	kIRG_MSource	MC-00036
U+2D4A8	kIRG_MSource	MC-00123
U+2D4DE	kIRG_MSource	MC-00033
U+2D705	kIRG_MSource	MC-00086
U+2DA09	kIRG_MSource	MC-00085
U+2DA82	kIRG_MSource	MC-00041
U+2DCBB	kIRG_MSource	MC-00054
U+2DD99	kIRG_MSource	MC-00032
U+2DEB7	kIRG_MSource	MC-00043
U+2E160	kIRG_MSource	MC-00039
U+2E19E	kIRG_MSource	MC-00069
U+2E2A6	kIRG_MSource	MC-00044
U+2E325	kIRG_MSource	MC-00040
U+2E420	kIRG_MSource	MC-00058
U+2E840	kIRG_MSource	MC-00035
U+2E886	kIRG_MSource	MC-00068

U+2EAF8	kIRG_MSource	MC-00037
U+2EB12	kIRG_MSource	MC-00038

Add the following Unihan database records (included in the PDF attachment named *Unihan-m-20200918.txt*), based on documents L2/20-203 and L2/20-204, and Unihan-UTC165-R09 in document L2/20-235, for Unicode Version 14.0:

U+36C7	kIRG_MSource	MA-9856
U+370F	kIRG_MSource	MD-370F
U+3826	kIRG_MSource	MD-3826
U+3D72	kIRG_MSource	MD-3D72
U+3E6F	kIRG_MSource	MD-3E6F
U+4058	kIRG_MSource	MD-4058
U+4397	kIRG_MSource	MA-9967
U+4535	kIRG_MSource	MD-4535
U+4615	kIRG_MSource	MA-8FEB
U+4892	kIRG_MSource	MD-4892
U+493E	kIRG_MSource	MA-97E1
U+4A29	kIRG_MSource	MD-4A29
U+4E17	kIRG_MSource	MD-4E17
U+4E78	kIRG_MSource	MA-9AFB
U+4E96	kIRG_MSource	MD-4E96
U+4E9C	kIRG_MSource	MD-4E9C
U+4F40	kIRG_MSource	MD-4F40
U+4FC6	kIRG_MSource	MD-4FC6
U+4FE2	kIRG_MSource	MD-4FE2
U+5029	kIRG_MSource	MB1-ADC5
U+507C	kIRG_MSource	MD-507C
U+5151	kIRG_MSource	MDH-5151
U+517F	kIRG_MSource	MD-517F
U+5184	kIRG_MSource	MD-5184
U+51D1	kIRG_MSource	MA-FAA4
U+5263	kIRG_MSource	MD-5263
U+528E	kIRG_MSource	MD-528E
U+5292	kIRG_MSource	MD-5292
U+52F2	kIRG_MSource	MD-52F2
U+534B	kIRG_MSource	MD-534B
U+53A1	kIRG_MSource	MD-53A1
U+53C4	kIRG_MSource	MD-53C4
U+53D8	kIRG_MSource	MA-895A
U+543F	kIRG_MSource	MDH-543F
U+5449	kIRG_MSource	MD-5449
U+5557	kIRG_MSource	MB1-B0E8
U+555A	kIRG_MSource	MD-555A
U+555F	kIRG_MSource	MB1-B1D2
U+556B	kIRG_MSource	MA-94DC
U+5628	kIRG_MSource	MD-5628
U+56A4	kIRG_MSource	MA-97A3
U+5705	kIRG_MSource	MD-5705
U+5711	kIRG_MSource	MD-5711
U+5897	kIRG_MSource	MD-5897
U+58E6	kIRG_MSource	MD-58E6
U+5900	kIRG_MSource	MD-5900
U+596C	kIRG_MSource	MD-596C

U+59F8	kIRG_MSource	MA-9D55
U+5AAA	kIRG_MSource	MDH-5AAA
U+5ACF	kIRG_MSource	MA-92F4
U+5B49	kIRG_MSource	MD-5B49
U+5BDC	kIRG_MSource	MD-5BDC
U+5BED	kIRG_MSource	MD-5BED
U+5C19	kIRG_MSource	MD-5C19
U+5C2D	kIRG_MSource	MD-5C2D
U+5C5B	kIRG_MSource	MD-5C5B
U+5C83	kIRG_MSource	MDH-5C83
U+5C84	kIRG_MSource	MD-5C84
U+5C8D	kIRG_MSource	MB2-CAC0
U+5CAD	kIRG_MSource	MB2-CC64
U+5DCC	kIRG_MSource	MD-5DCC
U+5E2F	kIRG_MSource	MD-5E2F
U+5EF8	kIRG_MSource	MA-9059
U+5F55	kIRG_MSource	MD-5F55
U+5F60	kIRG_MSource	MD-5F60
U+5F66	kIRG_MSource	MD-5F66
U+5FB3	kIRG_MSource	MD-5FB3
U+60A6	kIRG_MSource	MDH-60A6
U+60EA	kIRG_MSource	MD-60EA
U+6120	kIRG_MSource	MDH-6120
U+6226	kIRG_MSource	MD-6226
U+6245	kIRG_MSource	MD-6245
U+62D0	kIRG_MSource	MB1-A9E4
U+635D	kIRG_MSource	MDH-635D
U+63A6	kIRG_MSource	MD-63A6
U+655A	kIRG_MSource	MDH-655A
U+65FE	kIRG_MSource	MD-65FE
U+6646	kIRG_MSource	MD-6646
U+6681	kIRG_MSource	MD-6681
U+66DF	kIRG_MSource	MD-66DF
U+66FA	kIRG_MSource	MD-66FA
U+66FD	kIRG_MSource	MD-66FD
U+678A	kIRG_MSource	MD-678A
U+67BC	kIRG_MSource	MD-67BC
U+67FB	kIRG_MSource	MD-67FB
U+683F	kIRG_MSource	MD-683F
U+68C1	kIRG_MSource	MDH-68C1
U+690D	kIRG_MSource	MB1-B4D3
U+697D	kIRG_MSource	MD-697D
U+6A0B	kIRG_MSource	MA-FD42
U+6C32	kIRG_MSource	MDH-6C32
U+6C67	kIRG_MSource	MB2-CB4C
U+6C97	kIRG_MSource	MD-6C97
U+6D9A	kIRG_MSource	MDH-6D9A
U+6DCE	kIRG_MSource	MD-6DCE
U+6DF8	kIRG_MSource	MD-6DF8
U+6E80	kIRG_MSource	MD-6E80
U+701E	kIRG_MSource	MA-96EE
U+704E	kIRG_MSource	MD-704E
U+7155	kIRG_MSource	MD-7155
U+7174	kIRG_MSource	MDH-7174
U+71AE	kIRG_MSource	MD-71AE

