IDNA2008 and Unicode 11.0.0
draft-faltstrom-unicodel1-01

Abstract

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

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1. Introduction

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

When the Unicode Standard is updated code points are assigned that earlier were not and property values changes for already assigned code points.

Assigning code points might create problems if the newly assigned code points are compositions of code points so that it either changes or would have changed the normalization functions. This because it changes the matching algorithms used which in turn might create problems looking up already stored strings in for example DNS.

Changing properties to already assigned code points might create problems if the change do result in the derived property value changes. This might make an earlier allowed code point (derived
property value PVALID) not be allowed anymore (derived property value DISALLOWED).

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 is that staying with the Unicode Standard has been viewed as important given the diversity in implementations already existing in the wild.

The Internet Architecture Board did issue a statement [IAB] which requested IETF to resolve the issues related to the code point ARABIC LETTER BEH WITH HAMZA ABOVE (U+08A1), introduced in Unicode 7.0.0 [Unicode-7.0.0]. This document resolves this issue and suggests IDNA2008 standard is to follow 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", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [RFC2119].

3. Background

3.1. IDNA2008 Documents

IDNA2008 consists of the following documents:

- A document, RFC 5890 [RFC5890], containing definitions and other material that are needed for understanding other documents in the set. It is referred to informally in other documents in the set as "Defs" or "Definitions".

- A document, RFC 5891 [RFC5891], that describes the core IDNA2008 protocol and its operations. It is to be interpreted in combination with the Bidi document, described immediately below. It is referred to informally in other documents in the set as "Protocol".

- A specification, RFC 5892 [RFC5892], of the categories and rules that identify the code points allowed in a label written in native character form (defined more specifically as a "U-label"), based originally on Unicode 5.2.0 [Unicode-5.2.0] code point assignments and additional rules unique to IDNA2008. The Unicode-based rules are expected to be stable across Unicode updates and hence independent of Unicode versions. That specification obsoletes RFC 3491 [RFC3491] and IDN use of the tables to which it refers. It
is referred to informally in other documents in the set as "Tables".

- A document, RFC 5893 [RFC5893], that specifies special rules (Bidi) for labels that contain characters that are written from right to left.

- A document, RFC 5894 [RFC5894], that provides an overview of the protocol and associated tables together with explanatory material and some rationale for the decisions that led to IDNA2008. That document also contains advice for registry operations and those who use Internationalized Domain Names (IDNs). It is referred to informally in other documents in the set as "Rationale".

- A document, RFC 5895 [RFC5895], that discusses the issue of mapping characters into other characters and that provides guidance for doing so when that is appropriate. That document, referred to informally as "Mapping", provides advice; it is not a required part of IDNA.

- A document, RFC 6452 [RFC6452], that looks at 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. The first two changed from DISALLOWED to PVALID, the last from PVALID to DISSALOWED. IETF came to the conclusion the changes were acceptable and RFC 5892 [RFC5892] was not updated to make the derived property value not change for these code points.

### 3.2. Deployment

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

- 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, and this after doing the in IDNA2003 included normalization.

- 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 IANA which implies stayed 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 or not.

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 a very diverse implementations of the requirements in RFC 5894 [RFC5894] that registry operators to based on the IDNA2008 specification create additional rules for what code points are allowed to be used for registration.

In practice, the Unicode Consortium set 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. Registries (and others dealing with Internationalized Domain Names) are supposed to create an even smaller subset that ultimately is the set of code points that can be used in a particular registry.

There is further recommendation to be conservative when these subsets are calculated and to use the inclusion principle; this is explained in SAC-084 [SAC-084] and RFC 6912 [RFC6912].

The complicated situation with deployment of IDNA2008 is discussed further in draft-klensin-idna-rfc5891bis [I-D.klensin-idna-rfc5891bis] and draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters].

4. Notable changes between Unicode 6.3.0 and 11.0.0

4.1. Changes to Unicode 7.0.0

The character ARABIC LETTER BEH WITH HAMZA ABOVE U+08A1 was introduced in Unicode 7.0.0. This was discussed in the IETF extensively and IAB in their statement [IAB] requesting the IETF to investigate the issue and specifically 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. In the case of U+08A1, it can be represented with the sequence ARABIC LETTER BEH (U+0628) and ARABIC HAMZA ABOVE (U+0654). Just like LATIN SMALL LETTER A WITH DIAERESIS (U+00E4) can be represented via the sequence LATIN SMALL LETTER A (U+0061), and COMBINING DIAERESIS (U+0308). One difference between these sequences is how they are treated in the normalization forms specified by the Unicode Consortium.

As U+08A1 is discussed in draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters] and elsewhere, regardless of whether that discussion end in recommending including the code point in the repertoire of characters permissible for registration or not, it is acceptable to allow the code point to have a derived property value of PVALID.

4.2. Changes to Unicode 11.0.0

The Unicode Standard Version 11.0.0 [Unicode-11.0.0] have included a number of changes [Changes-11.0.0] from version 10.0.0, specifically to UnicodeData.txt:

- Entries were added for the 684 new characters, including letters, combining marks, digits, symbols, and punctuation marks.

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

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

- U+11A07 ZANABAZAR SQUARE VOWEL SIGN AI and U+11A08 ZANABZAR SQUARE VOWEL SIGN AU were corrected from Mc to Mn.

- U+29A1 SPHERICAL ANGLE OPENING UP 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 have existed since before IDNA2008 was created. Applying the IDNA2008 algorithm to the code points did assign 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 did assign the derived property value DISALLOWED. The changes in the underlying properties in the Unicode Standard Version 11.0.0 [Unicode-11.0.0] make the derived property value change to PVALID which is an acceptable change.

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

U+29A1 SPHERICAL ANGLE OPENING UP have existed since before IDNA2008 was created. Applying the IDNA2008 algorithm to the code point did assign the derived property value PVALID and that value is unchanged even if the underlying Unicode properties have changed.

5. Conclusion

Given the changes laid out in Section 4 the derived property values MUST be calculated according to the IDNA2008 specification for Unicode Version 11.0.0 [Unicode-11.0.0]. The changes in code points, implications to normalization and changes in derived property values are acceptable.

All registries and others SHOULD calculate a repertoire as explained in draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters] and draft-klensin-idna-rfc5891bis [I-D.klensin-idna-rfc5891bis] using the conservatism and inclusive principles as laid out in SAC-084 [SAC-084].

6. IANA Considerations

IANA is requested to update the registry of derived property values after validation with the Appointed Expert that the derived values are calculated correctly.

7. Security Considerations

Not following the recommendations regarding explicitly deciding what subset of the by IDNA2008 algorithm applied to current Unicode version should be permissible can lead to various security issues related to specifically confusability, and that way various phishing attacks.
8. Acknowledgements

Thanks to John Klensin, Asmus Freytag, Andrew Sullivan and Michel Suignard for input to this document.

9. References

9.1. Normative References

[IAB] Internet Architecture Board, "IAB Statement on Identifiers and Unicode 7.0.0", IAB Statement on Identifiers and Unicode 7.0.0

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119,
DOI 10.17487/RFC2119, March 1997,

RFC 3491, DOI 10.17487/RFC3491, March 2003,

RFC 5890, DOI 10.17487/RFC5890, August 2010,

RFC 5891, DOI 10.17487/RFC5891, August 2010,

RFC 5892, DOI 10.17487/RFC5892, August 2010,

RFC 5893, DOI 10.17487/RFC5893, August 2010,
9.2. Non-normative references

[Changes-11.0.0]

[I-D.freytag-troublesome-characters]

[I-D.klensin-idna-rfc5891bis]


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 MARMARI DDA
0980    ; PVALID     # BENGALI ANJI
0C00    ; PVALID     # TELUGU SIGN COMBINING CANDRABINDU ABOVE
0C34    ; PVALID     # TELUGU LETTER LLLA
0C81    ; PVALID     # KANNADA SIGN CANDRABINDU
0D01    ; PVALID     # MALAYALAM SIGN CANDRABINDU
0DE6..0DEF ; PVALID     # SINDH LITH DIGIT ZERO..SINDH LITH DIGIT
16F1..16F8 ; PVALID     # RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A
191D..191E ; PVALID     # LIMBU LETTER GAN..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
2700    ; DISALLOWED  # BLACK SAFETY SCISSORS
2B7A..2B7D ; DISALLOWED  # DOWNWARDS TRIANGLE-HEADED ZIGZAG ARROW..SHOR
2B7E..2B95 ; DISALLOWED  # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
298..2BB9 ; DISALLOWED  # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BBB..2BC8 ; DISALLOWED  # BALLOON BOX WITH LIGHT X..BLACK MEDIUM RIGHT-
2BCA..2BD1 ; DISALLOWED  # TOP HALF BLACK CIRCLE..UNCERTAINTY SIGN
2E3C..2E42 ; DISALLOWED  # STENOGRAPHIC FULL STOP..DOUBLE LOW-REVERSED-
A69B..A69D ; DISALLOWED  # CYRILLIC CAPITAL LETTER DOUBLE O..MODIFIER L
A794..A79F ; PVALID     # LATIN SMALL LETTER C WITH PALATAL HOOK..LATI
A7A8..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 GA..MYANMAR LETTER TAI
AA7C..<AA7F ; PVALID  # MYANMAR SIGN TAI LAING TONE-2..MYANMAR SIGN YANG
AB30..<AB5F ; PVALID  # LATIN SMALL LETTER BARRIED ALPHA..MODIFIER LETTER
AB64..<AB65 ; PVALID  # LATIN SMALL LETTER INVERTED ALPHA..GREEK LETTER
FE27..FE2D ; PVALID  # COMBINING LIGATURE LEFT HALF BELOW..COMBINING LIGATURE LEFT UP
1018B..<1018C; DISALLOWED  # GREEK ONE QUARTER SIGN..GREEK SINUSOID SIGN
101A0 ; DISALLOWED  # GREEK SYMBOL TAU RHO
102E0..<102FB; PVALID  # COPTIC EPACT THOUSANDS MARK..COPTIC EPACT NUMBER
1031F ; PVALID  # OLD ITALIC LETTER ESS
10350..<1037A; PVALID  # OLD PERMIC LETTER AN..COMBINING OLD PERMIC LETTER
10500..<10527; PVALID  # ELBASAN LETTER A..ELBASAN LETTER KHE
105A0..<10563; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALBANIAN LETTER
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..<1080F; PVALID  # PALMYRENE LETTER ALEPH..NABATAEAN LETTER TAW
108A0..<108AF; DISALLOWED  # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
10A80..<10A9F; PVALID  # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARABIAN LETTER HEH
10AC0..<10AE6; PVALID  # MANICHÆAN LETTER ALEPH..MANICHÆAN ABBREVIATION
10AE8..<10AF6; DISALLOWED  # MANICHÆAN NUMBER ONE..MANICHÆAN PUNCTUATION
10B80..<10B91; PVALID  # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAVI
10B99..<10B9C; DISALLOWED  # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAVI
10BA9..<10BAF; DISALLOWED  # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAVI
1107F ; PVALID  # BRAHMI NUMBER JOINER
11150..<11176; PVALID  # MAHAJANI LETTER A..MAHAJANI LIGATURE SHRI
111CD ; DISALLOWED  # SHARADA SUTRA MARK
111DA ; PVALID  # SHARADA EKAM
111F4; DISALLOWED  # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC NUMBER
11200..<11211; PVALID  # KHOJIKI LETTER A..KHOJIKI LETTER JJA
11213..<1123D; PVALID  # KHOJIKI LETTER NYA..KHOJIKI ABBREVIATION SIGN
112B0..<112EA; PVALID  # KHUDEWADI LETTER A..KHUDEWADI LETTER VIRAMA
112F0..<112F9; PVALID  # KHUDEWADI DIGIT ZERO..KHUDEWADI DIGIT NINE
11301..<1130C; 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
11339..1133F; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER PA
11339..11339; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LL
11335..<11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..<11344; PVALID  # GRANTHA SIGNUKTA..GRANTHA VOWEL SIGN VOCAL
11347..<11348; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
11348..<1134D; PVALID  # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
11357 ; PVALID  # GRANTHA AU LENGTH MARK
1135D..<11363; PVALID  # GRANTHA SIGN PIU..GRANTHA VOWEL SIGN VOCAL
11366..<1136C; PVALID  # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA DIGIT ZERO
11370..<11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHA LETTER A
11480..<114C7; PVALID  # TIRHUTA ANJI..TIRHUTA OM

