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Internationalized Domain Names for Applications 2008 (IDNA2008) and
Unicode 17.0.0
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Abstract

This document describes the changes between Unicode 12.0.0 and Unicode 17.0.0 in the context of IDNA2008. Some additions and changes have been made in the Unicode Standard that affect the values produced by the algorithm IDNA2008 specifies. The review assigns the derived property value "UNDER REVIEW" to certain code points. This is added as exceptions to the algorithm for IDNA2008 that allows adding exceptions to the algorithm for backward compatibility exceptions. This document provides the necessary tables to IANA to make its database consistent with Unicode 17.0.0.

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1. Introduction

The current version of Internationalized Domain Names for Applications (IDNA) was initiated in 2008, and despite not being completed until 2010, is widely known as "IDNA2008". It is specified in the series of documents listed in Section 2. The IDNA2008 standard includes an algorithm by which a derived property value is calculated based on the properties defined from the Unicode Standard.

The derived property values that can be calculated are defined in RFC 5892 [RFC5892]. Below is a summary to aid in the reading of this document. For definition of the terms, please see RFC 5892 [RFC5892].

- * **PROTOCOL VALID:** Those that are allowed to be used in IDNs. Code points with this property value are permitted for general use in IDNs. However, that a label consists only of code points that have this property value does not imply that the label can be used in DNS. The abbreviated term PVALID is used to refer to this value.
- * **CONTEXTUAL RULE REQUIRED:** Some characteristics of the character, such as it being invisible in certain contexts or problematic in others, require that it not be used in labels unless specific

other characters or properties are present. The abbreviated term CONTEXT is used to refer to this value. As explained in RFC 5892 [RFC5892] CONTEXT is in turn divided into CONTEXTJ and CONTEXTO.

- * **DISALLOWED:** Those that should clearly not be included in IDNs. Code points with this property value are not permitted in IDNs.
- * **UNASSIGNED:** Those code points that are not designated (i.e., are unassigned) in the Unicode Standard.

In section 3, "The Review Model", of RFC 8753 [RFC8753] it is clarified that the review can be made in two steps, where the first is an algorithmic based review, and the second is a manual review of specific code points. This document adds the temporary value "UNDER REVIEW" as exceptions for certain code points as a way to speed up review of new Unicode versions.

2. IDNA2008 Documents

IDNA2008 consists of the following documents. The documents in the set have informal names.

- * **Internationalized Domain Names for Applications (IDNA):** Definitions and Document Framework [RFC5890], informally called "Defs" or "Definitions", contains definitions and other material that are needed for understanding other documents in the set.
- * **Internationalized Domain Names in Applications (IDNA):** Protocol [RFC5891], informally called "Protocol", describes the core IDNA2008 protocol and its operations. It needs to be interpreted in combination with the Bidi document (described below).
- * **The Unicode Code Points and Internationalized Domain Names for Applications (IDNA)** [RFC5892], informally called "Tables", lists the categories and rules that identify the code points allowed in a label written in native character form (called a "U-label"), and is based on Unicode 5.2.0 [Unicode-5.2.0] code point assignments and additional rules unique to IDNA2008. The Unicode-based rules in RFC 5892 are expected to be stable across Unicode updates and hence independent of Unicode versions. RFC 5892 [RFC5892] obsoletes RFC 3491 [RFC3491], and in particular the use of the tables to which RFC 3491 [RFC3491] refers.
- * **Right-to-Left Scripts for Internationalized Domain Names for Applications (IDNA)** [RFC5893], informally called "Bidi", specifies special rules for labels that contain characters that are written from right to left.

- * Internationalized Domain Names for Applications (IDNA): Background, Explanation, and Rationale [RFC5894], informally called "Rationale", provides an overview of the protocol and associated tables, and gives explanatory material and some rationale for the decisions that led to IDNA2008. It also contains advice for DNS registry operators and others who use Internationalized Domain Names (IDNs).
- * Mapping Characters for Internationalized Domain Names in Applications (IDNA) 2008 [RFC5895], informally called "Mapping", discusses the issue of mapping characters into other characters and provides guidance for doing so when that is appropriate. RFC 5895 provides advice only and is not a required part of IDNA.

3. Algorithmic review

21906 code points have changed its derived property value between Unicode 12.0.0 and Unicode 17.0.0. All of these code points that changed had in 12.0.0 derived property value UNASSIGNED. 20235 of these 21906 code points have in 17.0.0 derived property value PVALID. 1671 of these 21906 code points have in 17.0.0 derived property value DISALLOWED. See Appendix A for a summary of changes of derived property value.

Three (3) code points with derived property value PVALID had its general category changed. Two of them have changed their general category from Mn to Mc. See Appendix B.

The number of code points with general category Mn (Non-Spacing-Mark) increased from 1826 to 2063, an increase of 237. Those 237 include two that no longer have general category Mn (see Appendix B, they changed from Mn to Mc) and in total 239 code points that are added. The 239 code points can be found in Appendix C.

No code points have changed the NFK normalization.

21 code points that are added have NFK normalization where $\text{NFK}(\text{cp}) \neq \text{cp}$. See Appendix D.

The conclusion is that code points should be manually inspected (have derived property value UNDER REVIEW) where the derived property value has changed to from UNASSIGNED that either:

- * Has general category Non-Spacing-Mark, see Appendix C, 239 code points.
- * Has a normalization form NFK where $\text{NFK}(\text{cp}) \neq \text{cp}$, see Appendix D, 21 code points.

In total, this leaves 260 code points with according to original IDNA2008 algorithm should get derived property value PVALID that are recommended for manual inspection, and because of that be registered as "UNDER REVIEW" in the IANA tables according to Section 3.2 in RFC8753. See Appendix E.

The rest of the code points in Unicode 17.0.0 are suggested to be accepted given the derived property value they are given using the IDNA 2008 algorithm as defined in RFC5892 and RFC9233.

See appendix F for the full list of derived property values for Unicode 17.0.0.

4. Update to the IDNA2008 algorithm

To stay up to date with the IDNA2008 algorithm, it is recommended to add the codepoints in Appendix E to the step Exceptions (F), with the derived property value "UNDER REVIEW".

As long as the derived property value is "UNDER REVIEW" it is recommended to treat the code point as "DISALLOWED" when creating strings, and "PVALID" when receiving strings.

5. IANA Considerations

This document includes instructions to IANA to assign the derived property value "UNDER REVIEW" to the code points in Appendix E.

Other code points are to follow the original algorithm in IDNA2008.

6. Security Considerations

There are code points that are added that are compositions of a number of other code points. If the same character can be rendered in multiple ways, that implies equality might not be what the user expects. Specifically when comparing a lookup string with data that is stored far back in history.

It might also be the case that various code points are invisible when being rendered, specifically in combination of other code points, and because of this two rendered strings might look the same even if the strings are different.

Because of this, it is recommended to be extremely conservative when choosing what code points are allowed in strings, specifically strings that can be protocol identifiers, passwords or part of those.

7. References

7.1. Normative References

- [RFC3491] Hoffman, P. and M. Blanchet, "Nameprep: A Stringprep Profile for Internationalized Domain Names (IDN)", RFC 3491, DOI 10.17487/RFC3491, March 2003, <<https://www.rfc-editor.org/info/rfc3491>>.
- [RFC5890] Klensin, J., "Internationalized Domain Names for Applications (IDNA): Definitions and Document Framework", RFC 5890, DOI 10.17487/RFC5890, August 2010, <<https://www.rfc-editor.org/info/rfc5890>>.
- [RFC5891] Klensin, J., "Internationalized Domain Names in Applications (IDNA): Protocol", RFC 5891, DOI 10.17487/RFC5891, August 2010, <<https://www.rfc-editor.org/info/rfc5891>>.
- [RFC5892] Faltstrom, P., Ed., "The Unicode Code Points and Internationalized Domain Names for Applications (IDNA)", RFC 5892, DOI 10.17487/RFC5892, August 2010, <<https://www.rfc-editor.org/info/rfc5892>>.
- [RFC5893] Alvestrand, H., Ed. and C. Karp, "Right-to-Left Scripts for Internationalized Domain Names for Applications (IDNA)", RFC 5893, DOI 10.17487/RFC5893, August 2010, <<https://www.rfc-editor.org/info/rfc5893>>.
- [RFC5894] Klensin, J., "Internationalized Domain Names for Applications (IDNA): Background, Explanation, and Rationale", RFC 5894, DOI 10.17487/RFC5894, August 2010, <<https://www.rfc-editor.org/info/rfc5894>>.
- [RFC5895] Resnick, P. and P. Hoffman, "Mapping Characters for Internationalized Domain Names in Applications (IDNA) 2008", RFC 5895, DOI 10.17487/RFC5895, September 2010, <<https://www.rfc-editor.org/info/rfc5895>>.
- [RFC8753] Klensin, J. and P. Faltstrom, "Internationalized Domain Names for Applications (IDNA) Review for New Unicode Versions", RFC 8753, DOI 10.17487/RFC8753, April 2020, <<https://www.rfc-editor.org/info/rfc8753>>.

7.2. Informative References

- [Unicode-5.2.0] The Unicode Consortium, "The Unicode Standard, Version 5.2.0", The Unicode Standard, Version 5.2.0 ISBN 978-1-936213-00-9, October 2009.

Appendix A. Code points that changed derived property values

```
# No change in derived property value except from UNASSIGNED
# 1671 code points changed from UNASSIGNED to DISALLOWED
# 20235 code points changed from UNASSIGNED to PVALID
# 21906 code points changed in total
```

Appendix B. Changes in General Category

```
# Code point; Old GC; New GC; Name
U+0295; Ll; Lo; LATIN LETTER PHARYNGEAL VOICED FRICATIVE
U+1734; Mn; Mc; HANUNOO SIGN PAMUDPOD
U+1171E; Mn; Mc; AHOM CONSONANT SIGN MEDIAL RA
```

Appendix C. New code points where General Category is Mn

```
# Code point; Name
U+0897; ARABIC PEPET
U+0898; ARABIC SMALL HIGH WORD AL-JUZ
U+0899; ARABIC SMALL LOW WORD ISHMAAM
U+089A; ARABIC SMALL LOW WORD IMAALA
U+089B; ARABIC SMALL LOW WORD TASHEEL
U+089C; ARABIC MADDA WAAJIB
U+089D; ARABIC SUPERScript ALEF MOKHASSAS
U+089E; ARABIC DOUBLED MADDA
U+089F; ARABIC HALF MADDA OVER MADDA
U+08CA; ARABIC SMALL HIGH FARSI YEH
U+08CB; ARABIC SMALL HIGH YEH BARREE WITH TWO DOTS BELOW
U+08CC; ARABIC SMALL HIGH WORD SAH
U+08CD; ARABIC SMALL HIGH ZAH
U+08CE; ARABIC LARGE ROUND DOT ABOVE
U+08CF; ARABIC LARGE ROUND DOT BELOW
U+08D0; ARABIC SUKUN BELOW
U+08D1; ARABIC LARGE CIRCLE BELOW
U+08D2; ARABIC LARGE ROUND DOT INSIDE CIRCLE BELOW
U+0B53; ORIYA SIGN DOT ABOVE
U+0B54; ORIYA SIGN DOUBLE DOT ABOVE
U+0B55; ORIYA SIGN OVERLINE
U+0C3C; TELUGU SIGN NUKTA
U+0D81; SINHALA SIGN CANDRABINDU
U+0ECE; LAO YAMAKKAN
U+180F; MONGOLIAN FREE VARIATION SELECTOR FOUR
U+1ABF; COMBINING LATIN SMALL LETTER W BELOW
U+1AC0; COMBINING LATIN SMALL LETTER TURNED W BELOW
U+1AC1; COMBINING LEFT PARENTHESIS ABOVE LEFT
U+1AC2; COMBINING RIGHT PARENTHESIS ABOVE RIGHT
U+1AC3; COMBINING LEFT PARENTHESIS BELOW LEFT
U+1AC4; COMBINING RIGHT PARENTHESIS BELOW RIGHT
```

U+1AC5; COMBINING SQUARE BRACKETS ABOVE
U+1AC6; COMBINING NUMBER SIGN ABOVE
U+1AC7; COMBINING INVERTED DOUBLE ARCH ABOVE
U+1AC8; COMBINING PLUS SIGN ABOVE
U+1AC9; COMBINING DOUBLE PLUS SIGN ABOVE
U+1ACA; COMBINING DOUBLE PLUS SIGN BELOW
U+1ACB; COMBINING TRIPLE ACUTE ACCENT
U+1ACC; COMBINING LATIN SMALL LETTER INSULAR G
U+1ACD; COMBINING LATIN SMALL LETTER INSULAR R
U+1ACE; COMBINING LATIN SMALL LETTER INSULAR T
U+1ACF; COMBINING DOUBLE CARON
U+1AD0; COMBINING VERTICAL-LINE-ACUTE
U+1AD1; COMBINING GRAVE-VERTICAL-LINE
U+1AD2; COMBINING VERTICAL-LINE-GRAVE
U+1AD3; COMBINING ACUTE-VERTICAL-LINE
U+1AD4; COMBINING VERTICAL-LINE-MACRON
U+1AD5; COMBINING MACRON-VERTICAL-LINE
U+1AD6; COMBINING VERTICAL-LINE-ACUTE-GRAVE
U+1AD7; COMBINING VERTICAL-LINE-GRAVE-ACUTE
U+1AD8; COMBINING MACRON-ACUTE-GRAVE
U+1AD9; COMBINING SHARP SIGN
U+1ADA; COMBINING FLAT SIGN
U+1ADB; COMBINING DOWN TACK ABOVE
U+1ADC; COMBINING DIAERESIS WITH RAISED LEFT DOT
U+1ADD; COMBINING DOT-AND-RING BELOW
U+1AE0; COMBINING LEFT TACK ABOVE
U+1AE1; COMBINING RIGHT TACK ABOVE
U+1AE2; COMBINING MINUS SIGN ABOVE
U+1AE3; COMBINING INVERTED BRIDGE ABOVE
U+1AE4; COMBINING SQUARE ABOVE
U+1AE5; COMBINING SEAGULL ABOVE
U+1AE6; COMBINING DOUBLE ARCH BELOW
U+1AE7; COMBINING DOUBLE ARCH ABOVE
U+1AE8; COMBINING EQUALS SIGN ABOVE
U+1AE9; COMBINING LEFT ANGLE CENTRED ABOVE
U+1AEA; COMBINING UPWARDS ARROW ABOVE
U+1AEB; COMBINING DOUBLE RIGHTWARDS ARROW ABOVE
U+1DFA; COMBINING DOT BELOW LEFT
U+A82C; SYLOTI NAGRI SIGN ALTERNATE HASANTA
U+10D69; GARAY VOWEL SIGN E
U+10D6A; GARAY CONSONANT GEMINATION MARK
U+10D6B; GARAY COMBINING DOT ABOVE
U+10D6C; GARAY COMBINING DOUBLE DOT ABOVE
U+10D6D; GARAY CONSONANT NASALIZATION MARK
U+10EAB; YEZIDI COMBINING HAMZA MARK
U+10EAC; YEZIDI COMBINING MADDA MARK
U+10EFA; ARABIC DOUBLE VERTICAL BAR BELOW
U+10EFB; ARABIC SMALL LOW NOON

U+10EFC; ARABIC COMBINING ALEF OVERLAY
U+10EFD; ARABIC SMALL LOW WORD SAKTA
U+10EFE; ARABIC SMALL LOW WORD QASR
U+10EFF; ARABIC SMALL LOW WORD MADDA
U+10F82; OLD UYGHUR COMBINING DOT ABOVE
U+10F83; OLD UYGHUR COMBINING DOT BELOW
U+10F84; OLD UYGHUR COMBINING TWO DOTS ABOVE
U+10F85; OLD UYGHUR COMBINING TWO DOTS BELOW
U+11070; BRAHMI SIGN OLD TAMIL VIRAMA
U+11073; BRAHMI VOWEL SIGN OLD TAMIL SHORT E
U+11074; BRAHMI VOWEL SIGN OLD TAMIL SHORT O
U+110C2; KAITHI VOWEL SIGN VOCALIC R
U+111CF; SHARADA SIGN INVERTED CANDRABINDU
U+11241; KHOJKI VOWEL SIGN VOCALIC R
U+113BB; TULU-TIGALARI VOWEL SIGN U
U+113BC; TULU-TIGALARI VOWEL SIGN UU
U+113BD; TULU-TIGALARI VOWEL SIGN VOCALIC R
U+113BE; TULU-TIGALARI VOWEL SIGN VOCALIC RR
U+113BF; TULU-TIGALARI VOWEL SIGN VOCALIC L
U+113C0; TULU-TIGALARI VOWEL SIGN VOCALIC LL
U+113CE; TULU-TIGALARI SIGN VIRAMA
U+113D0; TULU-TIGALARI CONJOINER
U+113D2; TULU-TIGALARI GEMINATION MARK
U+113E1; TULU-TIGALARI VEDIC TONE SVARITA
U+113E2; TULU-TIGALARI VEDIC TONE ANUDATTA
U+1193B; DIVES AKURU SIGN ANUSVARA
U+1193C; DIVES AKURU SIGN CANDRABINDU
U+1193E; DIVES AKURU VIRAMA
U+11943; DIVES AKURU SIGN NUKTA
U+11B60; SHARADA VOWEL SIGN OE
U+11B62; SHARADA VOWEL SIGN UE
U+11B63; SHARADA VOWEL SIGN UUE
U+11B64; SHARADA VOWEL SIGN SHORT E
U+11B66; SHARADA VOWEL SIGN CANDRA E
U+11F00; KAWI SIGN CANDRABINDU
U+11F01; KAWI SIGN ANUSVARA
U+11F36; KAWI VOWEL SIGN I
U+11F37; KAWI VOWEL SIGN II
U+11F38; KAWI VOWEL SIGN U
U+11F39; KAWI VOWEL SIGN UU
U+11F3A; KAWI VOWEL SIGN VOCALIC R
U+11F40; KAWI VOWEL SIGN EU
U+11F42; KAWI CONJOINER
U+11F5A; KAWI SIGN NUKTA
U+13440; EGYPTIAN HIEROGLYPH MIRROR HORIZONTALLY
U+13447; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP START
U+13448; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM START
U+13449; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START