U+71BB	kIRG_MSource	MD-71BB
U+7215	kIRG_MSource	MA-FE41
U+7232	kIRG_MSource	MD-7232
U+72BE	kIRG_MSource	MD-72BE
U+72D3	kIRG_MSource	MD-72D3
U+738D	kIRG_MSource	MD-738D
U+7399	kIRG_MSource	MD-7399
U+73C1	kIRG_MSource	MD-73C1
U+74C7	kIRG_MSource	MD-74C7
U+7575	kIRG_MSource	MD-7575
U+769F	kIRG_MSource	MD-769F
U+7700	kIRG_MSource	MD-7700
U+771F	kIRG_MSource	MB1-AF75
U+784F	kIRG_MSource	MD-784F
U+790F	kIRG_MSource	MD-790F
U+7930	kIRG_MSource	MD-7930
U+7A0E	kIRG_MSource	MDH-7A0E
U+7A25	kIRG_MSource	MD-7A25
U+7A42	kIRG_MSource	MD-7A42
U+7A4F	kIRG_MSource	MD-7A4F
U+7AB0	kIRG_MSource	MA-8E50
U+7AF8	kIRG_MSource	MD-7AF8
U+7B16	kIRG_MSource	MD-7B16
U+7B51	kIRG_MSource	MB1-B5AE
U+7BB6	kIRG_MSource	MD-7BB6
U+7C18	kIRG_MSource	MD-7C18
U+7D76	kIRG_MSource	MD-7D76
U+7D89	kIRG_MSource	MA-8EA7
U+7D99	kIRG_MSource	MD-7D99
U+7DAB	kIRG_MSource	MA-8EA8
U+7DD6	kIRG_MSource	MD-7DD6
U+7DFC	kIRG_MSource	MDH-7DFC
U+7E4E	kIRG_MSource	MD-7E4E
U+7F10	kIRG_MSource	MD-7F10
U+7F99	kIRG_MSource	MD-7F99
U+7FC6	kIRG_MSource	MD-7FC6
U+7FD6	kIRG_MSource	MD-7FD6
U+7FD9	kIRG_MSource	MD-7FD9
U+7FEC	kIRG_MSource	MB2-E6F8
U+7FF1	kIRG_MSource	MB1-BFAC
U+7FFA	kIRG_MSource	MA-8ECB
U+8068	kIRG_MSource	MD-8068
U+8131	kIRG_MSource	MDH-8131
U+817D	kIRG_MSource	MDH-817D
U+8248	kIRG_MSource	MD-8248
U+833A	kIRG_MSource	MB2-D072
U+8358	kIRG_MSource	MD-8358
U+839F	kIRG_MSource	MD-839F
U+83C1	kIRG_MSource	MB1-B5D7
U+847B	kIRG_MSource	MD-847B
U+84A8	kIRG_MSource	MB2-E3C8
U+84B3	kIRG_MSource	MD-84B3
U+8534	kIRG_MSource	MA-8F77
U+8550	kIRG_MSource	MD-8550
U+85AB	kIRG_MSource	MD-85AB

U+85DB	kIRG_MSource	MD-85DB
U+85F4	kIRG_MSource	MDH-85F4
U+8715	kIRG_MSource	MDH-8715
U+8846	kIRG_MSource	MA-8FBC
U+898C	kIRG_MSource	MD-898C
U+899A	kIRG_MSource	MD-899A
U+8A28	kIRG_MSource	MD-8A28
U+8A5D	kIRG_MSource	MD-8A5D
U+8AAC	kIRG_MSource	MDH-8AAC
U+8B5B	kIRG_MSource	MD-8B5B
U+8B67	kIRG_MSource	MB2-F4D4
U+8CAE	kIRG_MSource	MD-8CAE
U+8E2D	kIRG_MSource	MA-9E5A
U+8F3C	kIRG_MSource	MDH-8F3C
U+9039	kIRG_MSource	MD-9039
U+903A	kIRG_MSource	MD-903A
U+9089	kIRG_MSource	MD-9089
U+90A8	kIRG_MSource	MA-9068
U+90DE	kIRG_MSource	MD-90DE
U+90F7	kIRG_MSource	MD-90F7
U+9125	kIRG_MSource	MD-9125
U+9176	kIRG_MSource	MA-9E4A
U+9196	kIRG_MSource	MDH-9196
U+92AD	kIRG_MSource	MD-92AD
U+92B9	kIRG_MSource	MA-F9D7
U+92ED	kIRG_MSource	MDH-92ED
U+9305	kIRG_MSource	MD-9305
U+9332	kIRG_MSource	MD-9332
U+936E	kIRG_MSource	MA-A05F
U+93C6	kIRG_MSource	MA-9264
U+9421	kIRG_MSource	MD-9421
U+95B2	kIRG_MSource	MDH-95B2
U+95D7	kIRG_MSource	MD-95D7
U+96A0	kIRG_MSource	MD-96A0
U+96B6	kIRG_MSource	MA-90C4
U+96EB	kIRG_MSource	MD-96EB
U+9759	kIRG_MSource	MD-9759
U+975C	kIRG_MSource	MB1-C052
U+976D	kIRG_MSource	MA-9E46
U+97C8	kIRG_MSource	MA-9F76
U+980B	kIRG_MSource	MD-980B
U+9854	kIRG_MSource	MD-9854
U+98EC	kIRG_MSource	MA-914B
U+9938	kIRG_MSource	MA-9652
U+9980	kIRG_MSource	MD-9980
U+9A63	kIRG_MSource	MA-9557
U+9AD9	kIRG_MSource	MD-9AD9
U+9AE5	kIRG_MSource	MD-9AE5
U+9B30	kIRG_MSource	MD-9B30
U+9C47	kIRG_MSource	MDH-9C47
U+9CEF	kIRG_MSource	MD-9CEF
U+9ED9	kIRG_MSource	MD-9ED9
U+20546	kIRG_MSource	MD-20546
U+2070E	kIRG_MSource	MA-92C3
U+20C51	kIRG_MSource	MD-20C51



