

Universal Multiple-Octet Coded Character Set International Organization for Standardization

Doc Type: Working Group Document

Title: Proposal to add twenty-one CJK Unified Ideographs to the UCS

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Status: Member Body Contribution

Action: For consideration by JTC1/SC2/WG2 and UTC

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Background

The twenty-one Adobe-Japan1-6 kanji in this proposal represent those characters that we feel cannot be unified with existing CJK Unified Ideographs, either because their forms make it obvious that unification is not possible, or it is not obvious whether unification is possible. One function of this proposal is for it to eventually make its way to the IRG so that multiple experts in this field can make a final determination as to which of these twenty-one kanji should be separate characters, and which should be unified with an existing CJK Unified Ideograph.

The Adobe-Japan1-6 character collection is defined in Adobe Tech Note #5078, available from Adobe Systems. It enumerates 23,058 glyphs, specifically CIDs 0 through 23057.

Proposal Details

This section lists all twenty-one kanji, along with multiple references, to include a representative glyph image and the closest related CJK Unified Ideograph. The representative glyph is from the Adobe-Japan1-6 character collection, and the typeface design is Kozuka Mincho Regular.

If a proposed kanji is determined to fall within the scope of Annex S, in terms of its ability to be unified with an existing CJK Unified Ideograph, then a corresponding IVS (Ideographic Variation Sequence) shall be registered whereby the existing CJK Unified Ideograph with which it is unified shall serve as the Base Character of the IVS.

Glyph Images & Parent Forms

The following table provides the glyph images for the twenty-one Adobe-Japan1-6 kanji that are being proposed, along with the CJK Unified Ideograph that represents their parents forms:

Adobe-Japan1-6 CID	Glyph Image	Parent Forms	Parent Form Glyph Images	Parent Form CIDs
13763	互	U+5DE5	工	1979
13782	座	U+5EA7	座	2098
13866	勢	U+52E2	勢	2638
14174	簞	U+7C11 U+7C14	簞 簞	6003 6004

Adobe-Japan1-6 CID	Glyph Image	Parent Forms	Parent Form Glyph Images	Parent Form CIDs
14278	齧	U+9F63	齧	7460
20088	𪗇	U+5354	協	1696
20096	𪗈	U+56C0	𪗈	14116
20097	𪗉	U+56C3	𪗉	4453
20125	𪗊	U+64A5	撥	5026
20141	𪗋	U+66DC	曜	3893
20149	𪗌	U+6A05	樅	5283
20153	殲	U+6BB1 U+6BB2	殲 殲	5363 5362
20156	涼	U+6DBC	涼	3979
20176	瘞	U+75D9	瘞	5746
20180	盈	U+76C8	盈	1264
20194	𪗍	U+8077	職	2540
20204	葉	U+8449	葉	3903
20240	鎬	U+943A	鎬	7041
20247	𪗎	U+990A	養	3910
20256	𪗏	U+9C75	𪗏	19066
20260	𪗐	U+9E78 U+9E7C	𪗐 𪗐	1896 7677

Ideographic Description Sequences

The following table provides the Ideographic Description Sequences (IDSes) for each of these twenty-one Adobe-Japan1-6 kanji, along with each component of the IDSes represented using the “U+xxxx” notation. The first column also provides radical and stroke information in parentheses, in the form of indexing radical number (1 through 214), the number of strokes in the indexing radical instance, and the number of remaining strokes.

Adobe-Japan1-6 CID	IDS	IDS (“U+xxxx” Notation)
13763 (48.3.0)	𪗐 一 𠃉 一	U+2FF3 U+4E00 U+200D1 U+4E00
13782 (53.3.8)	𪗐 广 𠃉 𠃉 口 又 土	U+2FF8 U+5E7F U+2FF1 U+2FF0 U+53E3 U+53C8 U+571F

