IDNA2008 and Unicode 11.0.0
draft-faltstrom-unicode11-07

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 [RFC2119] RFC8174 [RFC8174] 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.
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 DISSALOWED. 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:

- 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.

- 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.

- 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.

- 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.

- 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, 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+0064) 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
0C81        ; PVALID    # TELUGU SIGN COMBINING CANDRABINDU ABOVE
0D01        ; PVALID    # MALAYALAM SIGN CANDRABINDU
0DE6..0DEF  ; PVALID    # SINHALA LITH DIGIT ZERO..SINHALA LITH DIGIT
16F1..16F8  ; PVALID    # RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A
191D..191E  ; PVALID    # LIMBU LETTER GYAN..LIMBU LETTER TRA
1AB0..1ABE  ; PVALID    # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
1CF8..1CF9  ; PVALID    # VEDIC TONE RING ABOVE..VEDIC TONE DOUBLE RIN
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
2B98..2BB9  ; DISALLOWED # VEDIC TONE RING ABOVE..VEDIC TONE DOUBLE RIN
2BD1..2BC8  ; DISALLOWED # BLACK MEDIUM RIGHT-POINTING ZIGZAG ARROW..BLACK C
2E3C..2E42  ; DISALLOWED # STENOGRAPHIC FULL STOP..DOUBLE LOW-REVERSED-
A969..A9DF  ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE O..MODIFIER L
A794..A79F  ; PVALID    # LATIN SMALL LETTER C WITH PALATAL HOOK..LATI
A7AB..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
AB64..AB65  ; PVALID    # LATIN SMALL LETTER INVERTED ALPHA..GREEK LET
FE27..FE2D  ; PVALID    # COMBINING LIGATURE LEFT HALF BELOW..COMBININ
1018A..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..10767; PVALID # LINEAR A SIGN A800..LINEAR A SIGN A807
10860..1089E; 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 ABBREVI
10AF7..10AFF; DISALLOWED # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATIO
1107F; PVALID # BRAHMI NUMBER JOINER
11150..11176; PVALID # MAHAJANI LETTER A..MAHAJANI LIGATURE SHRI
111CD; DISALLOWED # SHARADA SUTRA MARK
111DA; PVALID # SHARADA EKAM
111E1..111F4; DISALLOWED # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
11200..11211; PVALID # KOJIKI LETTER A..KOJIKI LETTER JJA
11213..1123D; PVALID # KOJIKI LETTER N YA..KOJIKI ABBREVIATION SIGN
112B0..112E9; PVALID # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
112F0..112F9; PVALID # KHUDAWADI DIGIT ZERO..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..11328; PVALID # GRANTHA LETTER OO..GRANTHA LETTER NA
1132A..11330; PVALID # GRANTHA LETTER PA..GRANTHA LETTER RA
11332..11333; PVALID # GRANTHA LETTER LA..GRANTHA LETTER LLA
11335..11339; PVALID # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..11344; PVALID # GRANTHA SIGN NUKTA..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 VOWEL SIGN VOCAL
11366..1136C; PVALID # COMBINING GRANTHA DIGIT ZERO..COMBINING GRAN
11370..11374; PVALID # COMBINING GRANTHA LETTER A..COMBINING GRANTH
11480..114C7; PVALID # TIRHUTA ANJI..TIRHUTA OM
114D0..114D9; PVALID # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
11580..115B5; PVALID # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B8..115C9; PVALID # SIDDHAM VOWEL SIGN E..SIDDHAM END OF TEXT MA
11600..11644; PVALID # MIDI LETTER A..MIDI SIGN HUVA
11650..11659; PVALID # MIDI DIGIT ZERO..MIDI DIGIT NINE
118A0..118F2; DISALLOWED # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI
118FF; PVALID # WARANG CITI OM
11AC0..11AF8; PVALID # PAU CIN HAU LETTER PA..PAU CIN HAU GOTTAL 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 # GUJARI 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 # CHEROKEE 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 HUNDRED
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..10C82; 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
111C9..111CC; DISALLOWED # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
111DB..111DF; DISALLOWED # SHARADA SIGN SIDDHAM..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
1128F..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
115CA..115DD; 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
1DAA1..1DAAF; PVALID # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING
1F32D..1F32F; DISALLOWED # HOT DOG..BURRITO
1F37E..1F37F; DISALLOWED # BOTTLE WITH POPPING CORK..POPCORN
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 # KOJKI 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 # BHAIKUSUKI LETTER A..BHAIKUSUKI LETTER VOCALIC
11C0A..11C36; PVALID # BHAIKUSUKI LETTER E..BHAIKUSUKI VOWEL SIGN VOC
11C38..11C45; PVALID # BHAIKUSUKI VOWEL SIGN E..BHAIKUSUKI GAP FILLER
11C50..11C6C; PVALID # BHAIKUSUKI DIGIT ZERO..BHAIKUSUKI HUNDRDS 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.
0560 ; PVALID # ARMENIAN SMALL LETTER TURNED AYB
0588 ; PVALID # ARMENIAN SMALL LETTER YI WITH STROKE
05EF ; PVALID # HEBREW YOD TRIANGLE
07FD..07FF ; PVALID # NKO DANTAYALAN..NKO TAMAN SIGN
08D3 ; PVALID # ARABIC SMALL LOW WAW
09FE ; PVALID # BENGALI SANDHI MARK
0A76 ; DISALLOWED # GURMUKHI ABBREVIATION SIGN
0C04 ; PVALID # TELUGU SIGN COMBINING ANUSVARA ABOVE
0C84 ; DISALLOWED # KANNADA SIGN SIDDHAM
1878 ; PVALID # MONGOLIAN LETTER CHA WITH TWO DOTS
1C90..1CBA ; DISALLOWED # GEORGIAN MタルVULI CAPITAL LETTER AN..GEORGIAN MタルVULI CAPITAL LETTER AEN..GEORGIAN MタルVULI CAPITAL LETTER AE..GEORGIAN MタルVULI CAPITAL LETTER AE
2BDA..2BE8 ; PVALID # PLUTO FORM TWO..STAR WITH RIGHT HALF BLACK
2BF0..2BFE ; PVALID # ERIS FORM ONE..REVERSED RIGHT ANGLE
312F ; PVALID # BOPOMOFO LETTER NN
9FEB..9FEF ; PVALID # <CJK Ideograph>..<CJK Ideograph>
A7AF ; PVALID # LATIN LETTER SMALL CAPITAL Q
A7B8..A7B9 ; DISALLOWED # LATIN CAPITAL LETTER U WITH STROKE..LATIN SM
A8F6..A8FF ; PVALID # DEVANAGARI LETTER AY..DEVANAGARI VOWEL SIGN
10A34..10A35; PVALID # KHArushti LETTER TTA..KHArushti LETTER VH
10A48 ; DISALLOWED # KHArushti FRACTION ONE HALF
10D00..10D27; PVALID # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D30..10D39; PVALID # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA
10F00..10F27; PVALID # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LIGATU
10F30..10F59; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN PUNCTUATION HA
110CD ; DISALLOWED # KAITHI NUMBER SIGN ABOVE
11144..11146; PVALID # CHAKMA LETTER LHAA..CHARMA VOWEL SIGN EI
1133B ; PVALID # COMBINING BINDU BELOW
1145E ; PVALID # NEWA SANDHI MARK
1171A ; PVALID # AHOM LETTER ALTERNATE BA
11800..1183B; PVALID # DOGRA LETTER A..DOGRA ABBREVIATION SIGN
1199D ; PVALID # SOYOMO MARK PLUTA
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D67..11D68; PVALID # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
11D6A..11D8E; PVALID # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D90..11D91; PVALID # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI V
11D93..11D98; PVALID # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI O
11DA0..11DA9; PVALID # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGI
11EE0..11EF8; PVALID # MAKASAR LETTER KA..MAKASAR END OF SECTION
16E40..16E9A; DISALLOWED # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN EX
187ED..187F1; PVALID # <Tangut Ideograph>..<Tangut Ideograph>
1D2E0..1D2F3; DISALLOWED # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D372..1D378; DISALLOWED # IDEOGRAPHIC TALLY MARK ONE..TALLY MARK FIVE
1EC71..1ECB4; DISALLOWED # INDIC SIYAQ NUMBER ONE..INDIC SIYAQ ALTERNAT
1F12F ; DISALLOWED # COPYLEFT SYMBOL
1F6F9 ; DISALLOWED # SKATEBOARD

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Appendix F. Code points in Unicode Character Database (UCD) format for Unicode 11.0.0

<table>
<thead>
<tr>
<th>Code Points</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U+0000 - U+002C</td>
<td>DISALLOWED</td>
<td>&lt;control&gt;..COMMA</td>
</tr>
<tr>
<td>U+002D</td>
<td>PVALID</td>
<td>HYPHEN-MINUS</td>
</tr>
<tr>
<td>U+002E - U+002F</td>
<td>DISALLOWED</td>
<td>FULL STOP..SOLIDUS</td>
</tr>
<tr>
<td>U+0030 - U+0039</td>
<td>PVALID</td>
<td>DIGIT ZERO..DIGIT NINE</td>
</tr>
<tr>
<td>U+003A - U+0040</td>
<td>DISALLOWED</td>
<td>COLON..GRAVE ACCENT</td>
</tr>
<tr>
<td>U+0061 - U+0066</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER A..LATIN SMALL LETTER Z</td>
</tr>
<tr>
<td>U+007B - U+007F</td>
<td>DISALLOWED</td>
<td>LEFT CURLY BRACKET..PILCROW SIGN</td>
</tr>
<tr>
<td>U+00B7</td>
<td>CONTEXTO</td>
<td>MIDDLE DOT</td>
</tr>
<tr>
<td>U+00B8 - U+00C2</td>
<td>DISALLOWED</td>
<td>CEDILLA..LATIN CAPITAL LETTER THORN</td>
</tr>
<tr>
<td>U+00DF - U+00FF</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER O WITH STROKE..LATIN SMALL O</td>
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<tr>
<td>U+0100 - U+010F</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER A WITH MACRON</td>
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<td>U+0110 - U+011F</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER A WITH MACRON</td>
</tr>
<tr>
<td>U+0120 - U+012F</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER A WITH BREVE</td>
</tr>
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<td>PVALID</td>
<td>LATIN SMALL LETTER A WITH BREVE</td>
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<td>LATIN CAPITAL LETTER A WITH OGONEK</td>
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<td>LATIN SMALL LETTER A WITH OGONEK</td>
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<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER C WITH ACUTE</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER C WITH ACUTE</td>
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<td>U+0180 - U+018F</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER C WITH CIRCUMFLEX</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER C WITH CIRCUMFLEX</td>
</tr>
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<td>U+01A0 - U+01B0</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER C WITH DOT ABOVE</td>
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<tr>
<td>U+01B0 - U+01C0</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER C WITH DOT ABOVE</td>
</tr>
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<td>LATIN CAPITAL LETTER C WITH CARON</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER C WITH CARON</td>
</tr>
<tr>
<td>U+01E0 - U+01F0</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER D WITH CARON</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER D WITH CARON</td>
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<td>U+0200 - U+020F</td>
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<td>U+0240 - U+025F</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER E WITH BREVE</td>
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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 ; PVALID # LATIN SMALL LETTER O WITH MACRON
014E ; DISALLOWED # LATIN CAPITAL LETTER O WITH BREVE
014F ; PVALID # LATIN SMALL LETTER O WITH BREVE
0150 ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
0151 ; PVALID # LATIN SMALL LETTER O WITH DOUBLE ACUTE
0152 ; DISALLOWED # LATIN CAPITAL LIGATURE OE
0153 ; PVALID # LATIN SMALL LIGATURE OE
0154 ; DISALLOWED # LATIN CAPITAL LETTER R WITH ACUTE
0155 ; PVALID # LATIN SMALL LETTER R WITH ACUTE
0156 ; DISALLOWED # LATIN CAPITAL LETTER R WITH CEDILLA
0157 ; PVALID # LATIN SMALL LETTER R WITH CEDILLA
0158 ; DISALLOWED # LATIN CAPITAL LETTER R WITH CARON
0159 ; PVALID # LATIN SMALL LETTER R WITH CARON
015A ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE
015B ; PVALID # LATIN SMALL LETTER S WITH ACUTE
015C ; DISALLOWED # LATIN CAPITAL LETTER S WITH CIRCUMFLEX
015D ; PVALID # LATIN SMALL LETTER S WITH CIRCUMFLEX
015E ; DISALLOWED # LATIN CAPITAL LETTER S WITH CEDILLA
015F ; PVALID # LATIN SMALL LETTER S WITH CEDILLA
0160 ; DISALLOWED # LATIN CAPITAL LETTER S WITH CARON
0161 ; PVALID # LATIN SMALL LETTER S WITH CARON
0162 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CEDILLA
0163 ; PVALID # LATIN SMALL LETTER T WITH CEDILLA
0164 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CARON
0165 ; PVALID # LATIN SMALL LETTER T WITH CARON
0166 ; DISALLOWED # LATIN CAPITAL LETTER T WITH STROKE
0167 ; PVALID # LATIN SMALL LETTER T WITH STROKE
0168 ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE
0169 ; PVALID # LATIN SMALL LETTER U WITH TILDE
016A ; DISALLOWED # LATIN CAPITAL LETTER U WITH MACRON
016B ; PVALID # LATIN SMALL LETTER U WITH MACRON
016C ; DISALLOWED # LATIN CAPITAL LETTER U WITH BREVE
016D ; PVALID # LATIN SMALL LETTER U WITH BREVE
016E ; DISALLOWED # LATIN CAPITAL LETTER U WITH RING ABOVE
016F ; PVALID # LATIN SMALL LETTER U WITH RING ABOVE
0170 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
0171 ; PVALID # LATIN SMALL LETTER U WITH DOUBLE ACUTE
0172 ; DISALLOWED # LATIN CAPITAL LETTER U WITH OGONEK
0173 ; PVALID # LATIN SMALL LETTER U WITH OGONEK
0174 ; DISALLOWED # LATIN CAPITAL LETTER W WITH CIRCUMFLEX
0175 ; PVALID # LATIN SMALL LETTER W WITH CIRCUMFLEX
0176 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
0177 ; PVALID # LATIN SMALL LETTER Y WITH CIRCUMFLEX
0178..0179 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DIAERESIS..LATIN
017A ; PVALID # LATIN SMALL LETTER Z WITH ACUTE
017B ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DOT ABOVE
017C ; PVALID # LATIN SMALL LETTER Z WITH DOT ABOVE
017D        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CARON
017E        ; PVALID      # LATIN SMALL LETTER Z WITH CARON
017F        ; DISALLOWED  # LATIN SMALL LETTER LONG S
0180        ; PVALID      # LATIN SMALL LETTER B WITH STROKE
0181..0182  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH HOOK..LATIN CAPI
0183        ; PVALID      # LATIN SMALL LETTER B WITH TOPBAR
0184        ; DISALLOWED  # LATIN CAPITAL LETTER TONE SIX
0185        ; PVALID      # LATIN SMALL LETTER TONE SIX
0186..0187  ; DISALLOWED  # LATIN CAPITAL LETTER OPEN O..LATIN CAPITAL L
0188        ; PVALID      # LATIN SMALL LETTER C WITH HOOK
0189..018B  ; DISALLOWED  # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL T
018C..018D  ; PVALID      # LATIN SMALL LETTER D WITH TOPBAR..LATIN SMALL
018E..0191  ; DISALLOWED  # LATIN CAPITAL LETTER REVERSED E..LATIN CAPITAL T
0192        ; PVALID      # LATIN SMALL LETTER F WITH HOOK
0193..0194  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPITAL I
0195        ; PVALID      # LATIN SMALL LETTER HV
0196..0198  ; DISALLOWED  # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LET
0199..019B  ; PVALID      # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL
019C..019D  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL L
019E        ; PVALID      # LATIN SMALL LETTER N WITH LONG RIGHT LEG
019F..01A0  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MIDDLE TILDE..LAT
01A1        ; PVALID      # LATIN SMALL LETTER O WITH HORN
01A2        ; DISALLOWED  # LATIN CAPITAL LETTER OI
01A3        ; PVALID      # LATIN SMALL LETTER OI
01A4        ; DISALLOWED  # LATIN CAPITAL LETTER P WITH HOOK
01A5        ; PVALID      # LATIN SMALL LETTER P WITH HOOK
01A6..01A7  ; DISALLOWED  # LATIN LETTER YR..LATIN CAPITAL LETTER TONE T
01A8        ; PVALID      # LATIN SMALL LETTER TONE TWO
01A9        ; DISALLOWED  # LATIN CAPITAL LETTER ESH
01AA..01AB  ; PVALID      # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL
01AC        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH HOOK
01AD        ; PVALID      # LATIN SMALL LETTER T WITH HOOK
01AE..01AF  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH RETROFLEX HOOK..
