IDNA2008 and Unicode 11.0.0
draft-faltstrom-unicodel1-06

Abstract

This document describes the changes between Unicode 6.3.0 and Unicode 11.0.0 in the context of IDNA2008. It further suggests a path forward for the IETF to ensure IDNA2008 follows the evolution of the Unicode Standard.

Some changes have been made in the Unicode Standard related to the algorithm IDNA2008 specifies. IDNA2008 allows adding exceptions to the algorithm for backward compatibility; however, this document makes no such changes. Thus this document requests that IANA update the tables to Unicode 11.

The document also recommends that all DNS registries continue the practice of calculating a repertoire using conservatism and inclusion principles.

TO BE REMOVED AT TIME OF PUBLICATION AS AN RFC:

This document is discussed on the i18nrp@ietf.org mailing list of the IETF.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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1. Introduction

The current version of Internationalized Domain Names for Applications (IDNA) was largely completed in 2008, and is thus known within as "IDNA2008". It is specified in a series of documents listed in Section 3.1. The IDNA2008 standard includes an algorithm
by which a derived property value is calculated based on the properties defined from the Unicode Standard.

When the Unicode Standard is updated, new code points are assigned and already-assigned code points can have their property values changed.

- Assigning code points can create problems if the newly-assigned code points are compositions of code points changes (or would have changed) the normalization functions. These problems can arise if the new code points change the matching algorithms used and this in turn creates problems looking up already stored strings.

- Changing properties for already-assigned code points can create problems if the property change results in changes to the derived property value. This might make an earlier allowed code point whose derived property value is PVALID to then not be allowed anymore if its derived property value changes to DISALLOWED. The problem can also happen the other way around: a code point that was not allowed (and thus is blocked in some situations) to suddenly end up being allowed.

Historically, the IETF has accepted all implications of changes in the Unicode Standard even though the changes have resulted in problematic changes in the derived property value. The primary reason for that choice is that staying with the Unicode Standard has been viewed as important because of the diversity of implementations already existing in the wild.

As described in Section 4, a few changes have been made regarding certain attributes to code points in Unicode between version 6.3.0 and 11.0.0. Such changes could result in a change in the derived property value for the code point in question. If a change occurs, and it is between any of the derived property values except DISALLOWED, there is not a problem. This document concludes that no exceptions are to be added to IDNA2008 even if changes in the derived property value is a result of the changes made in Unicode between version 6.3.0 and 11.0.0.

In 2015, the Internet Architecture Board (IAB) issued a statement [IAB] which requested the IETF to resolve the issues related to the code point ARABIC LETTER BEH WITH HAMZA ABOVE (U+08A1) that was introduced in Unicode 7.0.0 [Unicode-7.0.0]. The current document resolves this issue and suggests that the IDNA2008 standard follows the Unicode Standard and not update RFC 5892 [RFC5892] or any other IDNA2008 RFCs.
2. Keywords for Requirement Levels

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 RFC2119 when, and only when, they appear in all capitals, as shown here.

3. Background

3.1. IDNA2008 Documents

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

- **RFC 5890** [RFC5890], informally called "Defs" or "Definitions", contains definitions and other material that are needed for understanding other documents in the set.

- **RFC 5891** [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).

- **RFC 5892** [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"), an is based originally on Unicode 5.2.0 [Unicode-5.2.0] code point assignments and additional rules unique to IDNA2008. The Unicode-based rules in RFC 4892 are expected to be stable across Unicode updates and hence independent of Unicode versions. RFC 5892 obsoletes RFC 3491 [RFC3491], and in particular the use of the tables to which it refers.

- **RFC 5893** [RFC5893], informally called "Bidi", specifies special rules for labels that contain characters that are written from right to left.

- **RFC 5894** [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).

- **RFC 5895** [RFC5895], informally called "Mapping", discusses the issue of mapping characters into other characters and that provides guidance for doing so when that is appropriate. RFC 5895 provides advice and is not a required part of IDNA.
o RFC 6452 [RFC6452] describes some changes made to Unicode 6.0.0 [Unicode-6.0.0] that resulted in the derived property value change for the code points U+0CF1, U+0CF2 and U+19DA. U+0CF1 and U+0CF2 changed from DISALLOWED to PVALID, while U+19DA changed from PVALID to DISSALLOWED. The IETF concluded that no update to RFC 5892 [RFC5892] was needed based on the changes made in Unicode 6.0.0 [Unicode-6.0.0]. As a result, the derived property value remained aligned with the Unicode Standard.

3.2. Deployment

The level of deployment of IDNA2008 is unfortunately quite diverse. The following lists some of the strategies that existing implementations are known to use:

o IDNA2003 as specified in RFC 3490 [RFC3490] and RFC 3491 [RFC3491] which implies using a table within which it is said whether code points are allowed to be used or not, after doing the normalization specified in IDNA2003.

o A mix between IDNA2003 and IDNA2008 where code points assigned to Unicode after Unicode 3.2.0 [Unicode-3.2.0] have derived property value calculated according to the algorithm specified in IDNA2008.

o Strict IDNA2008 following the current IANA tables, which implies staying at Unicode 6.3.0 [Unicode-6.3.0] and treating later assigned code points as UNASSIGNED.

o The IDNA2008 algorithm applied to whatever version of Unicode Standard exists in the operating system and/or libraries used, regardless of whether the version is later than Unicode version 6.3.0.

o A mix between IDNA2003 and IDNA2008 according to local interpretation of the Unicode Technical Standard #46 [UTS-46].

The issue is further complicated by having diverse implementations of the requirements in RFC 5894 [RFC5894] by DNS registry operators, based on the IDNA2008 specification, but with additional rules for the specific code points that are allowed for registration.

In practice, the Unicode Consortium creates a maximum set of code points by assigning code points in the Unicode Standard. The IDNA2008 rules based on the Unicode Standard create a subset of these by assigning the PVALID derived property value to them. DNS registries and other organizations that deal with IDNs are supposed to create their own subsets from IDNA2008 for use by those registries and organizations.
SAC-084 [SAC-084] and RFC 6912 [RFC6912] recommend to DNS registries and other organizations to be conservative when creating their subsets are calculated, and to use the principle of creating subsets by inclusion.

4. Notable Changes Between Unicode 6.3.0 and 11.0.0

4.1. Changes in Unicode 7.0.0

The character ARABIC LETTER BEH WITH HAMZA ABOVE (U+08A1) was introduced in Unicode 7.0.0. This was discussed extensively in the IETF, and by the IAB in their statement [IAB] requesting the IETF to investigate the issue. Specifically, the IAB stated:

On the same precautionary principle, the IAB recommends that the Internationalized Domain Names for Applications (IDNA) Parameters registry (http://www.iana.org/assignments/idna-tables/) not be updated to Unicode 7.0.0 until the IETF has consensus on a solution to this problem.

The discussion in the IETF concluded that although it is possible to create "the same" character in multiple ways, the issue with U+08A1 is not unique. The character U+08A1 can be represented with the sequence ARABIC LETTER BEH (U+0628) and ARABIC HAMZA ABOVE (U+0654). This identical to LATIN SMALL LETTER A WITH DIAERESIS (U+00E4), that can be represented with the sequence LATIN SMALL LETTER A (U+0061) followed by COMBINING DIAERESIS (U+0308). One difference between these two sequences is how they are treated in the normalization forms specified by the Unicode Consortium.

U+08A1 is discussed in draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters] and other Internet Drafts. Regardless of whether the discussion of those drafts ends in recommendations to include the code point in the repertoire of characters permissible for registration or not, it is still acceptable to allow the code point to have a derived property value of PVALID.

4.2. Changes between Unicode 7.0.0 and 10.0.0

There are no changes made to Unicode between version 7.0.0 and 10.0.0 that impact IDNA2008 calculation of the derived property value.

4.3. Changes in Unicode 11.0.0

The Unicode Standard Version 11.0.0 [Unicode-11.0.0] has included a number of changes [Changes-11.0.0] from version 10.0.0.
684 new characters were added, including letters, combining marks, digits, symbols, and punctuation marks.

Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF had their General Properties changed from Lo to Li, to reflect their status as the lowercase of new Georgian case pairs. Case mappings were also added.

SHARADA SANDHI MARK (U+111C9) was changed from Po to Mn, and from bc=L to bc=NSM.

The properties for ZANABAZAR SQUARE VOWEL SIGN AI (U+11A07) and ZANABZAR SQUARE VOWEL SIGN AU (U+11A08) were corrected from Mc to Mn.

SPHERICAL ANGLE OPENING UP (U+29A1) was changed to Bidi_M=N.

These changes to the Unicode Standard have the following implications for these code points:

The newly assigned 684 characters are to have a derived property value as a result of applying the IDNA2008 algorithm.

The Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF existed before IDNA2008 was created. Applying the IDNA2008 algorithm to the code points assigned the derived property value PVALID, and that value is unchanged even if the underlying Unicode properties have changed.

The U+111C9 SHARADA SANDHI MARK was added to Unicode 8.0.0 [Unicode-8.0.0]. Applying the IDNA2008 algorithm to the code point assigned the derived property value DISALLOWED. The changes in the underlying properties in the Unicode Standard Version 11.0.0 [Unicode-11.0.0] caused the derived property value to change to PVALID, which is an acceptable change.

The characters ZANABAZAR SQUARE VOWEL SIGN AI (U+11A07) and ZANABZAR SQUARE VOWEL SIGN AU (U+11A08) were added to Unicode 10.0.0 [Unicode-10.0.0]. Applying the IDNA2008 algorithm to the code points assigned the derived property value PVALID, and that value is unchanged even if the underlying Unicode properties have changed.

SPHERICAL ANGLE OPENING UP (U+29A1) existed before IDNA2008 was created. Applying the IDNA2008 algorithm to the code point assigned the derived property value PVALID, and that value is unchanged even if the underlying Unicode properties have changed.
5. Conclusion

As described in Section 4, changes have been made to Unicode between version 6.3.0 and 11.0.0. Some changes to specific characters changed their derived property value, while other changes did not. Given the diverse deployment described in Section 3.2 and the changes described, including implications to normalization, the conclusion of this document is to not add any exception rules to IDNA2008.

To increase overall harmonization in the use of IDNs, this document recommends that the derived property values MUST be calculated as specified in the documents listed in section Section 3.1 and with the code points in Unicode Version 11.0.0 [Unicode-11.0.0].

All DNS registries (and other organizations) SHOULD calculate a repertoire using the conservatism and inclusion principles, as described in SAC-084 [SAC-084] and similar documents.

6. IANA Considerations

IANA is requested to update the IDNA Parameters registry of derived property values, after the expert reviewer validates that the derived property values are calculated correctly.

7. Security Considerations

This document makes recommendations regarding the use of the IDNA2008 algorithm for calculation of derived property values, based on the current Unicode version. It also recommends that DNS registries (and others dealing with Internationalized Domain Names) explicitly select appropriate subsets of characters with the derived value of PVALID.

Not following these recommendations can lead to various security issues. Specifically, allowing confusable characters may lead to various phishing attacks, as described in the Security Consideration Sections in the documents listed in section Section 3.1.

8. Acknowledgements

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9. References
9.1. Normative References


9.2. Non-normative references


[Unicode-11.0.0]

[Unicode-3.2.0]

[Unicode-5.2.0]

[Unicode-6.0.0]

[Unicode-6.3.0]

[Unicode-7.0.0]

[Unicode-8.0.0]

[Unicode-9.0.0]

Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.

037F        ; DISALLOWED  # GREEK CAPITAL LETTER YOT
0528..052F  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK..C
058D..058E  ; DISALLOWED  # RIGHT-FACING ARmenian eternity sign..LEFT-FA
0605        ; DISALLOWED  # ARABIC NUMBER MARK ABOVE
08A1        ; PVALID    # ARABIC LETTER BEH WITH HAMZA ABOVE
08AD..08B2  ; PVALID    # ARABIC LETTER LOW ALEF..ARABIC LETTER ZAIN W
08FF        ; PVALID    # ARABIC MARK SIDEWAYS NOON GHUNNA
0978        ; PVALID    # DEVANAGARI LETTER MARWARI DDA
0980        ; PVALID    # BENGALI ANJI
0C00        ; PVALID    # TELUGU SIGN COMBINING CANDRABINDU ABOVE
0C81        ; PVALID    # TELUGU LETTER LLLA
0D01        ; PVALID    # KANADÁ SIGN CANDRABINDU
0DE6..0DEF  ; PVALID    # MALAYALAM SIGN CANDRABINDU
0E66..0EFA  ; PVALID    # SİNHALİ LİTH DIGİT ZERÖ..SİNHALİ LİTH DIGİT
16F1..16F8  ; PVALID    # RÚNIC LETTER K..RÚNIC LETTER FRANKS CASKET A
191D..191E  ; PVALID    # LÍMBU LETTER GYAN..LÍMBU LETTER TRA
1AB0..1ABE  ; PVALID    # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
1CF8..1CF9  ; PVALID    # VEDİC TONE RİNG ABOVE..VEDİC TONE DOUBLE RİN
1DE7..1DF5  ; PVALID    # COMBINING LATIN SMALL LETTER ALPHA..COMBININ
20BB..20BD  ; DISALLOWED  # NORDIC MARK SIGN..RUBLE SIGN
23F4..23FA  ; DISALLOWED  # BLACK MEDIUM LEFT-POINTING TRIANGLE..BLACK C
2700        ; DISALLOWED  # BLACK SAFETY SCISSORS
284D..284F  ; DISALLOWED  # DOWNWARDS TRIANGLE-HEADED ZIGZAG ARROW..SHOR
2B5A..2B73  ; DISALLOWED  # SLANTED NORTH ARROW WITH HOOKED HEAD..DOWNWA
2B76..2B95  ; DISALLOWED  # NORTH-West triangle-headed arrow to bar..RIG
2BB8..2BBA  ; DISALLOWED  # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BBD..2BDC  ; DISALLOWED  # BALLOT BOX WITH LIGHT X..BLACK MEDIUM RIGHT-
2BCA..2BDD  ; DISALLOWED  # TOP HALF BLACK CIRCLE..UNCERTAINTY SIGN
2E3C..2E42  ; DISALLOWED  # STENOGRAPHIC FULL STOP..DOUBLE LOW-REVERSED-
A698..A69D  ; DISALLOWED  # CYRILLIC CAPITAL LETTER DOUBLE O..MODIFIER L
A794..A79F  ; PVALID    # LATIN SMALL LETTER C WITH PALATAL HOOK..LATI
A7AF..A7AD  ; DISALLOWED  # LATIN CAPITAL LETTER REVERSED OPEN E..LATIN
A7B0..A7B1  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL
A7F7        ; PVALID    # LATIN EPIGRAPHIC LETTER SIDEWAYS I
A9E0..A9FE  ; PVALID    # MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI
AA7C..AA7F  ; PVALID    # MYANMAR SIGN TAI LAING TONE-2..MYANMAR LETTE
AB30..AB5F  ; PVALID    # LATIN SMALL LETTER BARRED ALPHA..MODIFIER LE
AB84..AB85  ; PVALID    # LATIN SMALL LETTER INVERTED ALPHA..GREEK LET
FE27..FE2D  ; PVALID    # COMBINING LIGATURE LEFT HALF BELOW..COMBININ
1018B..1018C; DISALLOWED  # GREEK ONE QUARTER SIGN..GREEK SINUSOID SIGN
101A0       ; DISALLOWED  # GREEK SYMBOL TAU RHO
102E0..102FB; PVALID    # COPTIC EPACT THOUSANDS MARK..COPTIC EPACT NU
1031F        ; PVALID    # OLD ITALIC LETTER ESS
10350..1037A; PVALID  # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L
10500..10527; PVALID  # ELBASAN LETTER A..ELBASAN LETTER KHE
10530..10563; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
1056F; DISALLOWED  # CAUCASIAN ALBANIAN CITATION MARK
10600..10736; PVALID  # LINEAR A SIGN AB001..LINEAR A SIGN A664
10740..10755; PVALID  # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10760..1076F; PVALID  # LINEAR A SIGN A800..LINEAR A SIGN A807
10860..1089F; PVALID  # PALMYRENE LETTER ALEPH..NABATAEAN LETTER TAW
108A7..108AF; DISALLOWED  # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
10A80..10A9F; PVALID  # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10AC0..10AE6; PVALID  # MANICHAEAN LETTER ALEPH..MANICHAEAN ABBREVIATION
10AE8..10AF6; DISALLOWED  # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATION
10B80..1089F; PVALID  # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAVI
10BA9..10BAF; DISALLOWED  # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAVI
1107F; PVALID  # BRAHMI NUMBER JOINER
11150..11176; PVALID  # MAHAJANI LETTER A..MAHAJANI LIGATURE SHRI
11200..11211; PVALID  # KHOJKI LETTER A..KHOJKI LETTER JJA
11213..1123D; PVALID  # KHOJKI LETTER NYA..KHOJKI ABBREVIATION SIGN
112F0..112F9; PVALID  # KHUDAWADI LETTER A..KHUDAWADI DIGIT NINE
11301..11303; PVALID  # GRANTHA SIGN CANDRABINDU..GRANTHA SIGN VISAR
11305..1130C; PVALID  # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130F..11310; PVALID  # GRANTHA LETTER EE..GRANTHA LETTER AI
11313..11318; PVALID  # GRANTHA LETTER OO..GRANTHA LETTER NA
1132A..11333; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11335..11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..11344; PVALID  # GRANTHA SIGN NUKTA..GRANTHA VOCAL..GRANTHA VOWEL SIGN VOCAL
11347..11348; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
1134B..1134D; PVALID  # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
11357; PVALID  # GRANTHA AU LENGTH MARK
1135D..11363; PVALID  # GRANTHA SIGN PLUTA..GRANTHA VOCAL
11366..1136C; PVALID  # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHA
11480..114C7; PVALID  # TIRHUTA ANJI..TIRHUTA OM
114D0..114D9; PVALID  # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
11580..115B5; PVALID  # SIDDHAM LETTER A..SIDDHAM VOCAL ..SIDDHAM END OF TEXT MA
115B8..115C9; PVALID  # SIDDHAM VOCAL SIGN E..SIDDHAM END OF TEXT MA
11600..11644; PVALID  # MODI LETTER A..MODI SIGN HUVA
11650..1165F; PVALID  # MODI DIGIT ZERO..MODI DIGIT NINE
118A0..118F2; DISALLOWED  # WARANG CILI CAPITAL LETTER NGAA..WARANG CILI
118FF; PVALID  # WARANG CILI OM
11AC0..11AF8; PVALID  # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
1236F..12398; PVALID  # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN U
Appendix B. Changes from Unicode 7.0.0 to Unicode 8.0.0

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.