U+1344A; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP END
U+1344B; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP
U+1344C; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM START AND TOP END
U+1344D; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START AND TOP
U+1344E; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM END
U+1344F; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP START AND BOTTOM END
U+13450; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM
U+13451; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START AND BOTTOM
U+13452; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT END
U+13453; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP AND END
U+13454; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM AND END
U+13455; EGYPTIAN HIEROGLYPH MODIFIER DAMAGED
U+1611E; GURUNG KHEMA VOWEL SIGN AA
U+1611F; GURUNG KHEMA VOWEL SIGN I
U+16120; GURUNG KHEMA VOWEL SIGN II
U+16121; GURUNG KHEMA VOWEL SIGN U
U+16122; GURUNG KHEMA VOWEL SIGN UU
U+16123; GURUNG KHEMA VOWEL SIGN E
U+16124; GURUNG KHEMA VOWEL SIGN EE
U+16125; GURUNG KHEMA VOWEL SIGN AI
U+16126; GURUNG KHEMA VOWEL SIGN O
U+16127; GURUNG KHEMA VOWEL SIGN OO
U+16128; GURUNG KHEMA VOWEL SIGN AU
U+16129; GURUNG KHEMA VOWEL LENGTH MARK
U+1612D; GURUNG KHEMA SIGN ANUSVARA
U+1612E; GURUNG KHEMA CONSONANT SIGN MEDIAL RA
U+1612F; GURUNG KHEMA SIGN THOLHOMA
U+16D98; CHISOI SIGN ANUSVARA
U+16D9D; CHISOI SIGN SISO
U+16FE4; KHITAN SMALL SCRIPT FILLER
U+1CF00; ZNAMENNY COMBINING MARK GORAZDO NIZKO S KRYZHEM ON LEFT
U+1CF01; ZNAMENNY COMBINING MARK NIZKO S KRYZHEM ON LEFT
U+1CF02; ZNAMENNY COMBINING MARK TSATA ON LEFT
U+1CF03; ZNAMENNY COMBINING MARK GORAZDO NIZKO ON LEFT
U+1CF04; ZNAMENNY COMBINING MARK NIZKO ON LEFT
U+1CF05; ZNAMENNY COMBINING MARK SREDNE ON LEFT
U+1CF06; ZNAMENNY COMBINING MARK MALO POVYSHE ON LEFT
U+1CF07; ZNAMENNY COMBINING MARK POVYSHE ON LEFT
U+1CF08; ZNAMENNY COMBINING MARK VYSOKO ON LEFT
U+1CF09; ZNAMENNY COMBINING MARK MALO POVYSHE S KHOKHLOM ON LEFT
U+1CF0A; ZNAMENNY COMBINING MARK POVYSHE S KHOKHLOM ON LEFT
U+1CF0B; ZNAMENNY COMBINING MARK VYSOKO S KHOKHLOM ON LEFT
U+1CF0C; ZNAMENNY COMBINING MARK GORAZDO NIZKO S KRYZHEM ON RIGHT
U+1CF0D; ZNAMENNY COMBINING MARK NIZKO S KRYZHEM ON RIGHT
U+1CF0E; ZNAMENNY COMBINING MARK TSATA ON RIGHT
U+1CF0F; ZNAMENNY COMBINING MARK GORAZDO NIZKO ON RIGHT
U+1CF10; ZNAMENNY COMBINING MARK NIZKO ON RIGHT
U+1CF11; ZNAMENNY COMBINING MARK SREDNE ON RIGHT

U+1CF12; ZNAMENNY COMBINING MARK MALO POVYSHE ON RIGHT
U+1CF13; ZNAMENNY COMBINING MARK POVYSHE ON RIGHT
U+1CF14; ZNAMENNY COMBINING MARK VYSOKO ON RIGHT
U+1CF15; ZNAMENNY COMBINING MARK MALO POVYSHE S KHOKHLOM ON RIGHT
U+1CF16; ZNAMENNY COMBINING MARK POVYSHE S KHOKHLOM ON RIGHT
U+1CF17; ZNAMENNY COMBINING MARK VYSOKO S KHOKHLOM ON RIGHT
U+1CF18; ZNAMENNY COMBINING MARK TSATA S KRYZHEM
U+1CF19; ZNAMENNY COMBINING MARK MALO POVYSHE S KRYZHEM
U+1CF1A; ZNAMENNY COMBINING MARK STRANNO MALO POVYSHE
U+1CF1B; ZNAMENNY COMBINING MARK POVYSHE S KRYZHEM
U+1CF1C; ZNAMENNY COMBINING MARK POVYSHE STRANNO
U+1CF1D; ZNAMENNY COMBINING MARK VYSOKO S KRYZHEM
U+1CF1E; ZNAMENNY COMBINING MARK MALO POVYSHE STRANNO
U+1CF1F; ZNAMENNY COMBINING MARK GORAZDO VYSOKO
U+1CF20; ZNAMENNY COMBINING MARK ZELO
U+1CF21; ZNAMENNY COMBINING MARK ON
U+1CF22; ZNAMENNY COMBINING MARK RAVNO
U+1CF23; ZNAMENNY COMBINING MARK TIKHAYA
U+1CF24; ZNAMENNY COMBINING MARK BORZAYA
U+1CF25; ZNAMENNY COMBINING MARK UDARKA
U+1CF26; ZNAMENNY COMBINING MARK PODVERTKA
U+1CF27; ZNAMENNY COMBINING MARK LOMKA
U+1CF28; ZNAMENNY COMBINING MARK KUPNAYA
U+1CF29; ZNAMENNY COMBINING MARK KACHKA
U+1CF2A; ZNAMENNY COMBINING MARK ZEVOK
U+1CF2B; ZNAMENNY COMBINING MARK SKOBA
U+1CF2C; ZNAMENNY COMBINING MARK RAZSEKA
U+1CF2D; ZNAMENNY COMBINING MARK KRYZH ON LEFT
U+1CF30; ZNAMENNY COMBINING TONAL RANGE MARK MRACHNO
U+1CF31; ZNAMENNY COMBINING TONAL RANGE MARK SVETLO
U+1CF32; ZNAMENNY COMBINING TONAL RANGE MARK TRESVETLO
U+1CF33; ZNAMENNY COMBINING MARK ZADERZHKA
U+1CF34; ZNAMENNY COMBINING MARK DEMESTVENNY ZADERZHKA
U+1CF35; ZNAMENNY COMBINING MARK OTSECHKA
U+1CF36; ZNAMENNY COMBINING MARK PODCHASHIE
U+1CF37; ZNAMENNY COMBINING MARK PODCHASHIE WITH VERTICAL STROKE
U+1CF38; ZNAMENNY COMBINING MARK CHASHKA
U+1CF39; ZNAMENNY COMBINING MARK CHASHKA POLNAYA
U+1CF3A; ZNAMENNY COMBINING MARK OBLACHKO
U+1CF3B; ZNAMENNY COMBINING MARK SOROCHYA NOZHKA
U+1CF3C; ZNAMENNY COMBINING MARK TOCHKA
U+1CF3D; ZNAMENNY COMBINING MARK DVOETICHIE
U+1CF3E; ZNAMENNY COMBINING ATTACHING VERTICAL OMET
U+1CF3F; ZNAMENNY COMBINING MARK CURVED OMET
U+1CF40; ZNAMENNY COMBINING MARK KRYZH
U+1CF41; ZNAMENNY COMBINING LOWER TONAL RANGE INDICATOR
U+1CF42; ZNAMENNY PRIZNAK MODIFIER LEVEL-2
U+1CF43; ZNAMENNY PRIZNAK MODIFIER LEVEL-3

U+1CF44; ZNAMENNY PRIZNAK MODIFIER DIRECTION FLIP
U+1CF45; ZNAMENNY PRIZNAK MODIFIER KRYZH
U+1CF46; ZNAMENNY PRIZNAK MODIFIER ROG
U+1E08F; COMBINING CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
U+1E2AE; TOTO SIGN RISING TONE
U+1E4EC; NAG MUNDARI SIGN MUHOR
U+1E4ED; NAG MUNDARI SIGN TOYOR
U+1E4EE; NAG MUNDARI SIGN IKIR
U+1E4EF; NAG MUNDARI SIGN SUTUH
U+1E5EE; OL ONAL SIGN MU
U+1E5EF; OL ONAL SIGN IKIR
U+1E6E3; TAI YO SIGN UE
U+1E6E6; TAI YO SIGN AU
U+1E6EE; TAI YO SIGN AY
U+1E6EF; TAI YO SIGN ANG
U+1E6F5; TAI YO SIGN OM

Appendix D. New code points with NFK normalization

U+105C9; U+105D2 U+0307; TODHRI LETTER EI
U+105E4; U+105DA U+0307; TODHRI LETTER U
U+11383; U+11382 U+113C9; TULU-TIGALARI LETTER II
U+11385; U+11384 U+113BB; TULU-TIGALARI LETTER UU
U+1138E; U+1138B U+113C2; TULU-TIGALARI LETTER AI
U+11391; U+11390 U+113C9; TULU-TIGALARI LETTER AU
U+113C5; U+113C2 U+113C2; TULU-TIGALARI VOWEL SIGN AI
U+113C7; U+113C2 U+113B8; TULU-TIGALARI VOWEL SIGN OO
U+113C8; U+113C2 U+113C9; TULU-TIGALARI VOWEL SIGN AU
U+11938; U+11935 U+11930; DIVES AKURU VOWEL SIGN O
U+16121; U+1611E U+1611E; GURUNG KHEMA VOWEL SIGN U
U+16122; U+1611E U+16129; GURUNG KHEMA VOWEL SIGN UU
U+16123; U+1611E U+1611F; GURUNG KHEMA VOWEL SIGN E
U+16124; U+16129 U+1611F; GURUNG KHEMA VOWEL SIGN EE
U+16125; U+1611E U+16120; GURUNG KHEMA VOWEL SIGN AI
U+16126; U+1611E U+1611E U+1611F; GURUNG KHEMA VOWEL SIGN O
U+16127; U+1611E U+16129 U+1611F; GURUNG KHEMA VOWEL SIGN OO
U+16128; U+1611E U+1611E U+16120; GURUNG KHEMA VOWEL SIGN AU
U+16D68; U+16D67 U+16D67; KIRAT RAI VOWEL SIGN AI
U+16D69; U+16D63 U+16D67; KIRAT RAI VOWEL SIGN O
U+16D6A; U+16D63 U+16D67 U+16D67; KIRAT RAI VOWEL SIGN AU

Appendix E. Additions to Exceptions (F)

U+0897; UNDER REVIEW # ARABIC PEPET
U+0898; UNDER REVIEW # ARABIC SMALL HIGH WORD AL-JUZ
U+0899; UNDER REVIEW # ARABIC SMALL LOW WORD ISHMAAM
U+089A; UNDER REVIEW # ARABIC SMALL LOW WORD IMAALA
U+089B; UNDER REVIEW # ARABIC SMALL LOW WORD TASHEEL
U+089C; UNDER REVIEW # ARABIC MADDA WAAJIB
U+089D; UNDER REVIEW # ARABIC SUPERScript ALEF MOKHASSAS
U+089E; UNDER REVIEW # ARABIC DOUBLED MADDA
U+089F; UNDER REVIEW # ARABIC HALF MADDA OVER MADDA
U+08CA; UNDER REVIEW # ARABIC SMALL HIGH FARSI YEH
U+08CB; UNDER REVIEW # ARABIC SMALL HIGH YEH BARREE WITH TWO DOTS BELOW
U+08CC; UNDER REVIEW # ARABIC SMALL HIGH WORD SAH
U+08CD; UNDER REVIEW # ARABIC SMALL HIGH ZAH
U+08CE; UNDER REVIEW # ARABIC LARGE ROUND DOT ABOVE
U+08CF; UNDER REVIEW # ARABIC LARGE ROUND DOT BELOW
U+08D0; UNDER REVIEW # ARABIC SUKUN BELOW
U+08D1; UNDER REVIEW # ARABIC LARGE CIRCLE BELOW
U+08D2; UNDER REVIEW # ARABIC LARGE ROUND DOT INSIDE CIRCLE BELOW
U+0B53; UNDER REVIEW # ORIYA SIGN DOT ABOVE
U+0B54; UNDER REVIEW # ORIYA SIGN DOUBLE DOT ABOVE
U+0B55; UNDER REVIEW # ORIYA SIGN OVERLINE
U+0C3C; UNDER REVIEW # TELUGU SIGN NUKTA
U+0D81; UNDER REVIEW # SINHALA SIGN CANDRABINDU
U+0ECE; UNDER REVIEW # LAO YAMAKKAN
U+180F; UNDER REVIEW # MONGOLIAN FREE VARIATION SELECTOR FOUR
U+1ABF; UNDER REVIEW # COMBINING LATIN SMALL LETTER W BELOW
U+1AC0; UNDER REVIEW # COMBINING LATIN SMALL LETTER TURNED W BELOW
U+1AC1; UNDER REVIEW # COMBINING LEFT PARENTHESIS ABOVE LEFT
U+1AC2; UNDER REVIEW # COMBINING RIGHT PARENTHESIS ABOVE RIGHT
U+1AC3; UNDER REVIEW # COMBINING LEFT PARENTHESIS BELOW LEFT
U+1AC4; UNDER REVIEW # COMBINING RIGHT PARENTHESIS BELOW RIGHT
U+1AC5; UNDER REVIEW # COMBINING SQUARE BRACKETS ABOVE
U+1AC6; UNDER REVIEW # COMBINING NUMBER SIGN ABOVE
U+1AC7; UNDER REVIEW # COMBINING INVERTED DOUBLE ARCH ABOVE
U+1AC8; UNDER REVIEW # COMBINING PLUS SIGN ABOVE
U+1AC9; UNDER REVIEW # COMBINING DOUBLE PLUS SIGN ABOVE
U+1ACA; UNDER REVIEW # COMBINING DOUBLE PLUS SIGN BELOW
U+1ACB; UNDER REVIEW # COMBINING TRIPLE ACUTE ACCENT
U+1ACC; UNDER REVIEW # COMBINING LATIN SMALL LETTER INSULAR G
U+1ACD; UNDER REVIEW # COMBINING LATIN SMALL LETTER INSULAR R
U+1ACE; UNDER REVIEW # COMBINING LATIN SMALL LETTER INSULAR T
U+1ACF; UNDER REVIEW # COMBINING DOUBLE CARON
U+1AD0; UNDER REVIEW # COMBINING VERTICAL-LINE-ACUTE
U+1AD1; UNDER REVIEW # COMBINING GRAVE-VERTICAL-LINE
U+1AD2; UNDER REVIEW # COMBINING VERTICAL-LINE-GRAVE
U+1AD3; UNDER REVIEW # COMBINING ACUTE-VERTICAL-LINE
U+1AD4; UNDER REVIEW # COMBINING VERTICAL-LINE-MACRON
U+1AD5; UNDER REVIEW # COMBINING MACRON-VERTICAL-LINE

U+1AD6; UNDER REVIEW # COMBINING VERTICAL-LINE-ACUTE-GRAVE
U+1AD7; UNDER REVIEW # COMBINING VERTICAL-LINE-GRAVE-ACUTE
U+1AD8; UNDER REVIEW # COMBINING MACRON-ACUTE-GRAVE
U+1AD9; UNDER REVIEW # COMBINING SHARP SIGN
U+1ADA; UNDER REVIEW # COMBINING FLAT SIGN
U+1ADB; UNDER REVIEW # COMBINING DOWN TACK ABOVE
U+1ADC; UNDER REVIEW # COMBINING DIAERESIS WITH RAISED LEFT DOT
U+1ADD; UNDER REVIEW # COMBINING DOT-AND-RING BELOW
U+1AE0; UNDER REVIEW # COMBINING LEFT TACK ABOVE
U+1AE1; UNDER REVIEW # COMBINING RIGHT TACK ABOVE
U+1AE2; UNDER REVIEW # COMBINING MINUS SIGN ABOVE
U+1AE3; UNDER REVIEW # COMBINING INVERTED BRIDGE ABOVE
U+1AE4; UNDER REVIEW # COMBINING SQUARE ABOVE
U+1AE5; UNDER REVIEW # COMBINING SEAGULL ABOVE
U+1AE6; UNDER REVIEW # COMBINING DOUBLE ARCH BELOW
U+1AE7; UNDER REVIEW # COMBINING DOUBLE ARCH ABOVE
U+1AE8; UNDER REVIEW # COMBINING EQUALS SIGN ABOVE
U+1AE9; UNDER REVIEW # COMBINING LEFT ANGLE CENTRED ABOVE
U+1AEA; UNDER REVIEW # COMBINING UPWARDS ARROW ABOVE
U+1AEB; UNDER REVIEW # COMBINING DOUBLE RIGHTWARDS ARROW ABOVE
U+1DFA; UNDER REVIEW # COMBINING DOT BELOW LEFT
U+A82C; UNDER REVIEW # SYLOTI NAGRI SIGN ALTERNATE HASANTA
U+105C9; UNDER REVIEW # TODHRI LETTER EI
U+105E4; UNDER REVIEW # TODHRI LETTER U
U+10D69; UNDER REVIEW # GARAY VOWEL SIGN E
U+10D6A; UNDER REVIEW # GARAY CONSONANT GEMINATION MARK
U+10D6B; UNDER REVIEW # GARAY COMBINING DOT ABOVE
U+10D6C; UNDER REVIEW # GARAY COMBINING DOUBLE DOT ABOVE
U+10D6D; UNDER REVIEW # GARAY CONSONANT NASALIZATION MARK
U+10EAB; UNDER REVIEW # YEZIDI COMBINING HAMZA MARK
U+10EAC; UNDER REVIEW # YEZIDI COMBINING MADDA MARK
U+10EFA; UNDER REVIEW # ARABIC DOUBLE VERTICAL BAR BELOW
U+10EFB; UNDER REVIEW # ARABIC SMALL LOW NOON
U+10EFC; UNDER REVIEW # ARABIC COMBINING ALEF OVERLAY
U+10EFD; UNDER REVIEW # ARABIC SMALL LOW WORD SAKTA
U+10EFE; UNDER REVIEW # ARABIC SMALL LOW WORD QASR
U+10EFF; UNDER REVIEW # ARABIC SMALL LOW WORD MADDA
U+10F82; UNDER REVIEW # OLD UYGHUR COMBINING DOT ABOVE
U+10F83; UNDER REVIEW # OLD UYGHUR COMBINING DOT BELOW
U+10F84; UNDER REVIEW # OLD UYGHUR COMBINING TWO DOTS ABOVE
U+10F85; UNDER REVIEW # OLD UYGHUR COMBINING TWO DOTS BELOW
U+11070; UNDER REVIEW # BRAHMI SIGN OLD TAMIL VIRAMA
U+11073; UNDER REVIEW # BRAHMI VOWEL SIGN OLD TAMIL SHORT E
U+11074; UNDER REVIEW # BRAHMI VOWEL SIGN OLD TAMIL SHORT O
U+110C2; UNDER REVIEW # KAITHI VOWEL SIGN VOCALIC R
U+111CF; UNDER REVIEW # SHARADA SIGN INVERTED CANDRABINDU
U+11241; UNDER REVIEW # KHOJKI VOWEL SIGN VOCALIC R
U+11383; UNDER REVIEW # TULU-TIGALARI LETTER II