01B0        ; PVALID      # LATIN SMALL LETTER U WITH HORN
01B1..01B3  ; DISALLOWED  # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL L
01B4        ; PVALID      # LATIN SMALL LETTER Y WITH HOOK
01B5        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH STROKE
01B6        ; PVALID      # LATIN SMALL LETTER Z WITH STROKE
01B7..01B8  ; DISALLOWED  # LATIN CAPITAL LETTER EZH..LATIN CAPITAL LET
01B9..01BB  ; PVALID      # LATIN SMALL LETTER EZH REVERSED..LATIN LETTER E
01BC        ; DISALLOWED  # LATIN CAPITAL LETTER TONE FIVE
01BD..01C3  ; PVALID      # LATIN SMALL LETTER TONE FIVE..LATIN LETTER R
01C4..01CD  ; DISALLOWED  # LATIN CAPITAL LETTER DZ WITH CARON..LATIN C
01CE        ; PVALID      # LATIN SMALL LETTER A WITH CARON
01CF        ; DISALLOWED  # LATIN CAPITAL LETTER I WITH CARON
01D0        ; PVALID      # LATIN SMALL LETTER I WITH CARON
01D1        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CARON
01D2        ; PVALID      # LATIN SMALL LETTER O WITH CARON
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 LETTER DZ
01F1..01F4  ; DISALLOWED  # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTER EZ
01F5        ; PVALID      # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  ; DISALLOWED  # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LETTER DZ
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

Faltstrom                 Expires July 11, 2019                [Page 24]
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
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0219 ; PVALID # LATIN SMALL LETTER S WITH COMMA BELOW
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021D ; PVALID # LATIN SMALL LETTER S WITH COMMA BELOW
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 MACR
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 MACR
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 SMALL LETTER Y WITH MACRON
023A..023B ; DISALLOWED # LATIN CAPITAL LETTER A WITH STROKE..LATIN CAPITAL LETTER A WITH STROKE
023C ; PVALID # LATIN SMALL LETTER C WITH STROKE
023D..023E ; DISALLOWED # LATIN CAPITAL LETTER L WITH BAR..LATIN CAPITAL LETTER L WITH BAR
023F..0240 ; PVALID # LATIN SMALL LETTER S WITH SWASH TAIL..LATIN SMALL LETTER S WITH SWASH TAIL
0241 ; DISALLOWED # LATIN CAPITAL LETTER GLOTTAL STOP
0242 ; PVALID # LATIN SMALL LETTER GLOTTAL STOP
0243..0246  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH STROKE..LATIN CA
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0248      ; DISALLOWED  # LATIN CAPITAL LETTER J WITH STROKE
0249      ; PVALID      # LATIN SMALL LETTER J WITH STROKE
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024E      ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH STROKE
024F..02AF  ; PVALID      # LATIN SMALL LETTER Y WITH STROKE..LATIN SMAL
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02C2..02C5  ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LET
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02D2..02EB  ; DISALLOWED  # MODIFIER LETTER CENTRED RIGHT HALF RING..MOD
02EC      ; PVALID      # MODIFIER LETTER VOICING
02ED      ; DISALLOWED  # MODIFIER LETTER UNASPIRATED
02EE      ; PVALID      # MODIFIER LETTER DOUBLE APOSTROPHE
02EF..02FF  ; DISALLOWED  # MODIFIER LETTER LOW DOWN ARROWHEAD..MODIFIER
0300..033F  ; PVALID      # COMBINING GRAVE ACCENT..COMBINING DOUBLE OVE
0340..0345  ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING ACUTE T
0346..034E  ; PVALID      # COMBINING BRIDGE ABOVE..COMBINING UPWARDS AR
034F      ; DISALLOWED  # COMBINING GRAPHEME JOINER
0350..036F  ; PVALID      # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING L
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0371      ; PVALID      # GREEK SMALL LETTER HETA
0372      ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI
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0375      ; CONTEXTO    # GREEK LOWER NUMERAL SIGN
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037B..037D  ; PVALID      # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GR
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0391..03A1  ; DISALLOWED  # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LE
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0483..0487  ; PVALID      # COMBINING CYRILLIC TITLO..COMBINING CYRILLIC
0488..048A  ; DISALLOWED # COMBINING CYRILLIC HUNDRED THOUSANDS SIGN..C
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048C        ; DISALLOWED # CYRILLIC CAPITAL LETTER SEMISOFT SIGN
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049D        ; PVALID      # CYRILLIC SMALL LETTER KA WITH VERTICAL STROK
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0A37 ; UNASSIGNED # <reserved>
0A38..0A39 ; PVALID # GURMUKHI LETTER SA..GURMUKHI LETTER HA
0A3A..0A3B ; UNASSIGNED # <reserved>..<reserved>
0A3C ; PVALID # GURMUKHI SIGN NUKTA
0A3D ; UNASSIGNED # <reserved>
0A3E..0A42 ; PVALID # GURMUKHI VOWEL SIGN AA..GURMUKHI VOWEL SIGN
0A43..0A46 ; UNASSIGNED # <reserved>..<reserved>
0A47..0A48 ; PVALID # GURMUKHI VOWEL SIGN EE..GURMUKHI VOWEL SIGN
0A49..0A4A ; UNASSIGNED # <reserved>..<reserved>
0A4B..0A4D ; PVALID # GURMUKHI VOWEL SIGN OO..GURMUKHI SIGN VIRAMA
0A4E..0A50 ; UNASSIGNED # <reserved>..<reserved>
0A51 ; PVALID # GURMUKHI SIGN UDAAT
0A52..0A58 ; UNASSIGNED # <reserved>..<reserved>
0A59..0A5B ; DISALLOWED # GURMUKHI LETTER KHHA..GURMUKHI LETTER ZA
0A5C ; PVALID # GURMUKHI LETTER RRA
0A5D ; UNASSIGNED # <reserved>
0A5E ; DISALLOWED # GURMUKHI LETTER FA
0A5F..0A65 ; UNASSIGNED # <reserved>..<reserved>
0A66..0A75 ; PVALID # GURMUKHI DIGIT ZERO..GURMUKHI SIGN YAKASH
0A76        ; DISALLOWED # GURMUKHI ABBREVIATION SIGN
0A77..0A80  ; UNASSIGNED # <reserved>..<reserved>
0A81..0A83  ; PVALID # GUJARATI SIGN CANDRABINDU..GUJARATI SIGN VIS
0A84        ; UNASSIGNED # <reserved>
0A85..0A8D  ; PVALID # GUJARATI LETTER A..GUJARATI VOWEL CANDRA E
0A8E        ; UNASSIGNED # <reserved>
0A8F..0A91  ; PVALID # GUJARATI LETTER E..GUJARATI VOWEL CANDRA O
0A92        ; UNASSIGNED # <reserved>
0A93..0AA8  ; PVALID # GUJARATI LETTER O..GUJARATI LETTER NA
0AA9        ; UNASSIGNED # <reserved>
0AAA..0AB0  ; PVALID # GUJARATI LETTER PA..GUJARATI LETTER RA
0AB1        ; UNASSIGNED # <reserved>
0AB2..0AB3  ; PVALID # GUJARATI LETTER LA..GUJARATI LETTER LLA
0AB4        ; UNASSIGNED # <reserved>
0AB5..0AB9  ; PVALID # GUJARATI LETTER VA..GUJARATI LETTER HA
0ABA..0ABB  ; UNASSIGNED # <reserved>..<reserved>
0ABC..0AC5  ; PVALID # GUJARATI SIGN NUKTA..GUJARATI VOWEL SIGN CAN
0AC6        ; UNASSIGNED # <reserved>
0AC7..0AC9  ; PVALID # GUJARATI VOWEL SIGN E..GUJARATI VOWEL SIGN C
0ACA        ; UNASSIGNED # <reserved>
0ACB..0ACD  ; PVALID # GUJARATI VOWEL SIGN O..GUJARATI SIGN VIRAMA
0ACE..0ACF  ; UNASSIGNED # <reserved>..<reserved>
0AD0        ; PVALID # GUJARATI OM
0AD1..0ADF  ; UNASSIGNED # <reserved>..<reserved>
0AE0..0AE3  ; PVALID # GUJARATI LETTER VOCALIC RR..GUJARATI VOWEL S
0AE4..0AE5  ; UNASSIGNED # <reserved>..<reserved>
0AE6..0AEF  ; PVALID # GUJARATI DIGIT ZERO..GUJARATI DIGIT NINE
0AF0..0AF1  ; DISALLOWED # GUJARATI ABBREVIATION SIGN..GUJARATI RUPEE S
0AF2..0AF8  ; UNASSIGNED # <reserved>..<reserved>
0AF9..0AFF  ; PVALID # GUJARATI LETTER ZHA..GUJARATI SIGN TWO-CIRCL
0B00        ; UNASSIGNED # <reserved>
0B01..0B03  ; PVALID # ORIYA SIGN CANDRABINDU..ORIYA SIGN VISARGA
0B04        ; UNASSIGNED # <reserved>
0B05..0B0C  ; PVALID # ORIYA LETTER A..ORIYA LETTER VOCALIC L
0B0D..0B0E  ; UNASSIGNED # <reserved>..<reserved>
0B0F..0B10  ; PVALID # ORIYA LETTER E..ORIYA LETTER AI
0B11..0B12  ; UNASSIGNED # <reserved>..<reserved>
0B13..0B28  ; PVALID # ORIYA LETTER O..ORIYA LETTER NA
0B29        ; UNASSIGNED # <reserved>
0B2A..0B30  ; PVALID # ORIYA LETTER PA..ORIYA LETTER RA
0B31        ; UNASSIGNED # <reserved>
0B32..0B33  ; PVALID # ORIYA LETTER LA..ORIYA LETTER LLA
0B34        ; UNASSIGNED # <reserved>
0B35..0B39  ; PVALID # ORIYA LETTER VA..ORIYA LETTER HA
0B3A..0B3B  ; UNASSIGNED # <reserved>..<reserved>
0B3C..0B44  ; PVALID # ORIYA SIGN NUKTA..ORIYA VOWEL SIGN VOCALIC R
0B45..0B46  ; UNASSIGNED # <reserved>..<reserved>
0B47..0B48  ; PVALID # ORIYA VOWEL SIGN E..ORIYA VOWEL SIGN AI
0B49..0B4A  ; UNASSIGNED # <reserved>..<reserved>
0B4B..0B4D  ; PVALID # ORIYA VOWEL SIGN O..ORIYA SIGN VIRAMA
0B4E..0B55  ; UNASSIGNED # <reserved>..<reserved>
0B56..0B57  ; PVALID # ORIYA AI LENGTH MARK..ORIYA AU LENGTH MARK
0B58..0B5B  ; UNASSIGNED # <reserved>..<reserved>
0B5C..0B5D  ; DISALLOWED # ORIYA LETTER RRA..ORIYA LETTER RHA
0B5E        ; UNASSIGNED # <reserved>
0B5F..0B63  ; PVALID # ORIYA LETTER YYA..ORIYA VOWEL SIGN VOCALIC L
0B64..0B65  ; UNASSIGNED # <reserved>..<reserved>
0B66..0B6F  ; PVALID # ORIYA DIGIT ZERO..ORIYA DIGIT NINE
0B70        ; DISALLOWED # ORIYA ISSHAR
0B71        ; PVALID # ORIYA LETTER WA
0B72..0B77  ; DISALLOWED # ORIYA FRACTION ONE QUARTER..ORIYA FRACTION T
0B78..0B81  ; UNASSIGNED # <reserved>..<reserved>
0B82..0B83  ; PVALID # TAMIL SIGN ANUSVARA..TAMIL SIGN VISARGA
0B84        ; UNASSIGNED # <reserved>
0B85..0B88  ; PVALID # TAMIL LETTER A..TAMIL LETTER UU
0B88..0B8D  ; UNASSIGNED # <reserved>..<reserved>
0B8E..0B90  ; PVALID # TAMIL LETTER E..TAMIL LETTER AI
0B91        ; UNASSIGNED # <reserved>
0B92..0B95  ; PVALID # TAMIL LETTER O..TAMIL LETTER KA
0B96..0B98  ; UNASSIGNED # <reserved>..<reserved>
0B99..0B9A  ; PVALID # TAMIL LETTER NGA..TAMIL LETTER CA
0B9B        ; UNASSIGNED # <reserved>
0B9C        ; PVALID # TAMIL LETTER JA
0B9D        ; UNASSIGNED # <reserved>
0B9E..0B9F  ; PVALID # TAMIL LETTER NYA..TAMIL LETTER TTA
0BA0..0BA2  ; UNASSIGNED # <reserved>..<reserved>
0BA3..0BA4  ; PVALID # TAMIL LETTER NNA..TAMIL LETTER TA
0BA5..0BA7  ; UNASSIGNED # <reserved>..<reserved>
0BA8..0BA9  ; PVALID # TAMIL LETTER NA..TAMIL LETTER PA
0BAA..0BAD  ; UNASSIGNED # <reserved>..<reserved>
0BAE..0BB9  ; PVALID # TAMIL LETTER MA..TAMIL LETTER HA
0BB0..0BB5  ; UNASSIGNED # <reserved>..<reserved>
0BB6..0BC1  ; PVALID # TAMIL VOWEL SIGN AA..TAMIL VOWEL SIGN UU
0BC3..0BC5  ; UNASSIGNED # <reserved>..<reserved>
0BC6..0BC8  ; PVALID # TAMIL VOWEL SIGN E..TAMIL VOWEL SIGN AI
0BC9        ; UNASSIGNED # <reserved>
0BCA..0BCD  ; PVALID # TAMIL VOWEL SIGN O..TAMIL SIGN VIRAMA
0BCE..0C0F  ; UNASSIGNED # <reserved>..<reserved>
0D0        ; PVALID # TAMIL OM
0D1..0D6   ; UNASSIGNED # <reserved>..<reserved>
0D7        ; PVALID # TAMIL AU LENGTH MARK
0DB8..0DBE  ; UNASSIGNED # <reserved>..<reserved>
0DBE..0DBF  ; PVALID # TAMIL DIGIT ZERO..TAMIL DIGIT NINE
0BF0..0BF9  ; DISALLOWED # TAMIL NUMBER TEN..TAMIL NUMBER SIGN
0BFF..0C0F  ; UNASSIGNED # <reserved>..<reserved>
0C00..0C0C  ; PVALID # TELUGU SIGN COMBINING CANDRABINDU ABOVE..TEL
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0C0D        ; UNASSIGNED # <reserved>
0C0E..0C10 ; PVALID  # TELUGU LETTER E..TELUGU LETTER AI
0C11        ; UNASSIGNED # <reserved>
0C12..0C28 ; PVALID  # TELUGU LETTER O..TELUGU LETTER NA
0C29        ; UNASSIGNED # <reserved>
0C2A..0C39 ; PVALID  # TELUGU LETTER PA..TELUGU LETTER HA
0C3A..0C44 ; PVALID  # TELUGU SIGN AVAGRAHA..TELUGU VOWEL SIGN Voca