U+20C98	kIRG_MSource	MD-20C98
U+20FEE	kIRG_MSource	MD-20FEE
U+21124	kIRG_MSource	MD-21124
U+2137C	kIRG_MSource	MD-2137C
U+216E9	kIRG_MSource	MD-216E9
U+217B5	kIRG_MSource	MA-96FD
U+218DD	kIRG_MSource	MD-218DD
U+21A24	kIRG_MSource	MD-21A24
U+21A74	kIRG_MSource	MD-21A74
U+21D5E	kIRG_MSource	MA-876E
U+22288	kIRG_MSource	MD-22288
U+22E0B	kIRG_MSource	MD-22E0B
U+233D6	kIRG_MSource	MD-233D6
U+2348D	kIRG_MSource	MD-2348D
U+237C2	kIRG_MSource	MA-FCF0
U+24327	kIRG_MSource	MD-24327
U+24902	kIRG_MSource	MD-24902
U+24ACE	kIRG_MSource	MD-24ACE
U+25423	kIRG_MSource	MD-25423
U+254C2	kIRG_MSource	MD-254C2
U+25584	kIRG_MSource	MA-93C3
U+25897	kIRG_MSource	MD-25897
U+263F9	kIRG_MSource	MD-263F9
U+26410	kIRG_MSource	MA-90CC
U+26439	kIRG_MSource	MD-26439
U+26489	kIRG_MSource	MA-8ECC
U+26B73	kIRG_MSource	MD-26B73
U+270F0	kIRG_MSource	MA-8FA8
U+27741	kIRG_MSource	MA-94C7
U+28A4C	kIRG_MSource	MD-28A4C
U+28BCC	kIRG_MSource	MD-28BCC
U+2A04F	kIRG_MSource	MD-2A04F
U+2A8CF	kIRG_MSource	MD-2A8CF
U+2A9AA	kIRG_MSource	MD-2A9AA
U+2AE1B	kIRG_MSource	MD-2AE1B
U+2B223	kIRG_MSource	MD-2B223
U+2BC3E	kIRG_MSource	MD-2BC3E
U+2BCA6	kIRG_MSource	MD-2BCA6
U+2C317	kIRG_MSource	MD-2C317
U+2F821	kIRG_MSource	MD-2F821
U+2F8DB	kIRG_MSource	MD-2F8DB
U+2F98F	kIRG_MSource	MD-2F98F
U+2F9AC	kIRG_MSource	MD-2F9AC

## L2/20-210: Request to dis-unify U+722B

**Comments:** The ad hoc discussed this document, which is a proposal to disunify U+722B ↖, and agreed that it would be the prudent thing to do after examining the evidence and arguments. Given that Macao SAR's UNC proposal, if accepted, will fill the remaining code points at the end of the URO and Extension B blocks, the ad hoc recommends that the new ideograph be appended to Extension C at code point U+2B735.

**Recommendations (Unihan-UTC165-R10):** The ad hoc recommends to the UTC the following disposition ⇒ Accept the proposal to disunify U+722B, and to encode a new CJK Unified Ideograph at the end of the Extension C block at code point U+2B735 with a *kIRG\_VSource* property value of V0-3D5B, for Unicode Version 14.0. **Assign Action Items to John Jenkins and Michel Suignard:** Update the following Unihan database records as shown below (included in the PDF attachment named *Unihan-changes-20200918.txt*), based on document L2/20-210 and Unihan-UTC165-R10 in document L2/20-235, for Unicode Version 14.0:

U+722B	kIRG_VSource	VU-0722B
U+722B	kVietnamese	trào

Add the following Unihan database records (included in the PDF attachment named *Unihan-additions-20200918.txt*), based on document L2/20-210 and Unihan-UTC165-R10 in document L2/20-235, for Unicode Version 14.0:

U+2B735	kIRG_VSource	V0-3D5B
U+2B735	kRSUnicode	4.3
U+2B735	kTotalStrokes	4
U+2B735	kVietnamese	làm

**L2/20-230: Source, glyph, and other data changes relating to IRGN2429R (IRG N2440)**

**L2/20-234: V0-Source corrections**

**Comments:** The ad hoc discussed L2/20-230, which resulted from L20/20-234 (aka IRG N2429R) that serves as a background document. The document proposes a fair number of changes to existing property values, a fair number of additional property values (almost all of which constitute a horizontal extension), and a small number property value removals. The ad hoc agreed that the only proposed changes that should not be accepted are the duplicate record for U+2941B 甌 and the alternate *kTotalStrokes* property value for U+4040 鼻, 12, whose current *kTotalStrokes* property value is 12. The ad hoc also discussed the unification of the 決 and 決 components, and concluded that the only disunified examples, U+22B6F 挾 (V2-7660) and U+2AB71 挾 (JK-65184 and V4-4923), are cognate and therefore unifiable. Lastly, the description of the “V4” prefix should be changed from “Dictionary on Nom 2006, Dictionary on Nom of Tay ethnic 2006, Lookup Table for Nom in the South 1994” to “Kho Chử Hán Nôm Mã Hoá (Hán Nôm Coded Character Repertoire), Hà Nội, 2007.”