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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 MARK
11650..11659; PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
118A0..118F2; DISALLOWED # WARANG CITU CAPITAL LETTER MGAA..WARANG CITU
118FF; PVALID # WARANG CITU OM
11AC0..11AF8; PVALID # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
1236F..12398; PVALID # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN U
12463..1246E; DISALLOWED # CUNEIFORM NUMERIC SIGN ONE QUARTER..CUNEIFORM
12474; DISALLOWED # CUNEIFORM PUNCTUATION SIGN DIAGONAL QUADCOLO
16A40..16A5E; PVALID # MRO LETTER TA..MRO LETTER TEK
16A60..16A69; PVALID # MRO DIGIT ZERO..MRO DIGIT NINE
16A6E..16A6F; DISALLOWED # MRO DANDA..MRO DOUBLE DANDA
16A9D..16AED; PVALID # DUBLOYAN LETTER H..DUBLOYAN LETTER VOCALIC M
1BC00..1BC6A; PVALID # MENDE KIKAKUI SYLLABLE M001 KI..MENDE KIKAKUI
1BC70..1BC7C; PVALID # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI COMBINING
1F321..1F32C; DISALLOWED # THERMOMETER..WIND BLOWING FACE
1F336; DISALLOWED # HOT PEPPER
1F343; DISALLOWED # FORK AND KNIFE WITH PLATE
1F394..1F39F; DISALLOWED # HEART WITH TIP ON THE LEFT..ADMISSION TICKET
1F3C5; DISALLOWED # SPORTS MEDAL
1F3D4..1F3DF; DISALLOWED # SNOW CAPPED MOUNTAIN..STADIUM
1F43F; DISALLOWED # CHIPMUNK
1F441; DISALLOWED # EYE
1F4F8; DISALLOWED # CAMERA WITH FLASH
1F4F9..1F4FE; DISALLOWED # FILM PROJECTOR..PORTABLE STEREO
1F53E..1F54F; DISALLOWED # LOWER RIGHT SHADOWED WHITE CIRCLE..UPPER RIGHT
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..ARABIC LETTER AIN WITH THREE DOTS BELOW
08E3 ; PVALID  # ARABIC TURNED DAMMA BELOW
0AF9 ; PVALID  # GUJARATI LETTER ZHA
0C5A ; PVALID  # TELUGU LETTER RRRA
0D5F ; PVALID  # MALAYALAM LETTER ARCHAIC II
13F5 ; PVALID  # CHEROKEE LETTER MV
13F8..13FD ; DISALLOWED  # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LETTER YE
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..LATIN CAPITAL LETTER J WITH CROSSED-TAIL
A8FC..A8FD ; DISALLOWED  # DEVANAGARI SIGN SIDDHAM..DEVANAGARI SIGN SIDDHAM
AB60..AB63 ; PVALID  # LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LETTER SAKHA YAT
AB70..ABBF ; DISALLOWED  # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETTER A
FE2E..FE2F ; PVALID  # COMBINING CYRILLIC TITLO LEFT HALF..COMBINING CYRILLIC TITLO LEFT HALF
108E0..108F2 ; PVALID  # HATRAN LETTER ALEPH..HATRAN LETTER ALEPH
108F4..108F5 ; PVALID  # HATRAN LETTER SHIN..HATRAN LETTER SHIN
108FB..108FF ; DISALLOWED  # HATRAN NUMBER ONE..HATRAN NUMBER ONE
109BC..109BD ; DISALLOWED  # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS
109C0..109CF ; DISALLOWED  # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIVE NUMBER ONE
109D2..109FF ; DISALLOWED  # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITIC CURSIVE NUMBER ONE HUNDRED
10CB0..10CB2 ; DISALLOWED  # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIAN CAPITAL LETTER A
10CC0..10CF2 ; PVALID  # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN SMALL LETTER A
10CFA..10CFF ; DISALLOWED  # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMBER ONE
111C9..111CC ; DISALLOWED  # SHARADA SANDHI MARK..SHARADA SANDHI MARK
111DB..111DF ; DISALLOWED  # SHARADA SIGN SIDDHAM..SHARADA SIGN SIDDHAM
11280..11286 ; PVALID  # MULTANI LETTER A..MULTANI LETTER A
11288 ; PVALID  # MULTANI LETTER GHA
1128A..1128D ; PVALID  # MULTANI LETTER CA..MULTANI LETTER CA
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 INDICTION SIGN..NOMISMA SIGN
104B0..104D3; DISALLOWED # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D8..104FB; PVALID  # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0

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

Changes from derived property value DISALLOWED to PVALID.

111C9 ; PVALID  # SHARADA SANDHI MARK

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

0000..002C ; DISALLOWED # <control>..COMMA
002D ; PVALID # HYPHEN-MINUS
002E..002F ; DISALLOWED # FULL STOP..SOLIDUS
0030..0039 ; PVALID # DIGIT ZERO..DIGIT NINE
003A..0060 ; DISALLOWED # COLON..GRAVE ACCENT
0061..007A ; PVALID # LATIN SMALL LETTER A..LATIN SMALL LETTER Z
007B..00B6 ; DISALLOWED # LEFT CURLY BRACKET..PILCROW SIGN
00B7 ; CONTEXTO # MIDDLE DOT
00B8..00DE ; DISALLOWED # CEDILLA..LATIN CAPITAL LETTER THORN
00DF..00FF ; PVALID # LATIN SMALL LETTER O WITH STROKE..LATIN SMALL
0100 ; DISALLOWED # LATIN CAPITAL LETTER A WITH MACRON
0101 ; PVALID # LATIN SMALL LETTER A WITH MACRON
0102 ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE
0103 ; PVALID # LATIN SMALL LETTER A WITH BREVE
0104 ; DISALLOWED # LATIN CAPITAL LETTER A WITH OGONEK
0105 ; PVALID # LATIN SMALL LETTER A WITH OGONEK
0106 ; DISALLOWED # LATIN CAPITAL LETTER C WITH ACUTE
0107 ; PVALID # LATIN SMALL LETTER C WITH ACUTE
0108 ; DISALLOWED # LATIN CAPITAL LETTER C WITH CIRCUMFLEX
0109 ; PVALID # LATIN SMALL LETTER C WITH CIRCUMFLEX
010A ; DISALLOWED # LATIN CAPITAL LETTER C WITH DOT ABOVE
010B ; PVALID # LATIN SMALL LETTER C WITH DOT ABOVE
010C ; DISALLOWED # LATIN CAPITAL LETTER C WITH CARON
010D ; PVALID # LATIN SMALL LETTER C WITH CARON
010E ; DISALLOWED # LATIN CAPITAL LETTER D WITH CARON
010F ; PVALID # LATIN SMALL LETTER D WITH CARON
0110 ; DISALLOWED # LATIN CAPITAL LETTER D WITH STROKE
0111 ; PVALID # LATIN SMALL LETTER D WITH STROKE
0112 ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON
0113 ; PVALID # LATIN SMALL LETTER E WITH MACRON
0114 ; DISALLOWED # LATIN CAPITAL LETTER E WITH BREVE
0115 ; PVALID # LATIN SMALL LETTER E WITH BREVE