08B3..08B4 ; PVALID # ARABIC LETTER AIN WITH THREE DOTS BELOW..ARA
08E3 ; PVALID # ARABIC TURNED DAMMA BELOW
0AF9 ; PVALID # GUJARATI LETTER ZHA
0C5A ; PVALID # TELUGU LETTER RRRA
0D5F ; PVALID # MALAYALAM LETTER ARCHAIC II
13F5 ; PVALID # CHEROKEE LETTER MV
13F8..13FD ; DISALLOWED # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET
20BE ; DISALLOWED # LARI SIGN
218A..218B ; DISALLOWED # TURNED DIGIT TWO..TURNED DIGIT THREE
2BEC..2BEF ; DISALLOWED # LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARR
9FCD..9FD5 ; PVALID # <CJK Ideograph>..<CJK Ideograph>
A69E ; PVALID # COMBINING CYRILLIC LETTER EF
A78F ; PVALID # LATIN LETTER SINOGICAL DOT
A7B2..A7B7 ; DISALLOWED # LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LA
A8FC..A8FD ; PVALID # DEVANAGARI SIGN SIDDHAM..DEVANAGARI JAIN OM
AB60..AB63 ; PVALID # LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LE
AB70..ABBF ; DISALLOWED # CHEEROKO SMALL LETTER A..CHEROKEE SMALL LETT
FE2E..FE2F ; PVALID # COMBINING CYRILLIC TITLO LEFT HALF..COMBININ
108E0..108F2; PVALID # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F4..108F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
108FB..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRE
109BC..109BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
109C0..109CF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIV
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI
10C80..10CB2; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
10CC0..10CF2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMB
111D8..111DF; DISALLOWED # SHARADA SECTION MARK-2
11280..11286; PVALID # MULTANI LETTER A..MULTANI LETTER GA
11288 ; PVALID # MULTANI LETTER GHA
1128A..1128D; PVALID # MULTANI LETTER CA..MULTANI LETTER JJA
11294..1129D; PVALID # MULTANI LETTER NYA..MULTANI LETTER BA
1129F..112A9; PVALID # MULTANI LETTER BHA..MULTANI SECTION MARK
11300 ; PVALID # GRANTHA SIGN COMBINING ANUSVARA ABOVE
11350 ; PVALID # GRANTHA OM
113CA..113DF; DISALLOWED # SIDDHAM SECTION MARK WITH TRIDENT AND U-SHAP
11700..11719; PVALID # AHOM LETTER KA..AHOM LETTER JHA
1171D..1172B; PVALID # AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KIL
11730..1173F; PVALID # AHOM DIGIT ZERO..AHOM SYMBOL VI
12399 ; PVALID # CUNEIFORM SIGN U U
12480..12543; PVALID  # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM
14400..14646; PVALID  # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGL
1D1DE..1D1E8; DISALLOWED  # MUSICAL SYMBOL KIEVAN C CLEF..MUSICAL SYMBOL
1D800..1DA8B; DISALLOWED  # SIGNWRITING HAND-FIST INDEX..SIGNWRITING PAR
1DA9B..1DA9F; PVALID  # SIGNWRITING FILL MODIFIER-2..SIGNWRITING FIL
IDA01..1DAAF; PVALID  # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING
1F32D..1F32F; DISALLOWED  # HOT DOG..BURRITO
1F37E..1F37F; DISALLOWED  # BOTTLE WITH POPPING CORK..POPCORN
1F3EF..1F3FF; DISALLOWED  # BADMINTON RACQUET AND SHUTTLECOCK..EMOJI MOD
1F4FF       ; DISALLOWED  # PRAYER BEADS
1F54B..1F54F; DISALLOWED  # KAABA..BOWL OF HYGIEIA
1F6D0       ; DISALLOWED  # PLACE OF WORSHIP
1F910..1F918; DISALLOWED  # ZIPPER-MOUTH FACE..SIGN OF THE HORNS
1F980..1F984; DISALLOWED  # CRAB..UNICORN FACE
1F9C0       ; DISALLOWED  # CHEESE WEDGE

Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.

08B6..08BD  ; PVALID  # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08D4..08E2  ; PVALID  # ARABIC SMALL HIGH WORD AR-RUB..ARABIC DISPUT
0C80         ; PVALID  # KANNADA SIGN SPACING CANDRABINDU
0D4F         ; DISALLOWED  # MALAYALAM SIGN PARA
0D54..0D56   ; PVALID  # MALAYALAM LETTER CHILLU M..MALAYALAM LETTER
0D58..0D5E   ; DISALLOWED  # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D76..0D78   ; DISALLOWED  # MALAYALAM FRACTION ONE SIXTEENTH..MALAYALAM
1C80..1C88   ; DISALLOWED  # CYRILLIC SMALL LETTER ROUNDED VE..CYRILLIC S
1DFB         ; PVALID  # COMBINING DELETION MARK
23FB..23FE   ; DISALLOWED  # POWER SYMBOL..POWER SLEEP SYMBOL
2E43..2E44   ; DISALLOWED  # DASH WITH LEFT UPTURN..DOUBLE SUSPENSION MAR
A7AE         ; DISALLOWED  # LATIN CAPITAL LETTER SMALL CAPITAL I
A8C5         ; PVALID  # SAURASHTRA SIGN CANDRABINDU
1018D..1018E; DISALLOWED  # GREEK INDICATION SIGN..NOMISMA SIGN
104B0..104D3; DISALLOWED  # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D8..104FB; PVALID  # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
1123E        ; PVALID  # KOJIKI SIGN SUKUN
11400..11459; PVALID  # NEWA LETTER A..NEWA DIGIT NINE
1145B        ; DISALLOWED  # NEWA PLACEHOLDER MARK
1145D        ; DISALLOWED  # NEWA INSERTION SIGN
11660..1166C; DISALLOWED  # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
11C00..11C08; PVALID  # BHAIKSUKE LETTER A..BHAIKSUKE LETTER VOCALIC
11C0A..11C36; PVALID  # BHAIKSUKE LETTER E..BHAIKSUKE VOWEL SIGN VOC
11C38..11C45; PVALID  # BHAIKSUKE VOWEL SIGN E..BHAIKSUKE GAP FILLER
11C50..11C6C; PVALID  # BHAIKSUKE DIGIT ZERO..BHAIKSUKE HUNDREDS UNI
11C70..11C8F; DISALLOWED # MARCHEN HEAD MARK..MARCHEN LETTER A
11C92..11CA7; PVALID # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
11CA9..11CB6; PVALID # MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA
16FE0 ; PVALID # TANGUT ITERATION MARK
17000..187EC; PVALID # <Tangut Ideograph>..<Tangut Ideograph>
18800..18AF2; PVALID # TANGUT COMPONENT-001..TANGUT COMPONENT-755
1E000..1E006; PVALID # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E008..1E018; PVALID # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBINING
1E01B..1E021; PVALID # COMBINING GLAGOLITIC LETTER SHTA..COMBINING
1E023..1E024; PVALID # COMBINING GLAGOLITIC LETTER YU..COMBINING GL
1E026..1E02A; PVALID # COMBINING GLAGOLITIC LETTER Yo..COMBINING GL
1E900..1E94A; DISALLOWED # ADLAM CAPITAL LETTER ALIF..ADLAM NUKTA
1E950..1E959; PVALID # ADLAM DIGIT ZERO..ADLAM DIGIT NINE
1E95E..1E95F; DISALLOWED # ADLAM INITIAL EXCLAMATION MARK..ADLAM INITIA
1F19B..1F1AC; DISALLOWED # SQUARED THREE D..SQUARED VOD
1F23B ; DISALLOWED # SQUARED CJK UNIFIED IDEOGRAPH-914D
1F57A ; DISALLOWED # MAN DANCING
1F5A4 ; DISALLOWED # BLACK HEART
1F6D1..1F6D2; DISALLOWED # OCTAGONAL SIGN..SHOPPING TROLLEY
1F6F4..1F6F6; DISALLOWED # SCOOTER..CANOE
1F919..1F91E; DISALLOWED # CALL ME HAND..HAND WITH INDEX AND MIDDLE FIN
1F920..1F927; DISALLOWED # FACE WITH COWBOY HAT..SNEEZING FACE
1F930 ; DISALLOWED # PREGNANT WOMAN
1F933..1F93E; DISALLOWED # SELFIE..HANDBALL
1F940..1F94B; DISALLOWED # WILTED FLOWER..MARTIAL ARTS UNIFORM
1F950..1F95E; DISALLOWED # CROISSANT..PANCAKES

Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.
Appendix E. Changes from Unicode 10.0.0 to Unicode 11.0.0

Changes from derived property value DISALLOWED to PVALID.

111C9 ; PVALID   # SHARADA SANDHI MARK

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.
Appendix F. Code points in Unicode Character Database (UCD) format for Unicode 11.0.0