**Recommendations (Unihan-UTC165-R11):** The ad hoc recommends to the UTC the following disposition ⇒ Accept the proposed Unihan database changes, additions, and removals except for the duplicate record for U+2941B and the proposed alternate *kTotalStrokes* property value for U+4040, along with the new description of the “V4” prefix, based on document L2/20-230 and Unihan-UTC165-R11 in document L2/20-235, for Unicode Version 14.0. **Assign an Action Item to John Jenkins and the Editorial Committee:** Include in the proposed update of UAX #38 the new description of the *kIRG\_VSource* property’s “V4” prefix: *Kho Chử Hán Nôm Mã Hoá (Hán Nôm Coded Character Repertoire), Hà Nội, 2007.* **Assign Action Items to Lee Collins:** Provide to Michel Suignard an updated font that includes the 20 representative glyph changes, based on document L2/20-230 and Unihan-UTC165-R11 in document L2/20-235, for Unicode

Version 14.0. Propose to the IRG a new UCV (*Unifiable Component Variations*) for the 決 and 決 components. **Assign Action Items to John Jenkins and Michel Suignard:** Update the following Unihan database records as shown below (included in the PDF attachment named *Unihan-v-20200918.txt*), based on document L2/20-230 and Unihan-UTC165-R11 in document L2/20-235, for Unicode Version 14.0:

U+3908	kIRG_VSource	VU-03908
U+4040	kRSUnicode	109.7 72.8
U+4080	kIRG_VSource	VU-04080
U+42BC	kIRG_VSource	V0-405A
U+4E2A	kIRG_VSource	VU-04E2A
U+563A	kIRG_VSource	V0-3270
U+572E	kIRG_VSource	VU-0572E
U+572E	kVietnamese	bĩ
U+640C	kIRG_VSource	VU-0640C
U+70B5	kIRG_VSource	V0-3C31
U+7713	kIRG_VSource	VU-07713
U+7713	kVietnamese	huyết
U+7825	kIRG_VSource	V0-3F29
U+7D2C	kIRG_VSource	V0-4060
U+8326	kIRG_VSource	VU-08326
U+8326	kVietnamese	sách
U+9BA1	kIRG_VSource	VU-09BA1
U+9BFA	kIRG_VSource	V0-482E
U+9C3F	kIRG_VSource	V0-483A
U+9DCB	kIRG_VSource	VU-9DCB
U+FA24	kIRG_VSource	V0-454E
U+204AF	kIRG_VSource	VU-204AF
U+2089D	kIRG_VSource	VU-2089D
U+20A21	kIRG_VSource	VU-20A21
U+20B99	kIRG_VSource	V0-3062
U+20C0F	kIRG_VSource	V0-3124
U+20C18	kIRG_VSource	V0-3130
U+20C1A	kIRG_VSource	V0-3131
U+20C53	kIRG_VSource	V0-3143
U+20D74	kIRG_VSource	V4-4345
U+20E4C	kIRG_VSource	V0-3259
U+20E56	kIRG_VSource	V0-3260
U+20E5A	kIRG_VSource	V0-3267
U+20E75	kIRG_VSource	V0-325E
U+20EDB	kIRG_VSource	V0-332A
U+20EE6	kIRG_VSource	V0-3278
U+20F66	kIRG_VSource	V0-3339
U+2108D	kIRG_VSource	VU-2108D
U+210A1	kIRG_VSource	V0-336D
U+2124F	kIRG_VSource	V0-342D
U+2134B	kIRG_VSource	V4-445B
U+21498	kIRG_VSource	VU-21498
U+21735	kIRG_VSource	V0-3476
U+21846	kIRG_VSource	VU-21846
U+21C78	kIRG_VSource	VU-21C78
U+225B5	kIRG_VSource	V0-3557
U+225C7	kIRG_VSource	V0-3558
U+225DA	kIRG_VSource	VU-225DA

U+225FC	kIRG_VSource	VU-225FC
U+225FE	kIRG_VSource	VU-225FE
U+2263D	kIRG_VSource	V0-3573
U+2263E	kIRG_VSource	V0-356B
U+22681	kIRG_VSource	V0-356F
U+226E8	kIRG_VSource	V0-3625
U+22740	kIRG_VSource	V0-362C
U+22746	kIRG_VSource	V0-362B
U+2283F	kIRG_VSource	V0-3651
U+228F9	kIRG_VSource	VU-228F9
U+2292B	kIRG_VSource	V0-3663
U+22A89	kIRG_VSource	V0-3721
U+22A8F	kIRG_VSource	V0-372B
U+22AEB	kIRG_VSource	V0-374D
U+22B42	kIRG_VSource	V0-3760
U+22BF0	kIRG_VSource	V0-3823
U+22C78	kIRG_VSource	V0-383E
U+22CD9	kIRG_VSource	V0-3851
U+22CDD	kIRG_VSource	V4-4952
U+22D29	kIRG_VSource	V0-3862
U+22D3E	kIRG_VSource	V0-3853
U+22D3F	kIRG_VSource	V0-3854
U+22D6E	kIRG_VSource	V0-385F
U+22DF2	kIRG_VSource	VU-22DF2
U+22E3E	kIRG_VSource	V0-392D
U+23230	kRSUnicode	72.6
U+23230	kTotalStrokes	10
U+23255	kIRG_VSource	V0-3959
U+232F1	kIRG_VSource	VU-232F1
U+23309	kIRG_VSource	VU-23309
U+23441	kIRG_VSource	V0-397B
U+2353B	kIRG_VSource	V0-3A3A
U+23543	kIRG_VSource	V0-3A41
U+23613	kIRG_VSource	V2-7973
U+237BB	kIRG_VSource	V0-3A66
U+23A27	kIRG_VSource	VU-23A27
U+24012	kIRG_VSource	V0-3B7A
U+2412F	kIRG_VSource	VU-2412F
U+242B0	kIRG_VSource	V2-7C24
U+2434E	kIRG_VSource	V0-3C53
U+2439C	kIRG_VSource	V0-3C5B
U+2439E	kIRG_VSource	V4-4D4B
U+243B6	kIRG_VSource	V4-4D3A
U+2444D	kIRG_VSource	VU-2444D
U+244E9	kIRG_VSource	V0-3C7B
U+24871	kIRG_VSource	V0-3D3F
U+24D61	kIRG_VSource	V0-3D72
U+24D62	kIRG_VSource	V0-3D73
U+24D79	kIRG_VSource	V0-3D78
U+24D92	kIRG_VSource	VU-24D92
U+24DBF	kIRG_VSource	VU-24DBF
U+24DCD	kIRG_VSource	V0-3E22
U+24DD6	kIRG_VSource	V0-3E28
U+24DFF	kIRG_VSource	V0-3E2C
U+24E6A	kIRG_VSource	V4-4E60