1F7D5..1F7D8; DISALLOWED # CIRCLED TRIANGLE..NEGATIVE CIRCLED SQUARE
1F94D..1F970; DISALLOWED # LACROSSE STICK AND BALL..FLYING DISC
1F973..1F976; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F97A; DISALLOWED # FACE WITH PLEADING EYES
1F97C..1F97F; DISALLOWED # LAB COAT..FLAT SHOE
1F998..1F9A2; DISALLOWED # KANGAROO..SWAN
1F9B0..1F9B9; DISALLOWED # EMOJI COMPONENT RED HAIR..SUPERVILLAIN
1F9C1..1F9C2; DISALLOWED # CUPCAKE..SALT SHAKER
1F9E7..1F9FF; DISALLOWED # RED GIFT ENVELOPE..NAZAR AMULET
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 CAPITAL LETTER B WITH TOPBAR
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 LETTER C WITH HOOK
0188 ; PVALID # LATIN SMALL LETTER C WITH HOOK
0189..018B ; DISALLOWED # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL LETTER TONE FIVE
018C..018D ; PVALID # LATIN SMALL LETTER D WITH TOPBAR..LATIN SMALL LETTER D WITH TOPBAR
018E..0191 ; DISALLOWED # LATIN CAPITAL LETTER REVERSED E..LATIN CAPITAL LETTER E WITH HOOK
0192 ; PVALID # LATIN SMALL LETTER F WITH HOOK
0193..0194 ; DISALLOWED # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPITAL LETTER H WITH HORN
0195 ; PVALID # LATIN SMALL LETTER H
0196..0198 ; DISALLOWED # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LETTER IOTA WITH HOOK
0199..019B ; PVALID # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL LETTER K WITH HOOK
019C..019E ; DISALLOWED # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL LETTER TURNED M
019F..01A0 ; DISALLOWED # LATIN CAPITAL LETTER O WITH MIDDLE TILDE..LATIN CAPITAL LETTER O WITH HORN
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 TWO
01A8 ; PVALID # LATIN SMALL LETTER TONE TWO
01A9 ; DISALLOWED # LATIN CAPITAL LETTER ESH
01AA..01AB ; PVALID # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL LETTER REVERSED ESH LOOP
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..LATIN SMALL LETTER T WITH RETROFLEX HOOK
01B0 ; PVALID # LATIN SMALL LETTER U WITH HORN
01B1..01B3 ; DISALLOWED # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL LETTER UPSILON
01B4 ; PVALID # LATIN SMALL LETTER V 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 LETTER EZH
01B9..01BB ; PVALID # LATIN SMALL LETTER EZH REVERSED..LATIN SMALL LETTER EZH REVERSED
01BC ; DISALLOWED # LATIN CAPITAL LETTER TONE FIVE
01BD..01C3 ; PVALID # LATIN SMALL LETTER TONE FIVE..LATIN CAPITAL LETTER TONE FIVE
01C4..01CD ; DISALLOWED # LATIN CAPITAL LETTER DZ WITH CARON..LATIN CAPITAL LETTER DZ WITH CARON
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 LETTE
01F1..01F4  ; DISALLOWED # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTE
01F5        ; PVALID    # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  ; DISALLOWED # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LE
01F9        ; PVALID    # LATIN SMALL LETTER N WITH GRAVE
01FA        ; DISALLOWED # LATIN CAPITAL LETTER A WITH RING ABOVE AND A
01FB        ; PVALID    # LATIN SMALL LETTER A WITH RING ABOVE AND ACU
01FC        ; DISALLOWED # LATIN CAPITAL LETTER AE WITH ACUTE
01FD        ; PVALID    # LATIN SMALL LETTER AE WITH ACUTE
01FE        ; DISALLOWED # LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
01FF        ; PVALID    # LATIN SMALL LETTER O WITH STROKE AND ACUTE
0200        ; DISALLOWED # LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
0201        ; PVALID    # LATIN SMALL LETTER A WITH DOUBLE GRAVE
0202        ; DISALLOWED # LATIN CAPITAL LETTER A WITH INVERTED BREVE
0203        ; PVALID    # LATIN SMALL LETTER A WITH INVERTED BREVE
0204        ; DISALLOWED # LATIN CAPITAL LETTER E WITH DOUBLE GRAVE
0205        ; PVALID    # LATIN SMALL LETTER E WITH DOUBLE GRAVE
0206        ; DISALLOWED # LATIN CAPITAL LETTER E WITH INVERTED BREVE
0207        ; PVALID    # LATIN SMALL LETTER E WITH INVERTED BREVE
0208        ; DISALLOWED # LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
0209        ; PVALID    # LATIN SMALL LETTER I WITH DOUBLE GRAVE
020A  ; DISALLOWED # LATIN CAPITAL LETTER I WITH INVERTED BREVE
020B  ; PVALID  # LATIN SMALL LETTER I WITH INVERTED BREVE
020C  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
020D  ; PVALID  # LATIN SMALL LETTER O WITH DOUBLE GRAVE
020E  ; DISALLOWED # LATIN CAPITAL LETTER O WITH INVERTED BREVE
020F  ; PVALID  # LATIN SMALL LETTER O WITH INVERTED BREVE
0210  ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOUBLE GRAVE
0211  ; PVALID  # LATIN SMALL LETTER R WITH DOUBLE GRAVE
0212  ; DISALLOWED # LATIN CAPITAL LETTER R WITH INVERTED BREVE
0213  ; PVALID  # LATIN SMALL LETTER R WITH INVERTED BREVE
0214  ; DISALLOWED # LATIN CAPITAL LETTER U WITH DOUBLE GRAVE
0215  ; PVALID  # LATIN SMALL LETTER U WITH DOUBLE GRAVE
0216  ; DISALLOWED # LATIN CAPITAL LETTER U WITH INVERTED BREVE
0217  ; PVALID  # LATIN SMALL LETTER U WITH INVERTED BREVE
0218  ; DISALLOWED # LATIN CAPITAL LETTER S WITH COMMA BELOW
0219  ; PVALID  # LATIN SMALL LETTER S WITH COMMA BELOW
021A  ; DISALLOWED # LATIN CAPITAL LETTER T WITH COMMA BELOW
021B  ; PVALID  # LATIN SMALL LETTER T WITH COMMA BELOW
021C  ; DISALLOWED # LATIN CAPITAL LETTER YOGH
021D  ; PVALID  # LATIN SMALL LETTER YOGH
021E  ; DISALLOWED # LATIN CAPITAL LETTER H WITH CARON
021F  ; PVALID  # LATIN SMALL LETTER H WITH CARON
0220  ; DISALLOWED # LATIN CAPITAL LETTER N WITH LONG RIGHT LEG
0221  ; PVALID  # LATIN SMALL LETTER D WITH CURL
0222  ; DISALLOWED # LATIN CAPITAL LETTER OU
0223  ; PVALID  # LATIN SMALL LETTER OU
0224  ; DISALLOWED # LATIN CAPITAL LETTER Z WITH HOOK
0225  ; PVALID  # LATIN SMALL LETTER Z WITH HOOK
0226  ; DISALLOWED # LATIN CAPITAL LETTER A WITH DOT ABOVE
0227  ; PVALID  # LATIN SMALL LETTER A WITH DOT ABOVE
0228  ; DISALLOWED # LATIN CAPITAL LETTER E WITH CEDILLA
0229  ; PVALID  # LATIN SMALL LETTER E WITH CEDILLA
022A  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DIAERESIS AND MA
022B  ; PVALID  # LATIN SMALL LETTER O WITH DIAERESIS AND MACR
022C  ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE AND MACRON
022D  ; PVALID  # LATIN SMALL LETTER O WITH TILDE AND MACRON
022E  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOT ABOVE
022F  ; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE
0230  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOT ABOVE AND MA
0231  ; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE AND MACR
0232  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH MACRON
0233..0239 ; PVALID  # LATIN SMALL LETTER Y WITH MACRON..LATIN 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 CAPITAL LETTER SMALL Q WITH HOOK TAIL
0247         ; PVALID      # LATIN SMALL LETTER E WITH STROKE
0248         ; DISALLOWED  # LATIN CAPITAL LETTER J WITH STROKE
0249         ; PVALID      # LATIN SMALL LETTER J WITH STROKE
024A         ; DISALLOWED  # LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
024B         ; PVALID      # LATIN SMALL LETTER Q WITH HOOK TAIL
024C         ; DISALLOWED  # LATIN CAPITAL LETTER R WITH STROKE
024D         ; PVALID      # LATIN SMALL LETTER R WITH STROKE
024E         ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH STROKE
024F..02AF   ; PVALID      # LATIN SMALL LETTER Y WITH STROKE..LATIN SMALL LETTER Z
02B0..02B8   ; DISALLOWED  # MODIFIER LETTER SMALL H..MODIFIER LETTER SMALL H
02B9..02C1   ; PVALID      # MODIFIER LETTER PRIME..MODIFIER LETTER PRIME
02C2..02C5   ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LETTER LEFT ARROWHEAD
02C6..02D1   ; PVALID      # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER LETTER CIRCUMFLEX ACCENT
02D2..02EB   ; DISALLOWED  # MODIFIER LETTER CENTRED RIGHT HALF RING..MODIFIER LETTER CENTRED RIGHT HALF RING
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 LETTER LOW DOWN ARROWHEAD
0300..033F   ; PVALID      # COMBINING GRAVE ACCENT..COMBINING DOUBLE OVERLINE
0340..0341   ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING ACUTE TONE
0342         ; PVALID      # COMBINING GREEK PERISPOMENI
0343..0345   ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK YPOGEGRAMMENI
0346..034E   ; PVALID      # COMBINING BRIDGE ABOVE..COMBINING UPWARDS ARROW
034F         ; DISALLOWED  # COMBINING GRAPHEME JOINER
0350..036F   ; PVALID      # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING LEFT ARROWHEAD ABOVE
0370         ; DISALLOWED  # GREEK CAPITAL LETTER HETA
0371         ; PVALID      # GREEK SMALL LETTER HETA
0372         ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI
0373         ; PVALID      # GREEK SMALL LETTER ARCHAIC SAMPI
0374         ; DISALLOWED  # GREEK NUMERAL SIGN
0375         ; CONTEXTO    # GREEK LOWER NUMERAL SIGN
0376         ; DISALLOWED  # GREEK CAPITAL LETTER PAMPHYLIAN DIGAMMA
0377         ; PVALID      # GREEK SMALL LETTER PAMPHYLIAN DIGAMMA
0378..037F   ; UNASSIGNED  # <reserved>..<reserved>
037A         ; DISALLOWED  # GREEK YPOGEGRAMMENI
037B..037D   ; PVALID      # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GREEK SMALL REVERSED LUNATE SIGMA SYMBOL
037E..037F   ; DISALLOWED  # GREEK QUESTION MARK..GREEK CAPITAL LETTER YO
0380..0383   ; UNASSIGNED  # <reserved>..<reserved>
0384..038A   ; DISALLOWED  # GREEK TONOS..GREEK CAPITAL LETTER IOTA WITH TONOS
038B         ; UNASSIGNED  # <reserved>
038C         ; DISALLOWED  # GREEK CAPITAL LETTER OMICRON WITH TONOS
038D         ; UNASSIGNED  # <reserved>
038E..038F   ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH TONOS
0390         ; PVALID      # GREEK SMALL LETTER IOTA WITH DIALYTEKA AND TONE
0391..03A1   ; DISALLOWED  # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LETTER SIGMA SMALL
03A2         ; UNASSIGNED  # <reserved>
03A3..03AB   ; DISALLOWED  # GREEK CAPITAL LETTER SIGMA..GREEK CAPITAL LETTER SIGMA SMALL
03AC..03CE  ; PVALID     # GREEK SMALL LETTER ALPHA WITH TONOS..GREEK SMALL LETTER OMEGA
03CF..03D6  ; DISALLOWED # GREEK CAPITAL KAI SYMBOL..GREEK PI SYMBOL
03D7        ; PVALID     # GREEK KAI SYMBOL
03D8        ; DISALLOWED # GREEK LETTER ARCHAIC KOPPA
03D9        ; PVALID     # GREEK SMALL LETTER ARCHAIC KOPPA
03DA        ; DISALLOWED # GREEK LETTER STIGMA
03DB        ; PVALID     # GREEK SMALL LETTER STIGMA
03DC        ; DISALLOWED # GREEK LETTER DIGAMMA
03DD        ; PVALID     # GREEK SMALL LETTER DIGAMMA
03DE        ; DISALLOWED # GREEK LETTER KOPPA
03DF        ; PVALID     # GREEK SMALL LETTER KOPPA
03E0        ; DISALLOWED # GREEK LETTER SAMPI
03E1        ; PVALID     # GREEK SMALL LETTER SAMPI
03E2        ; DISALLOWED # COPTIC CAPITAL LETTER SHEI
03E3        ; PVALID     # COPTIC SMALL LETTER SHEI
03E4        ; DISALLOWED # COPTIC CAPITAL LETTER FEI
03E5        ; PVALID     # COPTIC SMALL LETTER FEI
03E6        ; DISALLOWED # COPTIC CAPITAL LETTER KHEI
03E7        ; PVALID     # COPTIC SMALL LETTER KHEI
03E8        ; DISALLOWED # COPTIC CAPITAL LETTER HORI
03E9        ; PVALID     # COPTIC SMALL LETTER HORI
03EA        ; DISALLOWED # COPTIC CAPITAL LETTER GANGIA
03EB        ; PVALID     # COPTIC SMALL LETTER GANGIA
03EC        ; DISALLOWED # COPTIC CAPITAL LETTER SHIMA
03ED        ; PVALID     # COPTIC SMALL LETTER SHIMA
03EE        ; DISALLOWED # COPTIC CAPITAL LETTER DEI
03EF        ; PVALID     # COPTIC SMALL LETTER DEI
03F0..03F2  ; DISALLOWED # GREEK KAPPA SYMBOL..GREEK LUNATE SIGMA SYMBOL
03F3        ; PVALID     # GREEK LETTER YOT
03F4..03F7  ; DISALLOWED # GREEK CAPITAL THETA SYMBOL..GREEK CAPITAL LETTER YAT
03F8        ; PVALID     # GREEK SMALL LETTER SHO