U+11385; UNDER REVIEW # TULU-TIGALARI LETTER UU
U+1138E; UNDER REVIEW # TULU-TIGALARI LETTER AI
U+11391; UNDER REVIEW # TULU-TIGALARI LETTER AU
U+113BB; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN U
U+113BC; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN UU
U+113BD; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN VOCALIC R
U+113BE; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN VOCALIC RR
U+113BF; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN VOCALIC L
U+113C0; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN VOCALIC LL
U+113C5; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN AI
U+113C7; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN OO
U+113C8; UNDER REVIEW # TULU-TIGALARI VOWEL SIGN AU
U+113CE; UNDER REVIEW # TULU-TIGALARI SIGN VIRAMA
U+113D0; UNDER REVIEW # TULU-TIGALARI CONJOINER
U+113D2; UNDER REVIEW # TULU-TIGALARI GEMINATION MARK
U+113E1; UNDER REVIEW # TULU-TIGALARI VEDIC TONE SVARITA
U+113E2; UNDER REVIEW # TULU-TIGALARI VEDIC TONE ANUDATTA
U+11938; UNDER REVIEW # DIVES AKURU VOWEL SIGN O
U+1193B; UNDER REVIEW # DIVES AKURU SIGN ANUSVARA
U+1193C; UNDER REVIEW # DIVES AKURU SIGN CANDRABINDU
U+1193E; UNDER REVIEW # DIVES AKURU VIRAMA
U+11943; UNDER REVIEW # DIVES AKURU SIGN NUKTA
U+11B60; UNDER REVIEW # SHARADA VOWEL SIGN OE
U+11B62; UNDER REVIEW # SHARADA VOWEL SIGN UE
U+11B63; UNDER REVIEW # SHARADA VOWEL SIGN UUE
U+11B64; UNDER REVIEW # SHARADA VOWEL SIGN SHORT E
U+11B66; UNDER REVIEW # SHARADA VOWEL SIGN CANDRA E
U+11F00; UNDER REVIEW # KAWI SIGN CANDRABINDU
U+11F01; UNDER REVIEW # KAWI SIGN ANUSVARA
U+11F36; UNDER REVIEW # KAWI VOWEL SIGN I
U+11F37; UNDER REVIEW # KAWI VOWEL SIGN II
U+11F38; UNDER REVIEW # KAWI VOWEL SIGN U
U+11F39; UNDER REVIEW # KAWI VOWEL SIGN UU
U+11F3A; UNDER REVIEW # KAWI VOWEL SIGN VOCALIC R
U+11F40; UNDER REVIEW # KAWI VOWEL SIGN EU
U+11F42; UNDER REVIEW # KAWI CONJOINER
U+11F5A; UNDER REVIEW # KAWI SIGN NUKTA
U+13440; UNDER REVIEW # EGYPTIAN HIEROGLYPH MIRROR HORIZONTALLY
U+13447; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP START
U+13448; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM START
U+13449; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START
U+1344A; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP END
U+1344B; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP
U+1344C; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM START AND TOP END
U+1344D; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START AND TOP
U+1344E; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM END
U+1344F; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP START AND BOTTOM END
U+13450; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM

U+13451; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT START AND BOTTOM
U+13452; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT END
U+13453; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT TOP AND END
U+13454; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED AT BOTTOM AND END
U+13455; UNDER REVIEW # EGYPTIAN HIEROGLYPH MODIFIER DAMAGED
U+1611E; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN AA
U+1611F; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN I
U+16120; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN II
U+16121; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN U
U+16121; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN U
U+16122; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN UU
U+16122; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN UU
U+16123; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN E
U+16123; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN E
U+16124; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN EE
U+16124; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN EE
U+16125; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN AI
U+16125; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN AI
U+16126; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN O
U+16126; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN O
U+16127; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN OO
U+16127; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN OO
U+16128; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN AU
U+16128; UNDER REVIEW # GURUNG KHEMA VOWEL SIGN AU
U+16129; UNDER REVIEW # GURUNG KHEMA VOWEL LENGTH MARK
U+1612D; UNDER REVIEW # GURUNG KHEMA SIGN ANUSVARA
U+1612E; UNDER REVIEW # GURUNG KHEMA CONSONANT SIGN MEDIAL RA
U+1612F; UNDER REVIEW # GURUNG KHEMA SIGN THOLHOMA
U+16D68; UNDER REVIEW # KIRAT RAI VOWEL SIGN AI
U+16D69; UNDER REVIEW # KIRAT RAI VOWEL SIGN O
U+16D6A; UNDER REVIEW # KIRAT RAI VOWEL SIGN AU
U+16D98; UNDER REVIEW # CHISOI SIGN ANUSVARA
U+16D9D; UNDER REVIEW # CHISOI SIGN SISO
U+16FE4; UNDER REVIEW # KHITAN SMALL SCRIPT FILLER
U+1CF00; UNDER REVIEW # ZNAMENNY COMBINING MARK GORAZDO NIZKO S KRYZHEM ON LEFT
U+1CF01; UNDER REVIEW # ZNAMENNY COMBINING MARK NIZKO S KRYZHEM ON LEFT
U+1CF02; UNDER REVIEW # ZNAMENNY COMBINING MARK TSATA ON LEFT
U+1CF03; UNDER REVIEW # ZNAMENNY COMBINING MARK GORAZDO NIZKO ON LEFT
U+1CF04; UNDER REVIEW # ZNAMENNY COMBINING MARK NIZKO ON LEFT
U+1CF05; UNDER REVIEW # ZNAMENNY COMBINING MARK SREDNE ON LEFT
U+1CF06; UNDER REVIEW # ZNAMENNY COMBINING MARK MALO POVYSHE ON LEFT
U+1CF07; UNDER REVIEW # ZNAMENNY COMBINING MARK POVYSHE ON LEFT
U+1CF08; UNDER REVIEW # ZNAMENNY COMBINING MARK VYSOKO ON LEFT
U+1CF09; UNDER REVIEW # ZNAMENNY COMBINING MARK MALO POVYSHE S KHOKHLOM ON LEFT
U+1CF0A; UNDER REVIEW # ZNAMENNY COMBINING MARK POVYSHE S KHOKHLOM ON LEFT
U+1CF0B; UNDER REVIEW # ZNAMENNY COMBINING MARK VYSOKO S KHOKHLOM ON LEFT
U+1CF0C; UNDER REVIEW # ZNAMENNY COMBINING MARK GORAZDO NIZKO S KRYZHEM ON RIGHT
U+1CF0D; UNDER REVIEW # ZNAMENNY COMBINING MARK NIZKO S KRYZHEM ON RIGHT

U+1CF0E; UNDER REVIEW # ZNAMENNY COMBINING MARK TSATA ON RIGHT
U+1CF0F; UNDER REVIEW # ZNAMENNY COMBINING MARK GORAZDO NIZKO ON RIGHT
U+1CF10; UNDER REVIEW # ZNAMENNY COMBINING MARK NIZKO ON RIGHT
U+1CF11; UNDER REVIEW # ZNAMENNY COMBINING MARK SREDNE ON RIGHT
U+1CF12; UNDER REVIEW # ZNAMENNY COMBINING MARK MALO POVYSHE ON RIGHT
U+1CF13; UNDER REVIEW # ZNAMENNY COMBINING MARK POVYSHE ON RIGHT
U+1CF14; UNDER REVIEW # ZNAMENNY COMBINING MARK VYSOKO ON RIGHT
U+1CF15; UNDER REVIEW # ZNAMENNY COMBINING MARK MALO POVYSHE S KHOKHLOM ON RIGHT
U+1CF16; UNDER REVIEW # ZNAMENNY COMBINING MARK POVYSHE S KHOKHLOM ON RIGHT
U+1CF17; UNDER REVIEW # ZNAMENNY COMBINING MARK VYSOKO S KHOKHLOM ON RIGHT
U+1CF18; UNDER REVIEW # ZNAMENNY COMBINING MARK TSATA S KRYZHEM
U+1CF19; UNDER REVIEW # ZNAMENNY COMBINING MARK MALO POVYSHE S KRYZHEM
U+1CF1A; UNDER REVIEW # ZNAMENNY COMBINING MARK STRANNO MALO POVYSHE
U+1CF1B; UNDER REVIEW # ZNAMENNY COMBINING MARK POVYSHE S KRYZHEM
U+1CF1C; UNDER REVIEW # ZNAMENNY COMBINING MARK POVYSHE STRANNO
U+1CF1D; UNDER REVIEW # ZNAMENNY COMBINING MARK VYSOKO S KRYZHEM
U+1CF1E; UNDER REVIEW # ZNAMENNY COMBINING MARK MALO POVYSHE STRANNO
U+1CF1F; UNDER REVIEW # ZNAMENNY COMBINING MARK GORAZDO VYSOKO
U+1CF20; UNDER REVIEW # ZNAMENNY COMBINING MARK ZELO
U+1CF21; UNDER REVIEW # ZNAMENNY COMBINING MARK ON
U+1CF22; UNDER REVIEW # ZNAMENNY COMBINING MARK RAVNO
U+1CF23; UNDER REVIEW # ZNAMENNY COMBINING MARK TIKHAYA
U+1CF24; UNDER REVIEW # ZNAMENNY COMBINING MARK BORZAYA
U+1CF25; UNDER REVIEW # ZNAMENNY COMBINING MARK UDARKA
U+1CF26; UNDER REVIEW # ZNAMENNY COMBINING MARK PODVERTKA
U+1CF27; UNDER REVIEW # ZNAMENNY COMBINING MARK LOMKA
U+1CF28; UNDER REVIEW # ZNAMENNY COMBINING MARK KUPNAYA
U+1CF29; UNDER REVIEW # ZNAMENNY COMBINING MARK KACHKA
U+1CF2A; UNDER REVIEW # ZNAMENNY COMBINING MARK ZEVOK
U+1CF2B; UNDER REVIEW # ZNAMENNY COMBINING MARK SKOBA
U+1CF2C; UNDER REVIEW # ZNAMENNY COMBINING MARK RAZSEKA
U+1CF2D; UNDER REVIEW # ZNAMENNY COMBINING MARK KRYZH ON LEFT
U+1CF30; UNDER REVIEW # ZNAMENNY COMBINING TONAL RANGE MARK MRACHNO
U+1CF31; UNDER REVIEW # ZNAMENNY COMBINING TONAL RANGE MARK SVETLO
U+1CF32; UNDER REVIEW # ZNAMENNY COMBINING TONAL RANGE MARK TRESVETLO
U+1CF33; UNDER REVIEW # ZNAMENNY COMBINING MARK ZADERZHKA
U+1CF34; UNDER REVIEW # ZNAMENNY COMBINING MARK DEMESTVENNY ZADERZHKA
U+1CF35; UNDER REVIEW # ZNAMENNY COMBINING MARK OTSECHKA
U+1CF36; UNDER REVIEW # ZNAMENNY COMBINING MARK PODCHASHIE
U+1CF37; UNDER REVIEW # ZNAMENNY COMBINING MARK PODCHASHIE WITH VERTICAL STROKE
U+1CF38; UNDER REVIEW # ZNAMENNY COMBINING MARK CHASHKA
U+1CF39; UNDER REVIEW # ZNAMENNY COMBINING MARK CHASHKA POLNAYA
U+1CF3A; UNDER REVIEW # ZNAMENNY COMBINING MARK OBLACHKO
U+1CF3B; UNDER REVIEW # ZNAMENNY COMBINING MARK SOROCHYA NOZHKA
U+1CF3C; UNDER REVIEW # ZNAMENNY COMBINING MARK TOCHKA
U+1CF3D; UNDER REVIEW # ZNAMENNY COMBINING MARK DVOETOCHIE
U+1CF3E; UNDER REVIEW # ZNAMENNY COMBINING ATTACHING VERTICAL OMET
U+1CF3F; UNDER REVIEW # ZNAMENNY COMBINING MARK CURVED OMET

U+1CF40; UNDER REVIEW # ZNAMENNY COMBINING MARK KRYZH
U+1CF41; UNDER REVIEW # ZNAMENNY COMBINING LOWER TONAL RANGE INDICATOR
U+1CF42; UNDER REVIEW # ZNAMENNY PRIZNAK MODIFIER LEVEL-2
U+1CF43; UNDER REVIEW # ZNAMENNY PRIZNAK MODIFIER LEVEL-3
U+1CF44; UNDER REVIEW # ZNAMENNY PRIZNAK MODIFIER DIRECTION FLIP
U+1CF45; UNDER REVIEW # ZNAMENNY PRIZNAK MODIFIER KRYZH
U+1CF46; UNDER REVIEW # ZNAMENNY PRIZNAK MODIFIER ROG
U+1E08F; UNDER REVIEW # COMBINING CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
U+1E2AE; UNDER REVIEW # TOTO SIGN RISING TONE
U+1E4EC; UNDER REVIEW # NAG MUNDARI SIGN MUHOR
U+1E4ED; UNDER REVIEW # NAG MUNDARI SIGN TOYOR
U+1E4EE; UNDER REVIEW # NAG MUNDARI SIGN IKIR
U+1E4EF; UNDER REVIEW # NAG MUNDARI SIGN SUTUH
U+1E5EE; UNDER REVIEW # OL ONAL SIGN MU
U+1E5EF; UNDER REVIEW # OL ONAL SIGN IKIR
U+1E6E3; UNDER REVIEW # TAI YO SIGN UE
U+1E6E6; UNDER REVIEW # TAI YO SIGN AU
U+1E6EE; UNDER REVIEW # TAI YO SIGN AY
U+1E6EF; UNDER REVIEW # TAI YO SIGN ANG
U+1E6F5; UNDER REVIEW # TAI YO SIGN OM

Appendix F. Derived property values Unicode 17.0.0

U+0000..U+002C; DISALLOWED
U+002D; PVALID
U+002E..U+002F; DISALLOWED
U+0030..U+0039; PVALID
U+003A..U+0060; DISALLOWED
U+0061..U+007A; PVALID
U+007B..U+00B6; DISALLOWED
U+00B7; CONTEXTO
U+00B8..U+00DE; DISALLOWED
U+00DF..U+00F6; PVALID
U+00F7; DISALLOWED
U+00F8..U+00FF; PVALID
U+0100; DISALLOWED
U+0101; PVALID
U+0102; DISALLOWED
U+0103; PVALID
U+0104; DISALLOWED
U+0105; PVALID
U+0106; DISALLOWED
U+0107; PVALID
U+0108; DISALLOWED
U+0109; PVALID
U+010A; DISALLOWED
U+010B; PVALID
U+010C; DISALLOWED

U+010D; PVALID
U+010E; DISALLOWED
U+010F; PVALID
U+0110; DISALLOWED
U+0111; PVALID
U+0112; DISALLOWED
U+0113; PVALID
U+0114; DISALLOWED
U+0115; PVALID
U+0116; DISALLOWED
U+0117; PVALID
U+0118; DISALLOWED
U+0119; PVALID
U+011A; DISALLOWED
U+011B; PVALID
U+011C; DISALLOWED
U+011D; PVALID
U+011E; DISALLOWED
U+011F; PVALID
U+0120; DISALLOWED
U+0121; PVALID
U+0122; DISALLOWED
U+0123; PVALID
U+0124; DISALLOWED
U+0125; PVALID
U+0126; DISALLOWED
U+0127; PVALID
U+0128; DISALLOWED
U+0129; PVALID
U+012A; DISALLOWED
U+012B; PVALID
U+012C; DISALLOWED
U+012D; PVALID
U+012E; DISALLOWED
U+012F; PVALID
U+0130; DISALLOWED
U+0131; PVALID
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U+05C6; DISALLOWED
U+05C7; PVALID
U+05C8..U+05CF; UNASSIGNED
U+05D0..U+05EA; PVALID
U+05EB..U+05EE; UNASSIGNED
U+05EF..U+05F2; PVALID
U+05F3..U+05F4; CONTEXTO
U+05F5..U+05FF; UNASSIGNED
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U+0641..U+065F; PVALID
U+0660..U+0669; CONTEXTO
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U+06DD..U+06DE; DISALLOWED
U+06DF..U+06E8; PVALID
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U+06EA..U+06EF; PVALID

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U+0700..U+070D; DISALLOWED
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U+085F; UNASSIGNED
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U+086B..U+086F; UNASSIGNED
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U+0889..U+088F; PVALID
U+0890..U+0891; DISALLOWED
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U+0897..U+089F; UNDER REVIEW
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U+09FE..U+09FF; PVALID
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U+0B0F..U+0B10; PVALID
U+0B11..U+0B12; UNASSIGNED