U+24F38	kIRG_VSource	VU-24F38
U+25135	kIRG_VSource	V0-3E4E
U+25279	kIRG_VSource	V0-3E72
U+252D5	kRSUnicode	109.11
U+252DF	kIRG_VSource	V0-3E7D
U+25E75	kIRG_VSource	V4-5048
U+25FFA	kIRG_VSource	V0-406C
U+26105	kIRG_VSource	VU-26105
U+2613C	kIRG_VSource	V4-5121
U+26349	kTotalStrokes	27
U+26690	kIRG_VSource	V4-5179
U+26744	kIRG_VSource	V0-3968
U+267A3	kIRG_VSource	V4-5233
U+267E3	kIRG_VSource	V0-4171
U+268D9	kRSUnicode	130.21
U+268D9	kTotalStrokes	25
U+26B02	kIRG_VSource	V0-422D
U+26B3B	kIRG_VSource	V0-4249
U+26C21	kIRG_VSource	V0-423D
U+26C22	kIRG_VSource	VU-26C22
U+26E30	kIRG_VSource	V0-425C
U+27134	kIRG_VSource	VU-27134
U+272C9	kIRG_VSource	V0-4323
U+2735D	kIRG_VSource	V0-4336
U+273B8	kIRG_VSource	V0-433A
U+274F0	kIRG_VSource	VU-27543
U+27640	kIRG_VSource	V0-4357
U+27D51	kIRG_VSource	V0-4440
U+27D64	kIRG_VSource	V4-5455
U+27FC6	kIRG_VSource	V0-444D
U+27FF3	kIRG_VSource	V0-4459
U+28024	kIRG_VSource	V0-445F
U+28077	kIRG_VSource	V0-4472
U+280BC	kIRG_VSource	VU-280BC
U+280CB	kRSUnicode	157.6
U+280CB	kTotalStrokes	13
U+280D3	kIRG_VSource	V0-4479
U+280DD	kIRG_VSource	V0-447E
U+28103	kIRG_VSource	V0-4526
U+28119	kIRG_VSource	V0-452A
U+288BB	kIRG_VSource	VU-288BB
U+28967	kIRG_VSource	V0-462E
U+289F0	kIRG_VSource	V0-463E
U+28A37	kIRG_VSource	V0-4644
U+28C6A	kRSUnicode	168.4
U+28C7D	kTotalStrokes	14
U+28E0D	kIRG_VSource	VU-28E0D
U+29140	kIRG_VSource	V0-4673
U+2941B	kIRG_VSource	V4-4E26
U+296B5	kIRG_VSource	V0-4739
U+29DB1	kIRG_VSource	V0-4825
U+29DF9	kIRG_VSource	V0-482B
U+29FB7	kIRG_VSource	VU-29FB7
U+2A060	kRSUnicode	196.7 196.6
U+2A060	kTotalStrokes	18 17

U+2A0CD	kIRG_VSource	V0-484D
U+2A0FF	kIRG_VSource	V0-484F
U+2A23E	kIRG_VSource	VU-2A23E
U+2A993	kIRG_VSource	V0-3521
U+2AFA4	kIRG_VSource	V0-3E50
U+2B1FF	kIRG_VSource	V0-423F
U+2BBF3	kIRG_VSource	V0-3D4F
U+2C2D9	kIRG_VSource	V0-3C77
U+2C774	kRSUnicode	140.11
U+2C774	kTotalStrokes	14
U+2C96C	kRSUnicode	154.16
U+2C96C	kTotalStrokes	23
U+2C9B3	kIRG_VSource	V0-4469

Remove the following Unihan database records (included in the PDF attachment named *Unihan-v-20200918.txt*), based on document L2/20-230 and Unihan-UTC165-R11 in document L2/20-235, for Unicode Version 14.0:

U+21846	kVietnamese	mìn
U+288BB	kVietnamese	miền

Add the following Unihan database records (included in the PDF attachment named *Unihan-v-20200918.txt*), based on document L2/20-230 and Unihan-UTC165-R11 in document L2/20-235, for Unicode Version 14.0:

U+356A	kIRG_VSource	V4-4322
U+3AE7	kIRG_VSource	V4-5044
U+3EAF	kIRG_VSource	V4-4539
U+4040	kIRG_VSource	VU-04040
U+43E0	kIRG_VSource	V0-414F
U+449E	kIRG_VSource	VU-0449E
U+44D4	kIRG_VSource	V4-5271
U+465B	kIRG_VSource	V0-4366
U+4682	kIRG_VSource	V4-545E
U+4CA8	kIRG_VSource	V0-4842
U+4E87	kIRG_VSource	VU-04E87
U+4FF0	kIRG_VSource	VU-04FF0
U+51AA	kIRG_VSource	VU-051AA
U+5812	kIRG_VSource	V4-4462
U+58B6	kIRG_VSource	VU-058B6
U+5DB4	kIRG_VSource	VU-05DB4
U+60AD	kIRG_VSource	V4-4831
U+628C	kIRG_VSource	V0-3722
U+650A	kIRG_VSource	V0-392E
U+6515	kIRG_VSource	V0-3925
U+658D	kIRG_VSource	V4-543E
U+663C	kIRG_VSource	V4-465D
U+6A92	kIRG_VSource	V4-5723
U+6C54	kIRG_VSource	V4-4C2D
U+6D23	kIRG_VSource	VU-06D23
U+6DC3	kIRG_VSource	V4-4C4B
U+704B	kIRG_VSource	VU-0704B
U+71EB	kIRG_VSource	V0-3C6F
U+7667	kIRG_VSource	V0-3E3F
U+76DC	kIRG_VSource	VU-076DC



U+76DD	kIRG_VSource	VU-076DD
U+7A32	kIRG_VSource	VU-07A32
U+7B93	kIRG_VSource	VU-07B93
U+7E58	kIRG_VSource	V4-5129
U+80CA	kIRG_VSource	VU-080CA
U+8188	kIRG_VSource	V4-5238
U+8199	kIRG_VSource	V4-523C
U+834A	kIRG_VSource	VU-0834A
U+84AD	kIRG_VSource	V4-5326
U+8846	kIRG_VSource	VU-08846
U+8874	kIRG_VSource	V0-4354
U+8C3A	kIRG_VSource	VU-08C3A
U+8CCE	kIRG_VSource	VU-08CCE
U+91BE	kIRG_VSource	VU-091BE
U+945F	kIRG_VSource	V0-465D
U+9626	kIRG_VSource	V4-4D22
U+976B	kIRG_VSource	VU-0976B
U+99B9	kIRG_VSource	V4-4A49
U+9B45	kIRG_VSource	V4-5768
U+9DAE	kIRG_VSource	V4-575E
U+9DCB	kVietnamese	đồ
U+9EB5	kIRG_VSource	V4-5673
U+9F6A	kIRG_VSource	VU-09F6A
U+9F77	kIRG_VSource	V4-583B
U+9FB1	kIRG_VSource	V4-444D
U+FA0F	kIRG_VSource	V0-3446
U+FA21	kIRG_VSource	V0-4279
U+20093	kIRG_VSource	VU-20093
U+2030A	kIRG_VSource	V4-4739
U+20C5D	kIRG_VSource	VU-20C5D
U+20C95	kIRG_VSource	V4-433B
U+2100A	kIRG_VSource	VU-2100A
U+213B4	kIRG_VSource	VU-213B4
U+21E90	kIRG_VSource	V4-4676
U+2206F	kIRG_VSource	V4-4A34
U+22695	kIRG_VSource	VU-22695
U+2272B	kIRG_VSource	V0-3632
U+2293D	kIRG_VSource	V0-3664
U+22E96	kIRG_VSource	V0-393B
U+23B52	kIRG_VSource	V4-4F24
U+23BAE	kIRG_VSource	V4-4F32
U+241CD	kIRG_VSource	VU-241CD
U+24247	kIRG_VSource	V4-4D2E
U+24478	kIRG_VSource	V0-3C78
U+245A9	kIRG_VSource	VU-245A9
U+257A4	kIRG_VSource	VU-257A4
U+25AF9	kIRG_VSource	VU-25AF9
U+262C2	kIRG_VSource	V4-4F33
U+2637A	kIRG_VSource	VU-2637A
U+267B9	kIRG_VSource	V4-5236
U+267DF	kIRG_VSource	V4-4A76
U+26C9E	kIRG_VSource	V4-5279
U+27543	kIRG_VSource	V0-4350
U+2762A	kIRG_VSource	V4-5421
U+279F8	kIRG_VSource	VU-279F8

U+281D8	kIRG_VSource	V0-4546
U+285E0	kIRG_VSource	V4-565D
U+291DB	kIRG_VSource	V4-566D
U+29573	kIRG_VSource	V4-567C
U+29CB5	kIRG_VSource	V4-5769
U+2A060	kIRG_VSource	VU-2A060
U+2A41D	kIRG_VSource	VU-2A41D
U+2A62C	kIRG_VSource	V4-5839
U+2A927	kIRG_VSource	VU-2A927
U+2A993	kVietnamese	mìn
U+2AB86	kIRG_VSource	VU-2AB86
U+2AFF4	kIRG_VSource	VU-2AFF4
U+2B1FF	kVietnamese	thuốc
U+2B64F	kIRG_VSource	VU-2B64F
U+2B826	kIRG_VSource	VU-2B826
U+2BADC	kIRG_VSource	V4-4368
U+2CA28	kIRG_VSource	VU-2CA28
U+2CFEA	kIRG_VSource	VU-2CFEA
U+2D1BA	kIRG_VSource	V4-427E
U+2D1DB	kIRG_VSource	VU-2D1DB
U+2D246	kIRG_VSource	V4-434F
U+2D251	kIRG_VSource	V4-4356
U+2D269	kIRG_VSource	V4-435D
U+2D277	kIRG_VSource	V4-4359
U+2D2D9	kIRG_VSource	V4-4428
U+2D58C	kIRG_VSource	V4-4675
U+2D8A5	kIRG_VSource	V4-495A
U+2D8C4	kIRG_VSource	VU-2D8C4
U+2E061	kIRG_VSource	VU-2E061
U+2E229	kIRG_VSource	VU-2E229
U+2EA36	kIRG_VSource	VU-2EA36
U+2EAED	kIRG_VSource	VU-2EAED
U+2EB29	kIRG_VSource	V0-363D
U+30001	kIRG_VSource	V-F0278
U+30021	kIRG_VSource	V-F00E3
U+30022	kIRG_VSource	V-F1F1B
U+30082	kIRG_VSource	V-F1DC8
U+301EE	kIRG_VSource	V4-4331
U+301F3	kIRG_VSource	V-F1728
U+301F5	kIRG_VSource	V-F1741
U+301FC	kIRG_VSource	V4-433E
U+30202	kIRG_VSource	V-F00B1
U+3020F	kIRG_VSource	V-F00A1
U+30223	kIRG_VSource	V-F00B2
U+30228	kIRG_VSource	V-F16D7
U+3023C	kIRG_VSource	V-F1E96
U+302A3	kIRG_VSource	V-F1E1C
U+302DD	kIRG_VSource	V-F011F
U+30389	kIRG_VSource	V-F0CB8
U+3039F	kIRG_VSource	V-F08E3
U+303B9	kIRG_VSource	V-F0CB1
U+30401	kIRG_VSource	V-F018C
U+30473	kIRG_VSource	V-F01C3
U+304BC	kIRG_VSource	V-F0744
U+304D6	kIRG_VSource	V-F18A7