03F9..03FA  ; DISALLOWED # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAPITAL LETTER IOTIFIED E
03FB..03FC  ; PVALID     # GREEK SMALL LETTER SAN..GREEK RHOS WITH STROKES
03FD..042F  ; DISALLOWED # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..GREEK CAPITAL LETTER A..CYRILLIC SMALL LETTER A
0430..045F  ; PVALID     # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETTER OMEGA
0460        ; DISALLOWED # CYRILLIC CAPITAL LETTER OMEGA
0461        ; PVALID     # CYRILLIC SMALL LETTER OMEGA
0462        ; DISALLOWED # CYRILLIC CAPITAL LETTER YAT
0463        ; PVALID     # CYRILLIC SMALL LETTER YAT
0464        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED E
0465        ; PVALID     # CYRILLIC SMALL LETTER IOTIFIED E
0466        ; DISALLOWED # CYRILLIC CAPITAL LETTER LITTLE YUS
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04AB        ; PVALID      # CYRILLIC SMALL LETTER ES WITH DESCENDER
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04C2        ; PVALID      # CYRILLIC SMALL LETTER ZHE WITH BREVE
04C3        ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4        ; PVALID      # CYRILLIC SMALL LETTER KA WITH HOOK
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050F ; PVALID # CYRILLIC SMALL LETTER KOMI TJE
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051F ; PVALID # CYRILLIC SMALL LETTER ALEUT KA
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0522 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
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0525 ; PVALID # CYRILLIC SMALL LETTER PE WITH DESCENDER
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0529 ; PVALID # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
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052B ; PVALID # CYRILLIC SMALL LETTER DZZHE
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055A..055F ; DISALLOWED # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION M
0560..0586; PVALID # ARMENIAN SMALL LETTER TURNED AYB..ARMENIAN S
0587; DISALLOWED # ARMENIAN SMALL LIGATURE ECH YIWN
0588; PVALID # ARMENIAN SMALL LETTER YI WITH STROKE
0589..058A; DISALLOWED # ARMENIAN FULL STOP..ARMENIAN HYPHEN
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05BF; PVALID # HEBREW POINT RAFE
05C0; DISALLOWED # HEBREW PUNCTUATION PASEQ
05C1..05C2; PVALID # HEBREW POINT SHIN DOT..HEBREW POINT SIN DOT
05C3; DISALLOWED # HEBREW PUNCTUATION SOF PASUQ
05C4..05C5; PVALID # HEBREW MARK UPPER DOT..HEBREW MARK LOWER DOT
05C6; DISALLOWED # HEBREW PUNCTUATION NUN HAFUKHA
05C7; PVALID # HEBREW POINT QAMATS QATAN
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0640; DISALLOWED # ARABIC TATWEEL
0641..065F; PVALID # ARABIC LETTER FEH..ARABIC WAVY HAMZA BELOW
0660..0669; CONTEXTO # ARABIC-INDIC DIGIT ZERO..ARABIC-INDIC DIGIT
066A..066D; DISALLOWED # ARABIC PERCENT SIGN..ARABIC FIVE POINTED STA
066E..0674; PVALID # ARABIC LETTER DOTLESS BEH..ARABIC LETTER HIG
0675..0678; DISALLOWED # ARABIC LETTER HIGH HAMZA ALEF..ARABIC LETTER
0679..06D3; PVALID # ARABIC LETTER TTEH..ARABIC LETTER YEH BARREE
06D4; DISALLOWED # ARABIC FULL STOP
06D5..06DC; PVALID # ARABIC LETTER AE..ARABIC SMALL HIGH SEEN
06DD..06DE; DISALLOWED # ARABIC END OF AYAH..ARABIC START OF RUB EL H
06DF..06E8; PVALID # ARABIC SMALL HIGH ROUNDED ZERO..ARABIC SMALL
06E9; DISALLOWED # ARABIC PLACE OF SAJDH
06EA..06EF; PVALID # ARABIC EMPTY CENTRE LOW STOP..ARABIC LETTER
06F0..06F9; CONTEXTO # EXTENDED ARABIC-INDIC DIGIT ZERO..EXTENDED A
06FA..06FF; PVALID # ARABIC LETTER SHEEN WITH DOT BELOW..ARABIC L
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070E; UNASSIGNED # <reserved>
070F; DISALLOWED # SYRIAC ABBREVIATION MARK
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074B..074C; UNASSIGNED # <reserved>..<reserved>
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07B2..07BF  ; UNASSIGNED # <reserved>..<reserved>
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07F6..07FA  ; DISALLOWED # NKRO SYMBOL OO DENNEN..NKRO LAJANYALAN
07FB..07FC  ; UNASSIGNED # <reserved>..<reserved>
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085C..085D  ; UNASSIGNED # <reserved>..<reserved>
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086B..086F  ; DISALLOWED # SYRIAC LETTER MALAYALAM NA WITH SMALL MEEM..SYRIAC LETTER MEEM
0870..087F  ; PVALID  # SYRIAC LETTER MALAYALAM A..SYRIAC LETTER V
0880..088F  ; DISALLOWED # SYRIAC LETTER MALAYALAM AE..SYRIAC LETTER AY
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OA8E        ; UNASSIGNED # <reserved>
OA8F..OA91  ; PVALID  # GUJARATI LETTER E..GUJARATI VOWEL CANDRA O
OA92        ; UNASSIGNED # <reserved>
OA93..OA98  ; PVALID  # GUJARATI LETTER O..GUJARATI LETTER NA
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OAB5..OAB9  ; PVALID  # GUJARATI LETTER VA..GUJARATI LETTER HA
OABA..OABB  ; UNASSIGNED # <reserved>..<reserved>
OABC..OAC5  ; PVALID  # GUJARATI SIGN NUKTA..GUJARATI VOWEL SIGN CAN
OAC6        ; UNASSIGNED # <reserved>
OAC7..OAC9  ; PVALID  # GUJARATI VOWEL SIGN E..GUJARATI VOWEL SIGN C
OACA        ; UNASSIGNED # <reserved>
OACB..OACD  ; PVALID  # GUJARATI VOWEL SIGN O..GUJARATI SIGN VIRAMA
OACE..OACF  ; UNASSIGNED # <reserved>..<reserved>
OAD0        ; PVALID  # GUJARATI OM
OAD1..OADF  ; UNASSIGNED # <reserved>..<reserved>
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OAE4..OAE5  ; UNASSIGNED # <reserved>..<reserved>
OAE6..OAEF  ; PVALID  # GUJARATI DIGIT ZERO..GUJARATI DIGIT NINE
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OAF2..OAF8  ; UNASSIGNED # <reserved>..<reserved>
OAF9..OAFF  ; PVALID  # GUJARATI LETTER ZHA..GUJARATI SIGN TWO-CIRCL
OB00        ; UNASSIGNED # <reserved>
OB01..OB03  ; PVALID  # ORIYA SIGN CANDRABINDU..ORIYA SIGN VISARGA
OB04        ; UNASSIGNED # <reserved>
OB05..OB0C  ; PVALID  # ORIYA LETTER A..ORIYA LETTER VOCALIC L
OB0D..OB0E  ; UNASSIGNED # <reserved>..<reserved>
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OB11..OB12  ; UNASSIGNED # <reserved>..<reserved>
OB13..OB28  ; PVALID  # ORIYA LETTER O..ORIYA LETTER NA
OB29        ; UNASSIGNED # <reserved>
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OB31        ; UNASSIGNED # <reserved>
OB32..OB33  ; PVALID  # ORIYA LETTER LA..ORIYA LETTER LLA
OB34        ; UNASSIGNED # <reserved>
OB35..OB39  ; PVALID  # ORIYA LETTER VA..ORIYA LETTER HA
OB3A..OB3B  ; UNASSIGNED # <reserved>..<reserved>
OB3C..OB44  ; PVALID  # ORIYA SIGN NUKTA..ORIYA VOWEL SIGN VOCALIC R
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0C29        ; UNASSIGNED  # <reserved>
0C2A..0C39 ; PVALID    # TELUGU LETTER PA..TELUGU LETTER HA
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0C5B..0C5F ; UNASSIGNED  # <reserved>..<reserved>
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0C64..0C65 ; UNASSIGNED  # <reserved>..<reserved>
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0C80..0C83 ; PVALID    # KANNADA SIGN SPACING CANDRABINDU..KANNADA SI
0C84        ; DISALLOWED # KANNADA SIGN SIDDHAM
0C85..0C8C ; PVALID    # KANNADA LETTER A..KANNADA LETTER VOCALIC L
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0C91        ; UNASSIGNED  # <reserved>
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0CA4        ; UNASSIGNED  # <reserved>
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0CBC..0CC4 ; PVALID    # KANNADA SIGN NUKTA..KANNADA VOWEL SIGN VOCAL
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0D58..0D5E  ; DISALLOWED # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D5F..0D63  ; PVALID       # MALAYALAM LETTER ARCHAIC II..MALAYALAM VOWEL
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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>
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0DC7..0DC9  ; UNASSIGNED # <reserved>..<reserved>
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0DCB..0DCE  ; UNASSIGNED # <reserved>..<reserved>
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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 ANGHKANKHU..THAI CHARACTER KH
0E5C..0E80  ; UNASSIGNED  # <reserved>..<reserved>
0E81..0E82  ; PVALID  # LAO LETTER KO..LAO LETTER KHO SUNG
0E83  ; UNASSIGNED  # <reserved>
0E84  ; PVALID  # LAO LETTER KHO TAM
0E85..0E86  ; UNASSIGNED  # <reserved>..<reserved>
0E87..0E88  ; PVALID  # LAO LETTER NGO..LAO LETTER CO
0E89  ; UNASSIGNED  # <reserved>
0E8A  ; PVALID  # LAO LETTER SO TAM
0E8B..0E8C  ; UNASSIGNED  # <reserved>..<reserved>
0E8D  ; PVALID  # LAO LETTER NYO
0E8E..0E93  ; UNASSIGNED  # <reserved>..<reserved>
0E94..0E97  ; PVALID  # LAO LETTER DO..LAO LETTER THO TAM
0E98  ; UNASSIGNED  # <reserved>
0E99..0E9F  ; PVALID  # LAO LETTER NO..LAO LETTER FO SUNG
0EA0  ; UNASSIGNED  # <reserved>
0EA1..0EA3  ; PVALID  # LAO LETTER MO..LAO LETTER LO LING
0EA4  ; UNASSIGNED  # <reserved>
0EA5  ; PVALID  # LAO LETTER LO LOOT
0EA6  ; UNASSIGNED  # <reserved>
0EA7  ; PVALID  # LAO LETTER HO
0EA8..0EA9  ; UNASSIGNED  # <reserved>..<reserved>
0EAA..0EAB  ; PVALID  # LAO LETTER SO SUNG..LAO LETTER HO SUNG
0EAC  ; UNASSIGNED  # <reserved>
0EAD..0EB2  ; PVALID  # LAO LETTER O..LAO VOWEL SIGN AA
0EBA  ; UNASSIGNED  # <reserved>
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..0EDE  ; 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
0FA7 ; DISALLOWED # TIBETAN SUBJOINED LETTER BHA
0FA8..0FAB ; PVALID # TIBETAN SUBJOINED LETTER MA..TIBETAN SUBJOIN
0FAC ; DISALLOWED # TIBETAN SUBJOINED LETTER DZHA
0FAD..0FB8 ; PVALID # TIBETAN SUBJOINED LETTER WA..TIBETAN SUBJOIN
0FB9 ; DISALLOWED # TIBETAN SUBJOINED LETTER KSSA
0FBA..0FBC ; PVALID # TIBETAN SUBJOINED LETTER FIXED-FORM WA..TIBETAN SUBJOIN
0FBD ; UNASSIGNED # <reserved>
0FBE..0FC5 ; DISALLOWED # TIBETAN SYMBOL RDO RJE RGYA GRAM..TIBETAN SY
0FCD ; UNASSIGNED # <reserved>
0FCE..0FDA ; DISALLOWED # TIBETAN SIGN RDEL NAG RDEL DKAR..TIBETAN MAR
0FDB..0FFF ; UNASSIGNED # <reserved>..<reserved>
1000..1049 ; PVALID # MYANMAR LETTER KA..MYANMAR DIGIT NINE
104A..104F ; DISALLOWED # MYANMAR SIGN LITTLE SECTION..MYANMAR SYMBOL
1050..109D ; PVALID # MYANMAR LETTER SHA..MYANMAR VOWEL SIGN AITON
109E..10C5 ; DISALLOWED # MYANMAR SYMBOL SHAN ONE..GEORGIAN CAPITAL LE
10C6 ; UNASSIGNED # <reserved>
10C7 ; DISALLOWED # GEORGIAN CAPITAL LETTER YN
10C8..10CC ; UNASSIGNED # <reserved>..<reserved>
10CD ; DISALLOWED # GEORGIAN CAPITAL LETTER AEN
10CE..10CF ; UNASSIGNED # <reserved>..<reserved>
10D0..10FA ; PVALID # GEORGIAN LETTER AN..GEORGIAN LETTER AIN
10FB..10FC ; DISALLOWED # GEORGIAN PARAGRAPH SEPARATOR..MODIFIER LETTER
10FD..10FF ; UNASSIGNED # <reserved>..<reserved>
1100..11FF ; DISALLOWED # HANGUL CHOSEONG KIYEOK..HANGUL JONGSEONG SSA
1200..1248 ; PVALID # ETHIOPIC SYLLABLE HA..ETHIOPIC SYLLABLE QWA
1249 ; UNASSIGNED # <reserved>
124A..124D ; PVALID # ETHIOPIC SYLLABLE QWI..ETHIOPIC SYLLABLE QWE
124E..124F ; UNASSIGNED # <reserved>..<reserved>
1250..1256 ; PVALID # ETHIOPIC SYLLABLE QHA..ETHIOPIC SYLLABLE QHO
1257 ; UNASSIGNED # <reserved>
1258 ; PVALID # ETHIOPIC SYLLABLE QHWA
1259 ; UNASSIGNED # <reserved>
125A..125D ; PVALID # ETHIOPIC SYLLABLE QHWI..ETHIOPIC SYLLABLE QH
125E..125F ; UNASSIGNED # <reserved>..<reserved>
1260..1288 ; PVALID # ETHIOPIC SYLLABLE BA..ETHIOPIC SYLLABLE XWA
1289 ; UNASSIGNED # <reserved>
128A..128D ; PVALID # ETHIOPIC SYLLABLE XWI..ETHIOPIC SYLLABLE XWE
128E..128F ; UNASSIGNED # <reserved>..<reserved>
1290..12B0 ; PVALID # ETHIOPIC SYLLABLE NA..ETHIOPIC SYLLABLE KWA
12B1 ; UNASSIGNED # <reserved>
12B2..12B5 ; PVALID # ETHIOPIC SYLLABLE KWI..ETHIOPIC SYLLABLE KWE