0000..002C ; DISALLOWED # <control>..COMMA
002D ; PVALID # HYPHEN-MINUS
002E..002F ; DISALLOWED # FULL STOP..SOLIDUS
0030..0039 ; PVALID # DIGIT ZERO..DIGIT NINE
003A..0060 ; DISALLOWED # COLON..GRAVE ACCENT
0061..007A ; PVALID # LATIN SMALL LETTER A..LATIN SMALL LETTER Z
007B..00B6 ; DISALLOWED # LEFT CURLY BRACKET..PILCROW SIGN
00B7 ; CONTEXTO # MIDDLE DOT
00B8..00DE ; DISALLOWED # CEDILLA..LATIN CAPITAL LETTER THORN
00DF..00FF ; PVALID # LATIN SMALL LETTER O WITH STROKE..LATIN SMALL LETTER O WITH BREVE
0100 ; DISALLOWED # LATIN CAPITAL LETTER A WITH MACRON
0101 ; PVALID # LATIN SMALL LETTER A WITH MACRON
0102 ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE
0103 ; PVALID # LATIN SMALL LETTER A WITH BREVE
0104 ; DISALLOWED # LATIN CAPITAL LETTER A WITH OGONEK
0105 ; PVALID # LATIN SMALL LETTER A WITH OGONEK
0106 ; DISALLOWED # LATIN CAPITAL LETTER C WITH ACUTE
0107 ; PVALID # LATIN SMALL LETTER C WITH ACUTE
0108 ; DISALLOWED # LATIN CAPITAL LETTER C WITH CIRCUMFLEX
0109 ; PVALID # LATIN SMALL LETTER C WITH CIRCUMFLEX
010A ; DISALLOWED # LATIN CAPITAL LETTER C WITH DOT ABOVE
010B ; PVALID # LATIN SMALL LETTER C WITH DOT ABOVE
010C ; DISALLOWED # LATIN CAPITAL LETTER C WITH CARON
010D ; PVALID # LATIN SMALL LETTER C WITH CARON
010E ; DISALLOWED # LATIN CAPITAL LETTER D WITH CARON
010F ; PVALID # LATIN SMALL LETTER D WITH CARON
0110 ; DISALLOWED # LATIN CAPITAL LETTER D WITH STROKE
0111 ; PVALID # LATIN SMALL LETTER D WITH STROKE
0112 ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON
0113 ; PVALID # LATIN SMALL LETTER E WITH MACRON
0114 ; DISALLOWED # LATIN CAPITAL LETTER E WITH BREVE
0115 ; PVALID # LATIN SMALL LETTER E WITH BREVE
0116 ; DISALLOWED # LATIN CAPITAL LETTER E WITH DOT ABOVE
0117 ; PVALID # LATIN SMALL LETTER E WITH DOT ABOVE
0118 ; DISALLOWED # LATIN CAPITAL LETTER E WITH OGONEK
0119 ; PVALID # LATIN SMALL LETTER E WITH OGONEK
011A ; DISALLOWED # LATIN CAPITAL LETTER E WITH CARON
011B ; PVALID # LATIN SMALL LETTER E WITH CARON
011C ; DISALLOWED # LATIN CAPITAL LETTER G WITH CIRCUMFLEX
011D ; PVALID # LATIN SMALL LETTER G WITH CIRCUMFLEX
011E ; DISALLOWED # LATIN CAPITAL LETTER G WITH BREVE
011F ; PVALID # LATIN SMALL LETTER G WITH BREVE
0120 ; DISALLOWED # LATIN CAPITAL LETTER G WITH DOT ABOVE
0121 ; PVALID # LATIN SMALL LETTER G WITH DOT ABOVE
0122 ; DISALLOWED # LATIN CAPITAL LETTER G WITH CEDILLA
0123 ; PVALID # LATIN SMALL LETTER G WITH CEDILLA
0124 ; DISALLOWED # LATIN CAPITAL LETTER H WITH CIRCUMFLEX
0125 ; PVALID # LATIN SMALL LETTER H WITH CIRCUMFLEX
0126 ; DISALLOWED # LATIN CAPITAL LETTER H WITH STROKE
0127 ; PVALID # LATIN SMALL LETTER H WITH STROKE
0128 ; DISALLOWED # LATIN CAPITAL LETTER I WITH TILDE
0129 ; PVALID # LATIN SMALL LETTER I WITH TILDE
012A ; DISALLOWED # LATIN CAPITAL LETTER I WITH MACRON
012B ; PVALID # LATIN SMALL LETTER I WITH MACRON
012C ; DISALLOWED # LATIN CAPITAL LETTER I WITH BREVE
012D ; PVALID # LATIN SMALL LETTER I WITH BREVE
012E ; DISALLOWED # LATIN CAPITAL LETTER I WITH OGONEK
012F ; PVALID # LATIN SMALL LETTER I WITH OGONEK
0130 ; DISALLOWED # LATIN CAPITAL LETTER I WITH DOT ABOVE
0131 ; PVALID # LATIN SMALL LETTER DOTLESS I
0132..0134 ; DISALLOWED # LATIN CAPITAL LIGATURE IJ..LATIN CAPITAL LET
0135 ; PVALID # LATIN SMALL LETTER J WITH CIRCUMFLEX
0136 ; DISALLOWED # LATIN CAPITAL LETTER K WITH CEDILLA
0137..0138 ; PVALID # LATIN SMALL LETTER K WITH CEDILLA..LATIN SMA
0139 ; DISALLOWED # LATIN CAPITAL LETTER L WITH ACUTE
013A ; PVALID # LATIN SMALL LETTER L WITH ACUTE
013B ; DISALLOWED # LATIN CAPITAL LETTER L WITH CEDILLA
013C ; PVALID # LATIN SMALL LETTER L WITH CEDILLA
013D ; DISALLOWED # LATIN CAPITAL LETTER L WITH CARON
013E ; PVALID # LATIN SMALL LETTER L WITH CARON
013F..0141 ; DISALLOWED # LATIN CAPITAL LETTER L WITH MIDDLE DOT..LATI
0142 ; PVALID # LATIN SMALL LETTER L WITH STROKE
0143 ; DISALLOWED # LATIN CAPITAL LETTER N WITH ACUTE
0144 ; PVALID # LATIN SMALL LETTER N WITH ACUTE
0145 ; DISALLOWED # LATIN CAPITAL LETTER N WITH CEDILLA
0146 ; PVALID # LATIN SMALL LETTER N WITH CEDILLA
0147 ; DISALLOWED # LATIN CAPITAL LETTER N WITH CARON
0148 ; PVALID # LATIN SMALL LETTER N WITH CARON
0149..014A ; DISALLOWED # LATIN SMALL LETTER N PRECEDED BY APOSTROPHE.
014B ; PVALID # LATIN SMALL LETTER ENG
014C ; DISALLOWED # LATIN CAPITAL LETTER O WITH MACRON
014D ; PVVALID # LATIN SMALL LETTER O WITH MACRON
014E ; DISALLOWED # LATIN CAPITAL LETTER O WITH BREVE
014F ; PVVALID # LATIN SMALL LETTER O WITH BREVE
0150 ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
0151 ; PVVALID # LATIN SMALL LETTER O WITH DOUBLE ACUTE
0152 ; DISALLOWED # LATIN CAPITAL LIGATURE OE
0153 ; PVVALID # LATIN SMALL LIGATURE OE
0154 ; DISALLOWED # LATIN CAPITAL LETTER R WITH ACUTE
0155 ; PVVALID # LATIN SMALL LETTER R WITH ACUTE
0156 ; DISALLOWED # LATIN CAPITAL LETTER R WITH CEDILLA
0157 ; PVVALID # LATIN SMALL LETTER R WITH CEDILLA
0158 ; DISALLOWED # LATIN CAPITAL LETTER R WITH CARON
0159 ; PVVALID # LATIN SMALL LETTER R WITH CARON
015A ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE
015B ; PVVALID # LATIN SMALL LETTER S WITH ACUTE
015C ; DISALLOWED # LATIN CAPITAL LETTER S WITH CIRCUMFLEX
015D ; PVVALID # LATIN SMALL LETTER S WITH CIRCUMFLEX
015E ; DISALLOWED # LATIN CAPITAL LETTER S WITH CEDILLA
015F ; PVVALID # LATIN SMALL LETTER S WITH CEDILLA
0160 ; DISALLOWED # LATIN CAPITAL LETTER S WITH CARON
0161 ; PVVALID # LATIN SMALL LETTER S WITH CARON
0162 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CEDILLA
0163 ; PVVALID # LATIN SMALL LETTER T WITH CEDILLA
0164 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CARON
0165 ; PVVALID # LATIN SMALL LETTER T WITH CARON
0166 ; DISALLOWED # LATIN CAPITAL LETTER T WITH STROKE
0167 ; PVVALID # LATIN SMALL LETTER T WITH STROKE
0168 ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE
0169 ; PVVALID # LATIN SMALL LETTER U WITH TILDE
016A ; DISALLOWED # LATIN CAPITAL LETTER U WITH MACRON
016B ; PVVALID # LATIN SMALL LETTER U WITH MACRON
016C ; DISALLOWED # LATIN CAPITAL LETTER U WITH BREVE
016D ; PVVALID # LATIN SMALL LETTER U WITH BREVE
016E ; DISALLOWED # LATIN CAPITAL LETTER U WITH RING ABOVE
016F ; PVVALID # LATIN SMALL LETTER U WITH RING ABOVE
0170 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
0171 ; PVVALID # LATIN SMALL LETTER U WITH DOUBLE ACUTE
0172 ; DISALLOWED # LATIN CAPITAL LETTER U WITH OGONEK
0173 ; PVVALID # LATIN SMALL LETTER U WITH OGONEK
0174 ; DISALLOWED # LATIN CAPITAL LETTER W WITH CIRCUMFLEX
0175 ; PVVALID # LATIN SMALL LETTER W WITH CIRCUMFLEX
0176 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
0177 ; PVVALID # LATIN SMALL LETTER Y WITH CIRCUMFLEX
0178..0179 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DIAERESIS..LATIN
017A ; PVVALID # LATIN SMALL LETTER Z WITH ACUTE
017B ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DOTTED TAIL
017C ; PVVALID # LATIN SMALL LETTER Z WITH DOTTED TAIL
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01D3  ; DISALLOWED # LATIN CAPITAL LETTER U WITH CARON
01D4  ; PVALID  # LATIN SMALL LETTER U WITH CARON
01D5  ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND MA
01D6  ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND MACR
01D7  ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND AC
01D8  ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND ACUT
01D9  ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND CA
01DA  ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND CARO
01DB  ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND GR
01DC..01DD  ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND GRAV
01DE  ; DISALLOWED # LATIN CAPITAL LETTER A WITH DIAERESIS AND MA
01DF  ; PVALID  # LATIN SMALL LETTER A WITH DIAERESIS AND MACR
01E0  ; DISALLOWED # LATIN CAPITAL LETTER A WITH DOT ABOVE AND MA
01E1  ; PVALID  # LATIN SMALL LETTER A WITH DOT ABOVE AND MACR
01E2  ; DISALLOWED # LATIN CAPITAL LETTER AE WITH MACRON
01E3  ; PVALID  # LATIN SMALL LETTER AE WITH MACRON
01E4  ; DISALLOWED # LATIN CAPITAL LETTER G WITH STROKE
01E5  ; PVALID  # LATIN SMALL LETTER G WITH STROKE
01E6  ; DISALLOWED # LATIN CAPITAL LETTER G WITH CARON
01E7  ; PVALID  # LATIN SMALL LETTER G WITH CARON
01E8  ; DISALLOWED # LATIN CAPITAL LETTER K WITH CARON
01E9  ; PVALID  # LATIN SMALL LETTER K WITH CARON
01EA  ; DISALLOWED # LATIN CAPITAL LETTER O WITH OGONEK
01EB  ; PVALID  # LATIN SMALL LETTER O WITH OGONEK
01EC  ; DISALLOWED # LATIN CAPITAL LETTER O WITH OGONEK AND MACRO
01ED  ; PVALID  # LATIN SMALL LETTER O WITH OGONEK AND MACRON
01EE  ; DISALLOWED # LATIN CAPITAL LETTER EZH WITH CARON
01EF..01F0  ; PVALID  # LATIN SMALL LETTER EZH WITH CARON..LATIN SMALL SMA
01F1..01F4  ; DISALLOWED # LATIN CAPITAL LETTER DW..LATIN CAPITAL LETTE
01F5  ; PVALID  # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  ; DISALLOWED # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LE
01F9  ; PVALID  # LATIN SMALL LETTER N WITH GRAVE
01FA  ; DISALLOWED # LATIN CAPITAL LETTER A WITH RING ABOVE AND A
01FB  ; PVALID  # LATIN SMALL LETTER A WITH RING ABOVE AND ACU
01FC  ; DISALLOWED # LATIN CAPITAL LETTER AE WITH ACUTE
01FD  ; PVALID  # LATIN SMALL LETTER AE WITH ACUTE
01FE  ; DISALLOWED # LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
01FF  ; PVALID  # LATIN SMALL LETTER O WITH STROKE AND ACUTE
0200  ; DISALLOWED # LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
0201  ; PVALID  # LATIN SMALL LETTER A WITH DOUBLE GRAVE
0202  ; DISALLOWED # LATIN CAPITAL LETTER A WITH INVERTED BREVE
0203  ; PVALID  # LATIN SMALL LETTER A WITH INVERTED BREVE
0204  ; DISALLOWED # LATIN CAPITAL LETTER E WITH DOUBLE GRAVE
0205  ; PVALID  # LATIN SMALL LETTER E WITH DOUBLE GRAVE
0206  ; DISALLOWED # LATIN CAPITAL LETTER E WITH INVERTED BREVE
0207  ; PVALID  # LATIN SMALL LETTER E WITH INVERTED BREVE
0208  ; DISALLOWED # LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
0209  ; PVALID  # LATIN SMALL LETTER I WITH DOUBLE GRAVE
020A ; DISALLOWED # LATIN CAPITAL LETTER I WITH INVERTED BREVE
020B ; PVALID  # LATIN SMALL LETTER I WITH INVERTED BREVE
020C ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
020D ; PVALID  # LATIN SMALL LETTER O WITH DOUBLE GRAVE
020E ; DISALLOWED # LATIN CAPITAL LETTER O WITH INVERTED BREVE
020F ; PVALID  # LATIN SMALL LETTER O WITH INVERTED BREVE
0210 ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOUBLE GRAVE
0211 ; PVALID  # LATIN SMALL LETTER R WITH DOUBLE GRAVE
0212 ; DISALLOWED # LATIN CAPITAL LETTER R WITH INVERTED BREVE
0213 ; PVALID  # LATIN SMALL LETTER R WITH INVERTED BREVE
0214 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DOUBLE GRAVE
0215 ; PVALID  # LATIN SMALL LETTER U WITH DOUBLE GRAVE
0216 ; DISALLOWED # LATIN CAPITAL LETTER U WITH INVERTED BREVE
0217 ; PVALID  # LATIN SMALL LETTER U WITH INVERTED BREVE
0218 ; DISALLOWED # LATIN CAPITAL LETTER S WITH COMMA BELOW
0219 ; PVALID  # LATIN SMALL LETTER S WITH COMMA BELOW
021A ; DISALLOWED # LATIN CAPITAL LETTER T WITH COMMA BELOW
021B ; PVALID  # LATIN SMALL LETTER T WITH COMMA BELOW
021C ; DISALLOWED # LATIN CAPITAL LETTER YOGH
021D ; PVALID  # LATIN SMALL LETTER YOGH
021E ; DISALLOWED # LATIN CAPITAL LETTER H WITH CARON
021F ; PVALID  # LATIN SMALL LETTER H WITH CARON
0220 ; DISALLOWED # LATIN CAPITAL LETTER N WITH LONG RIGHT LEG
0221 ; PVALID  # LATIN SMALL LETTER D WITH CURL
0222 ; DISALLOWED # LATIN CAPITAL LETTER OU
0223 ; PVALID  # LATIN SMALL LETTER OU
0224 ; DISALLOWED # LATIN CAPITAL LETTER Z WITH HOOK
0225 ; PVALID  # LATIN SMALL LETTER Z WITH HOOK
0226 ; DISALLOWED # LATIN CAPITAL LETTER A WITH DOT ABOVE
0227 ; PVALID  # LATIN SMALL LETTER A WITH DOT ABOVE
0228 ; DISALLOWED # LATIN CAPITAL LETTER E WITH CEDILLA
0229 ; PVALID  # LATIN SMALL LETTER E WITH CEDILLA
022A ; DISALLOWED # LATIN CAPITAL LETTER O WITH DIAERESIS AND MA
022B ; PVALID  # LATIN SMALL LETTER O WITH DIAERESIS AND MACR
022C ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE AND MACRON
022D ; PVALID  # LATIN SMALL LETTER O WITH TILDE AND MACRON
022E ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOT ABOVE
022F ; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE
0230 ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOT ABOVE AND MA
0231 ; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE AND MACR
0232 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH MACRON
0233..0239 ; PVALID  # LATIN SMALL LETTER Y WITH MACRON..LATIN SMAL
023A..023B ; DISALLOWED # LATIN CAPITAL LETTER A WITH STROKE..LATIN CA
023C ; PVALID  # LATIN SMALL LETTER C WITH STROKE
023D..023E ; DISALLOWED # LATIN CAPITAL LETTER L WITH BAR..LATIN CAPIT
023F..0240 ; PVALID  # LATIN SMALL LETTER S WITH SWASH TAIL..LATIN
0241 ; DISALLOWED # LATIN CAPITAL LETTER GLOTTAL STOP
0242 ; PVALID  # LATIN SMALL LETTER GLOTTAL STOP
0243..0246  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH STROKE..LATIN CAPITAL LETTER R WITH STROKE
0247  ; PVALID  # LATIN SMALL LETTER E WITH STROKE
0248  ; DISALLOWED  # LATIN CAPITAL LETTER J WITH STROKE
0249  ; PVALID  # LATIN SMALL LETTER J WITH STROKE
024A  ; DISALLOWED  # LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
024B  ; PVALID  # LATIN SMALL LETTER Q WITH HOOK TAIL
024C  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH STROKE
024D  ; PVALID  # LATIN SMALL LETTER R WITH STROKE
024E  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH STROKE
024F..02AF  ; PVALID  # LATIN SMALL LETTER Y WITH STROKE..LATIN SMALL LETTER R WITH STROKE
02B0..02B8  ; DISALLOWED  # MODIFIER LETTER SMALL H..MODIFIER LETTER SMALL L
02B9..02C1  ; PVALID  # MODIFIER LETTER PRIME..MODIFIER LETTER REVERSED PRIME
02C2..02C5  ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LETTER RIGHT ARROWHEAD
02C6..02D1  ; PVALID  # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER LETTER GRAVE
02D2..02EB  ; DISALLOWED  # MODIFIER LETTER CENTRED RIGHT HALF RING..MODIFIER LETTER UNASPIRATED
02EC  ; PVALID  # MODIFIER LETTER VOICING
02ED  ; DISALLOWED  # MODIFIER LETTER UNSPACED HYPHEN
02EE  ; PVALID  # MODIFIER LETTER DOUBLE APOSTROPHE
02EF..02FF  ; DISALLOWED  # MODIFIER LETTER LOW DOWN ARROWHEAD..MODIFIER LETTER LOW UP ARROWHEAD
0300..033F  ; PVALID  # COMBINING GRAVE ACCENT..COMBINING DOUBLE OVERLINE
0340..0341  ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING ACUTE TONE MARK
0342  ; PVALID  # COMBINING GREEK PERISPOMENI
0343..0345  ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK YPOGEGRAMMENI
0346..034E  ; PVALID  # COMBINING BRIDGE ABOVE..COMBINING UPWARDS ARROW
034F  ; DISALLOWED  # COMBINING GRAPHEME JOINER
0350..036F  ; PVALID  # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING LOWER ARROWHEAD ABOVE
0370  ; DISALLOWED  # GREEK CAPITAL LETTER HETA
0371  ; PVALID  # GREEK SMALL LETTER HETA
0372  ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI
0373  ; PVALID  # GREEK SMALL LETTER ARCHAIC SAMPI
0374  ; DISALLOWED  # GREEK NUMERAL SIGN
0375  ; CONTEXTO  # GREEK LOWER NUMERAL SIGN
0376  ; DISALLOWED  # GREEK CAPITAL LETTER PAMPHYLIAN DIGAMMA
0377  ; PVALID  # GREEK SMALL LETTER PAMPHYLIAN DIGAMMA
0378..0379  ; UNASSIGNED  # <reserved>..<reserved>
037A  ; DISALLOWED  # GREEK YPOGEGRAMMENI
037B..037D  ; PVALID  # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GREEK SMALL LETTER OMEGA
037E..037F  ; DISALLOWED  # GREEK QUESTION MARK..GREEK CAPITAL LETTER YO
0380..0383  ; UNASSIGNED  # <reserved>..<reserved>
0384..038A  ; DISALLOWED  # GREEK TONOS..GREEK CAPITAL LETTER IOTA WITH TONOS
038B  ; UNASSIGNED  # <reserved>
038C  ; DISALLOWED  # GREEK CAPITAL LETTER OMEICRON WITH TONOS
038D  ; UNASSIGNED  # <reserved>
038E..038F  ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH TONOS