0C45        ; UNASSIGNED # <reserved>
0C46..0C48 ; PVALID  # TELUGU VOWEL SIGN E..TELUGU VOWEL SIGN AI
0C49        ; UNASSIGNED # <reserved>
0C4A..0C4D ; PVALID  # TELUGU VOWEL SIGN O..TELUGU SIGN VIRAMA
0C4E..0C54 ; UNASSIGNED # <reserved>..<reserved>
0C55..0C56 ; PVALID  # TELUGU LENGTH MARK..TELUGU AI LENGTH MARK
0C57        ; UNASSIGNED # <reserved>
0C58..0C5A ; PVALID  # TELUGU LETTER TSA..TELUGU LETTER RRA
0C5B..0C5F ; UNASSIGNED # <reserved>..<reserved>
0C60..0C63 ; PVALID  # TELUGU LETTER VOCALIC RR..TELUGU VOWEL SIGN
0C64..0C65 ; UNASSIGNED # <reserved>..<reserved>
0C66..0C6F ; PVALID  # TELUGU DIGIT ZERO..TELUGU DIGIT NINE
0C70..0C77 ; UNASSIGNED # <reserved>..<reserved>
0C78..0C7F ; DISALLOWED # TELUGU FRACTION DIGIT ZERO FOR ODD POWERS OF
0C80..0C83 ; PVALID  # KANNADA SIGN SPACING CANDRABINDU..KANNADA SI
0C84        ; DISALLOWED # KANNADA SIGN SIDDHAM
0C85..0C8C ; PVALID  # KANNADA LETTER A..KANNADA LETTER VOCALIC L
0C8D        ; UNASSIGNED # <reserved>
0C8E..0C90 ; PVALID  # KANNADA LETTER E..KANNADA LETTER AI
0C91        ; UNASSIGNED # <reserved>
0C92..0CA8 ; PVALID  # KANNADA LETTER O..KANNADA LETTER NA
0C99        ; UNASSIGNED # <reserved>
0CA9..0CB3 ; PVALID  # KANNADA LETTER PA..KANNADA LETTER LLA
0CB4        ; UNASSIGNED # <reserved>
0CB5..0CB9 ; PVALID  # KANNADA LETTER VA..KANNADA LETTER HA
0CBA..0CBB ; UNASSIGNED # <reserved>..<reserved>
0CBC..0CC4 ; PVALID  # KANNADA SIGN NUKTA..KANNADA VOWEL SIGN VOCAL
0CC5        ; UNASSIGNED # <reserved>
0CC6..0CC8 ; PVALID  # KANNADA VOWEL SIGN E..KANNADA VOWEL SIGN AI
0CC9        ; UNASSIGNED # <reserved>
0CCA..0CCD ; PVALID  # KANNADA VOWEL SIGN O..KANNADA SIGN VIRAMA
0CCE..0CDF ; UNASSIGNED # <reserved>..<reserved>
0CD5..0CD6 ; PVALID  # KANNADA LENGTH MARK..KANNADA AI LENGTH MARK
0CD7..0CDE ; UNASSIGNED # <reserved>..<reserved>
0CDE        ; PVALID  # KANNADA LETTER FA
0CDF        ; UNASSIGNED # <reserved>
0CE0..0CE3 ; PVALID  # KANNADA LETTER VOCALIC RR..KANNADA VOWEL SIG
0CE4..0CE5 ; UNASSIGNED # <reserved>..<reserved>
0CE6..0CEF ; PVALID  # KANNADA DIGIT ZERO..KANNADA DIGIT NINE
0CF0        ; UNASSIGNED # <reserved>
0CF1..0CF2  ; PVALID  # KANNADA SIGN JIHVAMULIYA..KANNADA SIGN UPADH
0CF3..0CFF  ; UNASSIGNED  # <reserved>..<reserved>
0D00..0D03  ; PVALID  # MALAYALAM SIGN COMBINING ANUSVARA ABOVE..MAL
0D04  ; UNASSIGNED  # <reserved>
0D05..0D0C  ; PVALID  # MALAYALAM LETTER A..MALAYALAM LETTER VOCALIC
0D0D  ; UNASSIGNED  # <reserved>
0D0E..0D10  ; PVALID  # MALAYALAM LETTER E..MALAYALAM LETTER AI
0D11  ; UNASSIGNED  # <reserved>
0D12..0D44  ; PVALID  # MALAYALAM LETTER O..MALAYALAM VOWEL SIGN VOC
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 ARCHAIC 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  # SINHALA SIGN ANUSVARAYA..SINHALA SIGN VISARG
0D84  ; UNASSIGNED  # <reserved>
0D85..0D96  ; PVALID  # SINHALA LETTER AYANNA..SINHALA LETTER AUYANN
0D97..0D99  ; UNASSIGNED  # <reserved>..<reserved>
0DA..0DB1  ; PVALID  # SINHALA LETTER ALPAPRAANA KAYANNA..SINHALA L
0DB2  ; UNASSIGNED  # <reserved>
0DB3..0DBB  ; PVALID  # SINHALA LETTER SANYAKA DAYANNA..SINHALA LETT
0DBC  ; UNASSIGNED  # <reserved>
0DBD  ; PVALID  # SINHALA LETTER DANTAJA LAYANNA
0DBE..0DBF  ; UNASSIGNED  # <reserved>..<reserved>
0DC0..0DC6  ; PVALID  # SINHALA LETTER VAYANNA..SINHALA LETTER FAYAN
0DC7..0DC9  ; UNASSIGNED  # <reserved>..<reserved>
0DCA  ; PVALID  # SINHALA SIGN AL-LAKUNA
0DCB..0DCE  ; UNASSIGNED  # <reserved>..<reserved>
0DCF..0DD4  ; PVALID  # SINHALA VOWEL SIGN AELA-PILLA..SINHALA VOWEL
0DD5  ; UNASSIGNED  # <reserved>
0DD6  ; PVALID  # SINHALA VOWEL SIGN DIGA PAA-PILLA
0DD7  ; UNASSIGNED  # <reserved>
0DD8..0DDF  ; PVALID  # SINHALA VOWEL SIGN GAETTA-PILLA..SINHALA VOW
0DE0..0DE5  ; UNASSIGNED  # <reserved>..<reserved>
0DE6..0DEF  ; PVALID  # SINHALA LITH DIGIT ZERO..SINHALA LITH DIGIT
0DFF..0DF1  ; UNASSIGNED  # <reserved>..<reserved>
0DF2..0DF3  ; PVALID  # SINHALA VOWEL SIGN DIGA GAETTA-PILLA..SINHAL
0DF4  ; DISALLOWED  # SINHALA PUNCTUATION KUNDDALIYA
0DF5..0E00  ; UNASSIGNED  # <reserved>..<reserved>
0E01..0E32  ; PVALID  # THAI CHARACTER KO KAI..THAI CHARACTER SARA A
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..0E59  ; PVALID  # THAI DIGIT ZERO..THAI DIGIT NINE
0E5A..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
0EAA..0EAB  ; PVALID  # LAO LETTER SO SUNG..LAO LETTER HO SUNG
0EAC  ; UNASSIGNED  # <reserved>
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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>
0EC0..0EC4  ; PVALID  # LAO VOWEL SIGN E..LAO VOWEL SIGN AI
0EC5  ; UNASSIGNED  # <reserved>
0EC6  ; PVALID  # LAO KO LA
0EC7  ; UNASSIGNED  # <reserved>
0EC8..0ECD  ; 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>
0EDC..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        ; PVALID  # TIBETAN SYLLABLE OM
0F01..0F0A  ; DISALLOWED  # TIBETAN MARK GTER YIG MGO TRUNCATED A..TIBET
0F0B        ; PVALID  # TIBETAN MARK INTERSYLLABIC TSHEG
0F0C..0F17  ; DISALLOWED  # TIBETAN MARK DELIMITER TSHEG BSTAR..TIBETAN
0F18..0F19  ; PVALID  # TIBETAN ASTROLOGICAL SIGN -KHYUD PA..TIBETAN
0F1A..0F1F  ; DISALLOWED  # TIBETAN SIGN RDEL DKAR GCIG..TIBETAN SIGN RD
0F20..0F29  ; PVALID  # TIBETAN DIGIT ZERO..TIBETAN DIGIT NINE
0F2A..0F34  ; DISALLOWED  # TIBETAN DIGIT HALF ONE..TIBETAN MARK BSDUS R
0F35        ; PVALID  # TIBETAN MARK NGAS BZUNG NYI ZLA
0F36        ; DISALLOWED  # TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN
0F37        ; PVALID  # TIBETAN MARK NGAS BZUNG SGOR RTAGS
0F38        ; DISALLOWED  # TIBETAN MARK CHE MGO
0F39        ; PVALID  # TIBETAN MARK TSA -PHRU
0F3A..0F3D  ; DISALLOWED  # TIBETAN MARK GUG RTAGS GYON..TIBETAN MARK AN
0F3E..0F42  ; PVALID  # TIBETAN SIGN YAR TSHES..TIBETAN LETTER GA
0F43        ; DISALLOWED  # TIBETAN LETTER GHA
0F44..0F47  ; PVALID  # TIBETAN LETTER NGA..TIBETAN LETTER JA
0F48        ; UNASSIGNED  # <reserved>
0F49..0F4C  ; PVALID  # TIBETAN LETTER NYA..TIBETAN LETTER DDA
0F4D        ; DISALLOWED  # TIBETAN LETTER DDHA
0F4E..0F51  ; PVALID  # TIBETAN LETTER NNA..TIBETAN LETTER DA
0F52        ; DISALLOWED  # TIBETAN LETTER DHA
0F53..0F56  ; PVALID  # TIBETAN LETTER NA..TIBETAN LETTER BA
0F57        ; DISALLOWED  # TIBETAN LETTER BHA
0F58..0F5B  ; PVALID  # TIBETAN LETTER MA..TIBETAN LETTER DZA
0F5C        ; DISALLOWED  # TIBETAN LETTER D2HA
0F5D..0F68  ; PVALID  # TIBETAN LETTER WA..TIBETAN LETTER A
0F69        ; DISALLOWED  # TIBETAN LETTER KSSA
0F6A..0F6C  ; PVALID  # TIBETAN LETTER FIXED-FORM RA..TIBETAN LETTER
0F6D..0F70  ; UNASSIGNED  # <reserved>..<reserved>
0F71..0F72  ; PVALID  # TIBETAN VOWEL SIGN AA..TIBETAN VOWEL SIGN I
0F73        ; DISALLOWED  # TIBETAN VOWEL SIGN II
0F74        ; PVALID  # TIBETAN VOWEL SIGN U
0F75..0F79  ; DISALLOWED  # TIBETAN VOWEL SIGN UU..TIBETAN VOWEL SIGN VO
0F7A..0F80  ; PVALID  # TIBETAN VOWEL SIGN E..TIBETAN VOWEL SIGN REV
0F81        ; DISALLOWED  # TIBETAN VOWEL SIGN REVERSED II
0F82..0F84  ; PVALID  # TIBETAN SIGN NYI ZLA NAA DA..TIBETAN MARK HA
0F85        ; DISALLOWED  # TIBETAN MARK PALUTA
0F86..0F92  ; PVALID  # TIBETAN SIGN LCI RTAGS..TIBETAN SUBJOINED LE
0F93        ; DISALLOWED  # TIBETAN SUBJOINED LETTER GHA
0F94..0F97  ; PVALID  # TIBETAN SUBJOINED LETTER NGA..TIBETAN SUBJOI
0F98        ; UNASSIGNED  # <reserved>
0F99..0F9C  ; PVALID  # TIBETAN SUBJOINED LETTER NYA..TIBETAN SUBJOI
0F9D        ; DISALLOWED  # TIBETAN SUBJOINED LETTER DDHA
0F9E..0FA1  ; PVALID  # TIBETAN SUBJOINED LETTER NNA..TIBETAN SUBJOI
0FA2        ; DISALLOWED  # TIBETAN SUBJOINED LETTER DHA
0FA3..0FA6  ; PVALID  # TIBETAN SUBJOINED LETTER NA..TIBETAN SUBJOIN
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17B4..17B5  ; DISALLOWED # KHMER VOWEL INHERENT AQ..KHMER VOWEL INHEREN
17B6..17D3  ; PVALID  # KHMER VOWEL SIGN AA..KHMER SIGN BATHAMASAT
17D4..17D6  ; DISALLOWED # KHMER SIGN KHAN..KHMER SIGN CAMNUC PI KUUH
17D7    ; PVALID  # KHMER SIGN LEK TOO
17DB..17DC  ; DISALLOWED # KHMER SIGN BEYYAL..KHMER CURRENCY SYMBOL RIE
17DC..17DD  ; PVALID  # KHMER SIGN AVAKRAHASANYA..KHMER SIGN ATTACA
17DE..17E9  ; UNASSIGNED # <reserved>..<reserved>
17E0..17EF  ; PVALID  # KHMER DIGIT ZERO..KHMER DIGIT NINE
17EA..17E9  ; UNASSIGNED # <reserved>..<reserved>
17F0..17F9  ; DISALLOWED # KHMER SYMBOL LEK ATTAK SON..KHMER SYMBOL LEK
17FA..17FF  ; UNASSIGNED # <reserved>..<reserved>
1800..180E  ; DISALLOWED # MONGOLIAN BIRGA..MONGOLIAN VOWEL SEPARATOR
180F    ; UNASSIGNED # <reserved>
1810..1819  ; PVALID  # MONGOLIAN DIGIT ZERO..MONGOLIAN DIGIT NINE
181A..181F  ; UNASSIGNED # <reserved>..<reserved>
1820..1878  ; PVALID  # MONGOLIAN LETTER A..MONGOLIAN LETTER CHA WIT
1879..187F  ; UNASSIGNED # <reserved>..<reserved>
1880..18AA  ; PVALID  # MONGOLIAN LETTER ALI GALI ANUSVARA ONE..MONGOLIAN DIGIT ZERO
18AB..18AF  ; UNASSIGNED # <reserved>..<reserved>
18B0..18F5  ; PVALID  # CANADIAN SYLLABICS OY..CANADIAN SYLLABICS CA
18F6..18FF  ; UNASSIGNED # <reserved>..<reserved>
1900..191E  ; PVALID  # LIMBU VOWEL-CARRIER LETTER..LIMBU LETTER TRA
191F    ; UNASSIGNED # <reserved>
1920..192B  ; PVALID  # LIMBU VOWEL SIGN A..LIMBU SUBJOINED LETTER W
192C..192F  ; UNASSIGNED # <reserved>..<reserved>
1930..193B  ; PVALID  # LIMBU SMALL LETTER KA..LIMBU SIGN SA-I
193C..193F  ; UNASSIGNED # <reserved>..<reserved>
1940    ; DISALLOWED # LIMBU SIGN LOO
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1944..1945  ; DISALLOWED # LIMBU EXCLAMATION MARK..LIMBU QUESTION MARK
1946..196D  ; PVALID  # LIMBU DIGIT ZERO..TAI LE LETTER AI
196E..196F  ; UNASSIGNED # <reserved>..<reserved>
1970..1974  ; PVALID  # TAI LE LETTER TONE-2..TAI LE LETTER TONE-6
1975..197F  ; UNASSIGNED # <reserved>..<reserved>
1980..199B  ; PVALID  # NEW TAI LUE LETTER HIGH QA..NEW TAI LUE LETT
19AC..19AF  ; UNASSIGNED # <reserved>..<reserved>
19B0..19C9  ; PVALID  # NEW TAI LUE VOWEL SIGN VOWEL SHORTENER..NEW TAI LUE DIGIT ZERO
19CA..19CF  ; UNASSIGNED # <reserved>..<reserved>
19D0..19D9  ; PVALID  # NEW TAI LUE DIGIT ZERO..NEW TAI LUE DIGIT NI
19DA    ; DISALLOWED # NEW TAI LUE THAM DIGIT ONE
19DB..19DD  ; UNASSIGNED # <reserved>..<reserved>
19DE..19FF  ; DISALLOWED # NEW TAI LUE SIGN LAE..KHMER SYMBOL DAP-PRAM
1A00..1A1B  ; PVALID  # BUGINESE LETTER KA..BUGINESE VOWEL SIGN AE
1A1C..1A1D  ; UNASSIGNED # <reserved>..<reserved>
1A1E..1A1F  ; DISALLOWED # BUGINESE PALLAWA..BUGINESE END OF SECTION
1A20..1A5E  ; PVALID  # TAI THAM LETTER HIGH KA..TAI THAM CONSONANT
1A5F    ; UNASSIGNED # <reserved>
1A60..1A7C  ; PVALID  # TAI THAM SIGN SAKOT..TAI THAM SIGN KHUEN-LUE
1A7D..1A7E  ; UNASSIGNED  # <reserved>..<reserved>
1A7F..1A89  ; PVALID  # TAI THAM COMBINING CRYPTOGRAMMIC DOT..TAI TH
1A8A..1A8F  ; UNASSIGNED  # <reserved>..<reserved>
1A90..1A99  ; PVALID  # TAI THAM DIGIT ZERO..TAI THAM DIGI
1A9A..1A9F  ; UNASSIGNED  # <reserved>..<reserved>
1AA0..1AA6  ; DISALLOWED  # TAI THAM SIGN WIANG..TAI THAM SIGN REVERSED
1AA7  ; PVALID  # TAI THAM SIGN MAI YAMOK
1AA8..1AAD  ; DISALLOWED  # TAI THAM SIGN KAAN..TAI THAM SIGN CAANG
1AAE..1AAF  ; UNASSIGNED  # <reserved>..<reserved>
1AB0..1ABD  ; PVALID  # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