12B6..12B7 ; UNASSIGNED # <reserved>..<reserved>
12BB..12BE ; PVALID # ETHIOPIC SYLLABLE KXA..ETHIOPIC SYLLABLE KXO
12BF ; UNASSIGNED # <reserved>
12C0 ; PVALID # ETHIOPIC SYLLABLE KXWA
12C1 ; UNASSIGNED # <reserved>
12C2..12C5 ; PVALID  # ETHIOPIAN SYLLABLE KXWI..ETHIOPIAN SYLLABLE KX
12C6..12C7 ; UNASSIGNED # <reserved>..<reserved>
12C8..12D6 ; PVALID  # ETHIOPIAN SYLLABLE WA..ETHIOPIAN SYLLABLE PHAR
12D7 ; UNASSIGNED # <reserved>
12D8..1310 ; PVALID  # ETHIOPIAN SYLLABLE ZA..ETHIOPIAN SYLLABLE GWA
1311 ; UNASSIGNED # <reserved>
1312..1315 ; PVALID  # ETHIOPIAN SYLLABLE GWI..ETHIOPIAN SYLLABLE GWE
1316..1317 ; UNASSIGNED # <reserved>..<reserved>
1318..135A ; PVALID  # ETHIOPIAN SYLLABLE GGA..ETHIOPIAN SYLLABLE FYA
135B..135C ; UNASSIGNED # <reserved>..<reserved>
135D..135F ; PVALID  # ETHIOPIAN COMBINING GEMINATION AND VOWEL LENG
1360..138F ; PVALID  # ETHIOPIAN SYLLABLE SEBATBEIT MWA..ETHIOPIAN SYLLABLE GWA
1390..139F ; DISALLOWED # ETHIOPIAN TONAL MARK YIZET..ETHIOPIAN TONAL MA
13A0..13F5 ; PVALID  # CHEROKEE LETTER A..CHEROKEE LETTER MV
13F6..13FD ; DISALLOWED # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET
1400 ; DISALLOWED # CANADIAN SYLLABICS HYPHEN
1401..166C ; PVALID  # CANADIAN SYLLABICS E..CANADIAN SYLLABICS CAR
166D..166E ; DISALLOWED # CANADIAN SYLLABICS CHI SIGN..CANADIAN SYLLAB
166F..16FF ; PVALID  # CANADIAN SYLLABICS QAI..CANADIAN SYLLABICS B
1680 ; DISALLOWED # OGHAM SPACE MARK
1681..169C ; PVALID  # OGHAM LETTER BEITH..OGHAM LETTER PEITH
169D..169F ; DISALLOWED # OGHAM FEATHER MARK..OGHAM REVERSED FEATHER M
16A0..16EA ; PVALID  # RUNIC LETTER FEHU FEOH FE F..RUNIC LETTER X
16EB..16F0 ; DISALLOWED # RUNIC SINGLE PUNCTUATION..RUNIC BELGTHOR SYM
16F1..16F8 ; PVALID  # RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A
16F9..16FF ; UNASSIGNED # <reserved>..<reserved>
1700..170C ; PVALID  # TAGALOG LETTER A..TAGALOG LETTER YA
170D ; UNASSIGNED # <reserved>
170E..1714 ; PVALID  # TAGALOG LETTER LA..TAGALOG SIGN VIRAMA
1715..171F ; UNASSIGNED # <reserved>..<reserved>
1720..1734 ; PVALID  # HANUNOO LETTER A..HANUNOO SIGN PAMUDPOD
1735..1736 ; DISALLOWED # PHILIPPINE SINGLE PUNCTUATION..PHILIPPINE DO
1737..173F ; DISALLOWED # <reserved>..<reserved>
1740..1753 ; PVALID  # BUHID LETTER A..BUHID VOWEL SIGN U
1754..175F ; UNASSIGNED # <reserved>..<reserved>
1760..176C ; PVALID  # TAGBANWA LETTER A..TAGBANWA LETTER YA
176D ; UNASSIGNED # <reserved>
176E..1770 ; PVALID  # TAGBANWA LETTER LA..TAGBANWA LETTER SA
1771 ; UNASSIGNED # <reserved>
1772..1773 ; PVALID  # TAGBANWA VOWEL SIGN I..TAGBANWA VOWEL SIGN U
1774..177F ; UNASSIGNED # <reserved>..<reserved>
1780..17B3 ; PVALID  # KHMER LETTER KA..KHMER INDEPENDENT VOWEL QAU
17B4..17B5  ; DISALLOWED # KHMER VOWEL INHERENT AQ..KHMER VOWEL INHERENT
17B6..17D3  ; PVALID  # KHMER VOWEL SIGN AA..KHMER SIGN BATHAMASAT
17D4..17D6  ; DISALLOWED # KHMER SIGN KHAN..KHMER SIGN CAMNUC PIU KUUH
17D7  ; PVALID  # KHMER SIGN LEK TOO
17D8..17DB  ; DISALLOWED # KHMER SIGN BEYYAL..KHMER CURRENCY SYMBOL RIE
17DC..17DD  ; PVALID  # KHMER SIGN ABAKRAHASANYA..KHMER SIGN ATHACA
17DE..17E9  ; UNASSIGNED # <reserved>..<reserved>
17EA..17EF  ; UNASSIGNED # <reserved>..<reserved>
17F0..17F9  ; DISALLOWED # KHMER SIGN LEK ATTAK SON..KHMER SIGN 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..188A  ; PVALID  # MONGOLIAN LETTER ALI GALI ANUSVARA ONE..MONG
188B..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
1941..1943  ; UNASSIGNED # <reserved>..<reserved>
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..19AB  ; 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
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..1B91  ; PVALID # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
1B93..1B94  ; UNASSIGNED # <reserved>..<reserved>
1B9B..1BFF  ; DISALLOWED # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1C00..1C3F  ; PVALID # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C38..1C3A  ; UNASSIGNED # <reserved>..<reserved>
1C3B..1C3F  ; DISALLOWED # LEPCHA PUNCTUATION TA-ROL..LEPCHA PUNCTUATIO
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..1CBA  ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBB..1CBC  ; UNASSIGNED # <reserved>..<reserved>
1CBD..1CC7  ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CC8..1CCF  ; UNASSIGNED # <reserved>..<reserved>
1CD0..1CD7  ; PVALID # VEDIC TONE KARSHANA..VEDIC TONE PRENKHA
1CD8..1CDF  ; 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..1D2E  ; 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>
1DFB..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 MA
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
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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 X WITH DOT BELOW
1E89        ; PVALID   # LATIN SMALL LETTER X WITH DOT BELOW
1E8A        ; DISALLOWED # LATIN CAPITAL LETTER X WITH DOT ABOVE
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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
1ECB ; PVALID  # LATIN SMALL LETTER I WITH DOT BELOW
1ECC ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT BELOW
1ECD ; PVALID  # LATIN SMALL LETTER O WITH DOT BELOW
1ECE ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HOOK ABOVE
1ECF ; PVALID  # LATIN SMALL LETTER O WITH HOOK ABOVE
1ED0 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND A
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1ED9 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE
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1EDB ; PVALID  # LATIN SMALL LETTER O WITH HORN AND ACUTE
1ECC ; 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 ABOVE
1EDF ; PVALID  # LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE
1EE0 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND TILDE
1EE1 ; PVALID  # LATIN SMALL LETTER O WITH HORN AND TILDE
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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
1EEA ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND GRAVE
1EEB ; PVALID  # LATIN SMALL LETTER U WITH HORN AND GRAVE
1EEC ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND HOOK ABOVE
1EED ; PVALID  # LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE
1EEE ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND TILDE
1EEF ; PVALID  # LATIN SMALL LETTER U WITH HORN AND TILDE
1EF0 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW
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>
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1FB7..1FC4 ; DISALLOWED  # GREEK SMALL LETTER ALPHA WITH PERISPOMENI AN
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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..1FEF ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH VRACHY..GR
1FF0..1FFF ; UNASSIGNED # <reserved>..<reserved>
2000..200B ; DISALLOWED  # EN QUAD..ZERO WIDTH SPACE
200C..200D ; CONTEXTJ    # ZERO WIDTH NON-JOINER..ZERO WIDTH JOINER
200E..2064 ; DISALLOWED  # LEFT-TO-RIGHT MARK..INVISIBLE PLUS
2065  ; UNASSIGNED # <reserved>
2066..2071 ; DISALLOWED  # LEFT-TO-RIGHT ISOLATE..SUPERSCRIPT LATIN SMA
2072..2073 ; UNASSIGNED # <reserved>..<reserved>
2074..208E ; DISALLOWED  # SUPERSCRIPT FOUR..SUBSCRIPT RIGHT PARENTHESI
208F  ; UNASSIGNED # <reserved>
2090..209C ; DISALLOWED  # LATIN SUBSCRIPT SMALL LETTER A..LATIN SUBSCR
209D..209F ; UNASSIGNED # <reserved>..<reserved>
20A0..20BF ; DISALLOWED  # EURO-CURRENCY SIGN..BITCOIN SIGN
20C0..20CF ; UNASSIGNED # <reserved>..<reserved>
20D0..20F0 ; DISALLOWED  # COMBINING LEFT HARPOON ABOVE..COMBINING ASTE
20F1..20FF ; UNASSIGNED # <reserved>..<reserved>
2100..214D ; DISALLOWED  # ACCOUNT OF..AKTIESELSKAB
214E  ; PVALID    # TURNED SMALL F
214F..2183  ; DISALLOWED  # SYMBOL FOR SAMARITAN SOURCE..ROMAN NUMERAL R
2184  ; PVALID  # LATIN SMALL LETTER REVERSED C
2185..218B  ; DISALLOWED  # ROMAN NUMERAL SIX LATE FORM..TURNED DIGIT TH
218C..218F  ; UNASSIGNED  # <reserved>..<reserved>
2190..2426  ; DISALLOWED  # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
2427..243F  ; UNASSIGNED  # <reserved>..<reserved>
2440..244A  ; DISALLOWED  # OCR HOOK..OCR DOUBLE BACKSLASH
244B..245F  ; UNASSIGNED  # <reserved>..<reserved>
2460..2B73  ; DISALLOWED  # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
2B74..2B75  ; UNASSIGNED  # <reserved>..<reserved>
2B76..2B95  ; DISALLOWED  # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
2B96..2B97  ; UNASSIGNED  # <reserved>..<reserved>
2B98..2BC8  ; DISALLOWED  # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BC9  ; UNASSIGNED  # <reserved>
2B9A..2BEF  ; DISALLOWED  # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
2bff  ; UNASSIGNED  # <reserved>
2C00..2C2E  ; DISALLOWED  # GLAGOLITIC CAPITAL LETTER AZU..GLAGOLITIC CA
2C2F  ; UNASSIGNED  # <reserved>
2C30..2C5E  ; PVALID  # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMALL
2C5F  ; UNASSIGNED  # <reserved>
2C60  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOUBLE BAR
2C61  ; PVALID  # LATIN SMALL LETTER L WITH DOUBLE BAR
2C62..2C64  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LA
2C65..2C66  ; PVALID  # LATIN SMALL LETTER A WITH STROKE..LATIN SMALL
2C67  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DESCENDER
2C68  ; PVALID  # LATIN SMALL LETTER H WITH DESCENDER
2C69  ; DISALLOWED  # LATIN CAPITAL LETTER K WITH DESCENDER
2C6A  ; PVALID  # LATIN SMALL LETTER K WITH DESCENDER
2C6B  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DESCENDER
2C6C  ; PVALID  # LATIN SMALL LETTER Z WITH DESCENDER
2C6D..2C70  ; DISALLOWED  # LATIN CAPITAL LETTER ALPHA..LATIN CAPITAL LE
2C71  ; PVALID  # LATIN SMALL LETTER V WITH RIGHT HOOK
2C72  ; DISALLOWED  # LATIN CAPITAL LETTER W WITH HOOK
2C73..2C74  ; PVALID  # LATIN SMALL LETTER W WITH HOOK..LATIN SMALL
2C75  ; DISALLOWED  # LATIN CAPITAL LETTER HALF H
2C76..2C7B  ; PVALID  # LATIN SMALL LETTER HALF H..LATIN SMALL
2C7C..2C80  ; DISALLOWED  # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPITAL
2C81  ; PVALID  # COPTIC SMALL LETTER ALFA
2C82  ; DISALLOWED  # COPTIC CAPITAL LETTER VIDA
2C83  ; PVALID  # COPTIC SMALL LETTER VIDA
2C84  ; DISALLOWED  # COPTIC CAPITAL LETTER GAMMA
2C85  ; PVALID  # COPTIC SMALL LETTER GAMMA
2C86  ; DISALLOWED  # COPTIC CAPITAL LETTER DALDA
2C87  ; PVALID  # COPTIC SMALL LETTER DALDA
2C88  ; DISALLOWED  # COPTIC CAPITAL LETTER EIE
2C89  ; PVALID  # COPTIC SMALL LETTER EIE
2C8A  ; DISALLOWED  # COPTIC CAPITAL LETTER SOU
2C8B  ; PVALID  # COPTIC SMALL LETTER SOU
2C8C ; DISALLOWED # COPTIC CAPITAL LETTER ZATA
2C8D ; PVALID  # COPTIC SMALL LETTER ZATA
2C8E ; DISALLOWED # COPTIC CAPITAL LETTER HATE
2C8F ; PVALID  # COPTIC SMALL LETTER HATE
2C90 ; DISALLOWED # COPTIC CAPITAL LETTER THETHE
2C91 ; PVALID  # COPTIC SMALL LETTER THETHE
2C92 ; DISALLOWED # COPTIC CAPITAL LETTER IAUDA
2C93 ; PVALID  # COPTIC SMALL LETTER IAUDA
2C94 ; DISALLOWED # COPTIC CAPITAL LETTER KAPA
2C95 ; PVALID  # COPTIC SMALL LETTER KAPA
2C96 ; DISALLOWED # COPTIC CAPITAL LETTER LAULA
2C97 ; PVALID  # COPTIC SMALL LETTER LAULA
2C98 ; DISALLOWED # COPTIC CAPITAL LETTER MI
2C99 ; PVALID  # COPTIC SMALL LETTER MI
2C9A ; DISALLOWED # COPTIC CAPITAL LETTER NI
2C9B ; PVALID  # COPTIC SMALL LETTER NI
2C9C ; DISALLOWED # COPTIC CAPITAL LETTER KSI
2C9D ; PVALID  # COPTIC SMALL LETTER KSI
2C9E ; DISALLOWED # COPTIC CAPITAL LETTER O
2C9F ; PVALID  # COPTIC SMALL LETTER O