0390  ; PVALID  # GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS
0391..03A1  ; DISALLOWED  # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LETTER SIGMA
03AC..03CE  ; PVALID      # GREEK SMALL LETTER ALPHA WITH TONOS..GREEK SMALL LETTER SIGMA
03CF..03D6  ; DISALLOWED # GREEK CAPITAL KAI SYMBOL..GREEK PI SYMBOL
03D7        ; PVALID      # GREEK KAI SYMBOL
03D8        ; DISALLOWED # GREEK LETTER ARCHAIC KOPPA
03D9        ; PVALID      # GREEK SMALL LETTER ARCHAIC KOPPA
03DA        ; DISALLOWED # GREEK LETTER STIGMA
03DB        ; PVALID      # GREEK SMALL LETTER STIGMA
03DC        ; DISALLOWED # GREEK LETTER DIGAMMA
03DD        ; PVALID      # GREEK SMALL LETTER DIGAMMA
03DE        ; DISALLOWED # GREEK LETTER KOPPA
03DF        ; PVALID      # GREEK SMALL LETTER KOPPA
03E0        ; DISALLOWED # GREEK LETTER SAMPI
03E1        ; PVALID      # GREEK SMALL LETTER SAMPI
03E2        ; DISALLOWED # COPTIC CAPITAL LETTER SHEI
03E3        ; PVALID      # COPTIC SMALL LETTER SHEI
03E4        ; DISALLOWED # COPTIC CAPITAL LETTER FEI
03E5        ; PVALID      # COPTIC SMALL LETTER FEI
03E6        ; DISALLOWED # COPTIC CAPITAL LETTER KHEI
03E7        ; PVALID      # COPTIC SMALL LETTER KHEI
03E8        ; DISALLOWED # COPTIC CAPITAL LETTER HORI
03E9        ; PVALID      # COPTIC SMALL LETTER HORI
03EA        ; DISALLOWED # COPTIC CAPITAL LETTER GANGLIA
03EB        ; PVALID      # COPTIC SMALL LETTER GANGLIA
03EC        ; DISALLOWED # COPTIC CAPITAL LETTER SHEMA
03ED        ; PVALID      # COPTIC SMALL LETTER SHEMA
03EE        ; DISALLOWED # COPTIC CAPITAL LETTER DEI
03EF        ; PVALID      # COPTIC SMALL LETTER DEI
03F0..03F2  ; DISALLOWED # GREEK KAPPA SYMBOL..GREEK LUNATE SIGMA SYMBOL
03F3        ; PVALID      # GREEK LETTER YOT
03F4..03F7  ; DISALLOWED # GREEK CAPITAL THETA SYMBOL..GREEK CAPITAL LETTER SHO
03F8        ; PVALID      # GREEK SMALL LETTER SHO
03F9..03FA  ; DISALLOWED # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAPITAL LETTER SAN
03FB..03FC  ; PVALID      # GREEK SMALL LETTER SAN..GREEK RHOMBOID SIGMA
03FD..042F  ; DISALLOWED # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..GREEK RHOME LETTERS
0430..045F  ; PVALID      # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETTER Z
0460        ; DISALLOWED # CYRILLIC CAPITAL LETTER OMEGA
0461        ; PVALID      # CYRILLIC SMALL LETTER OMEGA
0462        ; DISALLOWED # CYRILLIC CAPITAL LETTER YAT
0463        ; PVALID      # CYRILLIC SMALL LETTER YAT
0464        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED E
0465        ; PVALID      # CYRILLIC SMALL LETTER IOTIFIED E
0466        ; DISALLOWED # CYRILLIC CAPITAL LETTER LITTLE YUS
0467        ; PVALID      # CYRILLIC SMALL LETTER LITTLE YUS
0468        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
0469        ; PVALID      # CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
046A        ; DISALLOWED # CYRILLIC CAPITAL LETTER BIG YUS
046B        ; PVALID      # CYRILLIC SMALL LETTER BIG YUS
046C        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
046D  ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED BIG YUS
046E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KSI
046F  ; PVALID  # CYRILLIC SMALL LETTER KSI
0470  ; DISALLOWED  # CYRILLIC CAPITAL LETTER PSI
0471  ; PVALID  # CYRILLIC SMALL LETTER PSI
0472  ; DISALLOWED  # CYRILLIC CAPITAL LETTER FITA
0473  ; PVALID  # CYRILLIC SMALL LETTER FITA
0474  ; DISALLOWED  # CYRILLIC CAPITAL LETTER IZHITSA
0475  ; PVALID  # CYRILLIC SMALL LETTER IZHITSA
0476  ; DISALLOWED  # CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE GR
0477  ; PVALID  # CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GR
0478  ; DISALLOWED  # CYRILLIC CAPITAL LETTER UK
0479  ; PVALID  # CYRILLIC SMALL LETTER UK
047A  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ROUND OMEGA
047B  ; PVALID  # CYRILLIC SMALL LETTER ROUND OMEGA
047C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER OMEGA WITH TITLO
047D  ; PVALID  # CYRILLIC SMALL LETTER OMEGA WITH TITLO
047E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER OT
047F  ; PVALID  # CYRILLIC SMALL LETTER OT
0480  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOPPA
0481  ; PVALID  # CYRILLIC SMALL LETTER KOPPA
0482  ; DISALLOWED  # CYRILLIC THOUSANDS SIGN
0483..0487  ; PVALID  # COMBINING CYRILLIC TITLO..COMBINING CYRILLIC
0488..048A  ; DISALLOWED  # COMBINING CYRILLIC HUNDRED THOUSANDS SIGN..C
048B  ; PVALID  # CYRILLIC SMALL LETTER SHORT I WITH TAIL
048C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER SEMISOFT SIGN
048D  ; PVALID  # CYRILLIC SMALL LETTER SEMISOFT SIGN
048E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ER WITH TICK
048F  ; PVALID  # CYRILLIC SMALL LETTER ER WITH TICK
0490  ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH UPTURN
0491  ; PVALID  # CYRILLIC SMALL LETTER GHE WITH UPTURN
0492  ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH STROKE
0493  ; PVALID  # CYRILLIC SMALL LETTER GHE WITH STROKE
0494  ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
0495  ; PVALID  # CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
0496  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
0497  ; PVALID  # CYRILLIC SMALL LETTER ZHE WITH DESCENDER
0498  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
0499  ; PVALID  # CYRILLIC SMALL LETTER ZE WITH DESCENDER
049A  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH DESCENDER
049B  ; PVALID  # CYRILLIC SMALL LETTER KA WITH DESCENDER
049C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH VERTICAL STR
049D  ; PVALID  # CYRILLIC SMALL LETTER KA WITH VERTICAL STROK
049E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH STROKE
049F  ; PVALID  # CYRILLIC SMALL LETTER KA WITH STROKE
04A0  ; DISALLOWED  # CYRILLIC CAPITAL LETTER BASHKIR KA
04A1  ; PVALID  # CYRILLIC SMALL LETTER BASHKIR KA
04A2  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH DESCENDER
04A3 ; PVALID # CYRILLIC SMALL LETTER EN WITH DESCENDER
04A4 ; DISALLOWED # CYRILLIC CAPITAL LIGATURE EN GHE
04A5 ; PVALID # CYRILLIC SMALL LIGATURE EN GHE
04A6 ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
04A7 ; PVALID # CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
04A8 ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN HA
04A9 ; PVALID # CYRILLIC SMALL LETTER ABKHASIAN HA
04AA ; DISALLOWED # CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB ; PVALID # CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC ; DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD ; PVALID # CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE ; DISALLOWED # CYRILLIC CAPITAL LETTER STRAIGHT U
04AF ; PVALID # CYRILLIC SMALL LETTER STRAIGHT U
04B0 ; DISALLOWED # CYRILLIC CAPITAL LETTER STRAIGHT U WITH STRO
04B1 ; PVALID # CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
04B2 ; DISALLOWED # CYRILLIC CAPITAL LETTER HA WITH DESCENDER
04B3 ; PVALID # CYRILLIC SMALL LETTER HA WITH DESCENDER
04B4 ; DISALLOWED # CYRILLIC CAPITAL LIGATURE TE TSE
04B5 ; PVALID # CYRILLIC SMALL LIGATURE TE TSE
04B6 ; DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
04B7 ; PVALID # CYRILLIC SMALL LETTER CHE WITH DESCENDER
04B8 ; DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH VERTICAL ST
04B9 ; PVALID # CYRILLIC SMALL LETTER CHE WITH VERTICAL STRO
04BA ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA
04BB ; PVALID # CYRILLIC SMALL LETTER SHHA
04BC ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN CHE
04BD ; PVALID # CYRILLIC SMALL LETTER ABKHASIAN CHE
04BE ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH D
04BF ; PVALID # CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DES
04C0..04C1 ; DISALLOWED # CYRILLIC LETTER PALOCHKA..CYRILLIC CAPITAL L
04C2 ; PVALID # CYRILLIC SMALL LETTER ZHE WITH BREVE
04C3 ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4 ; PVALID # CYRILLIC SMALL LETTER KA WITH HOOK
04C5 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6 ; PVALID # CYRILLIC SMALL LETTER EL WITH TAIL
04C7 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH HOOK
04C8 ; PVALID # CYRILLIC SMALL LETTER EN WITH HOOK
04C9 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH TAIL
04CA ; PVALID # CYRILLIC SMALL LETTER EN WITH TAIL
04CB ; DISALLOWED # CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC ; PVALID # CYRILLIC SMALL LETTER KHAKASSIAN CHE
04CD ; DISALLOWED # CYRILLIC CAPITAL LETTER EM WITH TAIL
04CE..04CF ; PVALID # CYRILLIC SMALL LETTER EM WITH TAIL..CYRILLIC
04D0 ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH BREVE
04D1 ; PVALID # CYRILLIC SMALL LETTER A WITH BREVE
04D2 ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH DIAERESIS
04D3 ; PVALID # CYRILLIC SMALL LETTER A WITH DIAERESIS
04D4 ; DISALLOWED # CYRILLIC CAPITAL LIGATURE A IE
04D5  ; PVALID  # CYRILLIC SMALL LIGATURE A IE
04D6  ; DISALLOWED  # CYRILLIC CAPITAL LETTER IE WITH BREVE
04D7  ; PVALID  # CYRILLIC SMALL LETTER IE WITH BREVE
04D8  ; DISALLOWED  # CYRILLIC CAPITAL LETTER SCHWA
04D9  ; PVALID  # CYRILLIC SMALL LETTER SCHWA
04DA  ; DISALLOWED  # CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS
04DB  ; PVALID  # CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS
04DC  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS
04DD  ; PVALID  # CYRILLIC SMALL LETTER ZHE WITH DIAERESIS
04DE  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS
04DF  ; PVALID  # CYRILLIC SMALL LETTER ZE WITH DIAERESIS
04E0  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ABKHASIAN DZE
04E1  ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN DZE
04E2  ; DISALLOWED  # CYRILLIC CAPITAL LETTER I WITH MACRON
04E3  ; PVALID  # CYRILLIC SMALL LETTER I WITH MACRON
04E4  ; DISALLOWED  # CYRILLIC CAPITAL LETTER I WITH DIAERESIS
04E5  ; PVALID  # CYRILLIC SMALL LETTER I WITH DIAERESIS
04E6  ; DISALLOWED  # CYRILLIC CAPITAL LETTER O WITH DIAERESIS
04E7  ; PVALID  # CYRILLIC SMALL LETTER O WITH DIAERESIS
04E8  ; DISALLOWED  # CYRILLIC CAPITAL LETTER BARRED O
04E9  ; PVALID  # CYRILLIC SMALL LETTER BARRED O
04EA  ; DISALLOWED  # CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS
04EB  ; PVALID  # CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS
04EC  ; DISALLOWED  # CYRILLIC CAPITAL LETTER E WITH DIAERESIS
04ED  ; PVALID  # CYRILLIC SMALL LETTER E WITH DIAERESIS
04EE  ; DISALLOWED  # CYRILLIC CAPITAL LETTER U WITH MACRON
04EF  ; PVALID  # CYRILLIC SMALL LETTER U WITH MACRON
04F0  ; DISALLOWED  # CYRILLIC CAPITAL LETTER U WITH DIAERESIS
04F1  ; PVALID  # CYRILLIC SMALL LETTER U WITH DIAERESIS
04F2  ; DISALLOWED  # CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
04F3  ; PVALID  # CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
04F4  ; DISALLOWED  # CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS
04F5  ; PVALID  # CYRILLIC SMALL LETTER CHE WITH DIAERESIS
04F6  ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
04F7  ; PVALID  # CYRILLIC SMALL LETTER GHE WITH DESCENDER
04F8  ; DISALLOWED  # CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS
04F9  ; PVALID  # CYRILLIC SMALL LETTER YERU WITH DIAERESIS
04FA  ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH STROKE AND HO
04FB  ; PVALID  # CYRILLIC SMALL LETTER GHE WITH STROKE AND HO
04FC  ; DISALLOWED  # CYRILLIC CAPITAL LETTER HA WITH HOOK
04FD  ; PVALID  # CYRILLIC SMALL LETTER HA WITH HOOK
04FE  ; DISALLOWED  # CYRILLIC CAPITAL LETTER HA WITH STROKE
04FF  ; PVALID  # CYRILLIC SMALL LETTER HA WITH STROKE
0500  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI DE
0501  ; PVALID  # CYRILLIC SMALL LETTER KOMI DE
0502  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI DJE
0503  ; PVALID  # CYRILLIC SMALL LETTER KOMI DJE
0504  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI ZJE
0505  ; PVALID # CYRILLIC SMALL LETTER KOMI ZJE
0506  ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DZJE
0507  ; PVALID # CYRILLIC SMALL LETTER KOMI DZJE
0508  ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI LJE
0509  ; PVALID # CYRILLIC SMALL LETTER KOMI LJE
050A  ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI NJE
050B  ; PVALID # CYRILLIC SMALL LETTER KOMI NJE
050C  ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI SJE
050D  ; PVALID # CYRILLIC SMALL LETTER KOMI SJE
050E  ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI TJE
050F  ; PVALID # CYRILLIC SMALL LETTER KOMI TJE
0510  ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED ZE
0511  ; PVALID # CYRILLIC SMALL LETTER REVERSED ZE
0512  ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH HOOK
0513  ; PVALID # CYRILLIC SMALL LETTER EL WITH HOOK
0514  ; DISALLOWED # CYRILLIC CAPITAL LETTER LHA
0515  ; PVALID # CYRILLIC SMALL LETTER LHA
0516  ; DISALLOWED # CYRILLIC CAPITAL LETTER RHA
0517  ; PVALID # CYRILLIC SMALL LETTER RHA
0518  ; DISALLOWED # CYRILLIC CAPITAL LETTER YAE
0519  ; PVALID # CYRILLIC SMALL LETTER YAE
051A  ; DISALLOWED # CYRILLIC CAPITAL LETTER QA
051B  ; PVALID # CYRILLIC SMALL LETTER QA
051C  ; DISALLOWED # CYRILLIC CAPITAL LETTER WE
051D  ; PVALID # CYRILLIC SMALL LETTER WE
051E  ; DISALLOWED # CYRILLIC CAPITAL LETTER ALEUT KA
051F  ; PVALID # CYRILLIC SMALL LETTER ALEUT KA
0520  ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521  ; PVALID # CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK
0522  ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523  ; PVALID # CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK
0524  ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH DESCENDER
0525  ; PVALID # CYRILLIC SMALL LETTER PE WITH DESCENDER
0526  ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527  ; PVALID # CYRILLIC SMALL LETTER SHHA WITH DESCENDER
0528  ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK
0529  ; PVALID # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
052A  ; DISALLOWED # CYRILLIC CAPITAL LETTER DZZHE
052B  ; PVALID # CYRILLIC SMALL LETTER DZZHE
052C  ; DISALLOWED # CYRILLIC CAPITAL LETTER DCHE
052D  ; PVALID # CYRILLIC SMALL LETTER DCHE
052E  ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH DESCENDER
052F  ; PVALID # CYRILLIC SMALL LETTER EL WITH DESCENDER
0530  ; UNASSIGNED # <reserved>
0531..0556 ; DISALLOWED # ARMENIAN CAPITAL LETTER AYB..ARMENIAN CAPITAL
0557..0558 ; UNASSIGNED # <reserved>..
0559  ; PVALID # ARMENIAN MODIFIER LETTER LEFT HALF RING
055A..055F ; DISALLOWED # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION M
0560..0586: PVALID  # ARMENIAN SMALL LETTER TURNED AYB..ARMENIAN S
0587: DISALLOWED  # ARMENIAN SMALL LIGATURE ECH YIWN
0588: PVALID  # ARMENIAN SMALL LETTER YI WITH STROKE
0589..058A: DISALLOWED  # ARMENIAN FULL STOP..ARMENIAN HYPHEN
058B..058C: UNASSIGNED  # <reserved>..<reserved>
058D..058F: DISALLOWED  # RIGHT-FACING ARMENIAN ETERNITY SIGN..ARMENIA
0590: UNASSIGNED  # <reserved>
0591..05BD: PVALID  # HEBREW ACCENT ETNAHTA..HEBREW POINT METEG
05BE: DISALLOWED  # HEBREW PUNCTUATION MAQAF
05BF: PVALID  # HEBREW POINT RAFE
05C0: DISALLOWED  # HEBREW PUNCTUATION PASIQ
05C1..05C2: PVALID  # HEBREW POINT SHIN DOT..HEBREW POINT SIN DOT
05C3: DISALLOWED  # HEBREW PUNCTUATION SOF PASUQ
05C4..05C5: PVALID  # HEBREW MARK UPPER DOT..HEBREW MARK LOWER DOT
05C6: DISALLOWED  # HEBREW PUNCTUATION NUN HAFUKHA
05C7: PVALID  # HEBREW POINT QAMATS QATAN
05C8..05CF: UNASSIGNED  # <reserved>..<reserved>
05D0..05EA: PVALID  # HEBREW LETTER ALEF..HEBREW LETTER TAV
05EB..05EE: UNASSIGNED  # <reserved>..<reserved>
05EF..05F2: PVALID  # HEBREW YOD TRIANGLE..HEBREW LIGATURE YIDDISH
05F3..05F4: CONTEXTO  # HEBREW PUNCTUATION GERSH..HEBREW PUNCTUATION