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..1B6A  ; DISALLOWED  # BALINESE PANTI..BALINESE MUSICAL SYMBOL DANG
1B6B..1B73  ; PVALID  # BALINESE MUSICAL SYMBOL COMBINING TEGEH..BAL
1B74..1B7C  ; DISALLOWED  # BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG.
1B7D..1B7F  ; UNASSIGNED  # <reserved>..<reserved>
1B80..1B83  ; PVALID  # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
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..1C3F  ; DISALLOWED  # LEPCHA PUNCTUATION TA-ROL..LEPCHA PUNCTUATION
1C40..1C49  ; PVALID  # LEPCHA DIGIT ZERO..LEPCHA DIGIT NINE
1C4A..1C4C  ; UNASSIGNED  # <reserved>..<reserved>
1C4D..1C7D  ; PVALID  # LEPCHA LETTER TTA..OL CHIKI AHAD
1C7E..1C88  ; DISALLOWED  # OL CHIKI PUNCTUATION MUCAAD..CYRILLIC SMALL
1C89..1C8F  ; UNASSIGNED  # <reserved>..<reserved>
1C90..1C9B  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBB..1CBB  ; UNASSIGNED  # <reserved>..<reserved>
1CBD..1CC7  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CC8..1CCF  ; UNASSIGNED  # <reserved>..<reserved>
1CDO..1CD2  ; PVALID  # VEDIC TONE KARSHANA..VEDIC TONE PRENKHA
1CD3  ; DISALLOWED  # VEDIC SIGN NIHSHVASA
1CD4..1CF9  ; PVALID  # VEDIC SIGN YAJURVEDIC MIDLINE SVARITA..VEDIC
1CFA..1CFF  ; UNASSIGNED  # <reserved>..<reserved>
1D00..1D2B  ; PVALID  # LATIN LETTER SMALL CAPITAL A..CYRILLIC LETTE
1D2C..1D2F  ; DISALLOWED  # MODIFIER LETTER CAPITAL A..MODIFIER LETTER C
1D2F  ; PVALID  # MODIFIER LETTER CAPITAL BARRED B
1D30..1D3A  ; DISALLOWED  # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B  ; PVALID  # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D  ; DISALLOWED  # MODIFIER LETTER CAPITAL O..MODIFIER LETTER S
1D4E  ; PVALID  # MODIFIER LETTER SMALL TURNED I
1D4F..1D6A  ; DISALLOWED  # MODIFIER LETTER SMALL K..GREEK SUBSCRIPT SMA
1D6B..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>
1DBF..1DFF ; PVALID # COMBINING DELETION MARK..COMBINING RIGHT ARR
1E00 ; DISALLOWED # LATIN CAPITAL LETTER A WITH RING BELOW
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
1E05 ; PVALID # LATIN SMALL LETTER B WITH DOT BELOW
1E06 ; DISALLOWED # LATIN CAPITAL LETTER B WITH LINE BELOW
1E07 ; PVALID # LATIN SMALL LETTER B WITH LINE BELOW
1E08 ; DISALLOWED # LATIN CAPITAL LETTER C WITH CEDILLA AND ACUT
1E09 ; PVALID # LATIN SMALL LETTER C WITH CEDILLA AND ACUTE
1E0A ; DISALLOWED # LATIN CAPITAL LETTER D WITH DOT ABOVE
1E0B ; PVALID # LATIN SMALL LETTER D WITH DOT ABOVE
1E0C ; DISALLOWED # LATIN CAPITAL LETTER D WITH DOT BELOW
1E0D ; PVALID # LATIN SMALL LETTER D WITH DOT BELOW
1E0E ; DISALLOWED # LATIN CAPITAL LETTER D WITH LINE BELOW
1E0F ; PVALID # LATIN SMALL LETTER D WITH LINE BELOW
1E10 ; DISALLOWED # LATIN CAPITAL LETTER D WITH CEDILLA
1E11 ; PVALID # LATIN SMALL LETTER D WITH CEDILLA
1E12 ; DISALLOWED # LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW
1E13 ; PVALID # LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW
1E14 ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON AND GRAVE
1E15 ; PVALID # LATIN SMALL LETTER E WITH MACRON AND GRAVE
1E16 ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON AND ACUTE
1E17 ; PVALID # LATIN SMALL LETTER E WITH MACRON AND ACUTE
1E18 ; DISALLOWED # LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW
1E19 ; PVALID # LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW
1E1A ; DISALLOWED # LATIN CAPITAL LETTER E WITH TILDE BELOW
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
1E20 ; DISALLOWED # LATIN CAPITAL LETTER G WITH MACRON
1E21 ; PVALID # LATIN SMALL LETTER G WITH MACRON
1E22 ; DISALLOWED # LATIN CAPITAL LETTER H WITH DOT ABOVE
1E23 ; PVALID # LATIN SMALL LETTER H WITH DOT ABOVE
1E24 ; DISALLOWED # LATIN CAPITAL LETTER H WITH DOT BELOW
1E25 ; PVALID # LATIN SMALL LETTER H WITH DOT BELOW
1E26 ; DISALLOWED # LATIN CAPITAL LETTER H WITH DIAERESIS
1E27 ; PVALID # LATIN SMALL LETTER H WITH DIAERESIS
1E28 ; DISALLOWED # LATIN CAPITAL LETTER H WITH CEDILLA
1E29 ; PVALID # LATIN SMALL LETTER H WITH CEDILLA
1E2A ; DISALLOWED # LATIN CAPITAL LETTER H WITH BREVE BELOW
1E2B ; PVALID  # LATIN SMALL LETTER H WITH BREVE BELOW
1E2C ; DISALLOWED  # LATIN CAPITAL LETTER I WITH TILDE BELOW
1E2D ; PVALID  # LATIN SMALL LETTER I WITH TILDE BELOW
1E2E ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DIAERESIS AND AC
1E2F ; PVALID  # LATIN SMALL LETTER I WITH DIAERESIS AND ACUT
1E30 ; DISALLOWED  # LATIN CAPITAL LETTER K WITH ACUTE
1E31 ; PVALID  # LATIN SMALL LETTER K WITH ACUTE
1E32 ; DISALLOWED  # LATIN CAPITAL LETTER K WITH DOT BELOW
1E33 ; PVALID  # LATIN SMALL LETTER K WITH DOT BELOW
1E34 ; DISALLOWED  # LATIN CAPITAL LETTER K WITH LINE BELOW
1E35 ; PVALID  # LATIN SMALL LETTER K WITH LINE BELOW
1E36 ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOT BELOW
1E37 ; PVALID  # LATIN SMALL LETTER L WITH DOT BELOW
1E38 ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOT BELOW AND MACR
1E39 ; PVALID  # LATIN SMALL LETTER L WITH DOT BELOW AND MACR
1E3A ; DISALLOWED  # LATIN CAPITAL LETTER L WITH LINE BELOW
1E3B ; PVALID  # LATIN SMALL LETTER L WITH LINE BELOW
1E3C ; DISALLOWED  # LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW
1E3D ; PVALID  # LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW
1E3E ; DISALLOWED  # LATIN CAPITAL LETTER M WITH ACUTE
1E3F ; PVALID  # LATIN SMALL LETTER M WITH ACUTE
1E40 ; DISALLOWED  # LATIN CAPITAL LETTER M WITH DOT ABOVE
1E41 ; PVALID  # LATIN SMALL LETTER M WITH DOT ABOVE
1E42 ; DISALLOWED  # LATIN CAPITAL LETTER M WITH DOT BELOW
1E43 ; PVALID  # LATIN SMALL LETTER M WITH DOT BELOW
1E44 ; DISALLOWED  # LATIN CAPITAL LETTER N WITH DOT ABOVE
1E45 ; PVALID  # LATIN SMALL LETTER N WITH DOT ABOVE
1E46 ; DISALLOWED  # LATIN CAPITAL LETTER N WITH DOT BELOW
1E47 ; PVALID  # LATIN SMALL LETTER N WITH DOT BELOW
1E48 ; DISALLOWED  # LATIN CAPITAL LETTER N WITH LINE BELOW
1E49 ; PVALID  # LATIN SMALL LETTER N WITH LINE BELOW
1E4A ; DISALLOWED  # LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW
1E4B ; PVALID  # LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW
1E4C ; DISALLOWED  # LATIN CAPITAL LETTER O WITH TILDE AND ACUTE
1E4D ; PVALID  # LATIN SMALL LETTER O WITH TILDE AND ACUTE
1E4E ; DISALLOWED  # LATIN CAPITAL LETTER O WITH TILDE AND DIAER
1E4F ; PVALID  # LATIN SMALL LETTER O WITH TILDE AND DIAERESI
1E50 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MACRON AND GRAVE
1E51 ; PVALID  # LATIN SMALL LETTER O WITH MACRON AND GRAVE
1E52 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MACRON AND ACUTE
1E53 ; PVALID  # LATIN SMALL LETTER O WITH MACRON AND ACUTE
1E54 ; DISALLOWED  # LATIN CAPITAL LETTER P WITH ACUTE
1E55 ; PVALID  # LATIN SMALL LETTER P WITH ACUTE
1E56 ; DISALLOWED  # LATIN CAPITAL LETTER P WITH DOT ABOVE
1E57 ; PVALID  # LATIN SMALL LETTER P WITH DOT ABOVE
1E58 ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOT ABOVE
1E59 ; PVALID  # LATIN SMALL LETTER R WITH DOT ABOVE
1E5A ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOT BELOW
1E5B        ; PVALID      # LATIN SMALL LETTER R WITH DOT BELOW
1E5C        ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT BELOW AND MA
1E5D        ; PVALID      # LATIN SMALL LETTER R WITH DOT BELOW AND MACR
1E5E        ; DISALLOWED # LATIN CAPITAL LETTER R WITH LINE BELOW
1E5F        ; PVALID      # LATIN SMALL LETTER R WITH LINE BELOW
1E60        ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT ABOVE
1E61        ; PVALID      # LATIN SMALL LETTER S WITH DOT ABOVE
1E62        ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW
1E63        ; PVALID      # LATIN SMALL LETTER S WITH DOT BELOW
1E64        ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE AND DOT AB
1E65        ; PVALID      # LATIN SMALL LETTER S WITH ACUTE AND DOT ABOV
1E66        ; DISALLOWED # LATIN CAPITAL LETTER S WITH CARON AND DOT AB
1E67        ; PVALID      # LATIN SMALL LETTER S WITH CARON AND DOT ABOV
1E68        ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW AND DO
1E69        ; PVALID      # LATIN SMALL LETTER S WITH DOT BELOW AND DOT
1E6A        ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT ABOVE
1E6B        ; PVALID      # LATIN SMALL LETTER T WITH DOT ABOVE
1E6C        ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT BELOW
1E6D        ; PVALID      # LATIN SMALL LETTER T WITH DOT BELOW
1E6E        ; DISALLOWED # LATIN CAPITAL LETTER T WITH LINE BELOW
1E6F        ; PVALID      # LATIN SMALL LETTER T WITH LINE BELOW
1E70        ; DISALLOWED # LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW
1E71        ; PVALID      # LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW
1E72        ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS BELOW
1E73        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS BELOW
1E74        ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE BELOW
1E75        ; PVALID      # LATIN SMALL LETTER U WITH TILDE BELOW
1E76        ; DISALLOWED # LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW
1E77        ; PVALID      # LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW
1E78        ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE AND ACUTE
1E79        ; PVALID      # LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E7A        ; DISALLOWED # LATIN CAPITAL LETTER U WITH MACRON AND DIAER
1E7B        ; PVALID      # LATIN SMALL LETTER U WITH MACRON AND DIAERES
1E7C        ; DISALLOWED # LATIN CAPITAL LETTER V WITH TILDE
1E7D        ; PVALID      # LATIN SMALL LETTER V WITH TILDE
1E7E        ; DISALLOWED # LATIN CAPITAL LETTER V WITH DOT BELOW
1E7F        ; PVALID      # LATIN SMALL LETTER V WITH DOT BELOW
1E80        ; DISALLOWED # LATIN CAPITAL LETTER W WITH GRAVE
1E81        ; PVALID      # LATIN SMALL LETTER W WITH GRAVE
1E82        ; DISALLOWED # LATIN CAPITAL LETTER W WITH ACUTE
1E83        ; PVALID      # LATIN SMALL LETTER W WITH ACUTE
1E84        ; DISALLOWED # LATIN CAPITAL LETTER W WITH DIAERESIS
1E85        ; PVALID      # LATIN SMALL LETTER W WITH DIAERESIS
1E86        ; DISALLOWED # LATIN CAPITAL LETTER W WITH DOT ABOVE
1E87        ; PVALID      # LATIN SMALL LETTER W WITH DOT ABOVE
1E88        ; DISALLOWED # LATIN CAPITAL LETTER W WITH DOT BELOW
1E89        ; PVALID      # LATIN SMALL LETTER W WITH DOT BELOW
1E8A        ; DISALLOWED # LATIN CAPITAL LETTER X WITH DOT ABOVE
1E8B ; PVALID  # LATIN SMALL LETTER X WITH DOT ABOVE
1E8C ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DIAERESIS
1E8D ; PVALID  # LATIN SMALL LETTER X WITH DIAERESIS
1E8E ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E8F ; PVALID  # LATIN SMALL LETTER Y WITH DOT ABOVE
1E90 ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
1E91 ; PVALID  # LATIN SMALL LETTER Z WITH CIRCUMFLEX
1E92 ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DOT BELOW
1E93 ; PVALID  # LATIN SMALL LETTER Z WITH DOT BELOW
1E94 ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH LINE BELOW
1E95..1E99 ; PVALID  # LATIN SMALL LETTER Z WITH LINE BELOW..LATIN
1E9A..1E9B ; DISALLOWED  # LATIN SMALL LETTER A WITH RIGHT HALF RING..L
1E9C..1E9D ; PVALID  # LATIN SMALL LETTER LONG S WITH DIAGONAL STROKE
1E9E ; DISALLOWED  # LATIN CAPITAL LETTER SHARP S