2CA0 ; DISALLOWED # COPTIC CAPITAL LETTER PI
2CA1 ; PVALID  # COPTIC SMALL LETTER PI
2CA2 ; DISALLOWED # COPTIC CAPITAL LETTER RO
2CA3 ; PVALID  # COPTIC SMALL LETTER RO
2CA4 ; DISALLOWED # COPTIC CAPITAL LETTER SIMA
2CA5 ; PVALID  # COPTIC SMALL LETTER SIMA
2CA6 ; DISALLOWED # COPTIC CAPITAL LETTER TAU
2CA7 ; PVALID  # COPTIC SMALL LETTER TAU
2CA8 ; DISALLOWED # COPTIC CAPITAL LETTER UA
2CA9 ; PVALID  # COPTIC SMALL LETTER UA
2CAA ; DISALLOWED # COPTIC CAPITAL LETTER FI
2CAB ; PVALID  # COPTIC SMALL LETTER FI
2CAC ; DISALLOWED # COPTIC CAPITAL LETTER KHI
2CAD ; PVALID  # COPTIC SMALL LETTER KHI
2CAE ; DISALLOWED # COPTIC CAPITAL LETTER PSI
2CAF ; PVALID  # COPTIC SMALL LETTER PSI
2CB0 ; DISALLOWED # COPTIC CAPITAL LETTER OOU
2CB1 ; PVALID  # COPTIC SMALL LETTER OOU
2CB2 ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P ALEF
2CB3 ; PVALID  # COPTIC SMALL LETTER DIALECT-P ALEF
2CB4 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC AIN
2CB5 ; PVALID  # COPTIC SMALL LETTER OLD COPTIC AIN
2CB6 ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC EIE
2CB7 ; PVALID  # COPTIC SMALL LETTER CRYPTOGRAMMIC EIE
2CB8 ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P KAPA
2CB9 ; PVALID  # COPTIC SMALL LETTER DIALECT-P KAPA
2CBA ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P NI
2CBB ; PVALID  # COPTIC SMALL LETTER DIALECT-P NI
2D00..2D25  ; PVALID  # GEORGIAN SMALL LETTER AN..GEORGIAN SMALL LETTER AE
2D26        ; UNASSIGNED  # <reserved>
2D27        ; PVALID  # GEORGIAN SMALL LETTER WN
2D28..2D2C  ; UNASSIGNED  # <reserved>..<reserved>
2D2D        ; PVALID  # GEORGIAN SMALL LETTER AEN
2D2E..2D2F  ; UNASSIGNED  # <reserved>..<reserved>
2D30..2D67  ; PVALID  # TIFINAGH LETTER YA..TIFINAGH LETTER YO
2D68..2D6E  ; UNASSIGNED  # <reserved>..<reserved>
2D6F..2D70  ; DISALLOWED  # TIFINAGH MODIFIER LETTER LABIALIZATION MARK.
2D71..2D7E  ; UNASSIGNED  # <reserved>..<reserved>
2D7F..2D96  ; PVALID  # TIFINAGH CONSONANT JOINER..ETHIOPIC SYLLABLE
2D97..2D9F  ; UNASSIGNED  # <reserved>..<reserved>
2DA0..2DA6  ; PVALID  # ETHIOPIC SYLLABLE SSA..ETHIOPIC SYLLABLE SSO
2DA7        ; UNASSIGNED  # <reserved>
2DA8..2DAE  ; PVALID  # ETHIOPIC SYLLABLE CCA..ETHIOPIC SYLLABLE CCO
2DAF        ; UNASSIGNED  # <reserved>
2DB0..2DB6  ; PVALID  # ETHIOPIC SYLLABLE ZZA..ETHIOPIC SYLLABLE ZZO
2DB7        ; UNASSIGNED  # <reserved>
2DB8..2DBE  ; PVALID  # ETHIOPIC SYLLABLE CCHA..ETHIOPIC SYLLABLE CC
2DBF        ; UNASSIGNED  # <reserved>
2DC0..2DC6  ; PVALID  # ETHIOPIC SYLLABLE QYA..ETHIOPIC SYLLABLE QYO
2DC7        ; UNASSIGNED  # <reserved>
2DC8..2DCE  ; PVALID  # ETHIOPIC SYLLABLE KYA..ETHIOPIC SYLLABLE KYO
2DCF        ; UNASSIGNED  # <reserved>
2DD0..2DD6  ; PVALID  # ETHIOPIC SYLLABLE XYA..ETHIOPIC SYLLABLE XYO
2DD7        ; UNASSIGNED  # <reserved>
2DD8..2DDE  ; PVALID  # ETHIOPIC SYLLABLE YGA..ETHIOPIC SYLLABLE YGO
2DDF        ; UNASSIGNED  # <reserved>
2DE0..2DFF  ; PVALID  # COMBINING CYRILLIC LETTER BE..COMBINING CYRILLIC LETTER BET
2E00..2E2E  ; DISALLOWED  # RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QUESTION MARK
2E2F        ; PVALID  # VERTICAL TILDE
2E30..2E4E  ; DISALLOWED  # RING POINT..PUNCTUS ELEVATUS MARK
2E4F..2E7F  ; UNASSIGNED  # <reserved>..<reserved>
2E80..2E99  ; DISALLOWED  # CJK RADICAL REPEAT..CJK RADICAL RAP
2EA9        ; UNASSIGNED  # <reserved>
2EB9..2EF3  ; DISALLOWED  # CJK RADICAL CHOKER..CJK RADICAL C-SIMPLIFIED
2EF4..2EFF  ; UNASSIGNED  # <reserved>..<reserved>
2F00..2FD5  ; DISALLOWED  # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2FD6..2FEF  ; UNASSIGNED  # <reserved>..<reserved>
2FF0..2FFB  ; DISALLOWED  # IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT
2FFC..2FFF  ; UNASSIGNED  # <reserved>..<reserved>
3000..3004  ; DISALLOWED  # IDEOGRAPHIC SPACE..JAPANESE INDUSTRIAL STANDARD
3005..3007  ; PVALID  # IDEOGRAPHIC ITERATION MARK.. IDEOGRAPHIC NUMBER
3008..3029  ; DISALLOWED  # LEFT ANGLE BRACKET..HANGZHOU NUMERAL NINE
302A..302D  ; PVALID  # IDEOGRAPHIC LEVEL TONE MARK.. IDEOGRAPHIC EN TONE MARK
302E..303B  ; DISALLOWED  # HANGUL SINGLE DOT TONE MARK..VERTICAL IDEOGRAPHIC MARK
303C        ; PVALID  # MUSU MARK
303D..303F  ; DISALLOWED  # PART ALTERNATION MARK.. IDEOGRAPHIC HALF FILL
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A648  ; DISALLOWED  # CYRILLIC CAPITAL LETTER DJERV
A649  ; PVALID      # CYRILLIC SMALL LETTER DJERV
A64A  ; DISALLOWED  # CYRILLIC CAPITAL LETTER MONOGRAPH UK
A64B  ; PVALID      # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER BROAD OMEGA
A64D  ; PVALID      # CYRILLIC SMALL LETTER BROAD OMEGA
A64E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER NEUTRAL YER
A64F  ; PVALID      # CYRILLIC SMALL LETTER NEUTRAL YER
A650  ; DISALLOWED  # CYRILLIC CAPITAL LETTER YERU WITH BACK YER
A651  ; PVALID      # CYRILLIC SMALL LETTER YERU WITH BACK YER
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A653  ; PVALID      # CYRILLIC SMALL LETTER IOTIFIED YAT
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A655  ; PVALID      # CYRILLIC SMALL LETTER REVERSED YU
A656  ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED A
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A659  ; PVALID      # CYRILLIC SMALL LETTER CLOSED LITTLE YUS
A65A  ; DISALLOWED  # CYRILLIC CAPITAL LETTER BLENDED YUS
A65B  ; PVALID      # CYRILLIC SMALL LETTER BLENDED YUS
A65C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED CLOSED LITT
A65D  ; PVALID      # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
A65E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER YN
A65F  ; PVALID      # CYRILLIC SMALL LETTER YN
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A661  ; PVALID      # CYRILLIC SMALL LETTER REVERSED TSE
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A665  ; PVALID      # CYRILLIC SMALL LETTER SOFT EL
A666  ; DISALLOWED  # CYRILLIC CAPITAL LETTER SOFT EM
A667  ; PVALID      # CYRILLIC SMALL LETTER SOFT EM
A668  ; DISALLOWED  # CYRILLIC CAPITAL LETTER MONOCULAR O
A669  ; PVALID      # CYRILLIC SMALL LETTER MONOCULAR O
A66A  ; DISALLOWED  # CYRILLIC CAPITAL LETTER BINOCULAR O
A66B  ; PVALID      # CYRILLIC SMALL LETTER BINOCULAR O
A66C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F ; PVALID      # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673 ; DISALLOWED  # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D ; PVALID      # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E  ; DISALLOWED  # CYRILLIC KAVYKA
A67F  ; PVALID      # CYRILLIC PAYEROK
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A681  ; PVALID      # CYRILLIC SMALL LETTER DWE
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A685 ; PVALID  # CYRILLIC SMALL LETTER ZHWE
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A687 ; PVALID  # CYRILLIC SMALL LETTER CCHE
A688 ; DISALLOWED  # CYRILLIC CAPITAL LETTER DZZE
A689 ; PVALID  # CYRILLIC SMALL LETTER DZZE
A68A ; DISALLOWED  # CYRILLIC CAPITAL LETTER TE WITH MIDDLE HOOK
A68B ; PVALID  # CYRILLIC SMALL LETTER TE WITH MIDDLE HOOK
A68C ; DISALLOWED  # CYRILLIC CAPITAL LETTER TWE
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A699 ; PVALID  # CYRILLIC SMALL LETTER DOUBLE O
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A69B ; PVALID  # CYRILLIC SMALL LETTER CROSSED O
A69C..A69D ; DISALLOWED  # MODIFIER LETTER CYRILLIC HARD SIGN..MODIFIER
A69E..A69F ; PVALID  # COMBINING CYRILLIC LETTER EF..BAMUM LETTER K
A69G..A69H ; DISALLOWED  # BAMUM LETTER MO..BAMUM LETTER KOGHOM
A69I..A69J ; PVALID  # BAMUM COMBINING MARK KOQNDON..BAMUM COMBINING MARK KOQNDON
A69K..A69L ; DISALLOWED  # BAMUM NJAEMLI..BAMUM QUESTION MARK
A69M..A69N ; UNASSIGNED  # <reserved>..<reserved>
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A69Q..A69R ; PVALID  # MODIFIER LETTER DOT VERTICAL BAR..MODIFIER
A69S..A69T ; DISALLOWED  # MODIFIER LETTER STRESS AND HIGH TONE..LATIN
A69U..A69V ; PVALID  # LATIN SMALL LETTER EGYPTOLOGICAL ALEF
A69W..A69X ; DISALLOWED  # LATIN CAPITAL LETTER EGYPTOLOGICAL AIN
A69Y..A69Z ; PVALID  # LATIN SMALL LETTER EGYPTOLOGICAL AIN
A69A0..A69A1 ; DISALLOWED  # LATIN CAPITAL LETTER HENG
A69A2..A69A3 ; PVALID  # LATIN SMALL LETTER HENG
A69A4..A69A5 ; DISALLOWED  # LATIN CAPITAL LETTER TZ
A69A6..A69A7 ; PVALID  # LATIN SMALL LETTER TZ
A69A8..A69A9 ; DISALLOWED  # LATIN CAPITAL LETTER TRESILLO
A69AA..A69AB ; PVALID  # LATIN SMALL LETTER TRESILLO
A69AC..A69AD ; DISALLOWED  # LATIN CAPITAL LETTER CUATRILLO
A69AE..A69AF ; PVALID  # LATIN SMALL LETTER CUATRILLO
A69B0..A69B1 ; DISALLOWED  # LATIN CAPITAL LETTER CUATRILLO WITH COMMA
A69B2..A69B3 ; PVALID  # LATIN SMALL LETTER CUATRILLO WITH COMMA..LAT
A69B4..A69B5 ; DISALLOWED  # LATIN CAPITAL LETTER AA
A69B6..A69B7 ; PVALID  # LATIN SMALL LETTER AA
A734       ; DISALLOWED # LATIN CAPITAL LETTER AO
A735       ; PVALID  # LATIN SMALL LETTER AO
A736       ; DISALLOWED # LATIN CAPITAL LETTER AU
A737       ; PVALID  # LATIN SMALL LETTER AU
A738       ; DISALLOWED # LATIN CAPITAL LETTER AV
A739       ; PVALID  # LATIN SMALL LETTER AV
A73A       ; DISALLOWED # LATIN CAPITAL LETTER AV WITH HORIZONTAL BAR
A73B       ; PVALID  # LATIN SMALL LETTER AV WITH HORIZONTAL BAR
A73C       ; DISALLOWED # LATIN CAPITAL LETTER AY
A73D       ; PVALID  # LATIN SMALL LETTER AY
A73E       ; DISALLOWED # LATIN CAPITAL LETTER REVERSED C WITH DOT
A73F       ; PVALID  # LATIN SMALL LETTER REVERSED C WITH DOT
A740       ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE
A741       ; PVALID  # LATIN SMALL LETTER K WITH STROKE
A742       ; DISALLOWED # LATIN CAPITAL LETTER K WITH DIAGONAL STROKE
A743       ; PVALID  # LATIN SMALL LETTER K WITH DIAGONAL STROKE
A744       ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE AND DIAGONAL STROKE
A745       ; PVALID  # LATIN SMALL LETTER K WITH STROKE AND DIAGONAL STROKE
A746       ; DISALLOWED # LATIN CAPITAL LETTER BROKEN L
A747       ; PVALID  # LATIN SMALL LETTER BROKEN L
A748       ; DISALLOWED # LATIN CAPITAL LETTER L WITH HIGH STROKE
A749       ; PVALID  # LATIN SMALL LETTER L WITH HIGH STROKE
A74A       ; DISALLOWED # LATIN CAPITAL LETTER O WITH LONG STROKE OVER L
A74B       ; PVALID  # LATIN SMALL LETTER O WITH LONG STROKE OVER L
A74C       ; DISALLOWED # LATIN CAPITAL LETTER O WITH LOOP
A74D       ; PVALID  # LATIN SMALL LETTER O WITH LOOP
A74E       ; DISALLOWED # LATIN CAPITAL LETTER OO
A74F       ; PVALID  # LATIN SMALL LETTER OO
A750       ; DISALLOWED # LATIN CAPITAL LETTER P WITH STROKE THROUGH D
A751       ; PVALID  # LATIN SMALL LETTER P WITH STROKE THROUGH DES
A752       ; DISALLOWED # LATIN CAPITAL LETTER P WITH FLOURISH
A753       ; PVALID  # LATIN SMALL LETTER P WITH FLOURISH
A754       ; DISALLOWED # LATIN CAPITAL LETTER P WITH SQUIRREL TAIL
A755       ; PVALID  # LATIN SMALL LETTER P WITH SQUIRREL TAIL
A756       ; DISALLOWED # LATIN CAPITAL LETTER Q WITH STROKE THROUGH D
A757       ; PVALID  # LATIN SMALL LETTER Q WITH STROKE THROUGH DES
A758       ; DISALLOWED # LATIN CAPITAL LETTER Q WITH DIAGONAL STROKE
A759       ; PVALID  # LATIN SMALL LETTER Q WITH DIAGONAL STROKE
A75A       ; DISALLOWED # LATIN CAPITAL LETTER R ROTUNDA
A75B       ; PVALID  # LATIN SMALL LETTER R ROTUNDA
A75C       ; DISALLOWED # LATIN CAPITAL LETTER RUM ROTUNDA
A75D       ; PVALID  # LATIN SMALL LETTER RUM ROTUNDA
A75E       ; DISALLOWED # LATIN CAPITAL LETTER V WITH DIAGONAL STROKE
A75F       ; PVALID  # LATIN SMALL LETTER V WITH DIAGONAL STROKE
A760       ; DISALLOWED # LATIN CAPITAL LETTER VY