U+0B13..U+0B28; PVALID
U+0B29; UNASSIGNED
U+0B2A..U+0B30; PVALID
U+0B31; UNASSIGNED
U+0B32..U+0B33; PVALID
U+0B34; UNASSIGNED
U+0B35..U+0B39; PVALID
U+0B3A..U+0B3B; UNASSIGNED
U+0B3C..U+0B44; PVALID
U+0B45..U+0B46; UNASSIGNED
U+0B47..U+0B48; PVALID
U+0B49..U+0B4A; UNASSIGNED
U+0B4B..U+0B4D; PVALID
U+0B4E..U+0B52; UNASSIGNED
U+0B53..U+0B55; UNDER REVIEW
U+0B56..U+0B57; PVALID
U+0B58..U+0B5B; UNASSIGNED
U+0B5C..U+0B5D; DISALLOWED
U+0B5E; UNASSIGNED
U+0B5F..U+0B63; PVALID
U+0B64..U+0B65; UNASSIGNED
U+0B66..U+0B6F; PVALID
U+0B70; DISALLOWED
U+0B71; PVALID
U+0B72..U+0B77; DISALLOWED
U+0B78..U+0B81; UNASSIGNED
U+0B82..U+0B83; PVALID
U+0B84; UNASSIGNED
U+0B85..U+0B8A; PVALID
U+0B8B..U+0B8D; UNASSIGNED
U+0B8E..U+0B90; PVALID
U+0B91; UNASSIGNED
U+0B92..U+0B95; PVALID
U+0B96..U+0B98; UNASSIGNED
U+0B99..U+0B9A; PVALID
U+0B9B; UNASSIGNED
U+0B9C; PVALID
U+0B9D; UNASSIGNED
U+0B9E..U+0B9F; PVALID
U+0BA0..U+0BA2; UNASSIGNED
U+0BA3..U+0BA4; PVALID
U+0BA5..U+0BA7; UNASSIGNED
U+0BA8..U+0BAA; PVALID
U+0BAB..U+0BAD; UNASSIGNED
U+0BAE..U+0BB9; PVALID
U+0BBA..U+0BBD; UNASSIGNED
U+0BBE..U+0BC2; PVALID
U+0BC3..U+0BC5; UNASSIGNED

U+0BC6..U+0BC8; PVALID
U+0BC9; UNASSIGNED
U+0BCA..U+0BCD; PVALID
U+0BCE..U+0BCF; UNASSIGNED
U+0BD0; PVALID
U+0BD1..U+0BD6; UNASSIGNED
U+0BD7; PVALID
U+0BD8..U+0BE5; UNASSIGNED
U+0BE6..U+0BEF; PVALID
U+0BF0..U+0BFA; DISALLOWED
U+0BFB..U+0BFF; UNASSIGNED
U+0C00..U+0C0C; PVALID
U+0C0D; UNASSIGNED
U+0C0E..U+0C10; PVALID
U+0C11; UNASSIGNED
U+0C12..U+0C28; PVALID
U+0C29; UNASSIGNED
U+0C2A..U+0C39; PVALID
U+0C3A..U+0C3B; UNASSIGNED
U+0C3C; UNDER REVIEW
U+0C3D..U+0C44; PVALID
U+0C45; UNASSIGNED
U+0C46..U+0C48; PVALID
U+0C49; UNASSIGNED
U+0C4A..U+0C4D; PVALID
U+0C4E..U+0C54; UNASSIGNED
U+0C55..U+0C56; PVALID
U+0C57; UNASSIGNED
U+0C58..U+0C5A; PVALID
U+0C5B; UNASSIGNED
U+0C5C..U+0C5D; PVALID
U+0C5E..U+0C5F; UNASSIGNED
U+0C60..U+0C63; PVALID
U+0C64..U+0C65; UNASSIGNED
U+0C66..U+0C6F; PVALID
U+0C70..U+0C76; UNASSIGNED
U+0C77..U+0C7F; DISALLOWED
U+0C80..U+0C83; PVALID
U+0C84; DISALLOWED
U+0C85..U+0C8C; PVALID
U+0C8D; UNASSIGNED
U+0C8E..U+0C90; PVALID
U+0C91; UNASSIGNED
U+0C92..U+0CA8; PVALID
U+0CA9; UNASSIGNED
U+0CAA..U+0CB3; PVALID
U+0CB4; UNASSIGNED
U+0CB5..U+0CB9; PVALID

U+0CBA..U+0CBB; UNASSIGNED
U+0CBC..U+0CC4; PVALID
U+0CC5; UNASSIGNED
U+0CC6..U+0CC8; PVALID
U+0CC9; UNASSIGNED
U+0CCA..U+0CCD; PVALID
U+0CCE..U+0CD4; UNASSIGNED
U+0CD5..U+0CD6; PVALID
U+0CD7..U+0CDB; UNASSIGNED
U+0CDC..U+0CDE; PVALID
U+0CDF; UNASSIGNED
U+0CE0..U+0CE3; PVALID
U+0CE4..U+0CE5; UNASSIGNED
U+0CE6..U+0CEF; PVALID
U+0CF0; UNASSIGNED
U+0CF1..U+0CF3; PVALID
U+0CF4..U+0CFF; UNASSIGNED
U+0D00..U+0D0C; PVALID
U+0D0D; UNASSIGNED
U+0D0E..U+0D10; PVALID
U+0D11; UNASSIGNED
U+0D12..U+0D44; PVALID
U+0D45; UNASSIGNED
U+0D46..U+0D48; PVALID
U+0D49; UNASSIGNED
U+0D4A..U+0D4E; PVALID
U+0D4F; DISALLOWED
U+0D50..U+0D53; UNASSIGNED
U+0D54..U+0D57; PVALID
U+0D58..U+0D5E; DISALLOWED
U+0D5F..U+0D63; PVALID
U+0D64..U+0D65; UNASSIGNED
U+0D66..U+0D6F; PVALID
U+0D70..U+0D79; DISALLOWED
U+0D7A..U+0D7F; PVALID
U+0D80; UNASSIGNED
U+0D81; UNDER REVIEW
U+0D82..U+0D83; PVALID
U+0D84; UNASSIGNED
U+0D85..U+0D96; PVALID
U+0D97..U+0D99; UNASSIGNED
U+0D9A..U+0DB1; PVALID
U+0DB2; UNASSIGNED
U+0DB3..U+0DBB; PVALID
U+0DBC; UNASSIGNED
U+0DBD; PVALID
U+0DBE..U+0DBF; UNASSIGNED
U+0DC0..U+0DC6; PVALID

U+0DC7..U+0DC9; UNASSIGNED
U+0DCA; PVALID
U+0DCB..U+0DCE; UNASSIGNED
U+0DCF..U+0DD4; PVALID
U+0DD5; UNASSIGNED
U+0DD6; PVALID
U+0DD7; UNASSIGNED
U+0DD8..U+0DDF; PVALID
U+0DE0..U+0DE5; UNASSIGNED
U+0DE6..U+0DEF; PVALID
U+0DF0..U+0DF1; UNASSIGNED
U+0DF2..U+0DF3; PVALID
U+0DF4; DISALLOWED
U+0DF5..U+0E00; UNASSIGNED
U+0E01..U+0E32; PVALID
U+0E33; DISALLOWED
U+0E34..U+0E3A; PVALID
U+0E3B..U+0E3E; UNASSIGNED
U+0E3F; DISALLOWED
U+0E40..U+0E4E; PVALID
U+0E4F; DISALLOWED
U+0E50..U+0E59; PVALID
U+0E5A..U+0E5B; DISALLOWED
U+0E5C..U+0E80; UNASSIGNED
U+0E81..U+0E82; PVALID
U+0E83; UNASSIGNED
U+0E84; PVALID
U+0E85; UNASSIGNED
U+0E86..U+0E8A; PVALID
U+0E8B; UNASSIGNED
U+0E8C..U+0EA3; PVALID
U+0EA4; UNASSIGNED
U+0EA5; PVALID
U+0EA6; UNASSIGNED
U+0EA7..U+0EB2; PVALID
U+0EB3; DISALLOWED
U+0EB4..U+0EBD; PVALID
U+0EBE..U+0EBF; UNASSIGNED
U+0EC0..U+0EC4; PVALID
U+0EC5; UNASSIGNED
U+0EC6; PVALID
U+0EC7; UNASSIGNED
U+0EC8..U+0ECD; PVALID
U+0ECE; UNDER REVIEW
U+0ECF; UNASSIGNED
U+0ED0..U+0ED9; PVALID
U+0EDA..U+0EDB; UNASSIGNED
U+0EDC..U+0EDD; DISALLOWED

U+0EDE..U+0EDF; PVALID
U+0EE0..U+0EFF; UNASSIGNED
U+0F00; PVALID
U+0F01..U+0F0A; DISALLOWED
U+0F0B; PVALID
U+0F0C..U+0F17; DISALLOWED
U+0F18..U+0F19; PVALID
U+0F1A..U+0F1F; DISALLOWED
U+0F20..U+0F29; PVALID
U+0F2A..U+0F34; DISALLOWED
U+0F35; PVALID
U+0F36; DISALLOWED
U+0F37; PVALID
U+0F38; DISALLOWED
U+0F39; PVALID
U+0F3A..U+0F3D; DISALLOWED
U+0F3E..U+0F42; PVALID
U+0F43; DISALLOWED
U+0F44..U+0F47; PVALID
U+0F48; UNASSIGNED
U+0F49..U+0F4C; PVALID
U+0F4D; DISALLOWED
U+0F4E..U+0F51; PVALID
U+0F52; DISALLOWED
U+0F53..U+0F56; PVALID
U+0F57; DISALLOWED
U+0F58..U+0F5B; PVALID
U+0F5C; DISALLOWED
U+0F5D..U+0F68; PVALID
U+0F69; DISALLOWED
U+0F6A..U+0F6C; PVALID
U+0F6D..U+0F70; UNASSIGNED
U+0F71..U+0F72; PVALID
U+0F73; DISALLOWED
U+0F74; PVALID
U+0F75..U+0F79; DISALLOWED
U+0F7A..U+0F80; PVALID
U+0F81; DISALLOWED
U+0F82..U+0F84; PVALID
U+0F85; DISALLOWED
U+0F86..U+0F92; PVALID
U+0F93; DISALLOWED
U+0F94..U+0F97; PVALID
U+0F98; UNASSIGNED
U+0F99..U+0F9C; PVALID
U+0F9D; DISALLOWED
U+0F9E..U+0FA1; PVALID
U+0FA2; DISALLOWED

U+0FA3..U+0FA6; PVALID
U+0FA7; DISALLOWED
U+0FA8..U+0FAB; PVALID
U+0FAC; DISALLOWED
U+0FAD..U+0FB8; PVALID
U+0FB9; DISALLOWED
U+0FBA..U+0FBC; PVALID
U+0FBD; UNASSIGNED
U+0FBE..U+0FC5; DISALLOWED
U+0FC6; PVALID
U+0FC7..U+0FCC; DISALLOWED
U+0FCD; UNASSIGNED
U+0FCE..U+0FDA; DISALLOWED
U+0FDB..U+0FFF; UNASSIGNED
U+1000..U+1049; PVALID
U+104A..U+104F; DISALLOWED
U+1050..U+109D; PVALID
U+109E..U+10C5; DISALLOWED
U+10C6; UNASSIGNED
U+10C7; DISALLOWED
U+10C8..U+10CC; UNASSIGNED
U+10CD; DISALLOWED
U+10CE..U+10CF; UNASSIGNED
U+10D0..U+10FA; PVALID
U+10FB..U+10FC; DISALLOWED
U+10FD..U+10FF; PVALID
U+1100..U+11FF; DISALLOWED
U+1200..U+1248; PVALID
U+1249; UNASSIGNED
U+124A..U+124D; PVALID
U+124E..U+124F; UNASSIGNED
U+1250..U+1256; PVALID
U+1257; UNASSIGNED
U+1258; PVALID
U+1259; UNASSIGNED
U+125A..U+125D; PVALID
U+125E..U+125F; UNASSIGNED
U+1260..U+1288; PVALID
U+1289; UNASSIGNED
U+128A..U+128D; PVALID
U+128E..U+128F; UNASSIGNED
U+1290..U+12B0; PVALID
U+12B1; UNASSIGNED
U+12B2..U+12B5; PVALID
U+12B6..U+12B7; UNASSIGNED
U+12B8..U+12BE; PVALID
U+12BF; UNASSIGNED
U+12C0; PVALID

U+12C1; UNASSIGNED
U+12C2..U+12C5; PVALID
U+12C6..U+12C7; UNASSIGNED
U+12C8..U+12D6; PVALID
U+12D7; UNASSIGNED
U+12D8..U+1310; PVALID
U+1311; UNASSIGNED
U+1312..U+1315; PVALID
U+1316..U+1317; UNASSIGNED
U+1318..U+135A; PVALID
U+135B..U+135C; UNASSIGNED
U+135D..U+135F; PVALID
U+1360..U+137C; DISALLOWED
U+137D..U+137F; UNASSIGNED
U+1380..U+138F; PVALID
U+1390..U+1399; DISALLOWED
U+139A..U+139F; UNASSIGNED
U+13A0..U+13F5; PVALID
U+13F6..U+13F7; UNASSIGNED
U+13F8..U+13FD; DISALLOWED
U+13FE..U+13FF; UNASSIGNED
U+1400; DISALLOWED
U+1401..U+166C; PVALID
U+166D..U+166E; DISALLOWED
U+166F..U+167F; PVALID
U+1680; DISALLOWED
U+1681..U+169A; PVALID
U+169B..U+169C; DISALLOWED
U+169D..U+169F; UNASSIGNED
U+16A0..U+16EA; PVALID
U+16EB..U+16F0; DISALLOWED
U+16F1..U+16F8; PVALID
U+16F9..U+16FF; UNASSIGNED
U+1700..U+1715; PVALID
U+1716..U+171E; UNASSIGNED
U+171F..U+1734; PVALID
U+1735..U+1736; DISALLOWED
U+1737..U+173F; UNASSIGNED
U+1740..U+1753; PVALID
U+1754..U+175F; UNASSIGNED
U+1760..U+176C; PVALID
U+176D; UNASSIGNED
U+176E..U+1770; PVALID
U+1771; UNASSIGNED
U+1772..U+1773; PVALID
U+1774..U+177F; UNASSIGNED
U+1780..U+17B3; PVALID
U+17B4..U+17B5; DISALLOWED

U+17B6..U+17D3; PVALID
U+17D4..U+17D6; DISALLOWED
U+17D7; PVALID
U+17D8..U+17DB; DISALLOWED
U+17DC..U+17DD; PVALID
U+17DE..U+17DF; UNASSIGNED
U+17E0..U+17E9; PVALID
U+17EA..U+17EF; UNASSIGNED
U+17F0..U+17F9; DISALLOWED
U+17FA..U+17FF; UNASSIGNED
U+1800..U+180E; DISALLOWED
U+180F; UNDER REVIEW
U+1810..U+1819; PVALID
U+181A..U+181F; UNASSIGNED
U+1820..U+1878; PVALID
U+1879..U+187F; UNASSIGNED
U+1880..U+18AA; PVALID
U+18AB..U+18AF; UNASSIGNED
U+18B0..U+18F5; PVALID
U+18F6..U+18FF; UNASSIGNED
U+1900..U+191E; PVALID
U+191F; UNASSIGNED
U+1920..U+192B; PVALID
U+192C..U+192F; UNASSIGNED
U+1930..U+193B; PVALID
U+193C..U+193F; UNASSIGNED
U+1940; DISALLOWED
U+1941..U+1943; UNASSIGNED
U+1944..U+1945; DISALLOWED
U+1946..U+196D; PVALID
U+196E..U+196F; UNASSIGNED
U+1970..U+1974; PVALID
U+1975..U+197F; UNASSIGNED
U+1980..U+19AB; PVALID
U+19AC..U+19AF; UNASSIGNED
U+19B0..U+19C9; PVALID
U+19CA..U+19CF; UNASSIGNED
U+19D0..U+19D9; PVALID
U+19DA; DISALLOWED
U+19DB..U+19DD; UNASSIGNED
U+19DE..U+19FF; DISALLOWED
U+1A00..U+1A1B; PVALID
U+1A1C..U+1A1D; UNASSIGNED
U+1A1E..U+1A1F; DISALLOWED
U+1A20..U+1A5E; PVALID
U+1A5F; UNASSIGNED
U+1A60..U+1A7C; PVALID
U+1A7D..U+1A7E; UNASSIGNED

U+1A7F..U+1A89; PVALID
U+1A8A..U+1A8F; UNASSIGNED
U+1A90..U+1A99; PVALID
U+1A9A..U+1A9F; UNASSIGNED
U+1AA0..U+1AA6; DISALLOWED
U+1AA7; PVALID
U+1AA8..U+1AAD; DISALLOWED
U+1AAE..U+1AAF; UNASSIGNED
U+1AB0..U+1ABD; PVALID
U+1ABE; DISALLOWED
U+1ABF..U+1ADD; UNDER REVIEW
U+1ADE..U+1ADF; UNASSIGNED
U+1AE0..U+1AEB; UNDER REVIEW
U+1AEC..U+1AFF; UNASSIGNED
U+1B00..U+1B4C; PVALID
U+1B4D; UNASSIGNED
U+1B4E..U+1B4F; DISALLOWED
U+1B50..U+1B59; PVALID
U+1B5A..U+1B6A; DISALLOWED
U+1B6B..U+1B73; PVALID
U+1B74..U+1B7F; DISALLOWED
U+1B80..U+1BF3; PVALID
U+1BF4..U+1BFB; UNASSIGNED
U+1BFC..U+1BFF; DISALLOWED
U+1C00..U+1C37; PVALID
U+1C38..U+1C3A; UNASSIGNED
U+1C3B..U+1C3F; DISALLOWED
U+1C40..U+1C49; PVALID
U+1C4A..U+1C4C; UNASSIGNED
U+1C4D..U+1C7D; PVALID
U+1C7E..U+1C89; DISALLOWED
U+1C8A; PVALID
U+1C8B..U+1C8F; UNASSIGNED
U+1C90..U+1CBA; DISALLOWED
U+1CBB..U+1CBC; UNASSIGNED
U+1CBD..U+1CC7; DISALLOWED
U+1CC8..U+1CCF; UNASSIGNED
U+1CD0..U+1CD2; PVALID
U+1CD3; DISALLOWED
U+1CD4..U+1CFA; PVALID
U+1CFB..U+1CFF; UNASSIGNED
U+1D00..U+1D2B; PVALID
U+1D2C..U+1D2E; DISALLOWED
U+1D2F; PVALID
U+1D30..U+1D3A; DISALLOWED
U+1D3B; PVALID
U+1D3C..U+1D4D; DISALLOWED
U+1D4E; PVALID