1E9F ; PVALID  # LATIN SMALL LETTER DELTA
1EA0 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT BELOW
1EA1 ; PVALID  # LATIN SMALL LETTER A WITH DOT BELOW
1EA2 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH HOOK ABOVE
1EA3 ; PVALID  # LATIN SMALL LETTER A WITH HOOK ABOVE
1EA4 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND A
1EA5 ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE
1EA6 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND G
1EA7 ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE
1EA8 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND H
1EA9 ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK
1EAA ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND TILDE
1EAB ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE
1EAC ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND D
1EAD ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT
1EAE ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
1EAF ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND ACUTE
1EB0 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
1EB1 ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND GRAVE
1EB2 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND HOOK
1EB3 ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND HOOK
1EB4 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND TILDE
1EB5 ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND TILDE
1EB6 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND DOT
1EB7 ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND DOT
1EB8 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOT BELOW
1EB9 ; PVALID  # LATIN SMALL LETTER E WITH DOT BELOW
1EBA ; DISALLOWED  # LATIN CAPITAL LETTER E WITH HOOK ABOVE
1EBB ; PVALID  # LATIN SMALL LETTER E WITH HOOK ABOVE
1EBC ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE
1EBD ; PVALID  # LATIN SMALL LETTER E WITH TILDE
1EEB ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND A
1EEF ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE
1EC0 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND G
1EC1 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRA
1EC2 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND H
1EC3 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOO
1EC4 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND T
1EC5 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND TIL
1EC6 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND D
1EC7 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT
1EC8 ; DISALLOWED  # LATIN CAPITAL LETTER I WITH HOOK ABOVE
1EC9 ; PVALID  # LATIN SMALL LETTER I WITH HOOK ABOVE
1ECA ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DOT BELOW
1ECC ; PVALID  # LATIN SMALL LETTER I WITH DOT BELOW
1ECD ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT BELOW
1ECE ; PVALID  # LATIN SMALL LETTER O WITH DOT BELOW
1ED0 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND A
1ED1 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACU
1ED2 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND G
1ED3 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRA
1ED4 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND H
1ED5 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOO
1ED6 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND T
1ED7 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND TIL
1ED8 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND D
1ED9 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT
1EDA ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND ACUTE
1EDB ; PVALID  # LATIN SMALL LETTER O WITH HORN AND ACUTE
1EDC ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND GRAVE
1EDD ; PVALID  # LATIN SMALL LETTER O WITH HORN AND GRAVE
1EDE ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND HOOK AB
1EDF ; PVALID  # LATIN SMALL LETTER O WITH HORN AND HOOK ABOV
1EE0 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND TILDE
1EE1 ; PVALID  # LATIN SMALL LETTER O WITH HORN AND TILDE
1EE2 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND DOT BEL
1EE3 ; PVALID  # LATIN SMALL LETTER O WITH HORN AND DOT BELOW
1EE4 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DOT BELOW
1EE5 ; PVALID  # LATIN SMALL LETTER U WITH DOT BELOW
1EE6 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HOOK ABOVE
1EE7 ; PVALID  # LATIN SMALL LETTER U WITH HOOK ABOVE
1EE8 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND ACUTE
1EE9 ; PVALID  # LATIN SMALL LETTER U WITH HORN AND ACUTE
1EAA ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND GRAVE
1EAB ; PVALID  # LATIN SMALL LETTER U WITH HORN AND GRAVE
1EAC ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND HOOK AB
1EAD ; PVALID  # LATIN SMALL LETTER U WITH HORN AND HOOK ABOV
1EAE ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND TILDE
1EAF ; PVALID  # LATIN SMALL LETTER U WITH HORN AND TILDE
1EFO ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND DOT BEL
\texttt{1EF1} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ U \ WITH \ HORN \ AND \ DOT \ BELOW} \\
\texttt{1EF2} \texttt{;} \texttt{DISALLOWED} \ # \texttt{LATIN \ CAPITAL \ LETTER \ Y \ WITH \ GRAVE} \\
\texttt{1EF3} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ Y \ WITH \ GRAVE} \\
\texttt{1EF4} \texttt{;} \texttt{DISALLOWED} \ # \texttt{LATIN \ CAPITAL \ LETTER \ Y \ WITH \ DOT \ BELOW} \\
\texttt{1EF5} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ Y \ WITH \ DOT \ BELOW} \\
\texttt{1EF6} \texttt{;} \texttt{DISALLOWED} \ # \texttt{LATIN \ CAPITAL \ LETTER \ Y \ WITH \ HOOK \ ABOVE} \\
\texttt{1EF7} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ Y \ WITH \ HOOK \ ABOVE} \\
\texttt{1EF8} \texttt{;} \texttt{DISALLOWED} \ # \texttt{LATIN \ CAPITAL \ LETTER \ Y \ WITH \ TILDE} \\
\texttt{1EF9} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ Y \ WITH \ TILDE} \\
\texttt{1EFA} \texttt{;} \texttt{DISALLOWED} \ # \texttt{LATIN \ CAPITAL \ LETTER \ MIDDLE-WELSH \ LL} \\
\texttt{1EFB} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ MIDDLE-WELSH \ LL} \\
\texttt{1EFC} \texttt{;} \texttt{DISALLOWED} \ # \texttt{LATIN \ CAPITAL \ LETTER \ MIDDLE-WELSH \ V} \\
\texttt{1EFD} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ MIDDLE-WELSH \ V} \\
\texttt{1EFE} \texttt{;} \texttt{DISALLOWED} \ # \texttt{LATIN \ CAPITAL \ LETTER \ Y \ WITH \ LOOP} \\
\texttt{1EFF..1F07} \texttt{;} \texttt{PVALID} \ # \texttt{LATIN \ SMALL \ LETTER \ Y \ WITH \ LOOP..GREEK \ SMALL} \\
\texttt{1F08..1F0F} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ ALPHA \ WITH \ PSILI..GREEK} \\
\texttt{1F10..1F15} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ EPSILON \ WITH \ PSILI..GREEK} \\
\texttt{1F16..1F17} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>..<reserved>} \\
\texttt{1F18..1F1D} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ EPSILON \ WITH \ PSILI..GRE} \\
\texttt{1F1E..1F1F} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>..<reserved>} \\
\texttt{1F20..1F27} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ ETA \ WITH \ PSILI..GREEK \ S} \\
\texttt{1F28..1F2F} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ ETA \ WITH \ PSILI..GREEK \ C} \\
\texttt{1F30..1F37} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ IOTA \ WITH \ PSILI..GREEK \ S} \\
\texttt{1F38..1F3F} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ IOTA \ WITH \ PSILI..GREEK} \\
\texttt{1F40..1F45} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ OMICRON \ WITH \ PSILI..GREEK} \\
\texttt{1F46..1F47} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>..<reserved>} \\
\texttt{1F48..1F4D} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ OMICRON \ WITH \ PSILI..GRE} \\
\texttt{1F4E..1F4F} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>..<reserved>} \\
\texttt{1F50..1F57} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ UPSILON \ WITH \ PSILI..GREEK} \\
\texttt{1F58} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>} \\
\texttt{1F59} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ UPSILON \ WITH \ DASIA} \\
\texttt{1F5A} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>} \\
\texttt{1F5B} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ UPSILON \ WITH \ DASIA \ AND} \\
\texttt{1F5C} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>} \\
\texttt{1F5D} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ UPSILON \ WITH \ DASIA \ AND} \\
\texttt{1F5E} \texttt{;} \texttt{UNASSIGNED} \ # \texttt{<reserved>} \\
\texttt{1F5F} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ UPSILON \ WITH \ DASIA \ AND} \\
\texttt{1F60..1F67} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ OMEGA \ WITH \ PSILI..GREEK \ S} \\
\texttt{1F68..1F6F} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ CAPITAL \ LETTER \ OMEGA \ WITH \ PSILI..GREEK} \\
\texttt{1F70} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ ALPHA \ WITH \ VARIA} \\
\texttt{1F71} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ SMALL \ LETTER \ ALPHA \ WITH \ OXIA} \\
\texttt{1F72} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ EPSILON \ WITH \ VARIA} \\
\texttt{1F73} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ SMALL \ LETTER \ EPSILON \ WITH \ OxIA} \\
\texttt{1F74} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ ETA \ WITH \ VARIA} \\
\texttt{1F75} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ SMALL \ LETTER \ ETA \ WITH \ OXIA} \\
\texttt{1F76} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ IOTA \ WITH \ VARIA} \\
\texttt{1F77} \texttt{;} \texttt{DISALLOWED} \ # \texttt{GREEK \ SMALL \ LETTER \ IOTA \ WITH \ OXIA} \\
\texttt{1F78} \texttt{;} \texttt{PVALID} \ # \texttt{GREEK \ SMALL \ LETTER \ OMECIRON \ WITH \ VARIA}
1F79 ; DISALLOWED # GREEK SMALL LETTER OMICRON WITH OXIA
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
1F7E..1F7F ; UNASSIGNED # <reserved>..<reserved>
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..GREEK
1FE3 ; DISALLOWED # GREEK SMALL LETTER UPSILON WITH DIALYTIKA AN
1FE4..1FE7 ; PVALID # GREEK SMALL LETTER RHO WITH PSILI..GREEK SMA
1FE8..1FEE ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH VRACHY..GR
1FF0..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
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2B76..2B95  ; DISALLOWED # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
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2B98..2BC8  ; DISALLOWED # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
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2BCA..2BFF  ; DISALLOWED # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
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2C62..2C66  ; DISALLOWED # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LATIN SMALL
2C67  ; PVALID # LATIN SMALL LETTER A WITH STROKE..LATIN SMALL
2C68  ; PVALID # LATIN SMALL LETTER H WITH DESCENDER
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<td>LATIN SMALL LETTER THORN WITH STROKE THROUGH</td>
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<td>A768</td>