A761       ; PVALID  # LATIN SMALL LETTER VY
A762       ; DISALLOWED # LATIN CAPITAL LETTER VISIGOTHIC Z
A763       ; PVALID  # LATIN SMALL LETTER VISIGOTHIC Z
A764        ; DISALLOWED  # LATIN CAPITAL LETTER THORN WITH STROKE
A765        ; PVALID  # LATIN SMALL LETTER THORN WITH STROKE
A766        ; DISALLOWED  # LATIN CAPITAL LETTER THORN WITH STROKE THROUGH
A767        ; PVALID  # LATIN SMALL LETTER THORN WITH STROKE THROUGH
A768        ; DISALLOWED  # LATIN CAPITAL LETTER VEND
A769        ; PVALID  # LATIN SMALL LETTER VEND
A76A        ; DISALLOWED  # LATIN CAPITAL LETTER ET
A76B        ; PVALID  # LATIN SMALL LETTER ET
A76C        ; DISALLOWED  # LATIN CAPITAL LETTER IS
A76D        ; PVALID  # LATIN SMALL LETTER IS
A76E        ; DISALLOWED  # LATIN CAPITAL LETTER CON
A76F        ; PVALID  # LATIN SMALL LETTER CON
A770        ; DISALLOWED  # MODIFIER LETTER US
A771..A778  ; PVALID  # LATIN SMALL LETTER DUM..LATIN SMALL LETTER U
A779        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR D
A77A        ; PVALID  # LATIN SMALL LETTER INSULAR D
A77B        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR F
A77C        ; PVALID  # LATIN SMALL LETTER INSULAR F
A77D..A77E  ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR G..LATIN CAPITAL LETTER INSULAR H
A77F        ; PVALID  # LATIN SMALL LETTER TURNED INSULAR G
A780        ; DISALLOWED  # LATIN CAPITAL LETTER TURNED L
A781        ; PVALID  # LATIN SMALL LETTER TURNED L
A782        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR R
A783        ; PVALID  # LATIN SMALL LETTER INSULAR R
A784        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR S
A785        ; PVALID  # LATIN SMALL LETTER INSULAR S
A786        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR T
A787..A788  ; PVALID  # LATIN SMALL LETTER INSULAR T..MODIFIER LETTER US
A789..A78B  ; DISALLOWED  # MODIFIER LETTER COLON..LATIN CAPITAL LETTER
A78C        ; PVALID  # LATIN SMALL LETTER SALTILLO
A78D        ; DISALLOWED  # LATIN CAPITAL LETTER TURNED H
A78E..A78F  ; PVALID  # LATIN SMALL LETTER L WITH RETROFLEX HOOK AND
A790        ; DISALLOWED  # LATIN CAPITAL LETTER N WITH DESCENDER
A791        ; PVALID  # LATIN SMALL LETTER N WITH DESCENDER
A792        ; DISALLOWED  # LATIN CAPITAL LETTER C WITH BAR
A793..A795  ; PVALID  # LATIN SMALL LETTER C WITH BAR..LATIN SMALL L
A796        ; DISALLOWED  # LATIN CAPITAL LETTER B WITH FLOURISH
A797        ; PVALID  # LATIN SMALL LETTER B WITH FLOURISH
A798        ; DISALLOWED  # LATIN CAPITAL LETTER F WITH STROKE
A799        ; PVALID  # LATIN SMALL LETTER F WITH STROKE
A79A        ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK AE
A79B        ; PVALID  # LATIN SMALL LETTER VOLAPUK AE
A79C        ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK OE
A79D        ; PVALID  # LATIN SMALL LETTER VOLAPUK OE
A79E        ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK UE
A79F        ; PVALID  # LATIN SMALL LETTER VOLAPUK UE
A7A0        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH OBLIQUE STROKE
A7A1        ; PVALID  # LATIN SMALL LETTER G WITH OBLIQUE STROKE
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
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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  # ARABIAN SMALL LIGATURE MEN NOW..ARMENIAN SM
FB18..FB1C  ; UNASSIGNED  # <reserved>..<reserved>
FB1D   ; DISALLOWED  # HEBREW LETTER YOD WITH HIRIQ
FB1E   ; PVALID    # HEBREW POINT JUDEO-SPANISH VARIAKA
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>
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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..FB50  ; DISALLOWED  # HEBREW LETTER TSADI WITH DAGESH..ARABIC SYMB
FBC2..FBDE  ; UNASSIGNED  # <reserved>..<reserved>
FBD3..FDF2  ; DISALLOWED  # ARABIC LETTER NG ISOLATED FORM..ORNATE SYMB
FD40..FD5F  ; UNASSIGNED  # <reserved>..<reserved>
FD50..FD7F  ; DISALLOWED  # ARABIC LIGATURE TEH WITH JEEM WITH MEEM INIT
FD90..FD91  ; UNASSIGNED  # <reserved>..<reserved>
FD92..FDCA  ; DISALLOWED  # ARABIC LIGATURE MEEM WITH JEEM WITH KHAH INIT
FDC8..FDFF  ; UNASSIGNED  # <reserved>..<reserved>
FDFD..FDFD  ; DISALLOWED  # <noncharacter>..<ARABIC LIGATURE BISMILLAH AR
FDEF..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..FULLWIDTH HANGUL
FFBF..FFC1  ; UNASSIGNED  # <reserved>..<reserved>
FFC2..FFC7  ; DISALLOWED  # HALFWIDTH HANGUL LETTER A..HALFWIDTH HANGUL
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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>
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FFE9..FFFF  ; UNASSIGNED  # <reserved>..<reserved>
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F000C       ; UNASSIGNED  # <reserved>
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F0027       ; UNASSIGNED  # <reserved>
F0028..F003A; PVALID     # LINEAR B SYLLABLE B060 RA..LINEAR B SYLLABLE
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F003E       ; UNASSIGNED  # <reserved>
F003F..F004D; PVALID     # LINEAR B SYLLABLE B020 ZO..LINEAR B SYLLABLE
F004E..F004F; UNASSIGNED  # <reserved>..<reserved>
F0050..F005D; PVALID     # LINEAR B SYMBOL B018..LINEAR B SYMBOL B089
F005E..F007F; UNASSIGNED  # <reserved>..<reserved>
F0080..F00FA; PVALID     # LINEAR B IDEOGRAPH B100 MAN..LINEAR B IDEOGRAPH
F00FB..F00FF; UNASSIGNED  # <reserved>..<reserved>
F0100..F0102; DISALLOWED  # AEGEAN WORD SEPARATOR LINE..AEGEAN CHECK MARK
F0103..F0106; UNASSIGNED  # <reserved>..<reserved>
F0107..F0113; DISALLOWED  # AEGEAN NUMBER ONE..AEGEAN NUMBER NINETY THOUSAND
F0134..F0136; UNASSIGNED  # <reserved>..<reserved>
F0137..F013E; DISALLOWED  # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
F018F       ; UNASSIGNED  # <reserved>
F0190..F019B; DISALLOWED  # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN
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10809 ; UNASSIGNED # <reserved>
1080A..10835; PVALID # CYPRIO SYLLABLE KA..CYPRIO SYLLABLE WO
10836 ; UNASSIGNED # <reserved>
10837..1083B; PVALID # CYPRIO SYLLABLE KA..CYPRIO SYLLABLE XE
10839..1083B; UNASSIGNED # <reserved>..<reserved>
1083C ; PVALID # CYPRIO SYLLABLE ZA
1083D..1083E; UNASSIGNED # <reserved>..<reserved>
1083F..10855; PVALID # CYPRIO SYLLABLE ZO..IMPERIAL ARAMAIC LETTER
10856 ; UNASSIGNED # <reserved>
10857..1085F; DISALLOWED # IMPERIAL ARAMAIC SECTION SIGN..IMPERIAL ARAM
10860..10876; 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..108BF; 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..108F6; UNASSIGNED # <reserved>..<reserved>
108FF..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
10900..10915; PVALID # PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU
10916..1091B; DISALLOWED # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR
1091C..1091E; UNASSIGNED # <reserved>..<reserved>
1091F ; DISALLOWED # PHOENICIAN WORD SEPARATOR
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1093F ; DISALLOWED # LYDIAN TRIANGULAR MARK
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109B8..109B9; UNASSIGNED # <reserved>..<reserved>
109B9; PVALID # MEROITIC HIEROGLYPHIC LETTER A..MEROITIC CUR
109BE..109BF; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
109C0..109C0; PVALID # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
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10A04 ; UNASSIGNED # <reserved>
10A05..10A06; PVALID # KHAROSHTHI VOWEL SIGN E..KHAROSHTHI VOWEL SI
10A07..10A08; UNASSIGNED # <reserved>..<reserved>
10A0C..10A13; PVALID # KHAROSHTHI VOWEL LENGTH MARK..KHAROSHTHI LET
10A14 ; UNASSIGNED # <reserved>
10A15..10A17; PVALID # KAROSHTHI LETTER CA..KAROSHTHI LETTER JA
10A18; UNASSIGNED # <reserved>
10A19..10A35; PVALID # KAROSHTHI LETTER NYA..KAROSHTHI LETTER VHA
10A36..10A37; UNASSIGNED # <reserved>..<reserved>
10A38..10A3A; PVALID # KAROSHTHI SIGN BAR ABOVE..KAROSHTHI SIGN D
10A3B..10A3E; UNASSIGNED # <reserved>..<reserved>
10A3F; PVALID # KAROSHTHI VIRAMA
10A40..10A48; DISALLOWED # KAROSHTHI DIGIT ONE..KAROSHTHI DIGIT ON
10A49..10A4F; UNASSIGNED # <reserved>..<reserved>
10A50..10A58; DISALLOWED # KAROSHTHI PUNCTUATION DOT..KAROSHTHI PUNCT
10A59..10A5F; UNASSIGNED # <reserved>..<reserved>
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10A7D..10A7F; DISALLOWED # OLD SOUTH ARABIAN NUMBER ONE..OLD SOUTH ARAB
10A80..10A8C; PVALID # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10A8D..10A8F; DISALLOWED # OLD NORTH ARABIAN NUMBER ONE..OLD NORTH ARAB
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10A8..DISALLOWED # MANICHAEAN SIGN UD
10AC9..10AE6; PVALID # MANICHAEAN LETTER ZAYIN..MANICHAEAN ABBREVI
10AEB..10AF6; DISALLOWED # MANICHAEAN ABBREVIATION MARK..LARGE ONE RING OV
10B39..10B38; UNASSIGNED # <reserved>..<reserved>
10B3A..10B3F; DISALLOWED # AVESTAN ABBREVIATION MARK..LARGE ONE RING OV
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10B56..10B57; UNASSIGNED # <reserved>..<reserved>
10B58..10B5F; DISALLOWED # INSCRIPTIONAL PARTHIAN NUMBER ONE..INSCRIPTI
10B60..10B72; PVALID # INSCRIPTIONAL PAHLAVI LETTER ALEPH..INSCRIPTI
10B73..10B77; UNASSIGNED # <reserved>..<reserved>
10B7B..10B7F; DISALLOWED # INSCRIPTIONAL PAHLAVI NUMBER ONE..INSCRIPTI
10B80..10B89; PVALID # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10B92..10B98; UNASSIGNED # <reserved>..<reserved>
10B99..10B9C; DISALLOWED # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10B9D..10BA8; UNASSIGNED # <reserved>..<reserved>
10BA9..10BBA; DISALLOWED # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAV
10BB0..10BBF; UNASSIGNED # <reserved>..<reserved>
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10C49..10C7F; UNASSIGNED # <reserved>..<reserved>
10C80..10C82; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
10C83..10C8F; UNASSIGNED # <reserved>..<reserved>
10CC0..10CF2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CF3..10CF9; UNASSIGNED # <reserved>..<reserved>
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUM
10D00..10D27; PVALID # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D28..10D2F; UNASSIGNED # <reserved>..<reserved>
10D30..10D39; PVALID # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA
10D3A..10E5F; UNASSIGNED # <reserved>..<reserved>
10E60..10E7E; DISALLOWED  # RUMI DIGIT ONE..RUMI FRACTION TWO THIRDS
10E7F..10EFF; UNASSIGNED  # <reserved>..<reserved>
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10F1D..10F26; DISALLOWED  # OLD SOGDIAN NUMBER ONE..OLD SOGDIAN FRACTION
10F27; PVALID  # OLD SOGDIAN LIGATURE AYIN-DALETH
10F28..10F2F; UNASSIGNED  # <reserved>..<reserved>
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10F5A..10FFF; UNASSIGNED  # <reserved>..<reserved>
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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>
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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>
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110E0..110EF; UNASSIGNED  # <reserved>..<reserved>
110F0..110F9; PVALID  # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT
110FA..110FF; UNASSIGNED  # <reserved>..<reserved>
11100..1113F; 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..11146; PVALID  # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
11147..1114F; UNASSIGNED  # <reserved>..<reserved>
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11174..1117F; 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