U+1D4F..U+1D6A; DISALLOWED
U+1D6B..U+1D77; PVALID
U+1D78; DISALLOWED
U+1D79..U+1D9A; PVALID
U+1D9B..U+1DBF; DISALLOWED
U+1DC0..U+1DF9; PVALID
U+1DFA; UNDER REVIEW
U+1DFB..U+1DFF; PVALID
U+1E00; DISALLOWED
U+1E01; PVALID
U+1E02; DISALLOWED
U+1E03; PVALID
U+1E04; DISALLOWED
U+1E05; PVALID
U+1E06; DISALLOWED
U+1E07; PVALID
U+1E08; DISALLOWED
U+1E09; PVALID
U+1E0A; DISALLOWED
U+1E0B; PVALID
U+1E0C; DISALLOWED
U+1E0D; PVALID
U+1E0E; DISALLOWED
U+1E0F; PVALID
U+1E10; DISALLOWED
U+1E11; PVALID
U+1E12; DISALLOWED
U+1E13; PVALID
U+1E14; DISALLOWED
U+1E15; PVALID
U+1E16; DISALLOWED
U+1E17; PVALID
U+1E18; DISALLOWED
U+1E19; PVALID
U+1E1A; DISALLOWED
U+1E1B; PVALID
U+1E1C; DISALLOWED
U+1E1D; PVALID
U+1E1E; DISALLOWED
U+1E1F; PVALID
U+1E20; DISALLOWED
U+1E21; PVALID
U+1E22; DISALLOWED
U+1E23; PVALID
U+1E24; DISALLOWED
U+1E25; PVALID
U+1E26; DISALLOWED
U+1E27; PVALID

U+1E28; DISALLOWED
U+1E29; PVALID
U+1E2A; DISALLOWED
U+1E2B; PVALID
U+1E2C; DISALLOWED
U+1E2D; PVALID
U+1E2E; DISALLOWED
U+1E2F; PVALID
U+1E30; DISALLOWED
U+1E31; PVALID
U+1E32; DISALLOWED
U+1E33; PVALID
U+1E34; DISALLOWED
U+1E35; PVALID
U+1E36; DISALLOWED
U+1E37; PVALID
U+1E38; DISALLOWED
U+1E39; PVALID
U+1E3A; DISALLOWED
U+1E3B; PVALID
U+1E3C; DISALLOWED
U+1E3D; PVALID
U+1E3E; DISALLOWED
U+1E3F; PVALID
U+1E40; DISALLOWED
U+1E41; PVALID
U+1E42; DISALLOWED
U+1E43; PVALID
U+1E44; DISALLOWED
U+1E45; PVALID
U+1E46; DISALLOWED
U+1E47; PVALID
U+1E48; DISALLOWED
U+1E49; PVALID
U+1E4A; DISALLOWED
U+1E4B; PVALID
U+1E4C; DISALLOWED
U+1E4D; PVALID
U+1E4E; DISALLOWED
U+1E4F; PVALID
U+1E50; DISALLOWED
U+1E51; PVALID
U+1E52; DISALLOWED
U+1E53; PVALID
U+1E54; DISALLOWED
U+1E55; PVALID
U+1E56; DISALLOWED
U+1E57; PVALID

U+1E58; DISALLOWED
U+1E59; PVALID
U+1E5A; DISALLOWED
U+1E5B; PVALID
U+1E5C; DISALLOWED
U+1E5D; PVALID
U+1E5E; DISALLOWED
U+1E5F; PVALID
U+1E60; DISALLOWED
U+1E61; PVALID
U+1E62; DISALLOWED
U+1E63; PVALID
U+1E64; DISALLOWED
U+1E65; PVALID
U+1E66; DISALLOWED
U+1E67; PVALID
U+1E68; DISALLOWED
U+1E69; PVALID
U+1E6A; DISALLOWED
U+1E6B; PVALID
U+1E6C; DISALLOWED
U+1E6D; PVALID
U+1E6E; DISALLOWED
U+1E6F; PVALID
U+1E70; DISALLOWED
U+1E71; PVALID
U+1E72; DISALLOWED
U+1E73; PVALID
U+1E74; DISALLOWED
U+1E75; PVALID
U+1E76; DISALLOWED
U+1E77; PVALID
U+1E78; DISALLOWED
U+1E79; PVALID
U+1E7A; DISALLOWED
U+1E7B; PVALID
U+1E7C; DISALLOWED
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U+1E7F; PVALID
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U+1E83; PVALID
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U+1E85; PVALID
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U+1E87; PVALID

U+1E88; DISALLOWED
U+1E89; PVALID
U+1E8A; DISALLOWED
U+1E8B; PVALID
U+1E8C; DISALLOWED
U+1E8D; PVALID
U+1E8E; DISALLOWED
U+1E8F; PVALID
U+1E90; DISALLOWED
U+1E91; PVALID
U+1E92; DISALLOWED
U+1E93; PVALID
U+1E94; DISALLOWED
U+1E95..U+1E99; PVALID
U+1E9A..U+1E9B; DISALLOWED
U+1E9C..U+1E9D; PVALID
U+1E9E; DISALLOWED
U+1E9F; PVALID
U+1EA0; DISALLOWED
U+1EA1; PVALID
U+1EA2; DISALLOWED
U+1EA3; PVALID
U+1EA4; DISALLOWED
U+1EA5; PVALID
U+1EA6; DISALLOWED
U+1EA7; PVALID
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U+1EB1; PVALID
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U+1EB6; DISALLOWED
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U+1EB8; DISALLOWED
U+1EB9; PVALID
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U+1EBB; PVALID
U+1EBC; DISALLOWED
U+1EBD; PVALID

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U+1EBF; PVALID
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U+1EC1; PVALID
U+1EC2; DISALLOWED
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U+1EC5; PVALID
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U+1ECC; DISALLOWED
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U+1ECF; PVALID
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U+1ED4; DISALLOWED
U+1ED5; PVALID
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U+1ED7; PVALID
U+1ED8; DISALLOWED
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U+1EDB; PVALID
U+1EDC; DISALLOWED
U+1EDD; PVALID
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U+1EDF; PVALID
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U+1EE1; PVALID
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U+1EE3; PVALID
U+1EE4; DISALLOWED
U+1EE5; PVALID
U+1EE6; DISALLOWED
U+1EE7; PVALID
U+1EE8; DISALLOWED
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U+1EEB; PVALID
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U+1EED; PVALID

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U+1EF3; PVALID
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U+1EF5; PVALID
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U+1EF7; PVALID
U+1EF8; DISALLOWED
U+1EF9; PVALID
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U+1EFB; PVALID
U+1EFC; DISALLOWED
U+1EFD; PVALID
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U+1EFF..U+1F07; PVALID
U+1F08..U+1F0F; DISALLOWED
U+1F10..U+1F15; PVALID
U+1F16..U+1F17; UNASSIGNED
U+1F18..U+1F1D; DISALLOWED
U+1F1E..U+1F1F; UNASSIGNED
U+1F20..U+1F27; PVALID
U+1F28..U+1F2F; DISALLOWED
U+1F30..U+1F37; PVALID
U+1F38..U+1F3F; DISALLOWED
U+1F40..U+1F45; PVALID
U+1F46..U+1F47; UNASSIGNED
U+1F48..U+1F4D; DISALLOWED
U+1F4E..U+1F4F; UNASSIGNED
U+1F50..U+1F57; PVALID
U+1F58; UNASSIGNED
U+1F59; DISALLOWED
U+1F5A; UNASSIGNED
U+1F5B; DISALLOWED
U+1F5C; UNASSIGNED
U+1F5D; DISALLOWED
U+1F5E; UNASSIGNED
U+1F5F; DISALLOWED
U+1F60..U+1F67; PVALID
U+1F68..U+1F6F; DISALLOWED
U+1F70; PVALID
U+1F71; DISALLOWED
U+1F72; PVALID
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U+1F75; DISALLOWED

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U+1F7C; PVALID
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U+1F7E..U+1F7F; UNASSIGNED
U+1F80..U+1FAF; DISALLOWED
U+1FB0..U+1FB1; PVALID
U+1FB2..U+1FB4; DISALLOWED
U+1FB5; UNASSIGNED
U+1FB6; PVALID
U+1FB7..U+1FC4; DISALLOWED
U+1FC5; UNASSIGNED
U+1FC6; PVALID
U+1FC7..U+1FCF; DISALLOWED
U+1FD0..U+1FD2; PVALID
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U+1FD4..U+1FD5; UNASSIGNED
U+1FD6..U+1FD7; PVALID
U+1FD8..U+1FDB; DISALLOWED
U+1FDC; UNASSIGNED
U+1FDD..U+1FDF; DISALLOWED
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U+1FE3; DISALLOWED
U+1FE4..U+1FE7; PVALID
U+1FE8..U+1FEF; DISALLOWED
U+1FF0..U+1FF1; UNASSIGNED
U+1FF2..U+1FF4; DISALLOWED
U+1FF5; UNASSIGNED
U+1FF6; PVALID
U+1FF7..U+1FFE; DISALLOWED
U+1FFF; UNASSIGNED
U+2000..U+200B; DISALLOWED
U+200C..U+200D; CONTEXTJ
U+200E..U+2064; DISALLOWED
U+2065; UNASSIGNED
U+2066..U+2071; DISALLOWED
U+2072..U+2073; UNASSIGNED
U+2074..U+208E; DISALLOWED
U+208F; UNASSIGNED
U+2090..U+209C; DISALLOWED
U+209D..U+209F; UNASSIGNED
U+20A0..U+20C0; DISALLOWED
U+20C1..U+20CF; UNASSIGNED
U+20D0..U+20F0; DISALLOWED

U+20F1..U+20FF; UNASSIGNED
U+2100..U+214D; DISALLOWED
U+214E; PVALID
U+214F..U+2183; DISALLOWED
U+2184; PVALID
U+2185..U+218B; DISALLOWED
U+218C..U+218F; UNASSIGNED
U+2190..U+2429; DISALLOWED
U+242A..U+243F; UNASSIGNED
U+2440..U+244A; DISALLOWED
U+244B..U+245F; UNASSIGNED
U+2460..U+2B73; DISALLOWED
U+2B74..U+2B75; UNASSIGNED
U+2B76..U+2C2F; DISALLOWED
U+2C30..U+2C5F; PVALID
U+2C60; DISALLOWED
U+2C61; PVALID
U+2C62..U+2C64; DISALLOWED
U+2C65..U+2C66; PVALID
U+2C67; DISALLOWED
U+2C68; PVALID
U+2C69; DISALLOWED
U+2C6A; PVALID
U+2C6B; DISALLOWED
U+2C6C; PVALID
U+2C6D..U+2C70; DISALLOWED
U+2C71; PVALID
U+2C72; DISALLOWED
U+2C73..U+2C74; PVALID
U+2C75; DISALLOWED
U+2C76..U+2C7B; PVALID
U+2C7C..U+2C80; DISALLOWED
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U+2CC8; DISALLOWED
U+2CC9; PVALID
U+2CCA; DISALLOWED
U+2CCB; PVALID
U+2CCC; DISALLOWED
U+2CCD; PVALID
U+2CCE; DISALLOWED
U+2CCF; PVALID
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U+2CD8; DISALLOWED
U+2CD9; PVALID
U+2CDA; DISALLOWED
U+2CDB; PVALID
U+2CDC; DISALLOWED
U+2CDD; PVALID
U+2CDE; DISALLOWED
U+2CDF; PVALID
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U+2CEC; PVALID
U+2CED; DISALLOWED
U+2CEE..U+2CF1; PVALID
U+2CF2; DISALLOWED
U+2CF3; PVALID
U+2CF4..U+2CF8; UNASSIGNED
U+2CF9..U+2CFF; DISALLOWED
U+2D00..U+2D25; PVALID
U+2D26; UNASSIGNED
U+2D27; PVALID
U+2D28..U+2D2C; UNASSIGNED
U+2D2D; PVALID

U+2D2E..U+2D2F; UNASSIGNED
U+2D30..U+2D67; PVALID
U+2D68..U+2D6E; UNASSIGNED
U+2D6F..U+2D70; DISALLOWED
U+2D71..U+2D7E; UNASSIGNED
U+2D7F..U+2D96; PVALID
U+2D97..U+2D9F; UNASSIGNED
U+2DA0..U+2DA6; PVALID
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U+2DA8..U+2DAE; PVALID
U+2DAF; UNASSIGNED
U+2DB0..U+2DB6; PVALID
U+2DB7; UNASSIGNED
U+2DB8..U+2DBE; PVALID
U+2DBF; UNASSIGNED
U+2DC0..U+2DC6; PVALID
U+2DC7; UNASSIGNED
U+2DC8..U+2DCE; PVALID
U+2DCF; UNASSIGNED
U+2DD0..U+2DD6; PVALID
U+2DD7; UNASSIGNED
U+2DD8..U+2DDE; PVALID
U+2DDF; UNASSIGNED
U+2DE0..U+2DFF; PVALID
U+2E00..U+2E2E; DISALLOWED
U+2E2F; PVALID
U+2E30..U+2E5D; DISALLOWED
U+2E5E..U+2E7F; UNASSIGNED
U+2E80..U+2E99; DISALLOWED
U+2E9A; UNASSIGNED
U+2E9B..U+2EF3; DISALLOWED
U+2EF4..U+2EFF; UNASSIGNED
U+2F00..U+2FD5; DISALLOWED
U+2FD6..U+2FEF; UNASSIGNED
U+2FF0..U+3004; DISALLOWED
U+3005..U+3007; PVALID
U+3008..U+3029; DISALLOWED
U+302A..U+302D; PVALID
U+302E..U+303B; DISALLOWED
U+303C; PVALID
U+303D..U+303F; DISALLOWED
U+3040; UNASSIGNED
U+3041..U+3096; PVALID
U+3097..U+3098; UNASSIGNED
U+3099..U+309A; PVALID
U+309B..U+309C; DISALLOWED
U+309D..U+309E; PVALID
U+309F..U+30A0; DISALLOWED

U+30A1..U+30FA; PVALID
U+30FB; CONTEXTO
U+30FC..U+30FE; PVALID
U+30FF; DISALLOWED
U+3100..U+3104; UNASSIGNED
U+3105..U+312F; PVALID
U+3130; UNASSIGNED
U+3131..U+318E; DISALLOWED
U+318F; UNASSIGNED
U+3190..U+319F; DISALLOWED
U+31A0..U+31BF; PVALID
U+31C0..U+31E5; DISALLOWED
U+31E6..U+31EE; UNASSIGNED
U+31EF; DISALLOWED
U+31F0..U+31FF; PVALID
U+3200..U+321E; DISALLOWED
U+321F; UNASSIGNED
U+3220..U+33FF; DISALLOWED
U+3400..U+4DBF; PVALID
U+4DC0..U+4DFF; DISALLOWED
U+4E00..U+A48C; PVALID
U+A48D..U+A48F; UNASSIGNED
U+A490..U+A4C6; DISALLOWED
U+A4C7..U+A4CF; UNASSIGNED
U+A4D0..U+A4FD; PVALID
U+A4FE..U+A4FF; DISALLOWED
U+A500..U+A60C; PVALID
U+A60D..U+A60F; DISALLOWED
U+A610..U+A62B; PVALID
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U+A670..U+A673; DISALLOWED
U+A674..U+A67D; PVALID
U+A67E; DISALLOWED
U+A67F; PVALID
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U+A69B; PVALID
U+A69C..U+A69D; DISALLOWED
U+A69E..U+A6E5; PVALID
U+A6E6..U+A6EF; DISALLOWED
U+A6F0..U+A6F1; PVALID
U+A6F2..U+A6F7; DISALLOWED
U+A6F8..U+A6FF; UNASSIGNED
U+A700..U+A716; DISALLOWED
U+A717..U+A71F; PVALID
U+A720..U+A722; DISALLOWED
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U+A73F; PVALID

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U+A76C; DISALLOWED
U+A76D; PVALID
U+A76E; DISALLOWED
U+A76F; PVALID

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U+A771..U+A778; PVALID
U+A779; DISALLOWED
U+A77A; PVALID
U+A77B; DISALLOWED
U+A77C; PVALID
U+A77D..U+A77E; DISALLOWED
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U+A787..U+A788; PVALID
U+A789..U+A78B; DISALLOWED
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U+A78D; DISALLOWED
U+A78E..U+A78F; PVALID
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U+A793..U+A795; PVALID
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U+A7B5; PVALID

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U+A7CF; PVALID
U+A7D0; DISALLOWED
U+A7D1; PVALID
U+A7D2; DISALLOWED
U+A7D3; PVALID
U+A7D4; DISALLOWED
U+A7D5; PVALID
U+A7D6; DISALLOWED
U+A7D7; PVALID
U+A7D8; DISALLOWED
U+A7D9; PVALID
U+A7DA; DISALLOWED
U+A7DB; PVALID
U+A7DC; DISALLOWED
U+A7DD..U+A7F0; UNASSIGNED
U+A7F1..U+A7F5; DISALLOWED
U+A7F6..U+A7F7; PVALID
U+A7F8..U+A7F9; DISALLOWED
U+A7FA..U+A827; PVALID
U+A828..U+A82B; DISALLOWED
U+A82C; UNDER REVIEW
U+A82D..U+A82F; UNASSIGNED
U+A830..U+A839; DISALLOWED
U+A83A..U+A83F; UNASSIGNED
U+A840..U+A873; PVALID
U+A874..U+A877; DISALLOWED
U+A878..U+A87F; UNASSIGNED