05F5..05FF: UNASSIGNED  # <reserved>..<reserved>
0600..060F: DISALLOWED  # ARABIC NUMBER SIGN..ARABIC SIGN MISRA
0610..061A: PVALID  # ARABIC SIGN SALLALLAHOU ALAYHE WASSALLAM..AR
061B..061C: DISALLOWED  # ARABIC SEMICOLON..ARABIC LETTER MARK
061D: UNASSIGNED  # <reserved>
061E..061F: DISALLOWED  # ARABIC TRIPLE DOT PUNCTUATION MARK..ARABIC Q
0620..063F: PVALID  # ARABIC LETTER KASHMI RI YEH..ARABIC LETTER FA
0640: DISALLOWED  # ARABIC TATWEEL
0641..065F: PVALID  # ARABIC LETTER FEH..ARABIC WAVY HAMZA BELOW
0660..0669: CONTEXTO  # ARABIC-INDIC DIGIT ZERO..ARABIC-INDIC DIGIT
066A..066D: DISALLOWED  # ARABIC PERCENT SIGN..ARABIC FIVE POINTED STA
066E..0674: PVALID  # ARABIC LETTER DOTLESS BEH..ARABIC LETTER HIG
0675..0678: DISALLOWED  # ARABIC LETTER HIGH HAMZA ALEF..ARABIC LETTER
0679..06D3: PVALID  # ARABIC LETTER TTEH..ARABIC LETTER YEH BARREE
06D4: DISALLOWED  # ARABIC FULL STOP
06D5..06DC: PVALID  # ARABIC LETTER AE..ARABIC SMALL HIGH SEEN
06DD..06DE: DISALLOWED  # ARABIC END OF AYAH..ARABIC START OF RUB EL H
06DF..06E8: DISALLOWED  # ARABIC SMALL HIGH ROUNDED ZERO..ARABIC SMALL
06E9: DISALLOWED  # ARABIC PLACE OF SADJDAH
06EA..06EF: PVALID  # ARABIC EMPTY CENTRE LOW STOP..ARABIC LETTER
06F0..06F9: CONTEXTO  # EXTENDED ARABIC-INDIC DIGIT ZERO..EXTENDED A
06FA..06FF: PVALID  # ARABIC LETTER SHEEN WITH DOT BELOW..ARABIC L
0700..070D: DISALLOWED  # SYRIAC END OF PARAGRAPH..SYRIAC HARKLEAN AST
070E: UNASSIGNED  # <reserved>
070F: DISALLOWED  # SYRIAC ABBREVIATION MARK
0710..074A: PVALID  # SYRIAC LETTER ALAPH..SYRIAC BARREKH
074B..074C: UNASSIGNED  # <reserved>..<reserved>
074D..07B1 ; PVALID # SYRIAC LETTER SOGDIAN ZHAIN..THAANA LETTER N
07B2..07BF ; UNASSIGNED # <reserved>..<reserved>
07C0..07F5 ; PVALID # NKO DIGIT ZERO..NKO LOW TONE APOSTROPHE
07F6..07FA ; DISALLOWED # NKO SYMBOL OO DENNEN..NKO LAJANYALAN
07FB..07FC ; UNASSIGNED # <reserved>..<reserved>
07FD ; PVALID # NKO DANTAYALAN
07FE..07FF ; DISALLOWED # NKO DOROME SIGN..NKO TAMAN SIGN
0800..082D ; PVALID # SAMARITAN LETTER ALAF..SAMARITAN MARK NEQUA
082E..082F ; UNASSIGNED # <reserved>..<reserved>
0830..083E ; DISALLOWED # SAMARITAN PUNCTUATION NEQUDAA..SAMARITAN PUN
083F ; UNASSIGNED # <reserved>
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086B..086F ; DISALLOWED # SYRIAC LETTER MALAYALAM MAR..SYRIAC LETTER N
0870..087F ; PVALID # SYRIAC LETTER MALAYALAM P..SYRIAC LETTER RA
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08E3..08F5 ; PVALID # SYRIAC LETTER X..SYRIAC LETTER Z
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09D8..09DB  ; UNASSIGNED  # <reserved>..<reserved>
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09DE        ; UNASSIGNED  # <reserved>
09DF        ; DISALLOWED # BENGALI LETTER YYA
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09F2..09FB  ; DISALLOWED # BENGALI RUPEE MARK..BENGALI GANDA MARK
09FC        ; PVALID    # BENGALI LETTER VEDIC ANUSVARA
09FD        ; DISALLOWED # BENGALI ABBREVIATION SIGN
09FE        ; PVALID    # BENGALI SANDHI MARK
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0A22..0A27  ; DISALLOWED # GURMUKHI LETTER LLA
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0A60..0A65  ; DISALLOWED # GURMUKHI LETTER ZA
0A66..0A6F  ; DISALLOWED # GURMUKHI LETTER FA
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0B71 ; PVALID # ORIYA LETTER WA
0B72..0B77 ; DISALLOWED # ORIYA FRACTION ONE QUARTER..ORIYA FRACTION T
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0D45  ; UNASSIGNED  # <reserved>
0D46..0D48  ; PVALID  # MALAYALAM VOWEL SIGN E..MALAYALAM VOWEL SIGN
0D49  ; UNASSIGNED  # <reserved>
0D4A..0D4E  ; PVALID  # MALAYALAM VOWEL SIGN O..MALAYALAM LETTER DOT
0D4F  ; DISALLOWED  # MALAYALAM SIGN PARA
0D50..0D53  ; UNASSIGNED  # <reserved>..<reserved>
0D54..0D57  ; PVALID  # MALAYALAM LETTER CHILLU M..MALAYALAM AU LENG
0D58..0D5E  ; DISALLOWED  # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D5F..0D63  ; PVALID  # MALAYALAM LETTER ARCHAIIC II..MALAYALAM VOWEL
0D64..0D65  ; UNASSIGNED  # <reserved>..<reserved>
0D66..0D6F  ; PVALID  # MALAYALAM DIGIT ZERO..MALAYALAM DIGIT NINE
0D70..0D79  ; DISALLOWED  # MALAYALAM NUMBER TEN..MALAYALAM DATE MARK
0D7A..0D7F  ; PVALID  # MALAYALAM LETTER CHILLU NN..MALAYALAM LETTER
0D80..0D81  ; UNASSIGNED  # <reserved>..<reserved>
0D82..0D83  ; PVALID  # SINGHALA SIGN ANUSVARAYA..SINHALA SIGN VISARG
0D84  ; UNASSIGNED  # <reserved>
0D85..0D96  ; PVALID  # SINGHALA LETTER AYANNA..SINHALA LETTER AUYANN
0D97..0D99  ; UNASSIGNED  # <reserved>..<reserved>
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0DB2  ; UNASSIGNED  # <reserved>
0DB3..0DBB  ; PVALID  # SINGHALA LETTER SANYAKA DAYANNA..SINHALA LETT
0DBC  ; UNASSIGNED  # <reserved>
0DBD  ; PVALID  # SINGHALA LETTER DANTAJA LAYANNA
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0DCB..0DCE  ; UNASSIGNED  # <reserved>..<reserved>
0DCF..0DD4  ; PVALID  # SINGHALA VOWEL SIGN AELA-PILLA..SINHALA VOWEL
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0DD7  ; UNASSIGNED  # <reserved>
0DD8..0DDF  ; PVALID  # SINGHALA VOWEL SIGN GAETTA-PILLA..SINHALA VOW
0DE0..0DE5  ; UNASSIGNED  # <reserved>..<reserved>
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0DF0..0DF1  ; UNASSIGNED  # <reserved>..<reserved>
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0DF4  ; DISALLOWED  # SINGHALA PUNCTUATION KUNDDALIYA
0DF5..0E00  ; UNASSIGNED  # <reserved>..<reserved>
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0E33  ; DISALLOWED  # THAI CHARACTER SARA AM
0E34..0E3A  ; PVALID  # THAI CHARACTER SARA I..THAI CHARACTER PHINTH
0E3B..0E3E  ; UNASSIGNED  # <reserved>..<reserved>
0E3F  ; DISALLOWED  # THAI CURRENCY SYMBOL BAHT
0E40..0E4E  ; PVALID  # THAI CHARACTER SARA E..THAI CHARACTER YAMAKK
0E4F  ; DISALLOWED  # THAI CHARACTER FONGMAN
0E50..0E5B  ; DISALLOWED  # THAI CHARACTER ANGKHANKHU..THAI CHARACTER KH
0E5C..0E80  ; UNASSIGNED  # <reserved>..<reserved>
0E81..0E82  ; PVALID  # LAO LETTER KO..LAO LETTER KHO SUNG
0E83  ; UNASSIGNED  # <reserved>
0E84  ; PVALID  # LAO LETTER KHO TAM
0E85..0E86  ; UNASSIGNED  # <reserved>..<reserved>
0E87..0E88  ; PVALID  # LAO LETTER NGO..LAO LETTER CO
0E89  ; UNASSIGNED  # <reserved>
0E8A  ; PVALID  # LAO LETTER SO TAM
0E8B..0E8C  ; UNASSIGNED  # <reserved>..<reserved>
0E8D  ; PVALID  # LAO LETTER NYO
0E8E..0E93  ; UNASSIGNED  # <reserved>..<reserved>
0E94..0E97  ; PVALID  # LAO LETTER DO..LAO LETTER THO TAM
0E98  ; UNASSIGNED  # <reserved>
0E99..0E9F  ; PVALID  # LAO LETTER NO..LAO LETTER FO SUNG
0EA0  ; UNASSIGNED  # <reserved>
0EA1..0EA3  ; PVALID  # LAO LETTER MO..LAO LETTER LO LING
0EA4  ; UNASSIGNED  # <reserved>
0EA5  ; PVALID  # LAO LETTER LO Loot
0EA6  ; UNASSIGNED  # <reserved>
0EA7  ; PVALID  # LAO LETTER WO
0EA8..0EA9  ; UNASSIGNED  # <reserved>..<reserved>
0EAA..0EAB  ; PVALID  # LAO LETTER SO SUNG..LAO LETTER HO SUNG
0EAC  ; UNASSIGNED  # <reserved>
0EAD..0EB2  ; PVALID  # LAO LETTER O..LAO VOWEL SIGN AA
0EB3  ; DISALLOWED  # LAO VOWEL SIGN AM
0EB4..0EB9  ; PVALID  # LAO VOWEL SIGN I..LAO VOWEL SIGN UU
0EBA  ; UNASSIGNED  # <reserved>
0EBB..0EBD  ; PVALID  # LAO VOWEL SIGN MAI KON..LAO SEMIVOWEL SIGN N
0EBE..0EBF  ; UNASSIGNED  # <reserved>..<reserved>
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0EC5  ; UNASSIGNED  # <reserved>
0EC6  ; PVALID  # LAO KO LA
0EC7  ; UNASSIGNED  # <reserved>
0EC8..0ECF  ; PVALID  # LAO TONE MAI EK..LAO NIGGAHITA
0ECE..0ECF  ; UNASSIGNED  # <reserved>..<reserved>
0ED0..0ED9  ; PVALID  # LAO DIGIT ZERO..LAO DIGIT NINE
0EDA..0EDB  ; UNASSIGNED  # <reserved>..<reserved>
0ECC..0EDD  ; DISALLOWED  # LAO HO NO..LAO HO MO
0EDE..0EDF  ; PVALID  # LAO LETTER KHMU GO..LAO LETTER KHMU NYO
0EE0..0EFF ; UNASSIGNED  # <reserved>..<reserved>
0F00 ; PVVALID  # TIBETAN SYLLABLE OM
0F01..0F0A ; DISALLOWED  # TIBETAN MARK GTER YIG MGO TRUNCATED A..TIBETAN
0F0B ; PVVALID  # TIBETAN MARK INTERSYLLABIC TSHEG
0F0C..0F17 ; DISALLOWED  # TIBETAN MARK DELIMITER TSHEG BSTAR..TIBETAN
0F18..0F19 ; PVVALID  # TIBETAN ASTROLOGICAL SIGN -KHYUD PA..TIBETAN
0F1A..0F1F ; DISALLOWED  # TIBETAN SIGN RDEL DKAR GCIG..TIBETAN SIGN RD
0F20..0F29 ; PVVALID  # TIBETAN DIGIT ZERO..TIBETAN DIGIT NINE
0F2A..0F33 ; DISALLOWED  # TIBETAN DIGIT HALF ONE..TIBETAN MARK BSDUS R
0F35 ; PVVALID  # TIBETAN MARK NGAS BZUNG NYI ZLA
0F36 ; DISALLOWED  # TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN
0F37 ; PVVALID  # TIBETAN MARK NGAS BZUNG SGOR RTAGS
0F38 ; DISALLOWED  # TIBETAN MARK CHE MGO
0F39 ; PVVALID  # TIBETAN MARK TSA -PHRU
0F3A..0F3D ; DISALLOWED  # TIBETAN MARK GUG RTAGS GYON..TIBETAN MARK AN
0F3E..0F42 ; PVVALID  # TIBETAN SIGN YAR TSHES..TIBETAN LETTER GA
0F43 ; DISALLOWED  # TIBETAN LETTER GHA
0F44..0F47 ; PVVALID  # TIBETAN LETTER NGA..TIBETAN LETTER JA
0F48 ; UNASSIGNED  # <reserved>
0F49..0F4C ; PVVALID  # TIBETAN LETTER NGA..TIBETAN LETTER DDA
0F4D ; DISALLOWED  # TIBETAN LETTER DDHA
0F4E..0F51 ; PVVALID  # TIBETAN LETTER NNA..TIBETAN LETTER DA
0F52 ; DISALLOWED  # TIBETAN LETTER DHA
0F53..0F56 ; PVVALID  # TIBETAN LETTER NA..TIBETAN LETTER BA
0F57 ; DISALLOWED  # TIBETAN LETTER BHA
0F58..0F5B ; PVVALID  # TIBETAN LETTER MA..TIBETAN LETTER DZA
0F5C ; DISALLOWED  # TIBETAN LETTER D2HA
0F5D..0F68 ; PVVALID  # TIBETAN LETTER WA..TIBETAN LETTER A
0F69 ; DISALLOWED  # TIBETAN LETTER KSSA
0F6A..0F6C ; PVVALID  # TIBETAN LETTER FIXED-FORM RA..TIBETAN LETTER
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0F73 ; DISALLOWED  # TIBETAN VOWEL SIGN II
0F74 ; PVVALID  # TIBETAN VOWEL SIGN U
0F75..0F79 ; DISALLOWED  # TIBETAN VOWEL SIGN UU..TIBETAN VOWEL SIGN VO
0F7A..0F80 ; PVVALID  # TIBETAN VOWEL SIGN E..TIBETAN VOWEL SIGN REV
0F81 ; DISALLOWED  # TIBETAN VOWEL SIGN REVERSED II
0F82..0F84 ; PVVALID  # TIBETAN SIGN NYI ZLA NAA DA..TIBETAN MARK HA
0F85 ; DISALLOWED  # TIBETAN MARK PALUTA
0F86..0F92 ; PVVALID  # TIBETAN SIGN LCI RTAGS..TIBETAN SUBJOINED LE
0F93 ; DISALLOWED  # TIBETAN SUBJOINED LETTER GHA
0F94..0F97 ; PVVALID  # TIBETAN SUBJOINED LETTER NGA..TIBETAN SUBJOI
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0F9D ; DISALLOWED  # TIBETAN SUBJOINED LETTER DDHA
0FA1 ; PVVALID  # TIBETAN SUBJOINED LETTER NNA..TIBETAN SUBJOI
0FA2 ; DISALLOWED  # TIBETAN SUBJOINED LETTER DHA
0FA3..0FA6 ; PVVALID  # TIBETAN SUBJOINED LETTER NA..TIBETAN SUBJOIN
0FA7 ; DISALLOWED # TIBETAN SUBJOINED LETTER BHA
0FA8..0FAB ; PVALID # TIBETAN SUBJOINED LETTER MA..TIBETAN SUBJOIN
0FAC ; DISALLOWED # TIBETAN SUBJOINED LETTER DZHA
0FAD..0FB8 ; PVALID # TIBETAN SUBJOINED LETTER WA..TIBETAN SUBJOIN
0FB9 ; DISALLOWED # TIBETAN SUBJOINED LETTER KSSA
0FBA..0FBC ; PVALID # TIBETAN SUBJOINED LETTER FIXED-FORM WA..TIBETAN SUBJOIN
0FBD ; UNASSIGNED # <reserved>
0FBE..0FC5 ; DISALLOWED # TIBETAN SYMBOL RDO RJE..TIBETAN SYMBOL RDO RJE
0FC6 ; PVALID # TIBETAN SYMBOL PADMA GDAN
0FC7..0FCC ; DISALLOWED # TIBETAN SYMBOL RDO RJE RGYA GRAM..TIBETAN SY
0FCD ; UNASSIGNED # <reserved>
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0FDB..0FFF ; UNASSIGNED # <reserved>..<reserved>
1000..1049 ; PVALID # MYANMAR LETTER KA..MYANMAR DIGIT NINE
104A..104F ; DISALLOWED # MYANMAR SIGN LITTLE SECTION..MYANMAR SYMBOL
1050..1059D ; PVALID # MYANMAR LETTER SHA..MYANMAR VOWEL SIGN AITON
109E..10C5 ; DISALLOWED # MYANMAR SYMBOL SHAN ONE..GEORGIAN CAPITAL LE
10C6 ; UNASSIGNED # <reserved>
10C7 ; DISALLOWED # GEORGIAN CAPITAL LETTER YN
10C8..10CC ; UNASSIGNED # <reserved>..<reserved>
10CD ; DISALLOWED # GEORGIAN CAPITAL LETTER AEN
10CE..10CF ; UNASSIGNED # <reserved>..<reserved>
10D0..10FA ; PVALID # GEORGIAN LETTER AN..GEORGIAN LETTER AIN
10FB..10FC ; DISALLOWED # GEORGIAN PARAGRAPH SEPARATOR..MODIFIER LETTER
10FD..10FF ; PVALID # GEORGIAN LETTER AEN..GEORGIAN LETTER LABIAL
1100..11FF ; DISALLOWED # HANGUL CHOSEONG KIYEOK..HANGUL JONGSEONG SSA
1200..1248 ; PVALID # ETHIOPIAN SYLLABLE HA..ETHIOPIAN SYLLABLE QWA
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124A..124D ; PVALID # ETHIOPIAN SYLLABLE QWI..ETHIOPIAN SYLLABLE QWE
124E..124F ; UNASSIGNED # <reserved>..<reserved>
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125A..125D ; PVALID # ETHIOPIAN SYLLABLE QHWA..ETHIOPIAN SYLLABLE QH
125E..125F ; UNASSIGNED # <reserved>..<reserved>
1260..1288 ; PVALID # ETHIOPIAN SYLLABLE BA..ETHIOPIAN SYLLABLE XWA
1289 ; UNASSIGNED # <reserved>
128A..128D ; PVALID # ETHIOPIAN SYLLABLE XWI..ETHIOPIAN SYLLABLE XWE
128E..128F ; UNASSIGNED # <reserved>..<reserved>
1290..12B0 ; PVALID # ETHIOPIAN SYLLABLE NA..ETHIOPIAN SYLLABLE KWA
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12BF ; UNASSIGNED # <reserved>
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1A8A..1A8F ; UNASSIGNED # <reserved>..<reserved>
1A90..1A99 ; PVALID # TAI THAM DIGIT ZERO..TAI THAM DIGI
1A9A..1A9F ; UNASSIGNED # <reserved>..<reserved>
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1AA7 ; PVALID # TAI THAM SIGN MAI YAMOK
1AA8..1AAD ; DISALLOWED # TAI THAM SIGN KAAN..TAI THAM SIGN CAANG
1AAE..1AFA ; UNASSIGNED # <reserved>..<reserved>
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1ABE ; DISALLOWED # COMBINING PARENTHESES OVERLAY
1ABF..1AFF ; UNASSIGNED # <reserved>..<reserved>
1B00..1B4B ; PVALID # BALINESE SIGN ULU RICEM..BALINESE LETTER ASY
1B4C..1B4F ; UNASSIGNED # <reserved>..<reserved>
1B50..1B59 ; PVALID # BALINESE DIGIT ZERO..BALINESE DIGIT NINE
1B5A..1B67 ; DISALLOWED # BALINESE PANTI..BALINESE MUSICAL SYMBOL DANG
1B68..1B73 ; PVALID # BALINESE MUSICAL SYMBOL COMBINING TEGEH..BAL
1B74..1B7C ; DISALLOWED # BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG.
1B7D..1B7F ; UNASSIGNED # <reserved>..<reserved>
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1B84..1B8B ; UNASSIGNED # <reserved>..<reserved>
1B8C..1B8F ; DISALLOWED # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1C00..1C37 ; PVALID # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C38..1C3A ; UNASSIGNED # <reserved>..<reserved>
1C3B..1C3D ; DISALLOWED # LEPCHA PUNCTUATION TA-ROL..LEPCHA PUNCTUATIO
1C40..1C49 ; PVALID # LEPCHA DIGIT ZERO..LEPCHA DIGIT NINE
1C4A..1C4C ; UNASSIGNED # <reserved>..<reserved>
1C4D..1C6D ; DISALLOWED # LEPCHA LETTER TTA..OL CHIKI AHAD
1C7E..1C88 ; DISALLOWED # OL CHIKI PUNCTUATION MUCAAD..CYRILLIC SMALL
1C89..1C8F ; UNASSIGNED # <reserved>..<reserved>
1C90..1C94 ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBB..1CBB ; UNASSIGNED # <reserved>..<reserved>
1CDB..1CC7 ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CC8..1CCF ; UNASSIGNED # <reserved>..<reserved>
1CDO..1CDE ; PVALID # VEDIC TONE KARSHANA..VEDIC TONE PRENKH
1CD3 ; DISALLOWED # VEDIC SIGN NIHSHVASA
1CD4..1CF9 ; PVALID # VEDIC SIGN YAJURVEDIC MIDLINE SVARITA..VEDIC
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1D2C..1D2E ; DISALLOWED # MODIFIER LETTER CAPITAL A..MODIFIER LETTER C
1D2F ; PVALID # MODIFIER LETTER CAPITAL B ARDED B
1D30..1D3A ; DISALLOWED # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B ; PVALID # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D ; DISALLOWED # MODIFIER LETTER CAPITAL A..MODIFIER LETTER S
1D4E ; PVALID # MODIFIER LETTER SMALL TURNED I
1D4F..1D66 ; DISALLOWED # MODIFIER LETTER SMALL K..GREEK SUBSCRIPT SMA
1D68..1D77 ; PVALID # LATIN SMALL LETTER UE..LATIN SMALL LETTER TU
1D78 ; DISALLOWED # MODIFIER LETTER CYRILLIC EN
1D79..1D9A  ; PVALID  # LATIN SMALL LETTER INSULAR G..LATIN SMALL LE
1D9B..1DBF  ; DISALLOWED  # MODIFIER LETTER SMALL TURNED ALPHA..MODIFIER
1DC0..1DF9  ; PVALID  # COMBINING DOTTED GRAVE ACCENT..COMBINING WID
1DFA        ; UNASSIGNED  # <reserved>
1DFB..1DFF  ; PVALID  # COMBINING DELETION MARK..COMBINING RIGHT ARR