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<td>LATIN CAPITAL LETTER VEND</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER ET</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER IS</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER CON</td>
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<td>DISALLOWED</td>
<td>MODIFIER LETTER US</td>
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<td>A771..A778</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER DUM..LATIN SMALL LETTER U</td>
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<td>A779</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER INSULAR D</td>
</tr>
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<td>LATIN SMALL LETTER INSULAR D</td>
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<td>LATIN CAPITAL LETTER INSULAR F</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER INSULAR F</td>
</tr>
<tr>
<td>A77D..A77E</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER INSULAR G..LATIN CAPITAL</td>
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<td>A77F</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER TURNED INSULAR G</td>
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<td>LATIN CAPITAL LETTER TURNED L</td>
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<td>LATIN SMALL LETTER TURNED L</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER INSULAR T..MODIFIER LETTE</td>
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<td>A789..A78B</td>
<td>DISALLOWED</td>
<td>MODIFIER LETTER COLON..LATIN CAPITAL LETTER</td>
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<td>LATIN SMALL LETTER L WITH RETROFLEX HOOK AND</td>
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<td>LATIN SMALL LETTER N WITH DESCENDER</td>
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<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER C WITH BAR</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER C WITH BAR..LATIN SMALL L</td>
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<td>LATIN CAPITAL LETTER B WITH FLOURISH</td>
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<td>LATIN SMALL LETTER B WITH FLOURISH</td>
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<td>LATIN CAPITAL LETTER VOLAPUK AE</td>
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<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER G WITH OBLIQUE STROKE</td>
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<td>A7A1</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER G WITH OBLIQUE STROKE</td>
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A7A2        ; DISALLOWED  # LATIN CAPITAL LETTER K WITH OBLIQUE STROKE
A7A3        ; PVALID   # LATIN SMALL LETTER K WITH OBLIQUE STROKE
A7A4        ; DISALLOWED  # LATIN CAPITAL LETTER N WITH OBLIQUE STROKE
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
A7AF        ; PVALID   # LATIN LETTER SMALL CAPITAL Q
A7B0..A7B4  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL
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..MODIF
A7FA..A827  ; PVALID   # LATIN LETTER SMALL CAPITAL TURNED M..SYLOTI
A828..A82B  ; DISALLOWED  # SYLOTI NAGRI POETRY MARK-1..SYLOTI NAGRI POE
A82C..A82F  ; UNASSIGNED  # <reserved>..<reserved>
A830..A839  ; DISALLOWED  # NORTH INDIC FRACTION ONE QUARTER..NORTH INDI
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 CA
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
A8F8..A8FA  ; DISALLOWED  # DEVANAGARI SIGN PUSHPIKA..DEVANAGARI CARET
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 CWI..KAYAH LI SIGN SHYA
A930..A953  ; PVALID   # REJANG LETTER KA..REJANG VIRAMA
A954..A95E  ; UNASSIGNED  # <reserved>..<reserved>
A95F..A97C  ; DISALLOWED  # REJANG SECTION MARK..HANGUL CHOSEONG SSANGYE
A97D..A97F  ; UNASSIGNED  # <reserved>..<reserved>
A980..A9C0  ; PVALID   # JAVANESE SIGN PANYANGGA..JAVANESE PANGKON
A9C1..A9CD  ; DISALLOWED  # JAVANESE LEFT RERENGGAN..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 # TAM LET 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..AA82 ; PVALID # MYANMAR LETTER AITON RA..TAI VIET TONE MAI S
AAC3..AADA ; UNASSIGNED # <reserved>..<reserved>
AADB..ADD ; PVALID # TAI VIET SYMBOL KON..TAI VIET SYMBOL SAM
AADE..AADF ; DISALLOWED # TAI VIET SYMBOL HO HOI..TAI VIET SYMBOL KOI
AAE0..AAEF ; PVALID # MEETEI MAYEK LETTER E..MEETEI MAYEK VOWEL SI
AAF0..A1F1 ; UNASSIGNED # <reserved>..<reserved>
A201..A206 ; PVALID # ETHIOPIAN SYLLABLE TTHU..ETHIOPIAN SYLLABLE TT
A207..A208 ; UNASSIGNED # <reserved>..<reserved>
A209..A20E ; PVALID # ETHIOPIAN SYLLABLE DDHU..ETHIOPIAN SYLLABLE DD
A20F..A210 ; UNASSIGNED # <reserved>..<reserved>
A211..A218 ; PVALID # ETHIOPIAN SYLLABLE DZU..ETHIOPIAN SYLLABLE DZO
A217..A21F ; UNASSIGNED # <reserved>..<reserved>
A220..A226 ; PVALID # ETHIOPIAN SYLLABLE CCHHA..ETHIOPIAN SYLLABLE C
A227 ; UNASSIGNED # <reserved>
A228..A22E ; PVALID # ETHIOPIAN SYLLABLE BBA..ETHIOPIAN SYLLABLE BBO
A22F ; UNASSIGNED # <reserved>
A230..A25A ; PVALID # LATIN SMALL LETTER BARRED ALPHA..LATIN SMALL
A25B..A25F ; DISALLOWED # MODIFIER BREVE WITH INVERTED BREVE..MODIFIER
A260..A265 ; PVALID # LATIN SMALL LETTER SAKHA YAT..GREEK LETTER S
A266..A26F ; UNASSIGNED # <reserved>..<reserved>
A270..A2BF ; DISALLOWED # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT
ABC0..ABEA ; PVALID # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL
ABEB ; DISALLOWED # MEETEI MAYEK CHEIKHEI
ABELC..ABED ; PVALID # MEETEI MAYEK LUM IYEK..MEETEI MAYEK APUN IYE
ABEE..ABEF ; UNASSIGNED # <reserved>..<reserved>
ABF0..ABF9 ; PVALID # MEETEI MAYEK DIGIT ZERO..MEETEI MAYEK DIGIT
ABFA..ABFF ; UNASSIGNED # <reserved>..<reserved>
AC00..D7A3 ; PVALID # <Hangul Syllable>..<Hangul Syllable>
D7A4..D7AF ; UNASSIGNED # <reserved>..<reserved>
D7B0..D7C6 ; DISALLOWED # HANGUL JUNGSEONG O-YEO..HANGUL JUNGSEONG ARA
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..FAFF ; UNASSIGNED # <reserved>..<reserved>
FB00..FB06 ; DISALLOWED # LATIN SMALL LIGATURE FF..LATIN SMALL LIGATURE
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 VARIKA
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..FBCC ; DISALLOWED # HEBREW LETTER TSADI WITH DAGESH..ARABIC SYMB
FBC2..FBD2 ; UNASSIGNED # <reserved>..<reserved>
FBD3..FD3F ; DISALLOWED # ARABIC LETTER NG ISOLATED FORM..ORNATE SYMB
FD40..FD4F ; UNASSIGNED # <reserved>..<reserved>
FD50..FD8F ; DISALLOWED # ARABIC LIGATURE TEH WITH JEEM WITH MEEM INIT
FD90..FD91 ; UNASSIGNED # <reserved>..<reserved>
FD92..FDCC ; DISALLOWED # ARABIC LIGATURE MEEM WITH JEEM WITH KHAH INIT
FDC8..FDCF ; UNASSIGNED # <reserved>..<reserved>
FDDE..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
FE67  ; UNASSIGNED  # <reserved>
FE68..FE6B  ; DISALLOWED  # SMALL REVERSE SOLIDUS..SMALL COMMERCIAL AT
FE6C..FE6F  ; UNASSIGNED  # <reserved>..<reserved>
FE70..FE72  ; DISALLOWED  # ARABIC FATHATAN ISOLATED FORM..ARABIC DAMMAT
FE73  ; PVALID  # ARABIC TAIL FRAGMENT
FE74  ; DISALLOWED  # ARABIC KASRATAN ISOLATED FORM
FE75  ; UNASSIGNED  # <reserved>
FE76..FEFC  ; DISALLOWED  # ARABIC FATHA ISOLATED FORM..ARABIC LIGATURE
FEFD..FEFE  ; UNASSIGNED  # <reserved>..<reserved>
FEFF  ; DISALLOWED  # ZERO WIDTH NO-BREAK SPACE
FF00  ; UNASSIGNED  # <reserved>
FF01..FFBE  ; DISALLOWED  # FULLWIDTH EXCLAMATION MARK..HALFWIDTH HANGUL
FFBF..FFC1  ; UNASSIGNED  # <reserved>..<reserved>
FFC2..FFC7  ; DISALLOWED  # HALFWIDTH HANGUL LETTER A..HALFWIDTH HANGUL
FFC8..FFC9  ; UNASSIGNED  # <reserved>..<reserved>
FFCA..FFCF  ; DISALLOWED  # HALFWIDTH HANGUL LETTER YEO..HALFWIDTH HANGUL
FFD0..FFD1  ; UNASSIGNED  # <reserved>..<reserved>
FFD2..FFD7  ; DISALLOWED  # HALFWIDTH HANGUL LETTER YO..HALFWIDTH HANGUL
FFD8..FFD9  ; UNASSIGNED  # <reserved>..<reserved>
FFDA..FFDC  ; DISALLOWED  # HALFWIDTH HANGUL LETTER EU..HALFWIDTH HANGUL
FFDD..FFDF  ; UNASSIGNED  # <reserved>..<reserved>
FFE0..FFE6  ; DISALLOWED  # FULLWIDTH CENT SIGN..FULLWIDTH WON SIGN
FFE7  ; UNASSIGNED  # <reserved>
FFE8..FFEE  ; DISALLOWED  # HALFWIDTH FORMS LIGHT VERTICAL..HALFWIDTH WH
FFEF..FFFF  ; UNASSIGNED  # <reserved>..<reserved>
FFF8..FFFF  ; DISALLOWED  # INTERLINEAR ANNOTATION ANCHOR..<noncharacter
10000..1000B; PVALID  # LINEAR B SYLLABLE B008 A..LINEAR B SYLLABLE
1000C  ; UNASSIGNED  # <reserved>
1000D..10026; PVALID  # LINEAR B SYLLABLE B036 JO..LINEAR B SYLLABLE
10027  ; UNASSIGNED  # <reserved>
10028..1003A; PVALID  # LINEAR B SYLLABLE B060 RA..LINEAR B SYLLABLE
1003B  ; UNASSIGNED  # <reserved>
1003C..1003D; PVALID  # LINEAR B SYLLABLE B017 ZA..LINEAR B SYLLABLE
1003E  ; UNASSIGNED  # <reserved>
1003F..1004D; PVALID  # LINEAR B SYLLABLE B020 ZO..LINEAR B SYLLABLE
1004E..1004F; UNASSIGNED  # <reserved>..<reserved>
10050..1005D; PVALID  # LINEAR B SYMBOL B018..LINEAR B SYMBOL B089
1005E..1007F; UNASSIGNED  # <reserved>..<reserved>
10080..100FA; PVALID  # LINEAR B IDEOGRAPH B100 MAN..LINEAR B IDEOGRAPH
100FB..100FF; UNASSIGNED  # <reserved>..<reserved>
10100..10102; DISALLOWED  # AEGEAN WORD SEPARATOR LINE..AEGEAN CHECK MAR
10103..10106; UNASSIGNED  # <reserved>..<reserved>
10107..10133; DISALLOWED  # AEGEAN NUMBER ONE..AEGEAN NUMBER NINETY THOU
10134..10136; UNASSIGNED  # <reserved>..<reserved>
10137..1018E; DISALLOWED  # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
1018F  ; UNASSIGNED  # <reserved>
10190..1019B; DISALLOWED  # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN
1019C..1019F; UNASSIGNED  # <reserved>..<reserved>
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..102D2F; UNASSIGNED # <reserved>..<reserved>
102E0 ; PVALID # COPTIC EPACT THOUSANDS MARK
102E1..102FB; DISALLOWED # COPTIC EPACT DIGIT ONE..COPTIC EPACT NUMBER
102FC..102FF; UNASSIGNED # <reserved>..<reserved>
10300..1031F; PVALID # OLD ITALIC LETTER A..OLD ITALIC LETTER ESS
10320..1032C; DISALLOWED # OLD ITALIC NUMERAL ONE..OLD ITALIC NUMERAL F
10324..1032F; UNASSIGNED # <reserved>..<reserved>
10330..10340; PVALID # OLD ITALIC LETTER YE..GOTHIC LETTER PAIRTHRA
10341 ; DISALLOWED # GOTHIC LETTER NINETY
10342..1034F; PVALID # GOTHIC LETTER RAID..GOTHIC LETTER OTHAL
1034A ; DISALLOWED # GOTHIC LETTER NINE HUNDRED
10350..10373; PVALID # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L
10374..1037F; UNASSIGNED # <reserved>..<reserved>
10380..1039F; PVALID # UGARITIC LETTER ALPA..UGARITIC LETTER SSU
1039E ; UNASSIGNED # <reserved>
1039F ; DISALLOWED # UGARITIC WORD DIVIDER
103A0..103C3; PVALID # OLD PERSIAN SIGN A..OLD PERSIAN SIGN HA
103C4..103C7; UNASSIGNED # <reserved>..<reserved>
103C8..103CF; PVALID # OLD PERSIAN SIGN AURAMAIZDA..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..1049D; PVALID # DESERET SMALL LETTER LONG I..OSMANYA LETTER
1049E..1049F; UNASSIGNED # <reserved>..<reserved>
104A0..104A9; 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>
104D8..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..1052F; UNASSIGNED # <reserved>..<reserved>
10530..10563; PVALID # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
10564..10566; UNASSIGNED # <reserved>..<reserved>
1056F ; DISALLOWED # CAUCASIAN ALBANIAN CITATION MARK
10570..1057F; UNASSIGNED # <reserved>..<reserved>