U+A880..U+A8C5; PVALID
U+A8C6..U+A8CD; UNASSIGNED
U+A8CE..U+A8CF; DISALLOWED
U+A8D0..U+A8D9; PVALID
U+A8DA..U+A8DF; UNASSIGNED
U+A8E0..U+A8F7; PVALID
U+A8F8..U+A8FA; DISALLOWED
U+A8FB; PVALID
U+A8FC; DISALLOWED
U+A8FD..U+A92D; PVALID
U+A92E..U+A92F; DISALLOWED
U+A930..U+A953; PVALID
U+A954..U+A95E; UNASSIGNED
U+A95F..U+A97C; DISALLOWED
U+A97D..U+A97F; UNASSIGNED
U+A980..U+A9C0; PVALID
U+A9C1..U+A9CD; DISALLOWED
U+A9CE; UNASSIGNED
U+A9CF..U+A9D9; PVALID
U+A9DA..U+A9DD; UNASSIGNED
U+A9DE..U+A9DF; DISALLOWED
U+A9E0..U+A9FE; PVALID
U+A9FF; UNASSIGNED
U+AA00..U+AA36; PVALID
U+AA37..U+AA3F; UNASSIGNED
U+AA40..U+AA4D; PVALID
U+AA4E..U+AA4F; UNASSIGNED
U+AA50..U+AA59; PVALID
U+AA5A..U+AA5B; UNASSIGNED
U+AA5C..U+AA5F; DISALLOWED
U+AA60..U+AA76; PVALID
U+AA77..U+AA79; DISALLOWED
U+AA7A..U+AAC2; PVALID
U+AAC3..U+AADA; UNASSIGNED
U+AADB..U+AADD; PVALID
U+AADE..U+AADF; DISALLOWED
U+AAE0..U+AAEF; PVALID
U+AAF0..U+AAF1; DISALLOWED
U+AAF2..U+AAF6; PVALID
U+AAF7..U+AB00; UNASSIGNED
U+AB01..U+AB06; PVALID
U+AB07..U+AB08; UNASSIGNED
U+AB09..U+AB0E; PVALID
U+AB0F..U+AB10; UNASSIGNED
U+AB11..U+AB16; PVALID
U+AB17..U+AB1F; UNASSIGNED
U+AB20..U+AB26; PVALID
U+AB27; UNASSIGNED

U+AB28..U+AB2E; PVALID
U+AB2F; UNASSIGNED
U+AB30..U+AB5A; PVALID
U+AB5B..U+AB5F; DISALLOWED
U+AB60..U+AB68; PVALID
U+AB69..U+AB6B; DISALLOWED
U+AB6C..U+AB6F; UNASSIGNED
U+AB70..U+ABBF; DISALLOWED
U+ABC0..U+ABEA; PVALID
U+ABEB; DISALLOWED
U+ABEC..U+ABED; PVALID
U+ABEE..U+ABEF; UNASSIGNED
U+ABF0..U+ABF9; PVALID
U+ABFA..U+ABFF; UNASSIGNED
U+AC00..U+D7A3; PVALID
U+D7A4..U+D7AF; UNASSIGNED
U+D7B0..U+D7C6; DISALLOWED
U+D7C7..U+D7CA; UNASSIGNED
U+D7CB..U+D7FB; DISALLOWED
U+D7FC..U+D7FF; UNASSIGNED
U+D800..U+FA0D; DISALLOWED
U+FA0E..U+FA0F; PVALID
U+FA10; DISALLOWED
U+FA11; PVALID
U+FA12; DISALLOWED
U+FA13..U+FA14; PVALID
U+FA15..U+FA1E; DISALLOWED
U+FA1F; PVALID
U+FA20; DISALLOWED
U+FA21; PVALID
U+FA22; DISALLOWED
U+FA23..U+FA24; PVALID
U+FA25..U+FA26; DISALLOWED
U+FA27..U+FA29; PVALID
U+FA2A..U+FA6D; DISALLOWED
U+FA6E..U+FA6F; UNASSIGNED
U+FA70..U+FAD9; DISALLOWED
U+FADA..U+FAFF; UNASSIGNED
U+FB00..U+FB06; DISALLOWED
U+FB07..U+FB12; UNASSIGNED
U+FB13..U+FB17; DISALLOWED
U+FB18..U+FB1C; UNASSIGNED
U+FB1D; DISALLOWED
U+FB1E; PVALID
U+FB1F..U+FB36; DISALLOWED
U+FB37; UNASSIGNED
U+FB38..U+FB3C; DISALLOWED
U+FB3D; UNASSIGNED

U+FB3E; DISALLOWED
U+FB3F; UNASSIGNED
U+FB40..U+FB41; DISALLOWED
U+FB42; UNASSIGNED
U+FB43..U+FB44; DISALLOWED
U+FB45; UNASSIGNED
U+FB46..U+FE19; DISALLOWED
U+FE1A..U+FE1F; UNASSIGNED
U+FE20..U+FE2F; PVALID
U+FE30..U+FE52; DISALLOWED
U+FE53; UNASSIGNED
U+FE54..U+FE66; DISALLOWED
U+FE67; UNASSIGNED
U+FE68..U+FE6B; DISALLOWED
U+FE6C..U+FE6F; UNASSIGNED
U+FE70..U+FE72; DISALLOWED
U+FE73; PVALID
U+FE74; DISALLOWED
U+FE75; UNASSIGNED
U+FE76..U+FEFC; DISALLOWED
U+FEFD..U+FEFE; UNASSIGNED
U+FEFF; DISALLOWED
U+FF00; UNASSIGNED
U+FF01..U+FFBE; DISALLOWED
U+FFBF..U+FFC1; UNASSIGNED
U+FFC2..U+FFC7; DISALLOWED
U+FFC8..U+FFC9; UNASSIGNED
U+FFCA..U+FFCF; DISALLOWED
U+FFD0..U+FFD1; UNASSIGNED
U+FFD2..U+FFD7; DISALLOWED
U+FFD8..U+FFD9; UNASSIGNED
U+FFDA..U+FFDC; DISALLOWED
U+FFDD..U+FFDF; UNASSIGNED
U+FFE0..U+FFE6; DISALLOWED
U+FFE7; UNASSIGNED
U+FFE8..U+FFEE; DISALLOWED
U+FFEF..U+FFF8; UNASSIGNED
U+FFF9..U+FFFF; DISALLOWED
U+10000..U+1000B; PVALID
U+1000C; UNASSIGNED
U+1000D..U+10026; PVALID
U+10027; UNASSIGNED
U+10028..U+1003A; PVALID
U+1003B; UNASSIGNED
U+1003C..U+1003D; PVALID
U+1003E; UNASSIGNED
U+1003F..U+1004D; PVALID
U+1004E..U+1004F; UNASSIGNED

U+10050..U+1005D; PVALID
U+1005E..U+1007F; UNASSIGNED
U+10080..U+100FA; PVALID
U+100FB..U+100FF; UNASSIGNED
U+10100..U+10102; DISALLOWED
U+10103..U+10106; UNASSIGNED
U+10107..U+10133; DISALLOWED
U+10134..U+10136; UNASSIGNED
U+10137..U+1018E; DISALLOWED
U+1018F; UNASSIGNED
U+10190..U+1019C; DISALLOWED
U+1019D..U+1019F; UNASSIGNED
U+101A0; DISALLOWED
U+101A1..U+101CF; UNASSIGNED
U+101D0..U+101FC; DISALLOWED
U+101FD; PVALID
U+101FE..U+1027F; UNASSIGNED
U+10280..U+1029C; PVALID
U+1029D..U+1029F; UNASSIGNED
U+102A0..U+102D0; PVALID
U+102D1..U+102DF; UNASSIGNED
U+102E0; PVALID
U+102E1..U+102FB; DISALLOWED
U+102FC..U+102FF; UNASSIGNED
U+10300..U+1031F; PVALID
U+10320..U+10323; DISALLOWED
U+10324..U+1032C; UNASSIGNED
U+1032D..U+10340; PVALID
U+10341; DISALLOWED
U+10342..U+10349; PVALID
U+1034A; DISALLOWED
U+1034B..U+1034F; UNASSIGNED
U+10350..U+1037A; PVALID
U+1037B..U+1037F; UNASSIGNED
U+10380..U+1039D; PVALID
U+1039E; UNASSIGNED
U+1039F; DISALLOWED
U+103A0..U+103C3; PVALID
U+103C4..U+103C7; UNASSIGNED
U+103C8..U+103CF; PVALID
U+103D0..U+103D5; DISALLOWED
U+103D6..U+103FF; UNASSIGNED
U+10400..U+10427; DISALLOWED
U+10428..U+1049D; PVALID
U+1049E..U+1049F; UNASSIGNED
U+104A0..U+104A9; PVALID
U+104AA..U+104AF; UNASSIGNED
U+104B0..U+104D3; DISALLOWED

U+104D4..U+104D7; UNASSIGNED
U+104D8..U+104FB; PVALID
U+104FC..U+104FF; UNASSIGNED
U+10500..U+10527; PVALID
U+10528..U+1052F; UNASSIGNED
U+10530..U+10563; PVALID
U+10564..U+1056E; UNASSIGNED
U+1056F..U+1057A; DISALLOWED
U+1057B; UNASSIGNED
U+1057C..U+1058A; DISALLOWED
U+1058B; UNASSIGNED
U+1058C..U+10592; DISALLOWED
U+10593; UNASSIGNED
U+10594..U+10595; DISALLOWED
U+10596; UNASSIGNED
U+10597..U+105A1; PVALID
U+105A2; UNASSIGNED
U+105A3..U+105B1; PVALID
U+105B2; UNASSIGNED
U+105B3..U+105B9; PVALID
U+105BA; UNASSIGNED
U+105BB..U+105BC; PVALID
U+105BD..U+105BF; UNASSIGNED
U+105C0..U+105C8; PVALID
U+105C9; UNDER REVIEW
U+105CA..U+105E3; PVALID
U+105E4; UNDER REVIEW
U+105E5..U+105F3; PVALID
U+105F4..U+105FF; UNASSIGNED
U+10600..U+10736; PVALID
U+10737..U+1073F; UNASSIGNED
U+10740..U+10755; PVALID
U+10756..U+1075F; UNASSIGNED
U+10760..U+10767; PVALID
U+10768..U+1077F; UNASSIGNED
U+10780; PVALID
U+10781..U+10785; DISALLOWED
U+10786; UNASSIGNED
U+10787..U+107B0; DISALLOWED
U+107B1; UNASSIGNED
U+107B2..U+107BA; DISALLOWED
U+107BB..U+107FF; UNASSIGNED
U+10800..U+10805; PVALID
U+10806..U+10807; UNASSIGNED
U+10808; PVALID
U+10809; UNASSIGNED
U+1080A..U+10835; PVALID
U+10836; UNASSIGNED

U+10837..U+10838; PVALID
U+10839..U+1083B; UNASSIGNED
U+1083C; PVALID
U+1083D..U+1083E; UNASSIGNED
U+1083F..U+10855; PVALID
U+10856; UNASSIGNED
U+10857..U+1085F; DISALLOWED
U+10860..U+10876; PVALID
U+10877..U+1087F; DISALLOWED
U+10880..U+1089E; PVALID
U+1089F..U+108A6; UNASSIGNED
U+108A7..U+108AF; DISALLOWED
U+108B0..U+108DF; UNASSIGNED
U+108E0..U+108F2; PVALID
U+108F3; UNASSIGNED
U+108F4..U+108F5; PVALID
U+108F6..U+108FA; UNASSIGNED
U+108FB..U+108FF; DISALLOWED
U+10900..U+10915; PVALID
U+10916..U+1091B; DISALLOWED
U+1091C..U+1091E; UNASSIGNED
U+1091F; DISALLOWED
U+10920..U+10939; PVALID
U+1093A..U+1093E; UNASSIGNED
U+1093F; DISALLOWED
U+10940..U+1095C; PVALID
U+1095D..U+1097F; UNASSIGNED
U+10980..U+109B7; PVALID
U+109B8..U+109BB; UNASSIGNED
U+109BC..U+109BD; DISALLOWED
U+109BE..U+109BF; PVALID
U+109C0..U+109CF; DISALLOWED
U+109D0..U+109D1; UNASSIGNED
U+109D2..U+109FF; DISALLOWED
U+10A00..U+10A03; PVALID
U+10A04; UNASSIGNED
U+10A05..U+10A06; PVALID
U+10A07..U+10A0B; UNASSIGNED
U+10A0C..U+10A13; PVALID
U+10A14; UNASSIGNED
U+10A15..U+10A17; PVALID
U+10A18; UNASSIGNED
U+10A19..U+10A35; PVALID
U+10A36..U+10A37; UNASSIGNED
U+10A38..U+10A3A; PVALID
U+10A3B..U+10A3E; UNASSIGNED
U+10A3F; PVALID
U+10A40..U+10A48; DISALLOWED

U+10A49..U+10A4F; UNASSIGNED
U+10A50..U+10A58; DISALLOWED
U+10A59..U+10A5F; UNASSIGNED
U+10A60..U+10A7C; PVALID
U+10A7D..U+10A7F; DISALLOWED
U+10A80..U+10A9C; PVALID
U+10A9D..U+10A9F; DISALLOWED
U+10AA0..U+10ABF; UNASSIGNED
U+10AC0..U+10AC7; PVALID
U+10AC8; DISALLOWED
U+10AC9..U+10AE6; PVALID
U+10AE7..U+10AEA; UNASSIGNED
U+10AEB..U+10AF6; DISALLOWED
U+10AF7..U+10AFF; UNASSIGNED
U+10B00..U+10B35; PVALID
U+10B36..U+10B38; UNASSIGNED
U+10B39..U+10B3F; DISALLOWED
U+10B40..U+10B55; PVALID
U+10B56..U+10B57; UNASSIGNED
U+10B58..U+10B5F; DISALLOWED
U+10B60..U+10B72; PVALID
U+10B73..U+10B77; UNASSIGNED
U+10B78..U+10B7F; DISALLOWED
U+10B80..U+10B91; PVALID
U+10B92..U+10B98; UNASSIGNED
U+10B99..U+10B9C; DISALLOWED
U+10B9D..U+10BA8; UNASSIGNED
U+10BA9..U+10BAF; DISALLOWED
U+10BB0..U+10BFF; UNASSIGNED
U+10C00..U+10C48; PVALID
U+10C49..U+10C7F; UNASSIGNED
U+10C80..U+10CB2; DISALLOWED
U+10CB3..U+10CBF; UNASSIGNED
U+10CC0..U+10CF2; PVALID
U+10CF3..U+10CF9; UNASSIGNED
U+10CFA..U+10CFF; DISALLOWED
U+10D00..U+10D27; PVALID
U+10D28..U+10D2F; UNASSIGNED
U+10D30..U+10D39; PVALID
U+10D3A..U+10D3F; UNASSIGNED
U+10D40..U+10D4F; PVALID
U+10D50..U+10D65; DISALLOWED
U+10D66..U+10D68; UNASSIGNED
U+10D69..U+10D6D; UNDER REVIEW
U+10D6E; DISALLOWED
U+10D6F..U+10D85; PVALID
U+10D86..U+10D8D; UNASSIGNED
U+10D8E..U+10D8F; DISALLOWED

U+10D90..U+10E5F; UNASSIGNED
U+10E60..U+10E7E; DISALLOWED
U+10E7F; UNASSIGNED
U+10E80..U+10EA9; PVALID
U+10EAA; UNASSIGNED
U+10EAB..U+10EAC; UNDER REVIEW
U+10EAD; DISALLOWED
U+10EAE..U+10EAF; UNASSIGNED
U+10EB0..U+10EB1; PVALID
U+10EB2..U+10EC1; UNASSIGNED
U+10EC2..U+10EC7; PVALID
U+10EC8..U+10ECF; UNASSIGNED
U+10ED0..U+10ED8; DISALLOWED
U+10ED9..U+10EF9; UNASSIGNED
U+10EFA..U+10EFF; UNDER REVIEW
U+10F00..U+10F1C; PVALID
U+10F1D..U+10F26; DISALLOWED
U+10F27; PVALID
U+10F28..U+10F2F; UNASSIGNED
U+10F30..U+10F50; PVALID
U+10F51..U+10F59; DISALLOWED
U+10F5A..U+10F6F; UNASSIGNED
U+10F70..U+10F81; PVALID
U+10F82..U+10F85; UNDER REVIEW
U+10F86..U+10F89; DISALLOWED
U+10F8A..U+10FAF; UNASSIGNED
U+10FB0..U+10FC4; PVALID
U+10FC5..U+10FCB; DISALLOWED
U+10FCC..U+10FDF; UNASSIGNED
U+10FE0..U+10FF6; PVALID
U+10FF7..U+10FFF; UNASSIGNED
U+11000..U+11046; PVALID
U+11047..U+1104D; DISALLOWED
U+1104E..U+11051; UNASSIGNED
U+11052..U+11065; DISALLOWED
U+11066..U+1106F; PVALID
U+11070; UNDER REVIEW
U+11071..U+11072; PVALID
U+11073..U+11074; UNDER REVIEW
U+11075; PVALID
U+11076..U+1107E; UNASSIGNED
U+1107F..U+110BA; PVALID
U+110BB..U+110C1; DISALLOWED
U+110C2; UNDER REVIEW
U+110C3..U+110CC; UNASSIGNED
U+110CD; DISALLOWED
U+110CE..U+110CF; UNASSIGNED
U+110D0..U+110E8; PVALID