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1E01        ; PVALID  # LATIN SMALL LETTER A WITH RING BELOW
1E02        ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT ABOVE
1E03        ; PVALID  # LATIN SMALL LETTER B WITH DOT ABOVE
1E04        ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT BELOW
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1E07        ; PVALID  # LATIN SMALL LETTER B WITH LINE BELOW
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1E09        ; PVALID  # LATIN SMALL LETTER C WITH CEDILLA AND ACUTE
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1E0B        ; PVALID  # LATIN SMALL LETTER D WITH DOT ABOVE
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1E0D        ; PVALID  # LATIN SMALL LETTER D WITH DOT BELOW
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1E0F        ; PVALID  # LATIN SMALL LETTER D WITH LINE BELOW
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1E13        ; PVALID  # LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW
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1E1B        ; PVALID  # LATIN SMALL LETTER E WITH TILDE BELOW
1E1C        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CEDILLA AND BREV
1E1D        ; PVALID  # LATIN SMALL LETTER E WITH CEDILLA AND BREVE
1E1E        ; DISALLOWED  # LATIN CAPITAL LETTER F WITH DOT ABOVE
1E1F        ; PVALID  # LATIN SMALL LETTER F WITH DOT ABOVE
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1E21        ; PVALID  # LATIN SMALL LETTER G WITH MACRON
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1E23        ; PVALID  # LATIN SMALL LETTER H WITH DOT ABOVE
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1E27        ; PVALID  # LATIN SMALL LETTER H WITH DIAERESIS
1E28        ; DISALLOWED  # LATIN CAPITAL LETTER H WITH CEDILLA
1E29        ; PVALID  # LATIN SMALL LETTER H WITH CEDILLA
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1E2D ; PVALID # LATIN SMALL LETTER I WITH TILDE BELOW
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1E64 ; DISALLOWED  # LATIN CAPITAL LETTER S WITH ACUTE AND DOT AB
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1E66 ; DISALLOWED  # LATIN CAPITAL LETTER S WITH CARON AND DOT AB
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1E69 ; PVALID  # LATIN SMALL LETTER S WITH DOT BELOW AND DOT
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1E87 ; PVALID  # LATIN SMALL LETTER W WITH DOT ABOVE
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<td>1F78</td>
<td>PVALID</td>
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1F7A        ; PVALID       # GREEK SMALL LETTER UPSILON WITH VARIA
1F7B        ; DISALLOWED  # GREEK SMALL LETTER UPSILON WITH OXIA
1F7C        ; PVALID       # GREEK SMALL LETTER OMEGA WITH VARIA
1F7D        ; DISALLOWED  # GREEK SMALL LETTER OMEGA WITH OXIA
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1F80..1FAF  ; DISALLOWED  # GREEK SMALL LETTER ALPHA WITH PSILI AND YPOG
1FB0..1FB1  ; PVALID       # GREEK SMALL LETTER ALPHA WITH VRACHY..GREEK
1FB2..1FB4  ; DISALLOWED  # GREEK SMALL LETTER ALPHA WITH VARIA AND YPOG
1FB5        ; UNASSIGNED # <reserved>
1FB6        ; PVALID       # GREEK SMALL LETTER ALPHA WITH PERISPOMENI
1FB7..1FC4  ; DISALLOWED  # GREEK SMALL LETTER ALPHA WITH PERISPOMENI AN
1FC5        ; UNASSIGNED # <reserved>
1FC6        ; PVALID       # GREEK SMALL LETTER ETA WITH PERISPOMENI
1FC7..1FCF  ; DISALLOWED  # GREEK SMALL LETTER ETA WITH PERISPOMENI AND
1FD0..1FD2  ; PVALID       # GREEK SMALL LETTER IOTA WITH VRACHY..GREEK S
1FD3        ; DISALLOWED  # GREEK SMALL LETTER IOTA WITH DIALYTIKA AND O
1FD4..1FD5  ; UNASSIGNED # <reserved>..<reserved>
1FD6..1FD7  ; PVALID       # GREEK SMALL LETTER IOTA WITH PERISPOMENI..GR
1FD8..1FDB  ; DISALLOWED  # GREEK CAPITAL LETTER IOTA WITH VRACHY..GREEK
1FDC        ; UNASSIGNED # <reserved>
1FDD..1FDF  ; DISALLOWED  # GREEK DASIA AND VARIA..GREEK DASIA AND PERIS
1FE0..1FE2  ; PVALID       # GREEK SMALL LETTER UPSILON WITH VRACHY..GREE
1FE3        ; DISALLOWED  # GREEK SMALL LETTER UPSILON WITH DIALYTIKA AN
1FE4..1FE7  ; PVALID       # GREEK SMALL LETTER RHO WITH PSILI..GREEK SMA
1FE8..1FEF  ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH VRACHY..GR
1FF0..1FF1  ; UNASSIGNED # <reserved>..<reserved>
1FF2..1FF4  ; DISALLOWED  # GREEK SMALL LETTER OMEGA WITH VARIA AND YPOG
1FF5        ; UNASSIGNED # <reserved>
1FF6        ; PVALID       # GREEK SMALL LETTER OMEGA WITH PERISPOMENI
1FF7..1FFE  ; DISALLOWED  # GREEK SMALL LETTER OMEGA WITH PERISPOMENI AN
1FFF        ; UNASSIGNED # <reserved>
2000..200B  ; DISALLOWED  # EN QUAD..ZERO WIDTH SPACE
200C..200D  ; CONTEXTJ    # ZERO WIDTH NON-JOINER..ZERO WIDTH JOINER
200E..2064  ; DISALLOWED  # LEFT-TO-RIGHT MARK..INVISIBLE PLUS
2065        ; UNASSIGNED # <reserved>
2066..2071  ; DISALLOWED  # LEFT-TO-RIGHT ISOLATE..SUPERSCRIPT LATIN SMA
2072..2073  ; UNASSIGNED # <reserved>..<reserved>
2074..208E  ; DISALLOWED  # SUPERSCRIPT FOUR..SUBSCRIPT RIGHT PARENTHESI
208F        ; UNASSIGNED # <reserved>
2090..209C  ; DISALLOWED  # LATIN SUBSCRIPT SMALL LETTER A..LATIN SUBSCR
209D..209F  ; UNASSIGNED # <reserved>..<reserved>
20A0..20BF  ; DISALLOWED  # EURO-CURRENCY SIGN..BITCOIN SIGN
20C0..20CF  ; UNASSIGNED # <reserved>..<reserved>
20D0..20F0  ; DISALLOWED  # COMBINING LEFT HARPOON ABOVE..COMBINING ASTE
20F1..20FF  ; UNASSIGNED # <reserved>..<reserved>
2100..214D  ; DISALLOWED  # ACCOUNT OF..AKTIESELSKAB
214E        ; PVALID       # TURNED SMALL F
214F..2183 ; DISALLOWED # SYMBOL FOR SAMARITAN SOURCE..ROMAN NUMERAL R
2184 ; PVALID # LATIN SMALL LETTER REVERSED C
2185..218B ; DISALLOWED # ROMAN NUMERAL SIX LATE FORM..TURNED DIGIT TH
218C..218F ; UNASSIGNED # <reserved>..<reserved>
2190..2426 ; DISALLOWED # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
2427..243F ; UNASSIGNED # <reserved>..<reserved>
2440..244A ; DISALLOWED # OCR HOOK..OCR DOUBLE BACKSLASH
244B..245F ; UNASSIGNED # <reserved>..<reserved>
2460..2B73 ; DISALLOWED # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
2B74..2B75 ; UNASSIGNED # <reserved>..<reserved>
2B76..2B95 ; DISALLOWED # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
2B96..2B97 ; UNASSIGNED # <reserved>..<reserved>
2B98..2BC8 ; DISALLOWED # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BC9 ; UNASSIGNED # <reserved>
2BCA..2BFF ; DISALLOWED # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
2C00..2C2E ; DISALLOWED # GLAGOLITIC CAPITAL LETTER AZU..GLAGOLITIC CA
2C2F ; UNASSIGNED # <reserved>
2C30..2C5E ; PVALID # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMAL
2C5F ; UNASSIGNED # <reserved>
2C60 ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOUBLE BAR
2C61 ; PVALID # LATIN SMALL LETTER L WITH DOUBLE BAR
2C62..2C66 ; DISALLOWED # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LA
2C67 ; PVALID # LATIN SMALL LETTER A WITH STROKE..LATIN SMAL
2C68 ; PVALID # LATIN CAPITAL LETTER H WITH DESCENDER
2C69 ; DISALLOWED # LATIN CAPITAL LETTER K WITH DESCENDER
2C6A ; PVALID # LATIN SMALL LETTER K WITH DESCENDER
2C6B ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DESCENDER
2C6C ; PVALID # LATIN SMALL LETTER Z WITH DESCENDER
2C6D..2C70 ; DISALLOWED # LATIN CAPITAL LETTER ALPHA..LATIN CAPITAL LE
2C71 ; PVALID # LATIN SMALL LETTER V WITH RIGHT HOOK
2C72 ; DISALLOWED # LATIN CAPITAL LETTER W WITH HOOK
2C73..2C74 ; PVALID # LATIN SMALL LETTER W WITH HOOK..LATIN SMALL
2C75 ; DISALLOWED # LATIN CAPITAL LETTER HALF H
2C76..2C7B ; PVALID # LATIN SMALL LETTER HALF H..LATIN LETTER SMAL
2C7C..2C80 ; DISALLOWED # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPIT
2C81 ; PVALID # COPTIC SMALL LETTER ALFA
2C82 ; DISALLOWED # COPTIC CAPITAL LETTER VIDA
2C83 ; PVALID # COPTIC SMALL LETTER VIDA
2C84 ; DISALLOWED # COPTIC CAPITAL LETTER GAMMA
2C85 ; PVALID # COPTIC SMALL LETTER GAMMA
2C86 ; DISALLOWED # COPTIC CAPITAL LETTER DALDA
2C87 ; PVALID # COPTIC SMALL LETTER DALDA
2C88 ; DISALLOWED # COPTIC CAPITAL LETTER EIE
2C89 ; PVALID # COPTIC SMALL LETTER EIE
2C8A ; DISALLOWED # COPTIC CAPITAL LETTER SOU
2C8B ; PVALID # COPTIC SMALL LETTER SOU
2C8C        ; DISALLOWED  # COPTIC CAPITAL LETTER ZATA
2C8D        ; PVALID      # COPTIC SMALL LETTER ZATA
2C8E        ; DISALLOWED  # COPTIC CAPITAL LETTER HATE
2C8F        ; PVALID      # COPTIC SMALL LETTER HATE
2C90        ; DISALLOWED  # COPTIC CAPITAL LETTER THETHE
2C91        ; PVALID      # COPTIC SMALL LETTER THETHE
2C92        ; DISALLOWED  # COPTIC CAPITAL LETTER IAUDA
2C93        ; PVALID      # COPTIC SMALL LETTER IAUDA
2C94        ; DISALLOWED  # COPTIC CAPITAL LETTER KAPA
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2C96        ; DISALLOWED  # COPTIC CAPITAL LETTER LAULA
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2C98        ; DISALLOWED  # COPTIC CAPITAL LETTER MI
2C99        ; PVALID      # COPTIC SMALL LETTER MI
2C9A        ; DISALLOWED  # COPTIC CAPITAL LETTER NI
2C9B        ; PVALID      # COPTIC SMALL LETTER NI
2C9C        ; DISALLOWED  # COPTIC CAPITAL LETTER KSI
2C9D        ; PVALID      # COPTIC SMALL LETTER KSI
2C9E        ; DISALLOWED  # COPTIC CAPITAL LETTER O
2C9F        ; PVALID      # COPTIC SMALL LETTER O
2CA0        ; DISALLOWED  # COPTIC CAPITAL LETTER PI
2CA1        ; PVALID      # COPTIC SMALL LETTER PI
2CA2        ; DISALLOWED  # COPTIC CAPITAL LETTER RO
2CA3        ; PVALID      # COPTIC SMALL LETTER RO
2CA4        ; DISALLOWED  # COPTIC CAPITAL LETTER SIMA
2CA5        ; PVALID      # COPTIC SMALL LETTER SIMA
2CA6        ; DISALLOWED  # COPTIC CAPITAL LETTER TAU
2CA7        ; PVALID      # COPTIC SMALL LETTER TAU
2CA8        ; DISALLOWED  # COPTIC CAPITAL LETTER UA
2CA9        ; PVALID      # COPTIC SMALL LETTER UA
2CAA        ; DISALLOWED  # COPTIC CAPITAL LETTER FI
2CAB        ; PVALID      # COPTIC SMALL LETTER FI
2CAC        ; DISALLOWED  # COPTIC CAPITAL LETTER KHI
2CAD        ; PVALID      # COPTIC SMALL LETTER KHI
2CAE        ; DISALLOWED  # COPTIC CAPITAL LETTER PSI
2CAF        ; PVALID      # COPTIC SMALL LETTER PSI
2CB0        ; DISALLOWED  # COPTIC CAPITAL LETTER OOU
2CB1        ; PVALID      # COPTIC SMALL LETTER OOU
2CB2        ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P ALEF
2CB3        ; PVALID      # COPTIC SMALL LETTER DIALECT-P ALEF
2CB4        ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC AIN
2CB5        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC AIN
2CB6        ; DISALLOWED  # COPTIC CAPITAL LETTER CRYPTOGRAMMIC EIE
2CB7        ; PVALID      # COPTIC SMALL LETTER CRYPTOGRAMMIC EIE
2CB8        ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P KAPA
2CB9        ; PVALID      # COPTIC SMALL LETTER DIALECT-P KAPA
2CBA        ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P NI
2CBB        ; PVALID      # COPTIC SMALL LETTER DIALECT-P NI
2CBC  ; DISALLOWED  # COPTIC CAPITAL LETTER CRYPTOGRAMMIC NI
2CBD  ; PVALID      # COPTIC SMALL LETTER CRYPTOGRAMMIC NI
2CBE  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC OOU
2CBF  ; PVALID      # COPTIC SMALL LETTER OLD COPTIC OOU
2CC0  ; DISALLOWED  # COPTIC CAPITAL LETTER SAMPi
2CC1  ; PVALID      # COPTIC SMALL LETTER SAMPi
2CC2  ; DISALLOWED  # COPTIC CAPITAL LETTER CROSSED SHEI
2CC3  ; PVALID      # COPTIC SMALL LETTER CROSSED SHEI
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2CC8  ; DISALLOWED  # COPTIC CAPITAL LETTER AKHMIMIC KHEI
2CC9  ; PVALID      # COPTIC SMALL LETTER AKHMIMIC KHEI
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2CB  ; PVALID      # COPTIC SMALL LETTER DIALECT-P HOrI
2CC  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HOrI
2CD  ; PVALID      # COPTIC SMALL LETTER OLD COPTIC HOrI
2CE  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HA
2CF  ; PVALID      # COPTIC SMALL LETTER OLD COPTIC HA
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2CD  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HAT
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2CD  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC GANGIA
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2CE  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD NUBIAN NYI
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2CE  ; PVALID      # COPTIC SMALL LETTER OLD NUBIAN WAU
2CE  ; DISALLOWED  # COPTIC CAPITAL LETTER C
2CE  ; PVALID      # COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CE  ; DISALLOWED  # COPTIC CAPITAL LETTER CRYPTOGRAMMIC GANGIA
2CF  ; PVALID      # COPTIC SMALL LETTER BOHAIRIC KHEI
2CF  ; DISALLOWED  # COPTIC CAPITAL LETTER BOHAIRIC KHEI
2CF  ; PVALID      # COPTIC SMALL LETTER BOHAIRIC KHEI
2CF  ; DISALLOWED  # <reserved>..<reserved>
2CF  ; PVALID      # COPTIC OLD NUBIAN FULL STOP
2CF  ; DISALLOWED  # COPTIC OLD NUBIAN FULL STOP
2CF  ; PVALID      # COPTIC OLD NUBIAN FULL STOP
2D00..2D25  ; PVALID  # GEORGIAN SMALL LETTER AN..GEORGIAN SMALL LETTER AE
2D26  ; UNASSIGNED  # <reserved>
2D27  ; PVALID  # GEORGIAN SMALL LETTER YN
2D28..2D2C  ; UNASSIGNED  # <reserved>..<reserved>
2D2D  ; PVALID  # GEORGIAN SMALL LETTER AEN
2D2E..2D2F  ; UNASSIGNED  # <reserved>..<reserved>
2D30..2D67  ; PVALID  # TIFINAGH LETTER YA..TIFINAGH LETTER YO
2D68..2D6E  ; UNASSIGNED  # <reserved>..<reserved>
2D6F..2D70  ; DISALLOWED  # TIFINAGH MODIFIER LETTER LABIALIZATION MARK.
2D71..2D7E  ; UNASSIGNED  # <reserved>..<reserved>
2D7F..2D96  ; PVALID  # TIFINAGH CONSONANT JOINER..ETHIOPIAN SYLLABLE
2D97..2D9F  ; UNASSIGNED  # <reserved>..<reserved>
2DA0..2DA6  ; PVALID  # ETHIOPIAN SYLLABLE SSA..ETHIOPIAN SYLLABLE SSO
2DA7  ; UNASSIGNED  # <reserved>
2DA8..2DAE  ; PVALID  # ETHIOPIAN SYLLABLE CCA..ETHIOPIAN SYLLABLE CCO
2DAF  ; UNASSIGNED  # <reserved>
2DB0..2DB6  ; PVALID  # ETHIOPIAN SYLLABLE ZZA..ETHIOPIAN SYLLABLE ZZO
2DB7  ; UNASSIGNED  # <reserved>
2DB8..2DBE  ; PVALID  # ETHIOPIAN SYLLABLE CCHA..ETHIOPIAN SYLLABLE CC
2DBF  ; UNASSIGNED  # <reserved>
2DC0..2DC6  ; PVALID  # ETHIOPIAN SYLLABLE QYA..ETHIOPIAN SYLLABLE QYO
2DC7  ; UNASSIGNED  # <reserved>
2DC8..2DCE  ; PVALID  # ETHIOPIAN SYLLABLE KYA..ETHIOPIAN SYLLABLE KYO
2DCF  ; UNASSIGNED  # <reserved>
2DD0..2DD6  ; PVALID  # ETHIOPIAN SYLLABLE XYA..ETHIOPIAN SYLLABLE XYO
2DD7  ; UNASSIGNED  # <reserved>
2DD8..2DDE  ; PVALID  # ETHIOPIAN SYLLABLE XYA..ETHIOPIAN SYLLABLE XYO
2DDF  ; UNASSIGNED  # <reserved>
2DE0..2DFF  ; PVALID  # COMBINING CYRILLIC LETTER BE..COMBINING CYRILLIC LETTER BE
2E00..2E2E  ; DISALLOWED  # RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QUOTATION MARK
2E2F  ; PVALID  # VERTICAL TILDE
2E30..2E4E  ; DISALLOWED  # RING POINT..PUNCTUS ELEVATUS MARK
2E4F..2E7F  ; UNASSIGNED  # <reserved>..<reserved>
2E80..2E99  ; DISALLOWED  # CJK RADICAL REPEAT..CJK RADICAL RAP
2E9A  ; UNASSIGNED  # <reserved>
2E9B..2EF3  ; DISALLOWED  # CJK RADICAL CHOKER..CJK RADICAL CHOKER C-SIMPLIFIED
2EF4..2EFF  ; UNASSIGNED  # <reserved>..<reserved>
2F00..2FD5  ; DISALLOWED  # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2FD6..2FEF  ; UNASSIGNED  # <reserved>..<reserved>
2FF0..2FFB  ; DISALLOWED  # IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT
2FFC..2FFF  ; UNASSIGNED  # <reserved>..<reserved>
3000..3004  ; DISALLOWED  # IDEOGRAPHIC SPACE..JAPANESE INDUSTRIAL SPACE
3005..3007  ; PVALID  # IDEOGRAPHIC ITERATION MARK..IDEOGRAPHIC NUMERICAL INDICATORS
3008..3029  ; DISALLOWED  # LEFT ANGLE BRACKET..HANGZHOU NUMERICAL NINE
302A..302D  ; PVALID  # IDEOGRAPHIC LEVEL TONE MARK..IDEOGRAPHIC ENTER
302E..303B  ; DISALLOWED  # HANGUL SINGLE DOT TONE MARK..VERTICAL IDEOGRAPHIC MARK
303C  ; PVALID  # IDEOGRAPHIC MARK
303D..303F  ; DISALLOWED  # PART ALTERNATION MARK..IDEOGRAPHIC HALF FILL