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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
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16B90..16E3F; UNASSIGNED # <reserved>..<reserved>
16E40..16E5F; DISALLOWED # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN CAPITAL
16E60..16E77; PVALID  # MEDEFAIDRIN SMALL LETTER M..MEDEFAIDRIN SMALL LETTER
16E80..16E9A; DISALLOWED # MEDEFAIDRIN DIGIT ZERO..MEDEFAIDRIN DIGIT ZERO
16E9B..16EFF; UNASSIGNED # <reserved>..<reserved>
16F00..16F4F; PVALID  # MIAO LETTER PA..MIAO LETTER HHA
16F45..16F4F; UNASSIGNED # <reserved>..<reserved>
16F50..16F7F; PVALID  # MIAO LETTER NASALIZATION..MIAO VOWEL SIGN NG
16F7F..16F8F; UNASSIGNED # <reserved>..<reserved>
16F8F..16F9F; PVALID  # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
16FA0..16FDF; UNASSIGNED # <reserved>..<reserved>
17000..187F1; PVALID  # TANGUT ITERATION MARK..NUSHU ITERATION MARK
187F2..187FF; UNASSIGNED # <reserved>..<reserved>
18800..18AF2; PVALID  # TANGUT COMPONENT-001..TANGUT COMPONENT-755
18AF3..1AFFF; UNASSIGNED # <reserved>..<reserved>
1B000..1B11E; PVALID  # KATAKANA LETTER ARCHAIC E..HENTAIGANA LETTER
1B11F..1B16F; UNASSIGNED # <reserved>..<reserved>
1B170..1B2FB; PVALID  # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1B2FC..1BBFF; UNASSIGNED # <reserved>..<reserved>
1BCC0..1BCC9; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOWELIC M
1BC5B..1BC6F; UNASSIGNED # <reserved>..<reserved>
1BC70..1B7C7; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLOYAN
1BC7D..1BC7F; UNASSIGNED # <reserved>..<reserved>
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX H
1BC89..1BC8F; UNASSIGNED # <reserved>..<reserved>
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX L
1BC9A..1BC9B; UNASSIGNED # <reserved>..<reserved>
1BC9C; DISALLOWED # DUPLOYAN SIGN O WITH CROSS
1BC9D..1BC9E; PVALID  # DUPLOYAN THICK LETTER SELECTOR..DUPLOYAN DOU
1BC9F..1BCAF; DISALLOWED # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..SHOR
1BCC4..1CCF; UNASSIGNED # <reserved>..<reserved>
1D000..1D05F; DISALLOWED # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE MUSICAL SYMBOL
1D060..1D0FF; UNASSIGNED # <reserved>..<reserved>
1D100..1D126; DISALLOWED # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMBOL
1D127..1D128; UNASSIGNED # <reserved>..<reserved>
1D129..1D168; DISALLOWED # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICAL
1D169..1D1FF; UNASSIGNED # <reserved>..<reserved>
1D200..1D245; DISALLOWED # GREEK VOCALIC NOTATION SYMBOL-1..GREEK MUSICAL SYMBOL
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
1D357..1D35F; UNASSIGNED # <reserved>..<reserved>
1D360..1D378; DISALLOWED # COUNTING ROD UNIT DIGIT ONE..TALLY MARK FIVE
1D379..1D3FF; UNASSIGNED  # <reserved>..<reserved>
1D400..1D454; DISALLOWED  # MATHEMATICAL BOLD CAPITAL A..MATHEMATICAL IT
1D455; UNASSIGNED  # <reserved>
1D456..1D49C; DISALLOWED  # MATHEMATICAL ITALIC SMALL I..MATHEMATICAL SC
1D49D; UNASSIGNED  # <reserved>
1D49E..1D49F; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL C..MATHEMATICAL
1D4A0..1D4A1; UNASSIGNED  # <reserved>..<reserved>
1D4A2; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL G
1D4A3..1D4A4; UNASSIGNED  # <reserved>..<reserved>
1D4A5..1D4A6; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL J..MATHEMATICAL
1D4A7..1D4A8; UNASSIGNED  # <reserved>..<reserved>
1D4A9..1D4AC; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL N..MATHEMATICAL
1D4AD; UNASSIGNED  # <reserved>
1D4AE..1D4B9; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL
1D4BA; UNASSIGNED  # <reserved>
1D4BB; DISALLOWED  # MATHEMATICAL SCRIPT SMALL F
1D4BC; UNASSIGNED  # <reserved>
1D4BD..1D4C3; DISALLOWED  # MATHEMATICAL SCRIPT SMALL H..MATHEMATICAL SC
1D4C4; UNASSIGNED  # <reserved>
1D4C5..1D505; DISALLOWED  # MATHEMATICAL SCRIPT SMALL P..MATHEMATICAL FR
1D506; UNASSIGNED  # <reserved>
1D507..1D50A; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL D..MATHEMATICAL
1D50B..1D50C; UNASSIGNED  # <reserved>..<reserved>
1D50D..1D514; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL J..MATHEMATICAL
1D515; UNASSIGNED  # <reserved>
1D516..1D51C; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL S..MATHEMATICAL
1D51D; UNASSIGNED  # <reserved>
1D51E..1D539; DISALLOWED  # MATHEMATICAL FRAKTUR SMALL A..MATHEMATICAL D
1D53A; UNASSIGNED  # <reserved>
1D53B..1D53E; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL D..MATHEM
1D53F; UNASSIGNED  # <reserved>
1D540..1D544; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL I..MATHEM
1D545; UNASSIGNED  # <reserved>
1D546; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL O
1D547..1D549; UNASSIGNED  # <reserved>..<reserved>
1D54A..1D550; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL S..MATHEM
1D551; UNASSIGNED  # <reserved>
1D552..1D6A5; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK SMALL A..MATHEMAT
1D6A6..1D6A7; UNASSIGNED  # <reserved>..<reserved>
1D6A8..1D7CB; DISALLOWED  # MATHEMATICAL BOLD CAPITAL ALPHA..MATHEMATICA
1D7CC..1D7CD; UNASSIGNED  # <reserved>..<reserved>
1D7CE..1D9FF; DISALLOWED  # MATHEMATICAL BOLD DIGIT ZERO..SIGNWRITING HE
1DA00..1DA36; PVALID  # SIGNWRITING HEAD RIM..SIGNWRITING AIR SUCKIN
1DA37..1DA3A; DISALLOWED  # SIGNWRITING AIR BLOW SMALL ROTATIONS..SIGNWR
1DA3B..1DA6C; PVALID  # SIGNWRITING MOUTH CLOSED NEUTRAL..SIGNWRITIN
1DA6D..1DA74; DISALLOWED  # SIGNWRITING SHOULDER HIP SPINE..SIGNWRITING
1DA75; PVALID  # SIGNWRITING UPPER BODY TILTING FROM HIP JOIN
1DA76..1DA83; DISALLOWED  # SIGNWRITING LIMB COMBINATION..SIGNWRITING LO
1DA84 ; PVALID # SIGNWRITING LOCATION HEAD NECK
1DA85..1DA8B; DISALLOWED # SIGNWRITING LOCATION TORSO..SIGNWRITING PARE
1DA8C..1DA9A; UNASSIGNED # <reserved>..<reserved>
1DA9B..1DA9F; PVALID # SIGNWRITING FILL MODIFIER-2..SIGNWRITING FILL
1DA9 ; UNASSIGNED # <reserved>
1DAA1..1DAAF; PVALID # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING MODIFIER-2
1DAB0..1DFFF; UNASSIGNED # <reserved>..<reserved>
1E000..1E006; PVALID # COMBINING GLAGOLITIC LETTER AZU..COMBINING GLAGOLITIC LETTER AZU
1E007 ; UNASSIGNED # <reserved>
1E008..1E018; PVALID # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBINING GLAGOLITIC LETTER ZEMLJA
1E019..1E01A; UNASSIGNED # <reserved>..<reserved>
1E01B..1E021; PVALID # COMBINING GLAGOLITIC LETTER SHTA..COMBINING GLAGOLITIC LETTER SHTA
1E022 ; UNASSIGNED # <reserved>
1E023..1E024; PVALID # COMBINING GLAGOLITIC LETTER YU..COMBINING GLAGOLITIC LETTER YU
1E025 ; UNASSIGNED # <reserved>
1E026..1E02A; PVALID # COMBINING GLAGOLITIC LETTER YO..COMBINING GLAGOLITIC LETTER YO
1E02B..1E07F; UNASSIGNED # <reserved>..<reserved>
1E080..1E084; PVALID # Mende Kikakui Syllable M001 Ki..Mende Kikakui Syllable M001 Ki
1E085..1E086; UNASSIGNED # <reserved>..<reserved>
1E087..1E08F; DISALLOWED # Mende Kikakui Digit One..Mende Kikakui Digit One
1E090..1E091; DISALLOWED # Adlam Capital Letter Alif..Adlam Capital Letter Alif
1E092..1E09A; PVALID # Adlam Small Letter Alif..Adlam Nukta
1E09B..1E09F; UNASSIGNED # <reserved>..<reserved>
1E095..1E099; PVALID # Adlam Digit Zero..Adlam Digit Nine
1E09A..1E09D; UNASSIGNED # <reserved>..<reserved>
1E09E..1E09F; DISALLOWED # Adlam Initial Exclamation Mark..Adlam Initial Exclamation Mark
1E0A0..1E0A7; UNASSIGNED # <reserved>..<reserved>
1E0A8..1E0A9; DISALLOWED # Indic Siyaq Number One..Indic Siyaq Alternat
1E0B5..1E0DF; UNASSIGNED # <reserved>..<reserved>
1E0E0..1E0EF; DISALLOWED # Arabic Mathematical Alef..Arabic Mathematica
1E0F4 ; UNASSIGNED # <reserved>
1E0F5..1EE1F; DISALLOWED # Arabic Mathematical Waw..Arabic Mathematical Waw
1EE20 ; UNASSIGNED # <reserved>
1EE21..1EE22; DISALLOWED # Arabic Mathematical Initial Beh..Arabic Mathematical Initial Beh
1EE23 ; UNASSIGNED # <reserved>
1EE24 ; DISALLOWED # Arabic Mathematical Initial Heh
1EE25..1EE26; UNASSIGNED # <reserved>..<reserved>
1EE27 ; DISALLOWED # Arabic Mathematical Initial Hah
1EE28 ; UNASSIGNED # <reserved>
1EE29..1EE32; DISALLOWED # Arabic Mathematical Initial Yeh..Arabic Mathematical Initial Yeh
1EE33 ; UNASSIGNED # <reserved>
1EE34..1EE37; DISALLOWED # Arabic Mathematical Initial Sheen..Arabic Mathematical Initial Sheen
1EE38 ; UNASSIGNED # <reserved>
1EE39 ; DISALLOWED # Arabic Mathematical Initial Dad
1EE3A ; UNASSIGNED # <reserved>
1EE3B ; DISALLOWED # Arabic Mathematical Initial Ghain
1EE3C..1EE41; UNASSIGNED # <reserved>..<reserved>
1EE42; DISALLOWED # ARABIC MATHEMATICAL TAILED JEEM
1EE43..1EE46; UNASSIGNED # <reserved>..<reserved>
1EE47; DISALLOWED # ARABIC MATHEMATICAL TAILED HAH
1EE48; UNASSIGNED # <reserved>
1EE49; DISALLOWED # ARABIC MATHEMATICAL TAILED YEH
1EE4A; UNASSIGNED # <reserved>
1EE4B; DISALLOWED # ARABIC MATHEMATICAL TAILED LAM
1EE4C; UNASSIGNED # <reserved>
1EE4D..1EE4F; DISALLOWED # ARABIC MATHEMATICAL TAILED NOON..ARABIC MATH
1EE50; UNASSIGNED # <reserved>
1EE51..1EE52; DISALLOWED # ARABIC MATHEMATICAL TAILED SAD..ARABIC MATHE
1EE53; UNASSIGNED # <reserved>
1EE54; DISALLOWED # ARABIC MATHEMATICAL TAILED SHEEN
1EE55..1EE56: UNASSIGNED # <reserved>..<reserved>
1EE57; DISALLOWED # ARABIC MATHEMATICAL TAILED KHAH
1EE58; UNASSIGNED # <reserved>
1EE59; DISALLOWED # ARABIC MATHEMATICAL TAILED DAD
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1EE5B; DISALLOWED # ARABIC MATHEMATICAL TAILED GHAIN
1EE5C; UNASSIGNED # <reserved>
1EE5D; DISALLOWED # ARABIC MATHEMATICAL TAILED DOTLESS NOON
1EE5E; UNASSIGNED # <reserved>
1EE5F; DISALLOWED # ARABIC MATHEMATICAL TAILED DOTLESS QAF
1EE60; UNASSIGNED # <reserved>
1EE61..1EE62; DISALLOWED # ARABIC MATHEMATICAL STRETCHED BEH..ARABIC MA
1EE63; UNASSIGNED # <reserved>
1EE64; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HEH
1EE65..1EE66; UNASSIGNED # <reserved>..<reserved>
1EE67..1EE6A; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HAH..ARABIC MA
1EE6B; UNASSIGNED # <reserved>
1EE6C..1EE72; DISALLOWED # ARABIC MATHEMATICAL STRETCHED MEEM..ARABIC M
1EE73; UNASSIGNED # <reserved>
1EE74..1EE77; DISALLOWED # ARABIC MATHEMATICAL STRETCHED SHEEN..ARABIC
1EE78; UNASSIGNED # <reserved>
1EE79..1EE7C; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DAD..ARABIC MA
1EE7D; UNASSIGNED # <reserved>
1EE7E; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DOTLESS FEH
1EE7F; UNASSIGNED # <reserved>
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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..ARABI
1EEA4; UNASSIGNED # <reserved>
1EEA5..1EEA9; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK WAW..ARABI
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1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
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1F90C..1F90F; UNASSIGNED # <reserved>..<reserved>
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1F93F; UNASSIGNED # <reserved>
1F940..1F97F; DISALLOWED # WILTED FLOWER..SMILING FACE WITH SMILING EYE
1F971..1F97F; UNASSIGNED # <reserved>..<reserved>
1F973..1F976; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F977..1F97F; UNASSIGNED # <reserved>..<reserved>
1F97A; DISALLOWED # FACE WITH PLEADING EYES
1F97B; UNASSIGNED # <reserved>
1F97C..1F99F; DISALLOWED # LAB COAT..SWAN
1F9A3..1F9AF; UNASSIGNED # <reserved>..<reserved>
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E0020..E007F; DISALLOWED # TAG SPACE..CANCEL TAG
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EFFFE..10FFFF; DISALLOWED # <noncharacter>..<noncharacter>

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