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10737..1073F; UNASSIGNED # <reserved>..<reserved>
10740..10755; PVALID # LINEAR A SIGN A701 A..LINEAR A SIGN A732 J
10756..1075F; UNASSIGNED # <reserved>..<reserved>
10760..10767; PVALID # LINEAR A SIGN A800..LINEAR A SIGN A807
10768..1077F; UNASSIGNED # <reserved>..<reserved>
10800..10807; PVALID # CYPRIOIT SYLLABLE A..CYPRIOIT SYLLABLE JA
10806..10807; UNASSIGNED # <reserved>..<reserved>
10808 ; PVALID # CYPRIOIT SYLLABLE JO
10809 ; UNASSIGNED # <reserved>
1080A..10835; PVALID # CYPRIOIT SYLLABLE KA..CYPRIOIT SYLLABLE WO
10836 ; UNASSIGNED # <reserved>
10837..1083B; PVALID # CYPRIOIT SYLLABLE KA..CYPRIOIT SYLLABLE XE
10839..1083B; UNASSIGNED # <reserved>..<reserved>
1083C ; PVALID # CYPRIOIT SYLLABLE ZA
1083D..1083E; UNASSIGNED # <reserved>..<reserved>
1083F..10855; PVALID # CYPRIOIT SYLLABLE ZO..IMPERIAL ARAMAIC LETTER
10856 ; UNASSIGNED # <reserved>
10857..1085F; DISALLOWED # IMPERIAL ARAMAIC SECTION SIGN..IMPERIAL ARAM
10860..10867; PVALID # PALMYRENE LETTER ALEPH..PALMYRENE LETTER TAW
10877..1087F; DISALLOWED # PALMYRENE LEFT-POINTING FLEURON..PALMYRENE N
10880..1088E; PVALID # NABATAEAN LETTER FINAL ALEPH..NABATAEAN LETT
1089F..108A6; UNASSIGNED # <reserved>..<reserved>
108A7..108AF; DISALLOWED # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
108B0..108D9; UNASSIGNED # <reserved>..<reserved>
108E0..108F2; PVALID # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F3 ; UNASSIGNED # <reserved>
108F4..108F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
108F6..108FA; UNASSIGNED # <reserved>..<reserved>
108FB..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
10900..10915; PVALID # PHOENICIAN LETTER ALEPH..PHOENICIAN LETTER TAU
10916..1091B; DISALLOWED # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR
1091C..1091E; UNASSIGNED # <reserved>..<reserved>
1091F ; DISALLOWED # PHOENICIAN WORD SEPARATOR
10920..10939; PVALID # LYDIAN LETTER A..LYDIAN LETTER C
1093A..1093E; UNASSIGNED # <reserved>..<reserved>
1093F ; DISALLOWED # LYDIAN TRIANGULAR MARK
10940..1097F; UNASSIGNED # <reserved>..<reserved>
10980..109B7; PVALID # MEROITIC HIEROGLYPHIC LETTER A..MEROITIC CUR
10988..109BB; UNASSIGNED # <reserved>..<reserved>
109BC..109BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
109BE..109BF; PVALID # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
109C0..109CF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIV
109D0..109D1; UNASSIGNED # <reserved>..<reserved>
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI
10A00..10A03; PVALID # KHAROSHTHI LETTER A..KHAROSHTHI VOWEL SIGN V
10A04 ; UNASSIGNED # <reserved>
10A05..10A06; PVALID # KHAROSHTHI VOWEL SIGN E..KHAROSHTHI VOWEL SI
10A07..10A0B; UNASSIGNED # <reserved>..<reserved>
10A0C..10A13; PVALID # KHAROSHTHI VOWEL LENGTH MARK..KHAROSHTHI LET
10A14 ; UNASSIGNED # <reserved>
10A15..10A17; PVALID # KHAROSHTHI LETTER CA..KHAROSHTHI LETTER JA
10A18; UNASSIGNED # <reserved>
10A19..10A35; PVALID # KHAROSHTHI LETTER NYA..KHAROSHTHI LETTER VHA
10A36..10A37; UNASSIGNED # <reserved>..<reserved>
10A38..10A3A; PVALID # KHAROSHTHI SIGN BAR ABOVE..KHAROSHTHI SIGN D
10A3B..10A3E; UNASSIGNED # <reserved>..<reserved>
10A3F; PVALID # KHAROSHTHI VIRAMA
10A40..10A48; DISALLOWED # KHAROSHTHI DIGIT ONE..KHAROSHTHI FRACTION ON
10A49..10A4F; UNASSIGNED # <reserved>..<reserved>
10A50..10A58; DISALLOWED # KHAROSHTHI PUNCTUATION DOT..KHAROSHTHI PUNCT
10A59..10A5F; UNASSIGNED # <reserved>..<reserved>
10A60..10A6C; 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..10ABF; 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..10AE9; UNASSIGNED # <reserved>..<reserved>
10AEB..10AFF; DISALLOWED # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATION
10AF7..10AFF; 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..10B72; PVALID # INSCRIPTIONAL PAHLAVI LETTER ALEPH..INSCRIPT
10B73..10B77; UNASSIGNED # <reserved>..<reserved>
10B78..10B7F; DISALLOWED # INSCRIPTIONAL PAHLAVI NUMBER ONE..INSCRIPTI
10B80..10B91; PVALID # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10B92..10B98; UNASSIGNED # <reserved>..<reserved>
10B99..10B9F; DISALLOWED # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10BA0..10BA8; UNASSIGNED # <reserved>..<reserved>
10BA9..10BFF; DISALLOWED # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAV
10BB0..10BFF; UNASSIGNED # <reserved>..<reserved>
10C00..10C48; PVALID # OLD TURKIC LETTER ORKHON A..OLD TURKIC LETTE
10C49..10C7F; UNASSIGNED # <reserved>..<reserved>
10C80..10C82; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
10C83..10CFF; UNASSIGNED # <reserved>..<reserved>
10CC0..10CC2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CF3..10CF9; UNASSIGNED # <reserved>..<reserved>
10CFA..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>
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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    ; PVALID  # OLD SOGDIAN LIGATURE AYIN-DALETH
10F28..10F2F; UNASSIGNED # <reserved>..<reserved>
10F30..10F50; PVALID  # SOGDIAN LETTER ALEPH..SOGDIAN COMBINING STRO
10F51..10F59; DISALLOWED # SOGDIAN NUMBER ONE..SOGDIAN PUNCTUATION HALF
10F5A..10FFF; 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..110EB; 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    ; PVALID  # 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  # KHOJKI LETTER A..KHOJKI LETTER JJA
11212    ; UNASSIGNED # <reserved>
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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..1157F; UNASSIGNED # <reserved>..<reserved>
11580..115B5; PVALID  # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B6..115B7; UNASSIGNED # <reserved>..<reserved>
115B8..115C0; PVALID  # SIDDHAM VOWEL SIGN E..SIDDHAM SIGN NUKTA
115C1..115D7; DISALLOWED # SIDDHAM SIGN SIDDHAM..SIDDHAM SECTION MARK W
115D8..115D9; PVALID  # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SID
115DE..115FF; UNASSIGNED # <reserved>..<reserved>
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..1166F; UNASSIGNED # <reserved>..<reserved>
11680..116B7; 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>
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1171B..1171C; UNASSIGNED # <reserved>..<reserved>
1171D..1171F; 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 SYMBOL VI
11740..1177F; 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 CITHI CAPITAL LETTER NGAA..WARANG CITHI
118C0..118E9; PVALID  # WARANG CITHI SMALL LETTER NGAA..WARANG CITHI D
118EA..118F2; DISALLOWED # WARANG CITHI NUMBER TEN..WARANG CITHI 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..11BFF; UNASSIGNED  # <reserved>..<reserved>
11C00..11C08; PVALID  # BHAIK SUKI LETTER A..BHAIK SUKI LETTER VOCALIC
11C09 ; UNASSIGNED  # <reserved>
11C0A..11C36; PVALID  # BHAIK SUKI LETTER E..BHAIK SUKI VOWEL SIGN VOC
11C37 ; UNASSIGNED  # <reserved>
11C38..11C40; PVALID  # BHAIK SUKI VOWEL SIGN E..BHAIK SUKI SIGN AVAGR
11C41..11C45; DISALLOWED  # BHAIK SUKI DANDA..BHAIK SUKI GAP FILLER-2
11C46..11C4F; UNASSIGNED  # <reserved>..<reserved>
11C50..11C59; PVALID  # BHAIK SUKI Digit zero ..BHAIK SUKI Digit nine
11C5A..11C6C; DISALLOWED  # BHAIK SUKI NUMBER ONE..BHAIK SUKI 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
11C9A ; 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 LETTER
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>
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11D67..11D68; PVALID  # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
11D69; UNASSIGNED # <reserved>
11D6A..11D8E; PVALID  # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D8F; UNASSIGNED # <reserved>
11D90..11D91; PVALID  # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI VOWEL
11D99..11D9A; PVALID  # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGIT
11DAA..11E6F; UNASSIGNED # <reserved>..<reserved>
11EE0..11E6F; PVALID  # MAKASAR LETTER KA..MAKASAR VOWEL SIGN O
11EF7..11E6F; DISALLOWED # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11E9F..11EFF; UNASSIGNED # <reserved>..<reserved>
12000..12399; PVALID  # CUNEIFORM SIGN A..CUNEIFORM SIGN U..U
1239A..123FF; UNASSIGNED # <reserved>..<reserved>
12400..1246E; DISALLOWED # CUNEIFORM NUMERIC SIGN TWO ASH..CUNEIFORM NUMERIC SIGN TWO ASH
1246F; UNASSIGNED # <reserved>
12470..1247F; UNASSIGNED # <reserved>..<reserved>
12480..12543; PVALID  # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM SIGN AB TIMES NUN TENU
12544..12FFF; UNASSIGNED # <reserved>..<reserved>
13000..1342E; PVALID  # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYPH A001
1342F..143FF; UNASSIGNED # <reserved>..<reserved>
14400..14545; PVALID  # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGLYPH A001
14647..167FF; UNASSIGNED # <reserved>..<reserved>
16800..16A3F; PVALID  # BAMBUM LETTER PHASE-A NGKUE MFON..BAMUM LETTER PHASE-A NGKUE MFON
16A39..16A3F; UNASSIGNED # <reserved>..<reserved>
16A40..16A5F; PVALID  # MRO LETTER TA..MRO LETTER TEK
16A5F; UNASSIGNED # <reserved>
16A60..16A69; PVALID  # MRO DIGIT ZERO..MRO DIGIT NINE
16A6A..16A6F; UNASSIGNED # <reserved>..<reserved>
16A66..16A6F; DISALLOWED # MRO DANDA..MRO DOUBLE DANDA
16A70..16A7F; UNASSIGNED # <reserved>..<reserved>
16A80..16A8F; PVALID  # BASSA VAH LETTER ENNI..BASSA VAH LETTER ENNI
16A8E..16A9F; UNASSIGNED # <reserved>..<reserved>
16A9F0..16A9F4; PVALID  # BASSA VAH COMBINING HIGH TONE..BASSA VAH COMBINING HIGH TONE
16A9F5; DISALLOWED # BASSA VAH FULL STOP
16A9F6..16A9F7; UNASSIGNED # <reserved>..<reserved>
16B00..16B3F; PVALID  # PAHAWH Hmong Vowel KEEB..PAHAWH Hmong Mark C
16B37..16B3F; DISALLOWED # PAHAWH Hmong Sign VOS THOM..PAHAWH Hmong Sign VOS THOM
16B40..16B43; PVALID  # PAHAWH Hmong Sign VOS SEEV..PAHAWH Hmong Sign VOS SEEV
16B44..16B45; DISALLOWED # PAHAWH Hmong Sign XAUS..PAHAWH Hmong Sign XAUS
16B46..16B4F; UNASSIGNED # <reserved>..<reserved>
16B50..16B59; PVALID  # PAHAWH Hmong Digit ZERO..PAHAWH Hmong Digit ZERO
16B5A; UNASSIGNED # <reserved>
16B5B..16B5F; DISALLOWED # PAHAWH Hmong Number Tens..PAHAWH Hmong Number Tens
16B62; UNASSIGNED # <reserved>
16B63..16B77; PVALID  # PAHAWH Hmong Sign VOS LUB..PAHAWH Hmong Sign VOS LUB
16B78..16B7C; UNASSIGNED  # <reserved>..<reserved>
16B7D..16B8F; PVALID  # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
16B90..16B9F; UNASSIGNED  # <reserved>..<reserved>
16E40..16E5F; DISALLOWED  # MEDENFAIDRIN CAPITAL LETTER M..MEDENFAIDRIN CA
16E60..16E67; PVALID  # MEDENFAIDRIN SMALL LETTER M..MEDENFAIDRIN SMAL
16E80..16E9A; DISALLOWED  # MEDENFAIDRIN DIGIT ZERO..MEDENFAIDRIN EXCLAMAT
16E9B..16EFF; UNASSIGNED  # <reserved>..<reserved>
16F00..16F44; PVALID  # MIAO LETTER PA..MIAO LETTER HHA
16F45..16F4F; UNASSIGNED  # <reserved>..<reserved>
16F50..16F7E; PVALID  # MIAO LETTER NASALIZATION..MIAO VOWEL SIGN NG
16F80..16F8F; PVALID  # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
16F90..16FDF; UNASSIGNED  # <reserved>..<reserved>
17000..1707F; PVALID  # TANGUT ITERATION MARK..NUSHU ITERATION MARK
18800..18AFC; PVALID  # TANGUT COMPONENT-001..TANGUT COMPONENT-755
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC70..1BC7F; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLO
1BC80..1BC8F; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HI
1BC90..1BC9F; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
1BC99; DISALLOWED  # DUPLOYAN SIGN O WITH CROSS
1BC9D..1BC9F; PVALID  # DUPLOYAN THICK LETTER SELECTOR..DUPLOYAN DOU
1BC9F..1BCA3; DISALLOWED  # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..SHOR
1B9A4..1B9FF; UNASSIGNED  # <reserved>..<reserved>
1D000..1D0F5; DISALLOWED  # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE MU
1D0F6..1D0FF; UNASSIGNED  # <reserved>..<reserved>
1D100..1D126; DISALLOWED  # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMBO
1D127..1D128; UNASSIGNED  # <reserved>..<reserved>
1D129..1D12E; DISALLOWED  # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICA
1D1E9..1D1FF; UNASSIGNED  # <reserved>..<reserved>
1D200..1D245; DISALLOWED  # GREEK VOCAL NOTATION SYMBOL-1..GREEK MUSICAL
1D246..1D2FF; UNASSIGNED  # <reserved>..<reserved>
1D2E0..1D2F3; DISALLOWED  # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D2F4..1D2FF; UNASSIGNED  # <reserved>..<reserved>
1D300..1D35F; DISALLOWED  # MONOGRAM FOR EARTH..TETRAGRAM FOR FOSTERING
1D35F..1D36F; UNASSIGNED  # <reserved>..<reserved>
1D360..1D378; DISALLOWED  # COUNTING ROD UNIT DIGIT ONE..TALLY MARK FIVE
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1DA85..1DA8B; DISALLOWED # SIGNWRITING LOCATION TORSO..SIGNWRITING PARE
1DA8C..1DA9A; UNASSIGNED # <reserved>..<reserved>
1DA9B..1DA9F; PVALID # SIGNWRITING FILL MODIFIER-2..SIGNWRITING FIL
1DA90 ; UNASSIGNED # <reserved>
1DAA1..1DAAF; PVALID # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING
1DAB0..1DFF; UNASSIGNED # <reserved>..<reserved>
1E000..1E006; PVALID # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E007 ; UNASSIGNED # <reserved>
1E008..1E01B; PVALID # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBININ
1E019..1E01A; UNASSIGNED # <reserved>..<reserved>
1E01B..1E021; PVALID # COMBINING GLAGOLITIC LETTER SHTA..COMBINING
1E022 ; UNASSIGNED # <reserved>
1E023..1E024; PVALID # COMBINING GLAGOLITIC LETTER YU..COMBINING GL
1E025 ; UNASSIGNED # <reserved>
1E026..1E02A; PVALID # COMBINING GLAGOLITIC LETTER YO..COMBINING GL
1E02B..1E07F; UNASSIGNED # <reserved>..<reserved>
1E080..1E084; PVALID # MENDE KIKAKUI SYLLABLE M001 KI..MENDE KIKAKU
1E085..1E086; UNASSIGNED # <reserved>..<reserved>
1E087..1E09F; DISALLOWED # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI DIGIT
1E090..1E096; PVALID # MENDE KIKAKUI COMBINING NUMBER TEENS..MENDE
1E097..1E09F; UNASSIGNED # <reserved>..<reserved>
1E0A0 ; UNASSIGNED # <reserved>
1E0A1..1E0A5; DISALLOWED # MENDE KIKAKUI EXCLAMATION MARK..MENDE KIKAKU
1E0A6..1E0B1; PVALID # MENDE KIKAKUI ALTERNATE..MENDE KIKAKU ALTERNAT
1E0B2..1E0B6; UNASSIGNED # <reserved>..<reserved>
1E0B7..1E0B8; DISALLOWED # MENDE KIKAKUI INITIAL EXCLAMATION MARK..MENDE
1E0B9..1E0C0; PVALID # MENDE KIKAKUI ALTERNATE..MENDE KIKAKU ALTERNAT
1E0C1..1E0D0; UNASSIGNED # <reserved>..<reserved>
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1E0D6..1E0E0; PVALID # ARABIC MATHEMATICAL WAW..ARABIC MATHEMATICAL
1E0E1..1E0E5; UNASSIGNED # <reserved>
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1E0F1..1E0F5; UNASSIGNED # <reserved>
1E0F6..1E0F9; DISALLOWED # ARABIC MATHEMATICAL INITIAL BEH..ARABIC MATH
1E0FA..1E101; UNASSIGNED # <reserved>
1E102..1E104; DISALLOWED # ARABIC MATHEMATICAL Initial HEH
1E105..1E10B; UNASSIGNED # <reserved>..<reserved>
1E10C..1E10E; DISALLOWED # ARABIC MATHEMATICAL INITIAL HAH
1E10F..1E111; UNASSIGNED # <reserved>
1E112..1E114; DISALLOWED # ARABIC MATHEMATICAL INITIAL YEH..ARABIC MATH
1E115..1E119; UNASSIGNED # <reserved>
1E11A..1E11C; DISALLOWED # ARABIC MATHEMATICAL INITIAL SHEEN..ARABIC MA
1E11D..1E121; UNASSIGNED # <reserved>
1E122..1E124; DISALLOWED # ARABIC MATHEMATICAL INITIAL DAD
1E125..1E127; UNASSIGNED # <reserved>..<reserved>
1E128..1E12A; DISALLOWED # ARABIC MATHEMATICAL INITIAL GHAIN
1E12B..1E12D; UNASSIGNED # <reserved>..<reserved>
1E12E..1E130; DISALLOWED # ARABIC MATHEMATICAL INITIAL YEH..ARABIC MATH
1E131..1E133; UNASSIGNED # <reserved>..<reserved>
1E134..1E136; DISALLOWED # ARABIC MATHEMATICAL INITIAL SHEEN..ARABIC MA
1E137..1E139; UNASSIGNED # <reserved>..<reserved>
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1EE51..1EE52; DISALLOWED # ARABIC MATHEMATICAL TAILED SAD..ARABIC MATHE
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1EE6B  ; UNASSIGNED # <reserved>
1EE6C..1EE72; DISALLOWED # ARABIC MATHEMATICAL STRETCHED MEEM..ARABIC M
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1EE7E  ; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DOTLESS FEH
1EE7F  ; UNASSIGNED # <reserved>
1EE80..1EE89; DISALLOWED # ARABIC MATHEMATICAL LOOPED ALEF..ARABIC MATH
1EE8A  ; UNASSIGNED # <reserved>
1EE8B..1EE9B; DISALLOWED # ARABIC MATHEMATICAL LOOPED LAM..ARABIC MATHE
1EE9C..1EEA0; UNASSIGNED # <reserved>..<reserved>
1EEA1..1EEA3; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK BEH..ARAB
1EEA4  ; UNASSIGNED # <reserved>
1EEA5..1EEA9; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK WAW..ARABI
1EEAA  ; UNASSIGNED # <reserved>
1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
1EEBC..1EEEF; UNASSIGNED  # <reserved>..<reserved>
1EEF0..1EEF1; DISALLOWED  # ARABIC MATHEMATICAL OPERATOR MEEM WITH HAH W
1EEF2..1EEFF; UNASSIGNED  # <reserved>..<reserved>
1F000..1F02B; DISALLOWED  # MAHJONG TILE EAST WIND..MAHJONG TILE BACK
1F02C..1F02F; UNASSIGNED  # <reserved>..<reserved>
1F030..1F093; DISALLOWED  # DOMINO TILE HORIZONTAL BACK..DOMINO TILE VER
1F094..1F099; UNASSIGNED  # <reserved>..<reserved>
1F0A0..1F0AF; DISALLOWED  # PLAYING CARD BACK..PLAYING CARD KING OF SPADE
1F0AF..1F0B0; 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 BLACK
1F0D0 ; UNASSIGNED  # <reserved>
1F0D1..1F0F5; DISALLOWED  # PLAYING CARD ACE OF CLUBS..PLAYING CARD TRUM
1F0F6..1F0FF; UNASSIGNED  # <reserved>..<reserved>
1F100..1F10C; DISALLOWED  # DIGIT ZERO FULL STOP..DINGBAT NEGATIVE CIRCLE
1F10D..1F10F; UNASSIGNED  # <reserved>..<reserved>
1F110..1F16B; DISALLOWED  # PARENTHESESIZED LATIN CAPITAL LETTER A.. RAISED
1F16C..1F16F; UNASSIGNED  # <reserved>..<reserved>
1F170..1F1AC; DISALLOWED  # NEGATIVE SQUARED LATIN CAPITAL LETTER A..SQUARED
1F1AD..1F1EF; UNASSIGNED  # <reserved>..<reserved>
1F1E6..1F202; DISALLOWED  # REGIONAL INDICATOR SYMBOL LETTER A..SQUARED
1F203..1F20F; UNASSIGNED  # <reserved>..<reserved>
1F210..1F23B; DISALLOWED  # SQUARED CJK UNIFIED IDEOGRAPH-624B..SQUARED
1F23C..1F23F; UNASSIGNED  # <reserved>..<reserved>
1F240..1F24B; DISALLOWED  # TORTOISE SHELL BRACKETED CJK UNIFIED IDEOGRAPH
1F24C..1F24F; UNASSIGNED  # <reserved>..<reserved>
1F250..1F25F; DISALLOWED  # CIRCLED IDEOGRAPH ADVANTAGE..CIRCLED IDEOGRAPH
1F260..1F265; DISALLOWED  # <reserved>..<reserved>
1F266..1F26F; DISALLOWED  # ROUNDED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F270..1F2FF; UNASSIGNED  # <reserved>..<reserved>
1F300..1F32B; DISALLOWED  # CYCLONE..PAGODA
1F330..1F33F; UNASSIGNED  # <reserved>..<reserved>
1F340..1F34F; UNASSIGNED  # <reserved>..<reserved>
1F350..1F36F; UNASSIGNED  # <reserved>..<reserved>
1F370..1F37F; UNASSIGNED  # <reserved>..<reserved>
1F380..1F3FF; UNASSIGNED  # <reserved>..<reserved>
1F380..1F38F; DISALLOWED  # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEAD
1F388..1F38F; UNASSIGNED  # <reserved>..<reserved>
1F390..1F39F; DISALLOWED  # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F398..1F3AF; UNASSIGNED  # <reserved>..<reserved>
1F3A0..1F3AF; DISALLOWED  # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SERIF
1F3A5..1F3AF; UNASSIGNED  # <reserved>..<reserved>
1F3A6..1F3A7; DISALLOWED  # WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE
1F888..1F88F; UNASSIGNED # <reserved>..<reserved>
1F890..1F8AD; DISALLOWED # LEFTWARDS TRIANGLE ARROWHEAD..WHITE ARROW SH
1F8AE..1F8FF; UNASSIGNED # <reserved>..<reserved>
1F900..1F90B; DISALLOWED # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWAR
1F90C..1F90F; UNASSIGNED # <reserved>..<reserved>
1F910..1F93E; DISALLOWED # ZIPPER-MOUTH FACE..HANDBALL
1F93F; UNASSIGNED # <reserved>
1F940..1F970; DISALLOWED # WILTED FLOWER..SMILING FACE WITH SMILING EYE
1F971..1F972; UNASSIGNED # <reserved>..<reserved>
1F973..1F976; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F977..1F979; UNASSIGNED # <reserved>..<reserved>
1F97A; DISALLOWED # FACE WITH PLEADING EYES
1F97B; UNASSIGNED # <reserved>
1F97C..1F9A2; DISALLOWED # LAB COAT..SWAN
1F9A3..1F9A9; UNASSIGNED # <reserved>..<reserved>
1F9B0..1F9B9; DISALLOWED # EMOJI COMPONENT RED HAIR..SUPERVILLAIN
1F9BA..1F9BF; UNASSIGNED # <reserved>..<reserved>
1F9C0..1F9C2; DISALLOWED # CHEESE WEDGE..SALT SHAKER
1F9C3..1F9CF; UNASSIGNED # <reserved>..<reserved>
1F9D0..1F9FF; DISALLOWED # FACE WITH MONOCLE..NAZAR AMULET
1FA00..1FA5F; UNASSIGNED # <reserved>..<reserved>
1FA60..1FA6D; DISALLOWED # XIANGQI RED GENERAL..XIANGQI BLACK SOLDIER
1FA6E..1FFF; UNASSIGNED # <reserved>..<reserved>
1FFE..1FFF; DISALLOWED # <noncharacter>..<noncharacter>
20000..2A6D6; PVALID # <CJK Ideograph Extension B>..<CJK Ideograph
2A6D7..2A6FF; UNASSIGNED # <reserved>..<reserved>
2A700..2B734; PVALID # <CJK Ideograph Extension C>..<CJK Ideograph
2B735..2B73F; UNASSIGNED # <reserved>..<reserved>
2B740..2B81D; PVALID # <CJK Ideograph Extension D>..<CJK Ideograph
2B81E..2B81F; UNASSIGNED # <reserved>..<reserved>
2B820..2CEA1; PVALID # <CJK Ideograph Extension E>..<CJK Ideograph
2CEA2..2CEAF; UNASSIGNED # <reserved>..<reserved>
2CEB0..2EBE0; PVALID # <CJK Ideograph Extension F>..<CJK Ideograph
2EBE1..2F7FF; UNASSIGNED # <reserved>..<reserved>
2F800..2F81D; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-2F800..CJK COMPA
2FA1E..2FFF; UNASSIGNED # <reserved>..<reserved>
2FFE..2FFF; DISALLOWED # <noncharacter>..<noncharacter>
30000..3FFF; UNASSIGNED # <reserved>..<reserved>
3FFE..3FFF; DISALLOWED # <noncharacter>..<noncharacter>
40000..4FFF; UNASSIGNED # <reserved>..<reserved>
4FFE..4FFF; DISALLOWED # <noncharacter>..<noncharacter>
50000..5FFF; UNASSIGNED # <reserved>..<reserved>
5FFE..5FFF; DISALLOWED # <noncharacter>..<noncharacter>
60000..6FFF; UNASSIGNED # <reserved>..<reserved>
6FFE..6FFF; DISALLOWED # <noncharacter>..<noncharacter>
70000..7FFF; UNASSIGNED # <reserved>..<reserved>
7FFE..7FFF; DISALLOWED # <noncharacter>..<noncharacter>
80000..8FFF; UNASSIGNED # <reserved>..<reserved>
8FFE..8FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
90000..9FFFD; UNASSIGNED  # <reserved>..<reserved>
9FFE..9FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
A0000..AFFFD; UNASSIGNED  # <reserved>..<reserved>
AFFFE..AFFFF; DISALLOWED  # <noncharacter>..<noncharacter>
B0000..BFFFD; UNASSIGNED  # <reserved>..<reserved>
BFFE..BFFFF; DISALLOWED  # <noncharacter>..<noncharacter>
C0000..CFFFD; UNASSIGNED  # <reserved>..<reserved>
CFFE..CFFFF; DISALLOWED  # <noncharacter>..<noncharacter>
D0000..DFFFD; UNASSIGNED  # <reserved>..<reserved>
DFFE..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..EFFF; UNASSIGNED  # <reserved>..<reserved>
EFFFE..10FFFF; DISALLOWED  # <noncharacter>..<noncharacter>

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