U+30510	kIRG_VSource	V4-495D
U+30523	kIRG_VSource	V-F2097
U+3052B	kIRG_VSource	V-F08B8
U+3053A	kIRG_VSource	V-F023C
U+3054A	kIRG_VSource	VU-3054A
U+305C9	kIRG_VSource	V-F1D5B
U+3061D	kIRG_VSource	V-F02A5
U+30654	kIRG_VSource	V-F07BB
U+306FA	kIRG_VSource	V-F02CE
U+306FB	kIRG_VSource	V4-4C38
U+30708	kIRG_VSource	V-F1FBE
U+30745	kIRG_VSource	V-F19BB
U+3075C	kIRG_VSource	VU-3075C
U+3077A	kIRG_VSource	V-F0309
U+30783	kIRG_VSource	V-F19FC
U+307A9	kIRG_VSource	VU-307A9
U+3081E	kIRG_VSource	V-F1A14
U+3085A	kIRG_VSource	V4-4D6F
U+3085C	kIRG_VSource	V-F034A
U+309AB	kIRG_VSource	V-F03C0
U+309C0	kIRG_VSource	V-F1E39
U+309C4	kIRG_VSource	V-F03C3
U+30A02	kIRG_VSource	V-F03E0
U+30A25	kIRG_VSource	V-F03EA
U+30A72	kIRG_VSource	V-F0402
U+30A75	kIRG_VSource	V-F0401
U+30A9E	kIRG_VSource	V-F15FC
U+30ABE	kIRG_VSource	V-F1AB5
U+30AD5	kIRG_VSource	V-F0437
U+30AF2	kIRG_VSource	V-F1ABD
U+30AF7	kIRG_VSource	V-F076D
U+30B42	kIRG_VSource	V-F0472
U+30B79	kIRG_VSource	V-F0492
U+30B92	kIRG_VSource	V-F195C
U+30BB3	kIRG_VSource	V-F07DA
U+30BE1	kIRG_VSource	V-F194F
U+30C1D	kIRG_VSource	V-F1F48
U+30CB2	kIRG_VSource	V-F1D82
U+30CBE	kIRG_VSource	V-F08FA
U+30CD9	kIRG_VSource	V-F1B40
U+30D02	kIRG_VSource	V4-5429
U+30E11	kIRG_VSource	V-F162A
U+30E23	kIRG_VSource	V-F0582
U+30EA5	kIRG_VSource	V-F097B
U+30F24	kIRG_VSource	V-F203B
U+30F45	kIRG_VSource	V-F2086
U+30FD8	kIRG_VSource	V-F05FE
U+310A8	kIRG_VSource	V-F0624
U+310E8	kIRG_VSource	V-F1CB4
U+311A7	kIRG_VSource	V-F065A
U+311B2	kIRG_VSource	V-F2087
U+311B4	kIRG_VSource	V-F2001
U+31258	kIRG_VSource	V-F206C
U+3132E	kIRG_VSource	V-F06C4

## L2/20-231: Proposal to change the *kMandarin* value for U+2B413 and the *kXHC1983* values for U+2B413 and U+2B5E6

**Comments:** The ad hoc discussed this document, and agreed that the *kMandarin* and *kXHC1983* property values for U+2B413 𪗇 should be changed as proposed, and that a *kXHC1983* property value for U+2B5E6 𪗈 be added as proposed. The ad hoc also noted that the proposed *kMandarin* property value change for U+2B413 𪗇 will need to be checked by the CLDR-TC before it can be accepted.

**Recommendations (Unihan-UTC165-R12):** The ad hoc recommends to the UTC the following disposition ⇨ Accept the changes and additions to the *kXHC1983* property, based on document L2/20-231 and Unihan-UTC165-R12 in document L2/20-235, for Unicode Version 14.0. **Assign an Action Item Peter Edberg:** Ask the CLDR-TC to check the proposed *kMandarin* property value for U+2B413 𪗇 then report back to the UTC. See document L2/20-231. **Assign Action Items to John Jenkins:** Update the following Unihan database record as shown below (included in the PDF attachment named *Unihan-changes-20200918.txt*), based on document L2/20-231 and Unihan-UTC165-R12 in document L2/20-235, for Unicode Version 14.0:

U+2B413      *kXHC1983*                      0970.060:róu

Add the following Unihan database record (included in the PDF attachment named *Unihan-additions-20200918.txt*), based on document L2/20-231 and Unihan-UTC165-R12 in document L2/20-235, for Unicode Version 14.0:

U+2B5E6      *kXHC1983*                      0087.070:bù

## 5) Other Unihan-related Documents

### L2/20-232: Proposal to Encode 9 Additional Kanbun Marks

**Comments:** The ad hoc agreed that accepting additional Kanbun characters as proposed in this document has merit, and that sufficient evidence was provided, but what wasn't clear was whether to display the characters in the code charts at reduced size, as can be seen in the current *Kanbun* block, or to follow current Japanese type industry practice of using full-size glyphs as shown as Option B at the bottom of page 4 of L2/19-386 with the expectation that implementations shrink the glyphs to the appropriate size and position them accordingly, per Section 5 of the JIS X 4051:2004 standard, which spans 11 pages. In addition, because the *Kanbun* block is completely full, a new block would need to be established. The ad hoc agreed that *Kanbun Extended* would be an appropriate block name, and that 16 code points is sufficient (the proposal requested 32 code points). The ad hoc recommends 16FB0..16FBF as the block with the following code point assignments:

U+16FB0      IDEOGRAPHIC ANNOTATION FIVE MARK  
U+16FB1      IDEOGRAPHIC ANNOTATION SIX MARK  
U+16FB2      IDEOGRAPHIC ANNOTATION SEVEN MARK  
U+16FB3      IDEOGRAPHIC ANNOTATION EIGHT MARK  
U+16FB4      IDEOGRAPHIC ANNOTATION NINE MARK  
U+16FB6      IDEOGRAPHIC ANNOTATION CREATIVE HEAVEN MARK  
U+16FB7      IDEOGRAPHIC ANNOTATION RECEPTIVE EARTH MARK

U+16FB8 IDEOGRAPHIC ANNOTATION FIFTH MARK  
U+16FB9 IDEOGRAPHIC ANNOTATION SIXTH MARK

Lastly, while the ad hoc agrees that compatibility decompositions are not required, cross references to equivalent CJK Unified Ideographs would be helpful:

Character Name	Cross Reference
IDEOGRAPHIC ANNOTATION FIVE MARK	U+4E94 五
IDEOGRAPHIC ANNOTATION SIX MARK	U+516D 六
IDEOGRAPHIC ANNOTATION SEVEN MARK	U+4E03 七
IDEOGRAPHIC ANNOTATION EIGHT MARK	U+516B 八
IDEOGRAPHIC ANNOTATION NINE MARK	U+4E5D 九
IDEOGRAPHIC ANNOTATION CREATIVE HEAVEN MARK	U+4E7E 乾
IDEOGRAPHIC ANNOTATION RECEPTIVE EARTH MARK	U+5764 坤
IDEOGRAPHIC ANNOTATION FIFTH MARK	U+620A 戊
IDEOGRAPHIC ANNOTATION SIXTH MARK	U+5DF1 己

**Recommendations (Unihan-UTC165-R13):** The ad hoc recommends to the UTC the following disposition ⇨ Accept nine Kanbun characters in a new block “Kanbun Extended,” 16FB0..16FBF with names and properties as provided in L2/20-232, and with code points and cross references to CJK Unified Ideographs as provided in L2/20-235, based on Unihan-UTC165-R13 in document L2/20-235, for encoding in a future version of the standard. Discuss the representative glyph size issue as it affects the existing “Kanbun” block and the new “Kanbun Extended” block.

**Action Item for Ken Whistler:** Add nine Kanbun characters to the pipeline. See documents L2/20-232 and Unihan-UTC165-R13 in document L2/20-235. **Action Item for Ken Lunde:** Provide to Michel Suignard a font that includes glyphs for the nine Kanbun characters. See document L2/20-232 and Unihan-UTC165-R13 in document L2/20-235.

## 6) Other Unihan-related Topics

The UTC established a formal liaison relationship with [CESI](#) (*Chinese Electronics Standardization Institute* or 中国电子技术标准化研究院 in Chinese) in July. Ken Lunde serves as UTC’s liaison, and CHEN Zhuang (陈壮) serves as CESI’s liaison.

The UTC is in the process of establishing a formal liaison relationship with [CITPC](#) (*Character Information Technology & Promotion Council* or 文字情報技術促進協議会 in Japanese). Ken Lunde will serve as UTC’s liaison, and Taro YAMAMOTO (山本太郎) will serve as CITPC’s liaison.

CITPC, which recently took ownership of the [Moji Jōhō Kiban Database](#) and the *Moji\_Joho* IVD Collection, has tentatively granted to the UTC permission to use the Moji Jōhō Kiban Database to 1) establish the *kMojiJoho* property as proposed in [L2/20-146](#); and 2) improve and expand the existing the *kMorohashi* property. Formal permission, which will effectively bypass the [CC BY-SA 2.1 JP](#) license, is expected to be received shortly after UTC #165. Ken Lunde plans to

revise L2/20-146 for UTC #166, along with preparing a new proposal for improving and expanding the existing *kMorohashi* property that is expected to cover approximately 30,000 additional CJK Unified Ideographs.

## 7) IRG-related Topics

The IRG plans to update IRG Working Set 2017 to Version 5.2 by early December according to the following schedule:

2020-09-25: IRG Editors submit comments via the online review tool

2020-10-16: IRG Submitters respond via the online review tool

2020-10-23: The IRG Online Review Tool Manager releases comments and their responses

2020-12-04: The IRG Chief Editor submits modified attributes to the UCS Project Editor and the IRG Online Review Tool Manager

2020-12-04: IRG Submitters submit updated TTFs and BMPs

The UCS Project Editor and the IRG Online Review Tool Manager will then generate Extension H code charts and IRG Working Set 2017 Version 5.2.

IRG member bodies have been tasked to review IRG Working Set 2017 Version 5.1 according to the following Kangxi radical ranges:

001 (一) through 060 (彳): Japan & SAT

061 (心) through 094 (犬): ROK & UK

095 (玄) through 140 (艸): TCA & UTC

141 (虍) through 214 (龠): China & Vietnam

That is all.