Faltstrom Expires June 12, 2019 [Page 55]
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A64B ; PVALID # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C ; DISALLOWED # CYRILLIC CAPITAL LETTER BROAD OMEGA
A64D ; PVALID # CYRILLIC SMALL LETTER BROAD OMEGA
A64E ; DISALLOWED # CYRILLIC CAPITAL LETTER NEUTRAL YER
A64F ; PVALID # CYRILLIC SMALL LETTER NEUTRAL YER
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A651 ; PVALID # CYRILLIC SMALL LETTER YERU WITH BACK YER
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A653 ; PVALID # CYRILLIC SMALL LETTER IOTIFIED YAT
A654 ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED YU
A655 ; PVALID # CYRILLIC SMALL LETTER REVERSED YU
A656 ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED A
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A659 ; PVALID # CYRILLIC SMALL LETTER CLOSED LITTLE YUS
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A65B ; PVALID # CYRILLIC SMALL LETTER BLENDED YUS
A65C ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED CLOSED LITT
A65D ; PVALID # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
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A66B ; PVALID # CYRILLIC SMALL LETTER BINOCULAR O
A66C ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F ; PVALID # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673 ; DISALLOWED # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D ; PVALID # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E ; DISALLOWED # CYRILLIC KAVYKA
A67F ; PVALID # CYRILLIC PAYEROK
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A689        ; PVALID     # CYRILLIC SMALL LETTER DZZE
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A68B        ; PVALID     # CYRILLIC SMALL LETTER TE WITH MIDDLE HOOK
A68C        ; DISALLOWED # CYRILLIC CAPITAL LETTER TWE
A68D        ; PVALID     # CYRILLIC SMALL LETTER TWE
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A69E..A69F  ; PVALID     # COMBINING CYRILLIC LETTER EF..BAMUM LETTER K
A69E..A69F  ; DISALLOWED # BAMUM LETTER MO..BAMUM LETTER KOGHOM
A6F0..A6F1  ; PVALID     # BAMUM COMBINING MARK KOQNDON..BAMUM COMBINING MARK KOQNDON
A6F2..A6F7  ; DISALLOWED # BAMUM NJAEMLI..BAMUM QUESTION MARK
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A717..A71F  ; PVALID     # MODIFIER LETTER DOT VERTICAL BAR..MODIFIER L
A720..A722  ; DISALLOWED # MODIFIER LETTER STRESS AND HIGH TONE..LATIN
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A724        ; DISALLOWED # LATIN CAPITAL LETTER EGYPTOLOGICAL AIN
A725        ; PVALID     # LATIN SMALL LETTER EGYPTOLOGICAL AIN
A726        ; DISALLOWED # LATIN CAPITAL LETTER HENG
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A729        ; PVALID     # LATIN SMALL LETTER TZ
A72A        ; DISALLOWED # LATIN CAPITAL LETTER TRESILLO
A72B        ; PVALID     # LATIN SMALL LETTER TRESILLO
A72C        ; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO
A72D        ; PVALID     # LATIN SMALL LETTER CUATRILLO
A72E        ; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO WITH COMMA
A72F..A731  ; PVALID     # LATIN SMALL LETTER CUATRILLO WITH COMMA..LAT
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A735  ; PVVALID # LATIN SMALL LETTER AO
A736  ; DISALLOWED # LATIN CAPITAL LETTER AU
A737  ; PVVALID # LATIN SMALL LETTER AU
A738  ; DISALLOWED # LATIN CAPITAL LETTER AV
A739  ; PVVALID # LATIN SMALL LETTER AV
A73A  ; DISALLOWED # LATIN CAPITAL LETTER AV WITH HORIZONTAL BAR
A73B  ; PVVALID # LATIN SMALL LETTER AV WITH HORIZONTAL BAR
A73C  ; DISALLOWED # LATIN CAPITAL LETTERAY
A73D  ; PVVALID # LATIN SMALL LETTERAY
A73E  ; DISALLOWED # LATIN CAPITAL LETTER REVERSED C WITH DOT
A73F  ; PVVALID # LATIN SMALL LETTER REVERSED C WITH DOT
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A742  ; DISALLOWED # LATIN CAPITAL LETTER K WITH DIAGONAL STROKE
A743  ; PVVALID # LATIN SMALL LETTER K WITH DIAGONAL STROKE
A744  ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE AND DIAGO
A745  ; PVVALID # LATIN SMALL LETTER K WITH STROKE AND DIAGONA
A746  ; DISALLOWED # LATIN CAPITAL LETTER BROKEN L
A747  ; PVVALID # LATIN SMALL LETTER BROKEN L
A748  ; DISALLOWED # LATIN CAPITAL LETTER L WITH HIGH STROKE
A749  ; PVVALID # LATIN SMALL LETTER L WITH HIGH STROKE
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A74B  ; PVVALID # LATIN SMALL LETTER O WITH LONG STROKE OVERLA
A74C  ; DISALLOWED # LATIN CAPITAL LETTER O WITH LOOP
A74D  ; PVVALID # LATIN SMALL LETTER O WITH LOOP
A74E  ; DISALLOWED # LATIN CAPITAL LETTER OO
A74F  ; PVVALID # LATIN SMALL LETTER OO
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A751  ; PVVALID # LATIN SMALL LETTER P WITH STROKE THROUGH DES
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A754  ; DISALLOWED # LATIN CAPITAL LETTER P WITH SQUIRREL TAIL
A755  ; PVVALID # LATIN SMALL LETTER P WITH SQUIRREL TAIL
A756  ; DISALLOWED # LATIN CAPITAL LETTER Q WITH STROKE THROUGH D
A757  ; PVVALID # LATIN SMALL LETTER Q WITH STROKE THROUGH DES
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A759  ; PVVALID # LATIN SMALL LETTER Q WITH DIAGONAL STROKE
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A75B  ; PVVALID # LATIN SMALL LETTER R ROTUNDA
A75C  ; DISALLOWED # LATIN CAPITAL LETTER RUM ROTUNDA
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A76D        ; PVALID    # LATIN SMALL LETTER IS
A76E        ; DISALLOWED # LATIN CAPITAL LETTER CON
A76F        ; PVALID    # LATIN SMALL LETTER CON
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A771..A778  ; PVALID    # LATIN SMALL LETTER DUM..LATIN SMALL LETTER U
A779        ; DISALLOWED # LATIN CAPITAL LETTER INSULAR D
A77A        ; PVALID    # LATIN SMALL LETTER INSULAR D
A77B        ; DISALLOWED # LATIN CAPITAL LETTER INSULAR F
A77C        ; PVALID    # LATIN SMALL LETTER INSULAR F
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A785        ; PVALID    # LATIN SMALL LETTER INSULAR S
A786        ; DISALLOWED # LATIN CAPITAL LETTER INSULAR T
A787..A788  ; PVALID    # LATIN SMALL LETTER INSULAR T..MODIFIER LETTER
A789..A78B  ; DISALLOWED # MODIFIER LETTER COLON..LATIN CAPITAL LETTER
A78C        ; PVALID    # LATIN SMALL LETTER SALTILLO
A78D        ; DISALLOWED # LATIN CAPITAL LETTER TURNED H
A78E..A78F  ; PVALID    # LATIN SMALL LETTER L WITH RETROFLEX HOOK AND
A790        ; DISALLOWED # LATIN CAPITAL LETTER N WITH DESCENDER
A791        ; PVALID    # LATIN SMALL LETTER N WITH DESCENDER
A792        ; DISALLOWED # LATIN CAPITAL LETTER C WITH BAR
A793..A795  ; PVALID    # LATIN SMALL LETTER C WITH BAR..LATIN SMALL L
A796        ; DISALLOWED # LATIN CAPITAL LETTER B WITH FLOURISH
A797        ; PVALID    # LATIN SMALL LETTER B WITH FLOURISH
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A79B        ; PVALID    # LATIN SMALL LETTER VOLAPUK AE
A79C        ; DISALLOWED # LATIN CAPITAL LETTER VOLAPUK OE
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A79E        ; DISALLOWED # LATIN CAPITAL LETTER VOLAPUK UE
A79F        ; PVALID    # LATIN SMALL LETTER VOLAPUK UE
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A7A1        ; PVALID    # LATIN SMALL LETTER G WITH OBLIQUE STROKE
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A7A5 ; PVALID  # LATIN SMALL LETTER N WITH OBLIQUE STROKE
A7A6 ; DISALLOWED # LATIN CAPITAL LETTER R WITH OBLIQUE STROKE
A7A7 ; PVALID  # LATIN SMALL LETTER R WITH OBLIQUE STROKE
A7A8 ; DISALLOWED # LATIN CAPITAL LETTER S WITH OBLIQUE STROKE
A7A9 ; PVALID  # LATIN SMALL LETTER S WITH OBLIQUE STROKE
A7AA..A7AE ; DISALLOWED # LATIN CAPITAL LETTER H WITH HOOK..LATIN CAPITAL Q
A7AF ; PVALID  # LATIN LETTER SMALL CAPITAL Q
A7B0..A7B4 ; DISALLOWED # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL TURNED R
A7B5 ; PVALID  # LATIN SMALL LETTER BETA
A7B6 ; DISALLOWED # LATIN CAPITAL LETTER OMEGA
A7B7 ; PVALID  # LATIN SMALL LETTER OMEGA
A7B8 ; DISALLOWED # LATIN CAPITAL LETTER U WITH STROKE
A7B9 ; PVALID  # LATIN SMALL LETTER U WITH STROKE
A7BA..A7F6 ; UNASSIGNED # <reserved>..<reserved>
A7F7 ; PVALID  # LATIN EPIGRAPHIC LETTER SIDEWAYS I
A7F8..A7F9 ; DISALLOWED # MODIFIER LETTER CAPITAL H WITH STROKE..MODIFIER LETTER CAPITAL H WITH STROKE
A7FA..A827 ; PVALID  # LATIN SMALL CAPITAL TURNED M..SYLOTI NAGRI POETRY MARK-1
A828..A82B ; DISALLOWED # SYLOTI NAGRI POETRY MARK-1..SYLOTI NAGRI POETRY MARK-5
A82C..A82F ; UNASSIGNED # <reserved>..<reserved>
A830..A839 ; DISALLOWED # NORTH INDIC FRACTION ONE QUARTER..NORTH INDIC FRACTION ONE QUARTER
A83A..A83F ; UNASSIGNED # <reserved>..<reserved>
A840..A873 ; PVALID  # PHAGS-PA LETTER KA..PHAGS-PA LETTER CANDRABI
A874..A877 ; DISALLOWED # PHAGS-PA SINGLE HEAD MARK..PHAGS-PA MARK DOU
A878..A87F ; UNASSIGNED # <reserved>..<reserved>
A880..A8C5 ; PVALID  # SAURASHTRA SIGN ANUSVARA..SAURASHTRA SIGN ANUSVARA
A8C6..A8CD ; UNASSIGNED # <reserved>..<reserved>
A8CE..A8CF ; DISALLOWED # SAURASHTRA DANDA..SAURASHTRA DOUBLE DANDA
A8D0..A8D9 ; PVALID  # SAURASHTRA DIGIT ZERO..SAURASHTRA DIGIT NINE
A8DA..A8DF ; UNASSIGNED # <reserved>..<reserved>
A8E0..A8F7 ; PVALID  # COMBINING DEVANAGARI DIGIT ZERO..DEVANAGARI DIGIT ZERO
A8F8..A8FA ; DISALLOWED # DEVANAGARI SIGN PUSHPIKA..DEVANAGARI SIGN PUSHPIKA
A8FB ; PVALID  # DEVANAGARI HEADSTROKE
A8FC ; DISALLOWED # DEVANAGARI SIGN SIDDHAM
A8FD..A92D ; PVALID  # DEVANAGARI JAIN OM..KAYAH LI TONE CALYA PLOP
A92E..A92F ; DISALLOWED # KAYAH LI SIGN CII..KAYAH LI SIGN SHYA
A930..A953 ; PVALID  # REJANG LETTER KA..REJANG VIRAMA
A954..A95E ; UNASSIGNED # <reserved>..<reserved>
A95F..A97C ; DISALLOWED # REJANG SECTION MARK..HANGUL CHEONG SSANGYE
A97D..A97F ; UNASSIGNED # <reserved>..<reserved>
A980..A990 ; PVALID  # JAVANESE SIGN PANYANGGA..JAVANESE SIGN PANYANGGA
A9C1..A9C9 ; DISALLOWED # JAVANESE LEFT REMNAGGAN..JAVANESE TURNED PAD
A9CE ; UNASSIGNED # <reserved>
A9CF..A9D9 ; PVALID  # JAVANESE PANGRANGKEP..JAVANESE DIGIT NINE
A9DA..A9DD ; UNASSIGNED # <reserved>..<reserved>
A9DE..A9DF ; DISALLOWED # JAVANESE PADA TIRTA TUMETES..JAVANESE PADA I
A9E0..A9FE ; PVALID  # MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI
A9FF ; UNASSIGNED  # <reserved>
AA00..AA36 ; PVALID  # CHAM LETTER A..CHAM CONSONANT SIGN WA
AA37..AA3F ; UNASSIGNED  # <reserved>..<reserved>
AA40..AA4D ; PVALID  # CHAM LETTER FINAL K..CHAM CONSONANT SIGN FIN
AA4E..AA4F ; UNASSIGNED  # <reserved>..<reserved>
AA50..AA59 ; PVALID  # CHAM DIGIT ZERO..CHAM DIGIT NINE
AA5A..AA5B ; UNASSIGNED  # <reserved>..<reserved>
AA5C..AA5F ; DISALLOWED  # CHAM PUNCTUATION SPIRAL..CHAM PUNCTUATION TR
AA60..AA76 ; PVALID  # MYANMAR LETTER KHAMTI GA..MYANMAR LOGOGRAM K
AA77..AA79 ; DISALLOWED  # MYANMAR SYMBOL AITON EXCLAMATION..MYANMAR SY
AA7A..AAC2 ; PVALID  # MYANMAR LETTER AITON RA..TAI VIET TONE MAI S
AAC3..AAD6 ; UNASSIGNED  # <reserved>..<reserved>
AAD8..ADD1 ; PVALID  # TAI VIET SYMBOL KON..TAI VIET SYMBOL SAM
AADD..AADF ; DISALLOWED  # TAI VIET SYMBOL HO HOI..TAI VIET SYMBOL KOI
AAE0..AAEF ; PVALID  # MEETEI MAYEK LETTER E..MEETEI MAYEK VOWEL SI
AAFE..AAFF ; DISALLOWED  # MEETEI MAYEK CHEIKHAN..MEETEI MAYEK AHANG KH
AABF..AABF ; PVALID  # MEETEI MAYEK ANJI..MEETEI MAYEK VIRAMA
AAB7..AB00 ; UNASSIGNED  # <reserved>..<reserved>
AB01..AB06 ; PVALID  # ETHIOPIAN SYLLABLE TTHU..ETHIOPIAN SYLLABLE TT
AB07..AB0B ; UNASSIGNED  # <reserved>..<reserved>
AB09..AB0E ; PVALID  # ETHIOPIAN SYLLABLE DDHU..ETHIOPIAN SYLLABLE DD
AB0F..AB10 ; UNASSIGNED  # <reserved>..<reserved>
AB11..AB16 ; PVALID  # ETHIOPIAN SYLLABLE DZU..ETHIOPIAN SYLLABLE DZO
AB17..AB1F ; UNASSIGNED  # <reserved>..<reserved>
AB20..AB26 ; PVALID  # ETHIOPIAN SYLLABLE CCHHA..ETHIOPIAN SYLLABLE C
AB27 ; UNASSIGNED  # <reserved>
AB28..AB2E ; PVALID  # ETHIOPIAN SYLLABLE BBA..ETHIOPIAN SYLLABLE BBO
AB2F ; UNASSIGNED  # <reserved>
AB30..AB5A ; PVALID  # LATIN SMALL LETTER BARRED ALPHA..LATIN SMALL
AB5B..AB5F ; DISALLOWED  # MODIFIER BREVE WITH INVERTED BREVE..MODIFIER
AB60..AB65 ; PVALID  # LATIN SMALL LETTER SAKHA YAT..GREEK LETTER S
AB66..AB6F ; UNASSIGNED  # <reserved>..<reserved>
AB70..ABBF ; DISALLOWED  # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT
ABCO..ABEA ; PVALID  # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL
ABEB ; DISALLOWED  # MEETEI MAYEK CHEIKHEI
ABEC..ABED ; PVALID  # MEETEI MAYEK LUM IYEK..MEETEI MAYEK APUN IYE
ABEE..ABEF ; UNASSIGNED  # <reserved>..<reserved>
ABFO..ABF9 ; PVALID  # MEETEI MAYEK DIGIT ZERO..MEETEI MAYEK DIGIT
ABFA..ABFF ; UNASSIGNED  # <reserved>..<reserved>
AC00..D7A3 ; PVALID  # <Hangul Syllable>..<Hangul Syllable>
D7A4..D7A7 ; UNASSIGNED  # <reserved>..<reserved>
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D7C7..D7CA ; UNASSIGNED  # <reserved>..<reserved>
D7CB..D7FB ; DISALLOWED  # HANGUL JONGSEONG NIEUN-RIEUL..HANGUL JONGSEO
D7FC..D7FF ; UNASSIGNED  # <reserved>..<reserved>
D800..FA0D ; DISALLOWED  # <Non Private Use High Surrogate>..CJK COMPAT
FA0E..FA0F ; PVALID  # CJK COMPATIBILITY IDEOGRAPH-FA0E..CJK COMPAT
FA10  ; DISALLOWED  # CJK COMPATIBILITY IDEOGRAPH-FA10
FA11  ; PVALID    # CJK COMPATIBILITY IDEOGRAPH-FA11
FA12  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA12
FA13..FA14  ; PVALID    # CJK COMPATIBILITY IDEOGRAPH-FA13..CJK COMPAT
FA15..FA1E  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA15..CJK COMPAT
FA1F  ; PVALID    # CJK COMPATIBILITY IDEOGRAPH-FA1F
FA20  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA20
FA21  ; PVALID    # CJK COMPATIBILITY IDEOGRAPH-FA21
FA22  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA22
FA23..FA24  ; PVALID    # CJK COMPATIBILITY IDEOGRAPH-FA23..CJK COMPAT
FA25..FA26  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA25..CJK COMPAT
FA27..FA29  ; PVALID    # CJK COMPATIBILITY IDEOGRAPH-FA27..CJK COMPAT
FA2A..FA6D  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA2A..CJK COMPAT
FA6E..FA6F  ; UNASSIGNED # <reserved>..<reserved>
FA70..FA79  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA70..CJK COMPAT
FADA..FADD  ; UNASSIGNED # <reserved>..<reserved>
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FB07..FB12  ; UNASSIGNED # <reserved>..<reserved>
FB13..FB17  ; DISALLOWED # ARMENIAN SMALL LIGATURE MEN NOW..ARMENIAN SM
FB18..FB1C  ; UNASSIGNED # <reserved>..<reserved>
FB1D  ; DISALLOWED # HEBREW LETTER YOD WITH HIRIQ
FB1E  ; PVALID    # HEBREW POINT JUDEO-SPANISH VARICA
FB1F..FB36  ; DISALLOWED # HEBREW LIGATURE YIDDISH YOD YOD PATAH..HEBRE
FB37  ; UNASSIGNED # <reserved>
FB38..FB3C  ; DISALLOWED # HEBREW LETTER TET WITH DAGESH..HEBREW LETTER
FB3D  ; UNASSIGNED # <reserved>
FB3E  ; DISALLOWED # HEBREW LETTER MEM WITH DAGESH
FB3F  ; UNASSIGNED # <reserved>
FB40..FB41  ; DISALLOWED # HEBREW LETTER NUN WITH DAGESH..HEBREW LETTER
FB42  ; UNASSIGNED # <reserved>
FB43..FB44  ; DISALLOWED # HEBREW LETTER FINAL PE WITH DAGESH..HEBREW L
FB45  ; UNASSIGNED # <reserved>
FB46..FBCE  ; DISALLOWED # HEBREW LETTER TSADI WITH DAGESH..ARABIC SYM
FBC2..FBCD  ; UNASSIGNED # <reserved>..<reserved>
FBD3..FDF8  ; DISALLOWED # ARABIC LETTER NG ISOLATED FORM..ORNATE RIGHT
FD40..FD4F  ; UNASSIGNED # <reserved>..<reserved>
FD50..FD8F  ; DISALLOWED # ARABIC LIGATURE TEH WITH JEEM WITH MEEM INIT
FD90..FD91  ; UNASSIGNED # <reserved>..<reserved>
FD92..FD97  ; DISALLOWED # ARABIC LIGATURE MEEM WITH JEEM WITH KHAH INI
FDCA..FDFF  ; UNASSIGNED # <reserved>..<reserved>
FDD0..FDD3  ; DISALLOWED # <noncharacter>..ARABIC LIGATURE BISMILLAH AR
FDFE..FDFF  ; UNASSIGNED # <reserved>..<reserved>
FE00..FE19  ; DISALLOWED # VARIATION SELECTOR-1..PRESENTATION FORM FOR
FE1A..FE1F  ; UNASSIGNED # <reserved>..<reserved>
FE20..FE2F  ; PVALID    # COMBINING LIGATURE LEFT HALF..COMBINING CYRI
FE30..FE52  ; DISALLOWED # PRESENTATION FORM FOR VERTICAL TWO DOT LEADE
FE53  ; UNASSIGNED # <reserved>
FE54..FE66  ; DISALLOWED # SMALL SEMICOLON..SMALL EQUALS SIGN
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101A0 ; DISALLOWED # GREEK SYMBOL TAU RHO
101A1..101CF; UNASSIGNED # <reserved>..<reserved>
101D0..101FC; DISALLOWED # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC
101FD ; PVALID # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE
101FE..1027F; UNASSIGNED # <reserved>..<reserved>
10280..1029C; PVALID # Lycian letter a..lycian letter x
1029D..1029F; UNASSIGNED # <reserved>..<reserved>
102A0..102D0; PVALID # carian letter a..carian letter uuu3
102D1..102DF; UNASSIGNED # <reserved>..<reserved>
102E0 ; PVALID # coptic ephact thousands mark
102E1..102FB; DISALLOWED # coptic ephact digit one..coptic ephact number
102FC..102FF; UNASSIGNED # <reserved>..<reserved>
10300..1031F; DISALLOWED # old italic letter a..old italic letter ess
10320..1032C; DISALLOWED # old italic numeral one..old italic numeral f
10324..1033C; UNASSIGNED # <reserved>..<reserved>
1033E..1034F; PVALID # old italic letter ye..gothic letter pairtha
10341 ; DISALLOWED # gothic letter ninety
10342..1034F; PVALID # gothic letter raida..gothic letter othal
10350..1039D; PVALID # old persian sign a..old persian sign ha
1039E ; UNASSIGNED # <reserved>
1039F ; DISALLOWED # ugaritic word divider
103A0..103C3; PVALID # old permic letter an..combining old permic l
103C4..103C7; UNASSIGNED # <reserved>..<reserved>
103C8..103CF; PVALID # old persian sign auramazdaa..old persian sig
103D0..103D5; DISALLOWED # old persian word divider..old persian number
103D6..103FF; UNASSIGNED # <reserved>..<reserved>
10400..10427; DISALLOWED # deseret capital letter long i..deseret capital
10428..1042F; PVALID # deseret small letter long i..osmanya letter
1049E..1049F; UNASSIGNED # <reserved>..<reserved>
104A0..10449; PVALID # osmanya digit zero..osmanya digit nine
104AA..104AF; UNASSIGNED # <reserved>..<reserved>
104B0..104D3; DISALLOWED # osage capital letter a..osage capital letter
104D4..104D7; UNASSIGNED # <reserved>..<reserved>
104DB..104FB; PVALID # osage small letter a..osage small letter zha
104FC..104FF; UNASSIGNED # <reserved>..<reserved>
10500..10527; PVALID # elbasan letter a..elbasan letter khe
10528..1055F; UNASSIGNED # <reserved>..<reserved>
10530..10563; PVALID # caucasian albanian letter alt..caucasian alb
10564..1056F; UNASSIGNED # <reserved>..<reserved>
1056F ; DISALLOWED # caucasian albanian citation mark
10570..1057F; UNASSIGNED # <reserved>..<reserved>
10580..1074F; PVALID # linear a sign ab001..linear a sign a732 je
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<td>1089F..108AF</td>
<td>DISALLOWED NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H</td>
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<td>108B0..108D6</td>
<td>UNASSIGNED</td>
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<tr>
<td>108E0..108F2</td>
<td>PVALID HATRAN LETTER ALEPH..HATRAN LETTER QOPH</td>
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<td>108F3</td>
<td>UNASSIGNED</td>
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<tr>
<td>108F4..108F5</td>
<td>PVALID HATRAN LETTER SHIN..HATRAN LETTER TAW</td>
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<td>108F6..108FA</td>
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<td>108FB..108FF</td>
<td>DISALLOWED HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED</td>
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<td>10900..10915</td>
<td>PVALID PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU</td>
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<td>10916..1091B</td>
<td>DISALLOWED PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR</td>
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<tr>
<td>1091C..1091E</td>
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<tr>
<td>1091F</td>
<td>DISALLOWED PHOENICIAN WORD SEPARATOR</td>
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<tr>
<td>10920..10939</td>
<td>PVALID LYDIAN LETTER A..LYDIAN LETTER C</td>
</tr>
<tr>
<td>1093A..1093E</td>
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<td>1093F</td>
<td>DISALLOWED LYDIAN TRIANGULAR MARK</td>
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<td>10940..1097F</td>
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<td>109BC..109BD</td>
<td>DISALLOWED MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M</td>
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<tr>
<td>109BE..109BF</td>
<td>PVALID MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS</td>
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<td>109D0..109D1</td>
<td>UNASSIGNED</td>
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<td>109D2..109DF</td>
<td>DISALLOWED MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI</td>
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<tr>
<td>10A00..10A03</td>
<td>PVALID KHAROSHTHI LETTER A..KHAROSHTHI VOWEL SIGN V</td>
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<td>UNASSIGNED</td>
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<td>10A05..10A06</td>
<td>PVALID KHAROSHTHI VOWEL SIGN E..KHAROSHTHI VOWEL SI</td>
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<td>10A07..10A0B</td>
<td>UNASSIGNED</td>
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<tr>
<td>10A0C..10A13</td>
<td>PVALID KHAROSHTHI VOWEL LENGTH MARK..KHAROSHTHI LET</td>
</tr>
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<td>10A14</td>