U+110E9..U+110EF; UNASSIGNED
U+110F0..U+110F9; PVALID
U+110FA..U+110FF; UNASSIGNED
U+11100..U+11134; PVALID
U+11135; UNASSIGNED
U+11136..U+1113F; PVALID
U+11140..U+11143; DISALLOWED
U+11144..U+11147; PVALID
U+11148..U+1114F; UNASSIGNED
U+11150..U+11173; PVALID
U+11174..U+11175; DISALLOWED
U+11176; PVALID
U+11177..U+1117F; UNASSIGNED
U+11180..U+111C4; PVALID
U+111C5..U+111C8; DISALLOWED
U+111C9..U+111CC; PVALID
U+111CD; DISALLOWED
U+111CE; PVALID
U+111CF; UNDER REVIEW
U+111D0..U+111DA; PVALID
U+111DB; DISALLOWED
U+111DC; PVALID
U+111DD..U+111DF; DISALLOWED
U+111E0; UNASSIGNED
U+111E1..U+111F4; DISALLOWED
U+111F5..U+111FF; UNASSIGNED
U+11200..U+11211; PVALID
U+11212; UNASSIGNED
U+11213..U+11237; PVALID
U+11238..U+1123D; DISALLOWED
U+1123E..U+11240; PVALID
U+11241; UNDER REVIEW
U+11242..U+1127F; UNASSIGNED
U+11280..U+11286; PVALID
U+11287; UNASSIGNED
U+11288; PVALID
U+11289; UNASSIGNED
U+1128A..U+1128D; PVALID
U+1128E; UNASSIGNED
U+1128F..U+1129D; PVALID
U+1129E; UNASSIGNED
U+1129F..U+112A8; PVALID
U+112A9; DISALLOWED
U+112AA..U+112AF; UNASSIGNED
U+112B0..U+112EA; PVALID
U+112EB..U+112EF; UNASSIGNED
U+112F0..U+112F9; PVALID
U+112FA..U+112FF; UNASSIGNED

U+11300..U+11303; PVALID
U+11304; UNASSIGNED
U+11305..U+1130C; PVALID
U+1130D..U+1130E; UNASSIGNED
U+1130F..U+11310; PVALID
U+11311..U+11312; UNASSIGNED
U+11313..U+11328; PVALID
U+11329; UNASSIGNED
U+1132A..U+11330; PVALID
U+11331; UNASSIGNED
U+11332..U+11333; PVALID
U+11334; UNASSIGNED
U+11335..U+11339; PVALID
U+1133A; UNASSIGNED
U+1133B..U+11344; PVALID
U+11345..U+11346; UNASSIGNED
U+11347..U+11348; PVALID
U+11349..U+1134A; UNASSIGNED
U+1134B..U+1134D; PVALID
U+1134E..U+1134F; UNASSIGNED
U+11350; PVALID
U+11351..U+11356; UNASSIGNED
U+11357; PVALID
U+11358..U+1135C; UNASSIGNED
U+1135D..U+11363; PVALID
U+11364..U+11365; UNASSIGNED
U+11366..U+1136C; PVALID
U+1136D..U+1136F; UNASSIGNED
U+11370..U+11374; PVALID
U+11375..U+1137F; UNASSIGNED
U+11380..U+11382; PVALID
U+11383; UNDER REVIEW
U+11384; PVALID
U+11385; UNDER REVIEW
U+11386..U+11389; PVALID
U+1138A; UNASSIGNED
U+1138B; PVALID
U+1138C..U+1138D; UNASSIGNED
U+1138E; UNDER REVIEW
U+1138F; UNASSIGNED
U+11390; PVALID
U+11391; UNDER REVIEW
U+11392..U+113B5; PVALID
U+113B6; UNASSIGNED
U+113B7..U+113BA; PVALID
U+113BB..U+113C0; UNDER REVIEW
U+113C1; UNASSIGNED
U+113C2; PVALID

U+113C3..U+113C4; UNASSIGNED
U+113C5; UNDER REVIEW
U+113C6; UNASSIGNED
U+113C7..U+113C8; UNDER REVIEW
U+113C9..U+113CA; PVALID
U+113CB; UNASSIGNED
U+113CC..U+113CD; PVALID
U+113CE; UNDER REVIEW
U+113CF; PVALID
U+113D0; UNDER REVIEW
U+113D1; PVALID
U+113D2; UNDER REVIEW
U+113D3; PVALID
U+113D4..U+113D5; DISALLOWED
U+113D6; UNASSIGNED
U+113D7..U+113D8; DISALLOWED
U+113D9..U+113E0; UNASSIGNED
U+113E1..U+113E2; UNDER REVIEW
U+113E3..U+113FF; UNASSIGNED
U+11400..U+1144A; PVALID
U+1144B..U+1144F; DISALLOWED
U+11450..U+11459; PVALID
U+1145A..U+1145B; DISALLOWED
U+1145C; UNASSIGNED
U+1145D; DISALLOWED
U+1145E..U+11461; PVALID
U+11462..U+1147F; UNASSIGNED
U+11480..U+114C5; PVALID
U+114C6; DISALLOWED
U+114C7; PVALID
U+114C8..U+114CF; UNASSIGNED
U+114D0..U+114D9; PVALID
U+114DA..U+1157F; UNASSIGNED
U+11580..U+115B5; PVALID
U+115B6..U+115B7; UNASSIGNED
U+115B8..U+115C0; PVALID
U+115C1..U+115D7; DISALLOWED
U+115D8..U+115DD; PVALID
U+115DE..U+115FF; UNASSIGNED
U+11600..U+11640; PVALID
U+11641..U+11643; DISALLOWED
U+11644; PVALID
U+11645..U+1164F; UNASSIGNED
U+11650..U+11659; PVALID
U+1165A..U+1165F; UNASSIGNED
U+11660..U+1166C; DISALLOWED
U+1166D..U+1167F; UNASSIGNED
U+11680..U+116B8; PVALID

U+116B9; DISALLOWED
U+116BA..U+116BF; UNASSIGNED
U+116C0..U+116C9; PVALID
U+116CA..U+116CF; UNASSIGNED
U+116D0..U+116E3; PVALID
U+116E4..U+116FF; UNASSIGNED
U+11700..U+1171A; PVALID
U+1171B..U+1171C; UNASSIGNED
U+1171D..U+1172B; PVALID
U+1172C..U+1172F; UNASSIGNED
U+11730..U+11739; PVALID
U+1173A..U+1173F; DISALLOWED
U+11740..U+11746; PVALID
U+11747..U+117FF; UNASSIGNED
U+11800..U+1183A; PVALID
U+1183B; DISALLOWED
U+1183C..U+1189F; UNASSIGNED
U+118A0..U+118BF; DISALLOWED
U+118C0..U+118E9; PVALID
U+118EA..U+118F2; DISALLOWED
U+118F3..U+118FE; UNASSIGNED
U+118FF..U+11906; PVALID
U+11907..U+11908; UNASSIGNED
U+11909; PVALID
U+1190A..U+1190B; UNASSIGNED
U+1190C..U+11913; PVALID
U+11914; UNASSIGNED
U+11915..U+11916; PVALID
U+11917; UNASSIGNED
U+11918..U+11935; PVALID
U+11936; UNASSIGNED
U+11937; PVALID
U+11938; UNDER REVIEW
U+11939..U+1193A; UNASSIGNED
U+1193B..U+1193C; UNDER REVIEW
U+1193D; PVALID
U+1193E; UNDER REVIEW
U+1193F..U+11942; PVALID
U+11943; UNDER REVIEW
U+11944..U+11946; DISALLOWED
U+11947..U+1194F; UNASSIGNED
U+11950..U+11959; PVALID
U+1195A..U+1199F; UNASSIGNED
U+119A0..U+119A7; PVALID
U+119A8..U+119A9; UNASSIGNED
U+119AA..U+119D7; PVALID
U+119D8..U+119D9; UNASSIGNED
U+119DA..U+119E1; PVALID

U+119E2; DISALLOWED
U+119E3..U+119E4; PVALID
U+119E5..U+119FF; UNASSIGNED
U+11A00..U+11A3E; PVALID
U+11A3F..U+11A46; DISALLOWED
U+11A47; PVALID
U+11A48..U+11A4F; UNASSIGNED
U+11A50..U+11A99; PVALID
U+11A9A..U+11A9C; DISALLOWED
U+11A9D; PVALID
U+11A9E..U+11AA2; DISALLOWED
U+11AA3..U+11AAF; UNASSIGNED
U+11AB0..U+11AF8; PVALID
U+11AF9..U+11AFF; UNASSIGNED
U+11B00..U+11B09; DISALLOWED
U+11B0A..U+11B5F; UNASSIGNED
U+11B60; UNDER REVIEW
U+11B61; PVALID
U+11B62..U+11B64; UNDER REVIEW
U+11B65; PVALID
U+11B66; UNDER REVIEW
U+11B67; PVALID
U+11B68..U+11BBF; UNASSIGNED
U+11BC0..U+11BE0; PVALID
U+11BE1; DISALLOWED
U+11BE2..U+11BEF; UNASSIGNED
U+11BF0..U+11BF9; PVALID
U+11BFA..U+11BFF; UNASSIGNED
U+11C00..U+11C08; PVALID
U+11C09; UNASSIGNED
U+11C0A..U+11C36; PVALID
U+11C37; UNASSIGNED
U+11C38..U+11C40; PVALID
U+11C41..U+11C45; DISALLOWED
U+11C46..U+11C4F; UNASSIGNED
U+11C50..U+11C59; PVALID
U+11C5A..U+11C6C; DISALLOWED
U+11C6D..U+11C6F; UNASSIGNED
U+11C70..U+11C71; DISALLOWED
U+11C72..U+11C8F; PVALID
U+11C90..U+11C91; UNASSIGNED
U+11C92..U+11CA7; PVALID
U+11CA8; UNASSIGNED
U+11CA9..U+11CB6; PVALID
U+11CB7..U+11CFF; UNASSIGNED
U+11D00..U+11D06; PVALID
U+11D07; UNASSIGNED
U+11D08..U+11D09; PVALID

U+11D0A; UNASSIGNED
U+11D0B..U+11D36; PVALID
U+11D37..U+11D39; UNASSIGNED
U+11D3A; PVALID
U+11D3B; UNASSIGNED
U+11D3C..U+11D3D; PVALID
U+11D3E; UNASSIGNED
U+11D3F..U+11D47; PVALID
U+11D48..U+11D4F; UNASSIGNED
U+11D50..U+11D59; PVALID
U+11D5A..U+11D5F; UNASSIGNED
U+11D60..U+11D65; PVALID
U+11D66; UNASSIGNED
U+11D67..U+11D68; PVALID
U+11D69; UNASSIGNED
U+11D6A..U+11D8E; PVALID
U+11D8F; UNASSIGNED
U+11D90..U+11D91; PVALID
U+11D92; UNASSIGNED
U+11D93..U+11D98; PVALID
U+11D99..U+11D9F; UNASSIGNED
U+11DA0..U+11DA9; PVALID
U+11DAA..U+11DAF; UNASSIGNED
U+11DB0..U+11DDB; PVALID
U+11DDC..U+11DDF; UNASSIGNED
U+11DE0..U+11DE9; PVALID
U+11DEA..U+11EDF; UNASSIGNED
U+11EE0..U+11EF6; PVALID
U+11EF7..U+11EF8; DISALLOWED
U+11EF9..U+11EFF; UNASSIGNED
U+11F00..U+11F01; UNDER REVIEW
U+11F02..U+11F10; PVALID
U+11F11; UNASSIGNED
U+11F12..U+11F35; PVALID
U+11F36..U+11F3A; UNDER REVIEW
U+11F3B..U+11F3D; UNASSIGNED
U+11F3E..U+11F3F; PVALID
U+11F40; UNDER REVIEW
U+11F41; PVALID
U+11F42; UNDER REVIEW
U+11F43..U+11F4F; DISALLOWED
U+11F50..U+11F59; PVALID
U+11F5A; UNDER REVIEW
U+11F5B..U+11FAF; UNASSIGNED
U+11FB0; PVALID
U+11FB1..U+11FBF; UNASSIGNED
U+11FC0..U+11FF1; DISALLOWED
U+11FF2..U+11FFE; UNASSIGNED

U+11FFF; DISALLOWED
U+12000..U+12399; PVALID
U+1239A..U+123FF; UNASSIGNED
U+12400..U+1246E; DISALLOWED
U+1246F; UNASSIGNED
U+12470..U+12474; DISALLOWED
U+12475..U+1247F; UNASSIGNED
U+12480..U+12543; PVALID
U+12544..U+12F8F; UNASSIGNED
U+12F90..U+12FF0; PVALID
U+12FF1..U+12FF2; DISALLOWED
U+12FF3..U+12FFF; UNASSIGNED
U+13000..U+1342F; PVALID
U+13430..U+1343F; DISALLOWED
U+13440; UNDER REVIEW
U+13441..U+13446; PVALID
U+13447..U+13455; UNDER REVIEW
U+13456..U+1345F; UNASSIGNED
U+13460..U+143FA; PVALID
U+143FB..U+143FF; UNASSIGNED
U+14400..U+14646; PVALID
U+14647..U+160FF; UNASSIGNED
U+16100..U+1611D; PVALID
U+1611E..U+16129; UNDER REVIEW
U+1612A..U+1612C; PVALID
U+1612D..U+1612F; UNDER REVIEW
U+16130..U+16139; PVALID
U+1613A..U+167FF; UNASSIGNED
U+16800..U+16A38; PVALID
U+16A39..U+16A3F; UNASSIGNED
U+16A40..U+16A5E; PVALID
U+16A5F; UNASSIGNED
U+16A60..U+16A69; PVALID
U+16A6A..U+16A6D; UNASSIGNED
U+16A6E..U+16A6F; DISALLOWED
U+16A70..U+16ABE; PVALID
U+16ABF; UNASSIGNED
U+16AC0..U+16AC9; PVALID
U+16ACA..U+16ACF; UNASSIGNED
U+16AD0..U+16AED; PVALID
U+16AEE..U+16AEF; UNASSIGNED
U+16AF0..U+16AF4; PVALID
U+16AF5; DISALLOWED
U+16AF6..U+16AFF; UNASSIGNED
U+16B00..U+16B36; PVALID
U+16B37..U+16B3F; DISALLOWED
U+16B40..U+16B43; PVALID
U+16B44..U+16B45; DISALLOWED

U+16B46..U+16B4F; UNASSIGNED
U+16B50..U+16B59; PVALID
U+16B5A; UNASSIGNED
U+16B5B..U+16B61; DISALLOWED
U+16B62; UNASSIGNED
U+16B63..U+16B77; PVALID
U+16B78..U+16B7C; UNASSIGNED
U+16B7D..U+16B8F; PVALID
U+16B90..U+16D3F; UNASSIGNED
U+16D40..U+16D67; PVALID
U+16D68..U+16D6A; UNDER REVIEW
U+16D6B..U+16D6C; PVALID
U+16D6D..U+16D6F; DISALLOWED
U+16D70..U+16D79; PVALID
U+16D7A..U+16D7F; UNASSIGNED
U+16D80..U+16D97; PVALID
U+16D98; UNDER REVIEW
U+16D99..U+16D9C; PVALID
U+16D9D; UNDER REVIEW
U+16D9E..U+16D9F; UNASSIGNED
U+16DA0..U+16DA9; PVALID
U+16DAA..U+16E3F; UNASSIGNED
U+16E40..U+16E5F; DISALLOWED
U+16E60..U+16E7F; PVALID
U+16E80..U+16E9A; DISALLOWED
U+16E9B..U+16E9F; UNASSIGNED
U+16EA0..U+16EB8; DISALLOWED
U+16EB9..U+16EBA; UNASSIGNED
U+16EBB..U+16ED3; PVALID
U+16ED4..U+16EFF; UNASSIGNED
U+16F00..U+16F4A; PVALID
U+16F4B..U+16F4E; UNASSIGNED
U+16F4F..U+16F87; PVALID
U+16F88..U+16F8E; UNASSIGNED
U+16F8F..U+16F9F; PVALID
U+16FA0..U+16FDF; UNASSIGNED
U+16FE0..U+16FE1; PVALID
U+16FE2; DISALLOWED
U+16FE3; PVALID
U+16FE4; UNDER REVIEW
U+16FE5..U+16FEF; UNASSIGNED
U+16FF0..U+16FF3; PVALID
U+16FF4..U+16FF6; DISALLOWED
U+16FF7..U+16FFF; UNASSIGNED
U+17000..U+18CD5; PVALID
U+18CD6..U+18CFE; UNASSIGNED
U+18CFF..U+18D1E; PVALID
U+18D1F..U+18D7F; UNASSIGNED

U+18D80..U+18DF2; PVALID
U+18DF3..U+1AFEF; UNASSIGNED
U+1AFF0..U+1AFF3; PVALID
U+1AFF4; UNASSIGNED
U+1AFF5..U+1AFFB; PVALID
U+1AFFC; UNASSIGNED
U+1AFFD..U+1AFFE; PVALID
U+1AFFF; UNASSIGNED
U+1B000..U+1B122; PVALID
U+1B123..U+1B131; UNASSIGNED
U+1B132; PVALID
U+1B133..U+1B14F; UNASSIGNED
U+1B150..U+1B152; PVALID
U+1B153..U+1B154; UNASSIGNED
U+1B155; PVALID
U+1B156..U+1B163; UNASSIGNED
U+1B164..U+1B167; PVALID
U+1B168..U+1B16F; UNASSIGNED
U+1B170..U+1B2FB; PVALID
U+1B2FC..U+1BBFF; UNASSIGNED
U+1BC00..U+1BC6A; PVALID
U+1BC6B..U+1BC6F; UNASSIGNED
U+1BC70..U+1BC7C; PVALID
U+1BC7D..U+1BC7F; UNASSIGNED
U+1BC80..U+1BC88; PVALID
U+1BC89..U+1BC8F; UNASSIGNED
U+1BC90..U+1BC99; PVALID
U+1BC9A..U+1BC9B; UNASSIGNED
U+1BC9C; DISALLOWED
U+1BC9D..U+1BC9E; PVALID
U+1BC9F..U+1BCA3; DISALLOWED
U+1BCA4..U+1CBFF; UNASSIGNED
U+1CC00..U+1CCFC; DISALLOWED
U+1CCFD..U+1CCFF; UNASSIGNED
U+1CD00..U+1CEB3; DISALLOWED
U+1CEB4..U+1CEB9; UNASSIGNED
U+1CEBA..U+1CED0; DISALLOWED
U+1CED1..U+1CEDF; UNASSIGNED
U+1CEE0..U+1CEF0; DISALLOWED
U+1CEF1..U+1CEFF; UNASSIGNED
U+1CF00..U+1CF2D; UNDER REVIEW
U+1CF2E..U+1CF2F; UNASSIGNED
U+1CF30..U+1CF46; UNDER REVIEW
U+1CF47..U+1CF4F; UNASSIGNED
U+1CF50..U+1CFC3; DISALLOWED
U+1CFC4..U+1CFFF; UNASSIGNED
U+1D000..U+1D0F5; DISALLOWED
U+1D0F6..U+1D0FF; UNASSIGNED