Adobe-Japan1-6 CID	IDS	IDS (“U+xxxx” Notation)
13866 (19.2.11)	𠄎 𠄏 幸丸力	U+2FF1 U+2FF0 U+5E78 U+4E38 U+529B
14174 (118.6.9)	𠄎 竹 𠄑 𠄒 衣	U+2FF1 U+7AF9 U+2FF1 U+2000E U+27607
14278 (211.12.5)	𠄎 齒 句	U+2FF0 U+6B6F U+53E5
20088 (24.2.6)	𠄎 十 𠄑 力 𠄒 𠄓 𠄔 𠄕	U+2FF0 U+5341 U+2FF1 U+529B U+2FF0 U+51AB U+21FE8
20096 (30.3.11)	𠄎 口 𠄑 𠄒	U+2FF0 U+53E3 U+8EE2
20097 (30.3.14)	𠄎 口 雜	U+2FF0 U+53E3 U+96D1
20125 (64.3.9)	𠄎 才 𠄑 𠄒	U+2FF0 U+624C U+767A
20141 (72.4.5; 96.5.4)	𠄎 日 玉	U+2FF0 U+65E5 U+7389
20149 (75.4.10)	𠄎 木 從	U+2FF0 U+6728 U+5F93
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Some of these references include additional information, such as related characters, readings, indexing radicals, and number of total or remaining strokes.

CID+13763 References

Morisawa DTC glyph code: 10002

JIS水準				
区点				
補助区点				
DTC	10002			
PS分類	拡張			
PName	Gajj4/c51			
M2/印/補	/	/		
拡張備考				

異体字

“Kanji Koza” Volume 3, Page 336:

(工)

工マ

互

Sha-ken, Plate C, Glyph 562: No glyph image available

CID+13782 References

Morisawa DTC glyph code: 10148

JIS水準				
区点				
補助区点				
DTC	10148			
PS分類	拡張			
PName	Gajj4/c5B			
M2/印/補	/	/		
拡張備考				

俗字

異体字

Hitachi KEIS code point: 0x5EBC

文字	文字	部首	画数	読み	カタカナ…音読み	管理	親字
座	5EBC	广 53	11	ザ	ひらがな…訓読み	番号1	符号
					すわる	A3AA	

NEC code point: 0xBAA5

11 座 BAA5 ザ/すわる/ざ/くら/います

Book on variant forms published by Teihan, Page 77:

广

部

座

座

Dictionary on variant forms published by Nichigai Associates, Page 78, Entry 1061:

1061【座】 广 7 (10) (D3A42 ©8DC0 ©2634)
 ザ, すわる, くら, います

座 (11) = 俗字

CID+13866 References

Book on variant forms published by Teihan, Page 75:

勢
—
勢

CID+14174 References

NEC code point: 0xCCD4

15 簣 CCD4 サ/サイ/みの

Book on variant forms published by Teihan, Page 52:

簣
—
簣
簣
簣
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簣
簣

CID+14278 References

Morisawa DTC glyph code: 10219

JIS水準
区点
補助区点
DTC
PS分類
PSname
M2/印/補
拡張備考

10219
拡張
Gali9/c76

齒

異体字

齒

3255
83.81
2
83

Asahi Shimbun glyph image:

齒

Sha-ken, Plate C, Glyph 654: No glyph image available

CID+20088 References

“Kanji Koza” Volume 3, Page 211:

𪗇
𪗈

Sha-ken, Plate C, Glyph 735: No glyph image available

CID+20096 References

Morisawa DTC glyph code: 5722

JIS水準
区点
補助区点
DTC 5722
PS分類 拡張
PSname Gajit7/c30
M2/印/補 22B7 / /
拡張備考

𪗉

異体字

𪗊 𪗋

70024 2611
51.83 51.83*
2
83

Morisawa MOR-CODE 2 code point: 0x22B7

22B7
𪗉

Asahi Shimbun glyph image:

𪗉

Sha-ken, Plate C, Glyph 642: No glyph image available

CID+20097 References

Morisawa DTC glyph code: 5720

JIS水準
区点
補助区点
DTC 5720
PS分類 拡張
PSname Gajit7/c2E
M2/印/補 22B3 / /
拡張備考

𪗌

異体字

𪗍

2597
51.82
2
83

Morisawa MOR-CODE 2 code point: 0x22B3

22B3
𪗌

Asahi Shimbun glyph image:

𪗌

Sha-ken, Plate C, Glyph 638: No glyph image available

CID+20125 References

Morisawa DTC glyph code: 5726

JIS水準		異体字	
区点			
補助区点			
DTC	5726		
PS分類	拡張		
PSname	Gajj7/c56		
M2/印/補	22CD /		
拡張備考			

Morisawa MOR-CODE 2 code point: 0x22CD

Asahi Shimbun glyph image:

Sha-ken, Plate C, Glyph 760: No glyph image available

CID+20141 References

Morisawa DTC glyph code: 5599

JIS水準		異体字	旧字
区点			
補助区点			
DTC	5599		
PS分類	拡張		
PSname	Gajj6/c5C		
M2/印/補	23BB /		
拡張備考			

Morisawa MOR-CODE 2 code point: 0x23BB

Hitachi KEIS code point: 0x60C1

文字	文字	部首	画数	読み	カタカナ…音読み	管理	親字
旺	符号	日	72	9	ヨウ	番号1	符号
	60C1					AC04	

Enfour Media code point: 0xF7EB

F7EB | 旺 | 「曜」の略字 | よう

“Kanji Koza” Volume 3, Page 211

Sha-ken, Plate C, Glyph 688: No glyph image available

CID+20149 References

Morisawa DTC glyph code: 5760

JIS水準				
区点				
補助区点				
DTC	5760			
PS分類	拡張			
PSname	Galji7/c64			
M2/印/補	23D8 / /			
拡張備考				

異体字

縦 縦

Morisawa MOR-CODE 2 code point: 0x23D8

23D8
縦

Asahi Shimbun glyph image:
縦

Sha-ken, Plate C, Glyph 717: No glyph image available

CID+20153 References

Morisawa DTC glyph code: 5703

JIS水準				
区点				
補助区点				
DTC	5703			
PS分類	拡張			
PSname	Galji7/c69			
M2/印/補	21D8 / /			
拡張備考				

略字

異体字

殲 殲 殲

Morisawa MOR-CODE 2 code point: 0x21D8

21D8
殲

Asahi Shimbun glyph image:
殲

Sha-ken, Plate C, Glyph 604: No glyph image available

CID+20156 References

“Kanji Koza” Volume 3, Page 340

涼 リョウ

涼

Sha-ken, Plate C, Glyph 700: No glyph image available

CID+20176 References

Morisawa DTC glyph code: 10150

JIS水準		異体字	
区点		瘡	瘡
補助区点			
DTC	10150		
PS分類	拡張		
PSname	GaJi8/c2A		
M2/印/補	/		
拡張備考			

3864
65,59
2
83

NEC code point: 0xC5C0

10 瘡 C5C0 ケイ/ひきつる

Asahi Shimbun glyph image:

瘡

Sha-ken, Plate A, Glyph 5344

図5344 瘡 外字A

CID+20180 References

Hitachi KEIS code point: 0x65D7

文字	文字 符号	部首	画 数	読み	カタカナ…音読み ひらがな…訓読み	管理 番号1	親字 符号	親字 符号
盈	65D7	皿 108	8	エイ	みちる	A913	盈	B1CE

Book on variant forms published by Teihan, Page 51

皿
部

盈

盈

盈

Sha-ken, Plate B, Glyph 7433

図7433 盈 外字B

CID+20194 References

Morisawa DTC glyph code: 10022

JIS水準		異体字	俗字	俗字
区点		𪛗	職	𪛘
補助区点			𪛙	𪛚
DTC	10022			
PS分類	拡張			
PSname	Gali5/c25			
M2/印/補	/			
拡張備考	/			

“Kanji Koza” Volume 3, Page 211

Sha-ken, Plate A, Glyph 4618

𪛗4618 𪛗 外字A

𪛗
𪛘
𪛙
𪛚

CID+20204 References

Sha-ken, Plate C, Glyph 672: No glyph image available

CID+20240 References

NEC code point: 0xD1E8

14 𪛛 D1E8 トウ/ソウ/なべ/こじり/こて

Enfour Media code point: 0xF7B4

F7B4 | 𪛛 | 「鑪」の略字

Sha-ken, Plate C, Glyph 728: No glyph image available

CID+20247 References

Sha-ken, Plate C, Glyph 578: No glyph image available

CID+20256 References

“Kokuji Dictionary,” Page 155:

鯨

【さより】 𩺰「サカナの雑学」
 「解説」「細魚(さより)」と同じ。漢名で針魚
 とも言うところから、「針と魚」を合字したもの
 か。

Sha-ken, Plate C, Glyph 598: No glyph image available

CID+20260 References

Morisawa DTS glyph code: 10131

JIS水準
 区点
 補助区点
 DTC
 PS分類
 PSname
 M2/印/補
 拡張備考

10131
 拡張
 Gajj4/c4D

略字

𩺰

異体字

略字

𩺰 𩺰 碱

俗字

5709	965	50314
24.20	76.59	47.92
1	補助	補助
83	78	

Sha-ken, Plate A, Glyph 5291

𩺰5291 𩺰

外字A

Administrative

1. Title: **Proposal to add twenty-one CJK Unified Ideographs to the UCS**
2. Requester's name: **Ken Lunde, Adobe Systems Incorporated**
3. Requester type: **Member body**
4. Submission date: **2007-09-28**
5. Requester's reference (if applicable): **N/A**
6. Choose one of the following:
 - 6a. This is a complete proposal: **Yes**
 - 6b. More information will be provided later: **No**

Technical—General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters): **No**

1b. Proposed name of script: **N/A**

1c. The proposal is for addition of character(s) to an existing block: **Yes**

1d. Name of the existing block: **CJK Unified Ideographs**

2. Number of characters in proposal: **21**

3. Proposed category: **B.1-Specialized (small collection)**

4a. Is a repertoire including character names provided? **Yes**

4b. If YES, are the names in accordance with the “character naming guidelines” in Annex L of P&P document? **N/A**

4c. Are the character shapes attached in a legible form suitable for review? **Yes**

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard? **Ken Lunde (lunde@adobe.com), Adobe Systems Incorporated**

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used: **KozMinPr6N-Regular.otf, AFDKO tools**

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? **Yes**

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached? **No**

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)? **No**

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

Technical—Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain. **No**

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? **Yes**

2b. If YES, with whom? **John Knightley, Taichi Kawabata & Toshiya Suzuki**

2c. If YES, available relevant documents: **PRI 98 & PRI 108**

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included? **Anyone who uses Japanese fonts based on the Adobe-Japan1-4 character collection or greater**

4a. The context of use for the proposed characters (type of use; common or rare): **Relatively rare**

4b. Reference: **N/A**

- 5a. Are the proposed characters in current use by the user community? **Yes**
- 5b. If YES, where? **Potentially any documents created by Japanese fonts based on the Adobe-Japan1-1 character collection or greater**
- 6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP? **No**
- 6b. If YES, is a rationale provided? **N/A**
- 6c. If YES, reference: **N/A**
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)? **No**
- 8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence? **No**
- 8b. If YES, is a rationale for its inclusion provided? **N/A**
- 8c. If YES, reference: **N/A**
- 9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? **No**
- 9b. If YES, is a rationale for its inclusion provided? **N/A**
- 9c. If YES, reference: **N/A**
- 10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character? **Yes**
- 10b. If YES, is a rationale for its inclusion provided? **Yes**
- 10c. If YES, reference: **See document**
- 11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)? **No**
- 11b. If YES, is a rationale for such use provided? **N/A**
- 11c. If YES, reference: **N/A**
- 11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? **N/A**
- 11e. If YES, reference: **N/A**
- 12a. Does the proposal contain characters with any special properties such as control function or similar semantics? **No**
- 12b. If YES, describe in detail (include attachment if necessary): **N/A**
- 13a. Does the proposal contain any Ideographic compatibility character(s)? **No**
- 13b. If YES, is the equivalent corresponding unified ideographic character(s) identified? **N/A**