<td>UNASSIGNED</td>
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10A15..10A17; PVALID  # KHAROSTHI LETTER CA..KHAROSTHI LETTER JA
10A18; UNASSIGNED  # <reserved>
10A19..10A35; PVALID  # KHAROSTHI LETTER NYA..KHAROSTHI LETTER VHA
10A36..10A37; UNASSIGNED  # <reserved>..<reserved>
10A38..10A3A; PVALID  # KHAROSTHI SIGN BAR ABOVE..KHAROSTHI SIGN D
10A3B..10A3E; UNASSIGNED  # <reserved>..<reserved>
10A3F; PVALID  # KHAROSTHI VIRAMA
10A40..10A48; DISALLOWED  # KHAROSTHI DIGIT ONE..KHAROSTHI FRACTION ON
10A49..10A4F; UNASSIGNED  # <reserved>..<reserved>
10A50..10A58; DISALLOWED  # KHAROSTHI PUNCTUATION DOT..KHAROSTHI PUNCT
10A59..10A5F; UNASSIGNED  # <reserved>..<reserved>
10A60..10A7C; PVALID  # OLD SOUTH ARABIAN LETTER HE..OLD SOUTH ARABI
10A7D..10A7F; DISALLOWED  # OLD SOUTH ARABIAN NUMBER ONE..OLD SOUTH ARAB
10A80..10A9C; PVALID  # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10A9D..10A9F; DISALLOWED  # OLD NORTH ARABIAN NUMBER ONE..OLD NORTH ARAB
10AA0..10AABF; UNASSIGNED  # <reserved>..<reserved>
10AC0..10AC7; PVALID  # MANICHAEAN LETTER ALEPH..MANICHAEAN LETTER W
10AC8; DISALLOWED  # MANICHAEAN SIGN UD
10AC9..10AE6; PVALID  # MANICHAEAN LETTER ZAYIN..MANICHAEAN ABBREVI
10AE7..10A9EA; UNASSIGNED  # <reserved>..<reserved>
10AE8..10A9F; DISALLOWED  # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATIO
10A9F..10A9FF; UNASSIGNED  # <reserved>..<reserved>
10B00..10B35; PVALID  # AVESTAN LETTER A..AVESTAN LETTER HE
10B36..10B38; UNASSIGNED  # <reserved>..<reserved>
10B39..10B3F; DISALLOWED  # AVESTAN ABBREVIATION MARK..LARGE ONE RING OV
10B40..10B55; PVALID  # INSCRIPTIONAL PARTHIAN LETTER ALEPH..INSCRIPT
10B56..10B57; UNASSIGNED  # <reserved>..<reserved>
10B58..10B5F; DISALLOWED  # INSCRIPTIONAL PARTHIAN NUMBER ONE..INSCRIPTI
10B60..10B62; PVALID  # INSCRIPTIONAL PAHLAVI LETTER ALEPH..INSCRIPT
10B73..10B77; UNASSIGNED  # <reserved>..<reserved>
10B78..10B7F; DISALLOWED  # INSCRIPTIONAL PAHLAVI NUMBER ONE..INSCRIPTIO
10B80..10B81; PVALID  # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10B92..10B98; UNASSIGNED  # <reserved>..<reserved>
10B99..10B9C; DISALLOWED  # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10B9D..10B98; UNASSIGNED  # <reserved>..<reserved>
10BA9..10B9F; DISALLOWED  # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAVI
10BB0..10BFF; UNASSIGNED  # <reserved>..<reserved>
10CC0..10CC8; PVALID  # OLD TURKIC LETTER ORKHN A..OLD TURKIC LETTE
10CC9..10C7F; UNASSIGNED  # <reserved>..<reserved>
10C80..10C82; DISALLOWED  # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
10C83..10CBEF; UNASSIGNED  # <reserved>..<reserved>
10CC0..10CCF; PVALID  # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CF3..10CF9; UNASSIGNED  # <reserved>..<reserved>
10CFB..10CFF; DISALLOWED  # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMB
10D00..10D27; PVALID  # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D28..10D2F; UNASSIGNED  # <reserved>..<reserved>
10D30..10D39; PVALID  # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA
10D3A..10E5F; UNASSIGNED  # <reserved>..<reserved>
10E60..10E7E; DISALLOWED  # RUMI DIGIT ONE..RUMI FRACTION TWO THIRDS
10E7F..10EFF; UNASSIGNED  # <reserved>..<reserved>
10F00..10F1C; PVALID  # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LETTER
10F1D..10F26; DISALLOWED  # OLD SOGDIAN NUMBER ONE..OLD SOGDIAN FRACTION
10F27; PVVALID  # OLD SOGDIAN LIGATURE AYIN-DALETH
10F28..10F2F; UNASSIGNED  # <reserved>..<reserved>
10F30..10F59; DISALLOWED  # SOGDIAN LETTER ALEPH..SOGDIAN COMBINING STRO
10F5A..10F7E; UNASSIGNED  # <reserved>..<reserved>
11000..11046; PVALID  # BRAHMI SIGN CANDRABINDU..BRAHMI VIRAMA
11047..1104D; DISALLOWED  # BRAHMI DANDA..BRAHMI PUNCTUATION LOTUS
1104E..11051; UNASSIGNED  # <reserved>..<reserved>
11052..11065; DISALLOWED  # BRAHMI NUMBER ONE..BRAHMI NUMBER ONE THOUSAN
11066..1106F; PVALID  # BRAHMI DIGIT ZERO..BRAHMI DIGIT NINE
11070..1107E; UNASSIGNED  # <reserved>..<reserved>
1107F..110BA; PVALID  # BRAHMI NUMBER JOINER..KAITHI SIGN NUKTA
110BB..110C1; DISALLOWED  # KAITHI ABBREVIATION SIGN..KAITHI DOUBLE DAND
110C2..110CC; UNASSIGNED  # <reserved>..<reserved>
110CD; DISALLOWED  # KAITHI NUMBER SIGN ABOVE
110CE..110CF; UNASSIGNED  # <reserved>..<reserved>
110D0..110E8; PVALID  # SORA SOMPENG LETTER SAH..SORA SOMPENG LETTER
110E9..110EF; UNASSIGNED  # <reserved>..<reserved>
110F0..110F9; PVALID  # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT
110FA..110FF; UNASSIGNED  # <reserved>..<reserved>
11100..11134; PVALID  # CHAKMA SIGN CANDRABINDU..CHAKMA MAAYYAA
11135; UNASSIGNED  # <reserved>
11136..1113F; PVALID  # CHAKMA DIGIT ZERO..CHAKMA DIGIT NINE
11140..11143; DISALLOWED  # CHAKMA SECTION MARK..CHAKMA QUESTION MARK
11144..1114F; PVALID  # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
11147..1114F; UNASSIGNED  # <reserved>..<reserved>
11150..11173; PVALID  # MAHAJANI LETTER A..MAHAJANI SIGN NUKTA
11174..11175; DISALLOWED  # MAHAJANI ABBREVIATION SIGN..MAHAJANI SECTION
11176; PVALID  # MAHAJANI LIGATURE SHRI
11177..1117F; UNASSIGNED  # <reserved>..<reserved>
11180..111C4; PVALID  # SHARADA SIGN CANDRABINDU..SHARADA OM
111C5..111C8; DISALLOWED  # SHARADA DANDA..SHARADA SEPARATOR
111C9..111CC; PVALID  # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
111CD; DISALLOWED  # SHARADA SUTRA MARK
111CE..111CF; UNASSIGNED  # <reserved>..<reserved>
111D0..111DA; PVALID  # SHARADA DIGIT ZERO..SHARADA EKAM
111DB; DISALLOWED  # SHARADA SIGN SIDDHAM
111DC; PVVALID  # SHARADA HEADSTROKE
111DD..111DF; DISALLOWED  # SHARADA CONTINUATION SIGN..SHARADA SECTION M
111E0; UNASSIGNED  # <reserved>
111E1..111F4; DISALLOWED  # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
111F5..111FF; UNASSIGNED  # <reserved>..<reserved>
11200..11211; PVALID  # KOJKI LETTER A..KOJKI LETTER JJA
11212; UNASSIGNED  # <reserved>
11213..11237; PVALID  # KHOJKI LETTER NYA..KHOJKI SIGN SHADDA
11238..1123D; DISALLOWED  # KHOJKI DANDA..KHOJKI ABBREVIATION SIGN
1123E; PVALID  # KHOJKI SIGN SUKUN
1123F..1127F; UNASSIGNED  # <reserved>..<reserved>
11280..11286; PVALID  # MULTANI LETTER A..MULTANI LETTER GA
11287; UNASSIGNED  # <reserved>
11288; PVALID  # MULTANI LETTER GHA
11289; UNASSIGNED  # <reserved>
1128A..1128D; PVALID  # MULTANI LETTER CA..MULTANI LETTER JJA
1128E; UNASSIGNED  # <reserved>
1128F..1129D; PVALID  # MULTANI LETTER NYA..MULTANI LETTER BA
1129E; UNASSIGNED  # <reserved>
1129F..112A8; PVALID  # MULTANI LETTER BHA..MULTANI LETTER RHA
112A9; DISALLOWED  # MULTANI SECTION MARK
112AA..112AF; UNASSIGNED  # <reserved>..<reserved>
112B0..112EA; PVALID  # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
112EB..112EF; UNASSIGNED  # <reserved>..<reserved>
112F0..112F9; PVALID  # KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE
112FA..112FF; UNASSIGNED  # <reserved>..<reserved>
11300..11303; PVALID  # GRANTHA SIGN COMBINING ANUSVARA ABOVE..GRANT
11304; UNASSIGNED  # <reserved>
11305..1130C; PVALID  # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130D..1130E; UNASSIGNED  # <reserved>..<reserved>
1130F..11310; PVALID  # GRANTHA LETTER EE..GRANTHA LETTER AI
11311..11312; UNASSIGNED  # <reserved>..<reserved>
11313..11328; PVALID  # GRANTHA LETTER OO..GRANTHA LETTER NA
11329; UNASSIGNED  # <reserved>
1132A..11330; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11331; UNASSIGNED  # <reserved>
11332..11333; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LLA
11334; UNASSIGNED  # <reserved>
11335..11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
1133A; UNASSIGNED  # <reserved>
1133B..11344; PVALID  # COMBINING BINDU BELOW..GRANTHA VOWEL SIGN VO
11345..11346; UNASSIGNED  # <reserved>..<reserved>
11347..11348; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
11349..1134A; UNASSIGNED  # <reserved>..<reserved>
1134B..1134D; PVALID  # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
1134E..1134F; UNASSIGNED  # <reserved>..<reserved>
11350; PVALID  # GRANTHA OM
11351..11356; UNASSIGNED  # <reserved>..<reserved>
11357; PVALID  # GRANTHA AU LENGTH MARK
11358..1135C; UNASSIGNED  # <reserved>..<reserved>
1135D..11363; PVALID  # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11364..11365; UNASSIGNED  # <reserved>..<reserved>
11366..1136C; PVALID  # COMBINING GRANTHA DIGIT ZERO..COMBINING GRAN
1136D..1136F; UNASSIGNED  # <reserved>..<reserved>
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANT
11375..113FF; UNASSIGNED  # <reserved>..<reserved>
11400..1144A; PVALID  # NEWA LETTER A..NEWA SIDDHI
1144B..1144F; DISALLOWED  # NEWA DANDA..NEWA ABBREVIATION SIGN
11450..11459; PVALID  # NEWA DIGIT ZERO..NEWA DIGIT NINE
1145A  ; UNASSIGNED  # <reserved>
1145B  ; DISALLOWED  # NEWA PLACEHOLDER MARK
1145C  ; UNASSIGNED  # <reserved>
1145D  ; DISALLOWED  # NEWA INSERTION SIGN
1145E  ; PVALID  # NEWA SANDHI MARK
1145F..1147F; UNASSIGNED  # <reserved>..<reserved>
11480..114C5; PVALID  # TIRHUTA ANJI..TIRHUTA GVANG
114C6  ; DISALLOWED  # TIRHUTA ABBREVIATION SIGN
114C7  ; PVALID  # TIRHUTA OM
114C8..114CF; UNASSIGNED  # <reserved>..<reserved>
114D0..114D9; PVALID  # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
114DA..114D9F; UNASSIGNED  # <reserved>..<reserved>
11580..11585; PVALID  # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B6..115B7; UNASSIGNED  # <reserved>..<reserved>
115B8..115C0; PVALID  # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SIGN OM
115D8..115E0; PVALID  # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SIDDHAM SIGN NUKTA
11600..11640; PVALID  # MODI LETTER A..MODI SIGN ARDHACANDRA
11641..11643; DISALLOWED  # MODI DANDA..MODI ABBREVIATION SIGN
11644  ; PVALID  # MODI SIGN HUVA
11645..1164F; UNASSIGNED  # <reserved>..<reserved>
11650..11659; PVALID  # MODI DIGIT ZERO..MODI DIGIT NINE
1165A..1165F; UNASSIGNED  # <reserved>..<reserved>
11660..1166C; DISALLOWED  # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
1166D..1167F; UNASSIGNED  # <reserved>..<reserved>
11680..11697; PVALID  # TAKRI LETTER A..TAKRI SIGN NUKTA
116B8..116BF; UNASSIGNED  # <reserved>..<reserved>
116C0..116C9; PVALID  # TAKRI DIGIT ZERO..TAKRI DIGIT NINE
116CA..116FF; UNASSIGNED  # <reserved>..<reserved>
11700..1171A; PVALID  # AHOM LETTER KA..AHOM LETTER ALTERNATE BA
1171B..1171C; UNASSIGNED  # <reserved>..<reserved>
1171D..1172B; PVALID  # AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KIL
1172C..1172F; UNASSIGNED  # <reserved>..<reserved>
11730..11739; PVALID  # AHOM DIGIT ZERO..AHOM DIGIT NINE
1173A..1173F; DISALLOWED  # AHOM NUMBER TEN..AHOM SIGN KIL
11740..117FF; UNASSIGNED  # <reserved>..<reserved>
11800..1183A; PVALID  # DOGRA LETTER A..DOGRA SIGN NUKTA
1183B  ; DISALLOWED  # DOGRA ABBREVIATION SIGN
1183C..1189F; UNASSIGNED  # <reserved>..<reserved>
118A0..118BF; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI
118C0..118E9; PVALID  # WARANG CITI SMALL LETTER NGAA..WARANG CITI D
118EA..118F2; DISALLOWED  # WARANG CITI NUMBER TEN..WARANG CITI NUMBER N
118F3..118FE; UNASSIGNED  # <reserved>..<reserved>
118FF ; PVALID # WARANG CITI OM
11900..119FF; UNASSIGNED # <reserved>..<reserved>
11A00..11A3E; PVALID # ZANABAZAR SQUARE LETTER A..ZANABAZAR SQUARE
11A3F..11A46; DISALLOWED # ZANABAZAR SQUARE INITIAL HEAD MARK..ZANABAZA
11A47 ; PVALID # ZANABAZAR SQUARE SUBJOINER
11A48..11A4F; UNASSIGNED # <reserved>..<reserved>
11A50..11A83; PVALID # SOYOMBO LETTER A..SOYOMBO LETTER KSSA
11A84..11A85; UNASSIGNED # <reserved>..<reserved>
11A86..11A99; PVALID # SOYOMBO CLUSTER-INITIAL LETTER RA..SOYOMBO S
11A9A..11A9C; DISALLOWED # SOYOMBO MARK TSHEG..SOYOMBO MARK DOUBLE SHAD
11A9D ; PVALID # SOYOMBO MARK PLUTA
11A9E..11AA2; DISALLOWED # SOYOMBO HEAD MARK WITH MOON AND SUN AND TRIP
11AA3..11ABF; UNASSIGNED # <reserved>..<reserved>
11AC0..11AF8; PVALID # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
11AF9..11A8F; UNASSIGNED # <reserved>..<reserved>
11C00..11C08; PVALID # BHAIKUSUKI LETTER A..BHAIKUSUKI LETTER VOCALIC
11C09 ; UNASSIGNED # <reserved>
11C0A..11C36; PVALID # BHAIKUSUKI LETTER E..BHAIKUSUKI VOWEL SIGN VOC
11C37 ; UNASSIGNED # <reserved>
11C38..11C40; PVALID # BHAIKUSUKI VOWEL SIGN E..BHAIKUSUKI SIGN AVAGR
11C41..11C45; DISALLOWED # BHAIKUSUKI DANDA..BHAIKUSUKI GAP FILLER-2
11C46..11C4F; UNASSIGNED # <reserved>..<reserved>
11C50..11C59; PVALID # BHAIKUSUKI DIGIT ZERO..BHAIKUSUKI DIGIT NINE
11C5A..11C6C; DISALLOWED # BHAIKUSUKI NUMBER ONE..BHAIKUSUKI HUNDREDS UNI
11C6D..11C6F; UNASSIGNED # <reserved>..<reserved>
11C70..11C71; DISALLOWED # MARCHEN HEAD MARK..MARCHEN MARK SHAD
11C72..11C8F; PVALID # MARCHEN LETTER KA..MARCHEN LETTER A
11C90..11C91; UNASSIGNED # <reserved>..<reserved>
11C92..11CA7; PVALID # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
11CA8 ; UNASSIGNED # <reserved>
11CA9..11CB6; PVALID # MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA
11CB7..11CFF; UNASSIGNED # <reserved>..<reserved>
11D00..11D06; PVALID # MASARAM GONDI LETTER A..MASARAM GONDI LETTER
11D07 ; UNASSIGNED # <reserved>
11D08..11D09; PVALID # MASARAM GONDI LETTER AI..MASARAM GONDI LETTE
11D0A ; UNASSIGNED # <reserved>
11D0B..11D36; PVALID # MASARAM GONDI LETTER AU..MASARAM GONDI VOWEL
11D37..11D39; UNASSIGNED # <reserved>..<reserved>
11D3A ; PVALID # MASARAM GONDI VOWEL SIGN E
11D3B ; UNASSIGNED # <reserved>
11D3C..11D3D; PVALID # MASARAM GONDI VOWEL SIGN AI..MASARAM GONDI V
11D3E ; UNASSIGNED # <reserved>
11D3F..11D47; PVALID # MASARAM GONDI VOWEL SIGN AU..MASARAM GONDI R
11D48..11D4F; UNASSIGNED # <reserved>..<reserved>
11D50..11D59; PVALID # MASARAM GONDI DIGIT ZERO..MASARAM GONDI DIGI
11D5A..11D5F; UNASSIGNED # <reserved>..<reserved>
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D66 ; UNASSIGNED # <reserved>
11D67..11D68; PVALID # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
11D69; UNASSIGNED # <reserved>
11D6A..11D6E; PVALID # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D8F; UNASSIGNED # <reserved>
11D90..11D91; PVALID # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI VOWEL SIGN OO
11D92; UNASSIGNED # <reserved>
11D93..11D98; PVALID # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI VOWEL SIGN EE
11D99..11DA0; PVALID # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGIT NINE
11DA1..11DAE; PVALID # GUNJALA GONDI DIGIT TEN..GUNJALA GONDI DIGIT SIX
11DAF; UNASSIGNED # <reserved>
11DB0..11DBF; PVALID # MAKASAR LETTER KA..MAKASAR LETTER TEK
11DBA..11DDB; DISALLOWED # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11DE9..11DFF; PWVALID # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYPH A01F
11DF2..11DF7; DISALLOWED # <reserved>..<reserved>
12000..1200F; PVALID # CUNEIFORM SIGN A..CUNEIFORM SIGN U
12010..1201F; DISALLOWED # <reserved>..<reserved>
12020..1202F; DISALLOWED # <reserved>..<reserved>
12030..1203F; DISALLOWED # <reserved>..<reserved>
12040..1204F; DISALLOWED # <reserved>..<reserved>
12050..1205F; DISALLOWED # <reserved>..<reserved>
12060..1206F; DISALLOWED # <reserved>..<reserved>
12070..1207F; DISALLOWED # <reserved>..<reserved>
12080..1208F; DISALLOWED # <reserved>..<reserved>
12090..120AF; PVALID # MRO LETTER TA..MRO LETTER TEK
120B0..120B5; PVALID # MRO DIGIT ZERO..MRO DIGIT NINE
120B6..120BF; PVALID # MRO DANDA..MRO DOUBLE DANDA
120C0..120C5; PVALID # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
120C6..120CF; PVALID # BASSA VAH COMBINING HIGH TONE..BASSA VAH COMBINING MEDIUM TONE
120D0..120D5; PVALID # BASSA VAH COMBINING HIGH TONE..BASSA VAH COMBINING MEDIUM TONE
120D6..120DF; DISALLOWED # <reserved>..<reserved>
120E0..120EF; DISALLOWED # <reserved>..<reserved>
120F0..120FF; DISALLOWED # <reserved>..<reserved>
12100..12105; PVALID # PAHAWH HMONG VOWEL KEKB..PAHAWH HMONG MARK C
12106..1210B; DISALLOWED # <reserved>..<reserved>
1210C..12117; DISALLOWED # <reserved>..<reserved>
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16E40..16E5F; DISALLOWED # MEDEFAIDRIN SMALL LETTER M..MEDEFAIDRIN SMAL
16E60..16E7F; PVALID # MEDEFAIDRIN DIGIT ZERO..MEDEFAIDRIN EXCLAMAT
16E80..16E9A; DISALLOWED # <reserved>..<reserved>
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16F00..16F44; PVALID # MIAO LETTER PA..MIAO LETTER HHA
16F45..16F4F; UNASSIGNED # <reserved>..<reserved>
16F50..16F8F; UNASSIGNED # MIAO LETTER NASALIZATION..MIAO VOWEL SIGN NG
16F8F..16F9F; PVALID # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
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187F2..187FF; UNASSIGNED # <reserved>..<reserved>
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18AF3..1AFFF; UNASSIGNED # <reserved>..<reserved>
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1BC6B..1BC6F; UNASSIGNED # <reserved>..<reserved>
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1BC9F..1BCA3; DISALLOWED # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..SHOR
1BCA4..1CBFF; UNASSIGNED # <reserved>..<reserved>
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1D0F6..1D0FF; UNASSIGNED # <reserved>..<reserved>
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1D127..1D128; UNASSIGNED # <reserved>..<reserved>
1D129..1D1E8; DISALLOWED # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICA
1D1E9..1D1FF; UNASSIGNED # <reserved>..<reserved>
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1D357..1D35F; UNASSIGNED # <reserved>..<reserved>
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1DA00..1DA36; PVALID  # SIGNWRING HEAD RIM..SIGNWRING AIR SUCKIN
1DA37..1DA3A; DISALLOWED  # SIGNWRING AIR BLOW SMALL ROTATIONS..SIGNWR
1DA3B..1DA6C; PVALID  # SIGNWRING MOUTH CLOSED NEUTRAL..SIGNWRING
1DA6D..1DA74; DISALLOWED  # SIGNWRING SHOULDER HIP SPINE..SIGNWRING
1DA75 ; PVALID  # SIGNWRING UPPER BODY TILTING FROM HIP JOIN
1DA76..1DA83; DISALLOWED  # SIGNWRING LIMB COMBINATION..SIGNWRING LO
1EE3C..1EE41; UNASSIGNED # <reserved>..<reserved>
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1F02C..1F02F; UNASSIGNED  # <reserved>..<reserved>
1F030..1F093; DISALLOWED  # DOMINO TILE HORIZONTAL BACK..DOMINO TILE VER
1F094..1F09F; UNASSIGNED  # <reserved>..<reserved>
1F0A0..1F0AF; DISALLOWED  # PLAYING CARD BACK..PLAYING CARD KING OF SPADE
1F0AF..1F0BF; UNASSIGNED  # <reserved>..<reserved>
1F0B1..1F0BF; DISALLOWED  # PLAYING CARD ACE OF HEARTS..PLAYING CARD RED
1F0C0 ; UNASSIGNED  # <reserved>
1F0C1..1F0CF; DISALLOWED  # PLAYING CARD ACE OF DIAMONDS..PLAYING CARD B
1F0D0 ; UNASSIGNED  # <reserved>
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1F0F6..1F0FF; UNASSIGNED  # <reserved>..<reserved>
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1F10D..1F10F; UNASSIGNED  # <reserved>..<reserved>
1F110..1F16B; DISALLOWED  # PARENTHESES LALKEN CAPITAL LETTER A..RAISED
1F16C..1F16F; UNASSIGNED  # <reserved>..<reserved>
1F170..1F1AC; DISALLOWED  # NEGATIVE SQUARE LATIN CAPITAL LETTER A..SQUAR
1F1AD..1F1E5; UNASSIGNED  # <reserved>..<reserved>
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1F210..1F23B; DISALLOWED  # SQUARED CJK UNIFIED IDEOGRAPH-624B..SQUARED
1F23C..1F23F; UNASSIGNED  # <reserved>..<reserved>
1F240..1F248; DISALLOWED  # TORTOISE SHELL BRACKETED CJK UNIFIED IDEOGRAPH
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1F252..1F25F; UNASSIGNED  # <reserved>..<reserved>
1F260..1F265; DISALLOWED  # ROUNDED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F266..1F2FF; UNASSIGNED  # <reserved>..<reserved>
1F300..1F6D4; DISALLOWED  # CYCLONE..PAGODA
1F6D5..1F6DF; UNASSIGNED  # <reserved>..<reserved>
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1F6ED..1F6EF; UNASSIGNED  # <reserved>..<reserved>
1F6F0..1F6F9; DISALLOWED  # SATELLITE..SKATEBOARD
1F6FA..1F6FF; UNASSIGNED  # <reserved>..<reserved>
1F700..1F773; DISALLOWED  # ALCHEMICAL SYMBOL FOR QUINTESSENCE..ALCHEMIC
1F774..1F77F; UNASSIGNED  # <reserved>..<reserved>
1F780..1F7D8; DISALLOWED  # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F7D9..1F7FF; UNASSIGNED  # <reserved>..<reserved>
1F800..1F80B; DISALLOWED  # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEAD
1F80C..1F80F; UNASSIGNED  # <reserved>..<reserved>
1F810..1F847; DISALLOWED  # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F848..1F84F; UNASSIGNED  # <reserved>..<reserved>
1F850..1F859; DISALLOWED  # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SERIF
1F85A..1F85F; UNASSIGNED  # <reserved>..<reserved>
1F860..1F887; DISALLOWED  # WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE
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BFFFE..BFFFF; DISALLOWED  # <noncharacter>..<noncharacter>
C0000..CFFFD; UNASSIGNED  # <reserved>..<reserved>
CFFFE..CFFFF; DISALLOWED  # <noncharacter>..<noncharacter>
D0000..DFFFD; UNASSIGNED  # <reserved>..<reserved>
DFFFE..DFFFF; DISALLOWED  # <noncharacter>..<noncharacter>
E0000 ; UNASSIGNED  # <reserved>
E0001 ; DISALLOWED  # LANGUAGE TAG
E0002..E001F; UNASSIGNED  # <reserved>..<reserved>
E0020..E007F; DISALLOWED  # TAG SPACE..CANCEL TAG
E0080..E00FF; UNASSIGNED  # <reserved>..<reserved>
E0100..E01EF; DISALLOWED  # VARIATION SELECTOR-17..VARIATION SELECTOR-25
E01F0..EFFFD; UNASSIGNED  # <reserved>..<reserved>
EFFFE..10FFFF; DISALLOWED  # <noncharacter>..<noncharacter>

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