U+1D100..U+1D126; DISALLOWED
U+1D127..U+1D128; UNASSIGNED
U+1D129..U+1D1EA; DISALLOWED
U+1D1EB..U+1D1FF; UNASSIGNED
U+1D200..U+1D245; DISALLOWED
U+1D246..U+1D2BF; UNASSIGNED
U+1D2C0..U+1D2D3; DISALLOWED
U+1D2D4..U+1D2DF; UNASSIGNED
U+1D2E0..U+1D2F3; DISALLOWED
U+1D2F4..U+1D2FF; UNASSIGNED
U+1D300..U+1D356; DISALLOWED
U+1D357..U+1D35F; UNASSIGNED
U+1D360..U+1D378; DISALLOWED
U+1D379..U+1D3FF; UNASSIGNED
U+1D400..U+1D454; DISALLOWED
U+1D455; UNASSIGNED
U+1D456..U+1D49C; DISALLOWED
U+1D49D; UNASSIGNED
U+1D49E..U+1D49F; DISALLOWED
U+1D4A0..U+1D4A1; UNASSIGNED
U+1D4A2; DISALLOWED
U+1D4A3..U+1D4A4; UNASSIGNED
U+1D4A5..U+1D4A6; DISALLOWED
U+1D4A7..U+1D4A8; UNASSIGNED
U+1D4A9..U+1D4AC; DISALLOWED
U+1D4AD; UNASSIGNED
U+1D4AE..U+1D4B9; DISALLOWED
U+1D4BA; UNASSIGNED
U+1D4BB; DISALLOWED
U+1D4BC; UNASSIGNED
U+1D4BD..U+1D4C3; DISALLOWED
U+1D4C4; UNASSIGNED
U+1D4C5..U+1D505; DISALLOWED
U+1D506; UNASSIGNED
U+1D507..U+1D50A; DISALLOWED
U+1D50B..U+1D50C; UNASSIGNED
U+1D50D..U+1D514; DISALLOWED
U+1D515; UNASSIGNED
U+1D516..U+1D51C; DISALLOWED
U+1D51D; UNASSIGNED
U+1D51E..U+1D539; DISALLOWED
U+1D53A; UNASSIGNED
U+1D53B..U+1D53E; DISALLOWED
U+1D53F; UNASSIGNED
U+1D540..U+1D544; DISALLOWED
U+1D545; UNASSIGNED
U+1D546; DISALLOWED
U+1D547..U+1D549; UNASSIGNED

U+1D54A..U+1D550; DISALLOWED
U+1D551; UNASSIGNED
U+1D552..U+1D6A5; DISALLOWED
U+1D6A6..U+1D6A7; UNASSIGNED
U+1D6A8..U+1D7CB; DISALLOWED
U+1D7CC..U+1D7CD; UNASSIGNED
U+1D7CE..U+1D9FF; DISALLOWED
U+1DA00..U+1DA36; PVALID
U+1DA37..U+1DA3A; DISALLOWED
U+1DA3B..U+1DA6C; PVALID
U+1DA6D..U+1DA74; DISALLOWED
U+1DA75; PVALID
U+1DA76..U+1DA83; DISALLOWED
U+1DA84; PVALID
U+1DA85..U+1DA8B; DISALLOWED
U+1DA8C..U+1DA9A; UNASSIGNED
U+1DA9B..U+1DA9F; PVALID
U+1DAA0; UNASSIGNED
U+1DAA1..U+1DAAF; PVALID
U+1DAB0..U+1DEFF; UNASSIGNED
U+1DF00..U+1DF1E; PVALID
U+1DF1F..U+1DF24; UNASSIGNED
U+1DF25..U+1DF2A; PVALID
U+1DF2B..U+1DFFF; UNASSIGNED
U+1E000..U+1E006; PVALID
U+1E007; UNASSIGNED
U+1E008..U+1E018; PVALID
U+1E019..U+1E01A; UNASSIGNED
U+1E01B..U+1E021; PVALID
U+1E022; UNASSIGNED
U+1E023..U+1E024; PVALID
U+1E025; UNASSIGNED
U+1E026..U+1E02A; PVALID
U+1E02B..U+1E02F; UNASSIGNED
U+1E030..U+1E06D; DISALLOWED
U+1E06E..U+1E08E; UNASSIGNED
U+1E08F; UNDER REVIEW
U+1E090..U+1E0FF; UNASSIGNED
U+1E100..U+1E12C; PVALID
U+1E12D..U+1E12F; UNASSIGNED
U+1E130..U+1E13D; PVALID
U+1E13E..U+1E13F; UNASSIGNED
U+1E140..U+1E149; PVALID
U+1E14A..U+1E14D; UNASSIGNED
U+1E14E; PVALID
U+1E14F; DISALLOWED
U+1E150..U+1E28F; UNASSIGNED
U+1E290..U+1E2AD; PVALID

U+1E2AE; UNDER REVIEW
U+1E2AF..U+1E2BF; UNASSIGNED
U+1E2C0..U+1E2F9; PVALID
U+1E2FA..U+1E2FE; UNASSIGNED
U+1E2FF; DISALLOWED
U+1E300..U+1E4CF; UNASSIGNED
U+1E4D0..U+1E4EB; PVALID
U+1E4EC..U+1E4EF; UNDER REVIEW
U+1E4F0..U+1E4F9; PVALID
U+1E4FA..U+1E5CF; UNASSIGNED
U+1E5D0..U+1E5ED; PVALID
U+1E5EE..U+1E5EF; UNDER REVIEW
U+1E5F0..U+1E5FA; PVALID
U+1E5FB..U+1E5FE; UNASSIGNED
U+1E5FF; DISALLOWED
U+1E600..U+1E6BF; UNASSIGNED
U+1E6C0..U+1E6DE; PVALID
U+1E6DF; UNASSIGNED
U+1E6E0..U+1E6E2; PVALID
U+1E6E3; UNDER REVIEW
U+1E6E4..U+1E6E5; PVALID
U+1E6E6; UNDER REVIEW
U+1E6E7..U+1E6ED; PVALID
U+1E6EE..U+1E6EF; UNDER REVIEW
U+1E6F0..U+1E6F4; PVALID
U+1E6F5; UNDER REVIEW
U+1E6F6..U+1E6FD; UNASSIGNED
U+1E6FE..U+1E6FF; PVALID
U+1E700..U+1E7DF; UNASSIGNED
U+1E7E0..U+1E7E6; PVALID
U+1E7E7; UNASSIGNED
U+1E7E8..U+1E7EB; PVALID
U+1E7EC; UNASSIGNED
U+1E7ED..U+1E7EE; PVALID
U+1E7EF; UNASSIGNED
U+1E7F0..U+1E7FE; PVALID
U+1E7FF; UNASSIGNED
U+1E800..U+1E8C4; PVALID
U+1E8C5..U+1E8C6; UNASSIGNED
U+1E8C7..U+1E8CF; DISALLOWED
U+1E8D0..U+1E8D6; PVALID
U+1E8D7..U+1E8FF; UNASSIGNED
U+1E900..U+1E921; DISALLOWED
U+1E922..U+1E94B; PVALID
U+1E94C..U+1E94F; UNASSIGNED
U+1E950..U+1E959; PVALID
U+1E95A..U+1E95D; UNASSIGNED
U+1E95E..U+1E95F; DISALLOWED

U+1E960..U+1EC70; UNASSIGNED
U+1EC71..U+1ECB4; DISALLOWED
U+1ECB5..U+1ED00; UNASSIGNED
U+1ED01..U+1ED3D; DISALLOWED
U+1ED3E..U+1EDFF; UNASSIGNED
U+1EE00..U+1EE03; DISALLOWED
U+1EE04; UNASSIGNED
U+1EE05..U+1EE1F; DISALLOWED
U+1EE20; UNASSIGNED
U+1EE21..U+1EE22; DISALLOWED
U+1EE23; UNASSIGNED
U+1EE24; DISALLOWED
U+1EE25..U+1EE26; UNASSIGNED
U+1EE27; DISALLOWED
U+1EE28; UNASSIGNED
U+1EE29..U+1EE32; DISALLOWED
U+1EE33; UNASSIGNED
U+1EE34..U+1EE37; DISALLOWED
U+1EE38; UNASSIGNED
U+1EE39; DISALLOWED
U+1EE3A; UNASSIGNED
U+1EE3B; DISALLOWED
U+1EE3C..U+1EE41; UNASSIGNED
U+1EE42; DISALLOWED
U+1EE43..U+1EE46; UNASSIGNED
U+1EE47; DISALLOWED
U+1EE48; UNASSIGNED
U+1EE49; DISALLOWED
U+1EE4A; UNASSIGNED
U+1EE4B; DISALLOWED
U+1EE4C; UNASSIGNED
U+1EE4D..U+1EE4F; DISALLOWED
U+1EE50; UNASSIGNED
U+1EE51..U+1EE52; DISALLOWED
U+1EE53; UNASSIGNED
U+1EE54; DISALLOWED
U+1EE55..U+1EE56; UNASSIGNED
U+1EE57; DISALLOWED
U+1EE58; UNASSIGNED
U+1EE59; DISALLOWED
U+1EE5A; UNASSIGNED
U+1EE5B; DISALLOWED
U+1EE5C; UNASSIGNED
U+1EE5D; DISALLOWED
U+1EE5E; UNASSIGNED
U+1EE5F; DISALLOWED
U+1EE60; UNASSIGNED
U+1EE61..U+1EE62; DISALLOWED

U+1EE63; UNASSIGNED
U+1EE64; DISALLOWED
U+1EE65..U+1EE66; UNASSIGNED
U+1EE67..U+1EE6A; DISALLOWED
U+1EE6B; UNASSIGNED
U+1EE6C..U+1EE72; DISALLOWED
U+1EE73; UNASSIGNED
U+1EE74..U+1EE77; DISALLOWED
U+1EE78; UNASSIGNED
U+1EE79..U+1EE7C; DISALLOWED
U+1EE7D; UNASSIGNED
U+1EE7E; DISALLOWED
U+1EE7F; UNASSIGNED
U+1EE80..U+1EE89; DISALLOWED
U+1EE8A; UNASSIGNED
U+1EE8B..U+1EE9B; DISALLOWED
U+1EE9C..U+1EEA0; UNASSIGNED
U+1EEA1..U+1EEA3; DISALLOWED
U+1EEA4; UNASSIGNED
U+1EEA5..U+1EEA9; DISALLOWED
U+1EEAA; UNASSIGNED
U+1EEAB..U+1EEBB; DISALLOWED
U+1EEBC..U+1EEEF; UNASSIGNED
U+1EEF0..U+1EEF1; DISALLOWED
U+1EEF2..U+1EEFF; UNASSIGNED
U+1F000..U+1F02B; DISALLOWED
U+1F02C..U+1F02F; UNASSIGNED
U+1F030..U+1F093; DISALLOWED
U+1F094..U+1F09F; UNASSIGNED
U+1F0A0..U+1F0AE; DISALLOWED
U+1F0AF..U+1F0B0; UNASSIGNED
U+1F0B1..U+1F0BF; DISALLOWED
U+1F0C0; UNASSIGNED
U+1F0C1..U+1F0CF; DISALLOWED
U+1F0D0; UNASSIGNED
U+1F0D1..U+1F0F5; DISALLOWED
U+1F0F6..U+1F0FF; UNASSIGNED
U+1F100..U+1F1AD; DISALLOWED
U+1F1AE..U+1F1E5; UNASSIGNED
U+1F1E6..U+1F202; DISALLOWED
U+1F203..U+1F20F; UNASSIGNED
U+1F210..U+1F23B; DISALLOWED
U+1F23C..U+1F23F; UNASSIGNED
U+1F240..U+1F248; DISALLOWED
U+1F249..U+1F24F; UNASSIGNED
U+1F250..U+1F251; DISALLOWED
U+1F252..U+1F25F; UNASSIGNED
U+1F260..U+1F265; DISALLOWED

U+1F266..U+1F2FF; UNASSIGNED
U+1F300..U+1F6D8; DISALLOWED
U+1F6D9..U+1F6DB; UNASSIGNED
U+1F6DC..U+1F6EC; DISALLOWED
U+1F6ED..U+1F6EF; UNASSIGNED
U+1F6F0..U+1F6FC; DISALLOWED
U+1F6FD..U+1F6FF; UNASSIGNED
U+1F700..U+1F7D9; DISALLOWED
U+1F7DA..U+1F7DF; UNASSIGNED
U+1F7E0..U+1F7EB; DISALLOWED
U+1F7EC..U+1F7EF; UNASSIGNED
U+1F7F0; DISALLOWED
U+1F7F1..U+1F7FF; UNASSIGNED
U+1F800..U+1F80B; DISALLOWED
U+1F80C..U+1F80F; UNASSIGNED
U+1F810..U+1F847; DISALLOWED
U+1F848..U+1F84F; UNASSIGNED
U+1F850..U+1F859; DISALLOWED
U+1F85A..U+1F85F; UNASSIGNED
U+1F860..U+1F887; DISALLOWED
U+1F888..U+1F88F; UNASSIGNED
U+1F890..U+1F8AD; DISALLOWED
U+1F8AE..U+1F8AF; UNASSIGNED
U+1F8B0..U+1F8BB; DISALLOWED
U+1F8BC..U+1F8BF; UNASSIGNED
U+1F8C0..U+1F8C1; DISALLOWED
U+1F8C2..U+1F8CF; UNASSIGNED
U+1F8D0..U+1F8D8; DISALLOWED
U+1F8D9..U+1F8FF; UNASSIGNED
U+1F900..U+1FA57; DISALLOWED
U+1FA58..U+1FA5F; UNASSIGNED
U+1FA60..U+1FA6D; DISALLOWED
U+1FA6E..U+1FA6F; UNASSIGNED
U+1FA70..U+1FA7C; DISALLOWED
U+1FA7D..U+1FA7F; UNASSIGNED
U+1FA80..U+1FA8A; DISALLOWED
U+1FA8B..U+1FA8D; UNASSIGNED
U+1FA8E..U+1FAC6; DISALLOWED
U+1FAC7; UNASSIGNED
U+1FAC8; DISALLOWED
U+1FAC9..U+1FACC; UNASSIGNED
U+1FACD..U+1FADD; DISALLOWED
U+1FADE; UNASSIGNED
U+1FADF..U+1FAEA; DISALLOWED
U+1FAEB..U+1FAEE; UNASSIGNED
U+1FAEF..U+1FAF8; DISALLOWED
U+1FAF9..U+1FAFF; UNASSIGNED
U+1FB00..U+1FB92; DISALLOWED

U+1FB93; UNASSIGNED
U+1FB94..U+1FBFA; DISALLOWED
U+1FBFB..U+1FFFD; UNASSIGNED
U+1FFFE..U+1FFFF; DISALLOWED
U+20000..U+2A6DF; PVALID
U+2A6E0..U+2A6FF; UNASSIGNED
U+2A700..U+2B73E; PVALID
U+2B73F; UNASSIGNED
U+2B740..U+2B81D; PVALID
U+2B81E..U+2B81F; UNASSIGNED
U+2B820..U+2CEA1; PVALID
U+2CEA2..U+2CEAF; UNASSIGNED
U+2CEB0..U+2EBE0; PVALID
U+2EBE1..U+2EBEF; UNASSIGNED
U+2EBF0..U+2EE5D; PVALID
U+2EE5E..U+2F7FF; UNASSIGNED
U+2F800..U+2FA1D; DISALLOWED
U+2FA1E..U+2FFFD; UNASSIGNED
U+2FFFE..U+2FFFF; DISALLOWED
U+30000..U+3134A; PVALID
U+3134B..U+3134F; UNASSIGNED
U+31350..U+33479; PVALID
U+3347A..U+3FFFD; UNASSIGNED
U+3FFFE..U+3FFFF; DISALLOWED
U+40000..U+4FFFD; UNASSIGNED
U+4FFFE..U+4FFFF; DISALLOWED
U+50000..U+5FFFD; UNASSIGNED
U+5FFFE..U+5FFFF; DISALLOWED
U+60000..U+6FFFD; UNASSIGNED
U+6FFFE..U+6FFFF; DISALLOWED
U+70000..U+7FFFD; UNASSIGNED
U+7FFFE..U+7FFFF; DISALLOWED
U+80000..U+8FFFD; UNASSIGNED
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U+AFFFE..U+AFFFF; DISALLOWED
U+B0000..U+BFFFD; UNASSIGNED
U+BFFFE..U+BFFFF; DISALLOWED
U+C0000..U+CFFFD; UNASSIGNED
U+CFFFE..U+CFFFF; DISALLOWED
U+D0000..U+DFFFD; UNASSIGNED
U+DFFFE..U+DFFFF; DISALLOWED
U+E0000; UNASSIGNED
U+E0001; DISALLOWED
U+E0002..U+E001F; UNASSIGNED
U+E0020..U+E007F; DISALLOWED

U+E0080..U+E00FF; UNASSIGNED
U+E0100..U+E01EF; DISALLOWED
U+E01F0..U+EFFFFD; UNASSIGNED
U+EFFFE..U+10FFFF; DISALLOWED

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