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.

In a few cases changes have been made in the Unicode Standard related to the algorithm IDNA2008 specifies. IDNA2008 do give the ability to add exceptions for backward compatibility to the algorithm but the conclusions provided in this document suggests no such changes.

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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 Section 3.1). The standard include 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 was 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). Or the other way around, a code point that was not allowed (and because of that blocked in some situations) suddenly end up being allowed.

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

As described in Section 4, a few changes have been made regarding certain attributes to code points in Unicode between version 6.3.0 and 11.0.0. Such changes could result in either a change in the derived property value for the code point in question or no such change. In turn, if the result is a change, it can be between any of the derived property values except DISALLOWED. Also in this case, when moving from version 6.3.0 to 11.0.0, this document concludes that no exceptions are to be added to IDNA2008 even if changes in the derived property value is a result of the changes made in Unicode.

Specifically, 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:
o 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".

o 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".

o 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".

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

o 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".

o 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.

o 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 DISSALLOWED. IETF came to the conclusion the changes where 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.
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 those discussions ends 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 between Unicode 7.0.0 and 10.0.0

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

4.3. 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 of 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

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

To increase overall harmonization in the use of internationalized domain names, the author recommends that the derived property values MUST be calculated according to the IDNA2008 specification for Unicode Version 11.0.0 [Unicode-11.0.0].

All registries (and others) SHOULD calculate a repertoir, for example 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 property values are calculated correctly.

7. Security Considerations

Not following the recommendations regarding use of the IDNA2008 algorithm for calculation of the derived property value and/or 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

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9. References

9.1. Normative References
9.2.  Non-normative references

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

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         RFC 3491, DOI 10.17487/RFC3491, March 2003,

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[RFC5891] Klensin, J., "Internationalized Domain Names in Applications (IDNA): Protocol", RFC 5891,
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         RFC 5892, DOI 10.17487/RFC5892, August 2010,

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         RFC 6452, DOI 10.17487/RFC6452, November 2011,


Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0

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

037F ; DISALLOWED # GREEK CAPITAL LETTER YOT
0528..052F ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK..C
058D..058E ; DISALLOWED # RIGHT-FACING ARMENIAN ETERNITY SIGN..LEFT-FA
0605 ; DISALLOWED # ARABIC NUMBER MARK ABOVE
08A1 ; PVALID # ARABIC LETTER BEH WITH HAMZA ABOVE
08AD..08B2 ; PVALID # ARABIC LETTER LOW ALEF..ARABIC LETTER ZAIN W
08FF ; PVALID # ARABIC MARK SIDEWAYS NOON GHUNNA
0978 ; PVALID # DEVANAGARI LETTER MARWARI DDA
0980 ; PVALID # BENGALI ANJI
0C00 ; PVALID # TELEGU SIGN COMBINING CANDRABINDU ABOVE
0C34 ; PVALID # TELEGU LETTER LILLA
0C81 ; PVALID # KANNADA SIGN CANDRABINDU
0D01 ; PVALID # MALAYALAM SIGN CANDRABINDU
0DE6..0DEF ; PVALID # SINHALA LITH DIGIT ZERO..SINHALA LITH DIGIT
16F1..16F8 ; PVALID # RUNCIC LETTER K..RUNCIC LETTER FRANKS CASKET A
191D..191E ; PVALID # LIMBU LETTER GYAN..LIMBU LETTER TRA
1AB0..1ABE ; PVALID # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
1CF8..1CF9 ; PVALID # VEDIC TONE RING ABOVE..VEDIC TONE DOUBLE RIN
1DE7..1DF5 ; PVALID # COMBINING LATIN SMALL LETTER ALPHA..COMBININ
20B8..20BD ; DISALLOWED # NORDIC MARK SIGN..RUBLE SIGN
23F4..23FA ; DISALLOWED # BLACK MEDIUM LEFT-POINTING TRIANGLE..BLACK C
2700 ; DISALLOWED # BLACK SAFETY SCISSORS
2B4D..2B4F ; DISALLOWED # DOWNWARDS TRIANGLE-HEADED ZIGZAG ARROW..SHOR
2B5A..2B73 ; DISALLOWED # SLANTED NORTH ARROW WITH HOOKED HEAD..DOWNWA
2B76..2B95 ; DISALLOWED # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
2B98..2BB9 ; DISALLOWED # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BBD..2BC8 ; DISALLOWED # BALLOT 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-
A698..A69D ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE O..MODIFIER L
A794..A79F ; PVALID # LATIN SMALL LETTER C WITH PALATAL HOOK..LATI
A7AB..A7AD ; DISALLOWED # LATIN CAPITAL LETTER REVERSED OPEN E..LATIN
A7B0..A7B1 ; DISALLOWED # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL
A7F7 ; PVALID # LATIN EPIGRAPHIC LETTER SIDEWAYS I
A9E0..A9FE ; PVALID # MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI
AA7C..AA7F ; PVALID # MYANMAR SIGN TAI LAING TONE-2..MYANMAR LETTE
AB30..AB5F ; PVALID # LATIN SMALL LETTER BARRED ALPHA..MODIFIER LE
AB64..AB65 ; PVALID # LATIN SMALL LETTER INVERTED ALPHA..GREEK LET
FE27..FE2D ; PVALID # COMBINING LIGATURE LEFT HALF BELOW..COMBININ
1018C ; DISALLOWED # GREEK ONE QUARTER SIGN..GREEK SINUSOID SIGN
101A0 ; DISALLOWED # GREEK SYMBOL TAU RHO
102E0..102FB ; PVALID # COPTIC EPACT THOUSANDS MARK..COPTIC EPACT NU
1031F ; PVALID # OLD ITALIC LETTER ESS
10350..1037A; PVALID # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L
10500..10527; PVALID # ELBASAN LETTER A..ELBASAN LETTER KHE
10530..10563; PVALID # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
1056F; DISALLOWED # CAUCASIAN ALBANIAN CITATION MARK
10600..10736; PVALID # LINEAR A SIGN AB001..LINEAR A SIGN A664
10740..10755; PVALID # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10760..10767; PVALID # LINEAR A SIGN A800..LINEAR A SIGN A807
10860..1089E; PVALID # PALMYRENE LETTER ALEPH..NABATAEAN LETTER TAW
108A7..108BF; DISALLOWED # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
10A80..10A9F; PVALID # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10AC0..10AE6; PVALID # MANICHAEAN LETTER ALEPH..MANICHAEAN ABBREVIATION
10AE7..10AF6; DISALLOWED # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATION
10B80..10891; PVALID # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAVI
10B99..1089C; DISALLOWED # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAVI
10BA9..108BF; 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
111E1..111F4; DISALLOWED # SINDHIA ARCHAIC DIGIT ONE..SINDHIA ARCHAIC N
11200..11211; PVALID # KHOJKI LETTER A..KHOJKI LETTER JJA
11213..1123D; PVALID # KHOJKI LETTER NYA..KHOJKI ABBREVIATION SIGN
112B0..112E9; PVALID # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
112F0..112F9; PVALID # KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE
11301..11303; PVALID # GRANTHA SIGN CANDRABINDU..GRANTHA SIGN VISAR
11305..1130C; PVALID # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130F..11310; PVALID # GRANTHA LETTER EE..GRANTHA LETTER AI
11313..11328; PVALID # GRANTHA LETTER OO..GRANTHA LETTER NA
1132A..11330; PVALID # GRANTHA LETTER PA..GRANTHA LETTER RA
11332..11333; PVALID # GRANTHA LETTER LA..GRANTHA LETTER LLA
11335..11339; PVALID # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..11344; PVALID # GRANTHA SIGN NUKTA..GRANTHA VOWEL SIGN VOCAL
11347..11348; PVALID # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
1134B..1134D; PVALID # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
11357; PVALID # GRANTHA AU LENGTH MARK
1135D..11363; PVALID # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11366..1136C; PVALID # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA
11370..11374; PVALID # COMBINING GRANTHA LETTER A..COMBINING GRANTHA
11480..114C7; PVALID # TIRHUTA ANJI..TIRHUTA OM
114D0..114D9; PVALID # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
11580..115B5; PVALID # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B8..115C9; PVALID # SIDDHAM VOWEL SIGN E..SIDDHAM END OF TEXT MARK
11600..11644; PVALID # MODI LETTER A..MODI SIGN HUVA
11650..11659; PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
118A0..118F2; DISALLOWED # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI
118FF; PVALID # WARANG CITI OM
11AC0..11AF8; PVALID # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
1236F..12398; PVALID # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN U
12463..1246E; DISALLOWED  # CUNEIFORM NUMERIC SIGN ONE QUARTER GUR..CUNE
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
16A0D..16AED; PVALID  # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16AF0..16AF5; PVALID  # BASSA VAH COMBINING HIGH TONE..BASSA VAH FUL
16B00..16B45; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG SIGN C
16B50..16B59; PVALID  # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
16B5B..16B61; DISALLOWED  # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBE
16B63..16B77; PVALID  # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN
16B7D..16B8F; PVALID  # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC70..1BC7C; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLO
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HI
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
1B9C..1BAC3; DISALLOWED  # DUPLOYAN SIGN O WITH CROSS..SHORTHAND FORMAT
1B800..1B8C4; PVALID  # MENDE KIKAKUI SYLLABLE M001 KI..MENDE KIKAKUI
1B8C7..1B8D6; DISALLOWED  # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI COMBI
1F0BF; DISALLOWED  # PLAYING CARD RED JOKER
1F0E0..1F0F5; DISALLOWED  # PLAYING CARD FOOL..PLAYING CARD TRUMP-21
1F0B0..1F10C; DISALLOWED  # DINGBAT CIRCLED SANS-SERIF DIGIT ZERO..DINGB
1F321..1F32C; DISALLOWED  # THERMOMETER..WIND BLOWING FACE
1F336; DISALLOWED  # HOT PEPPER
1F37D; DISALLOWED  # FORK AND KNIFE WITH PLATE
1F394..1F39F; DISALLOWED  # HEART WITH TIP ON THE LEFT..ADMISSION TICKET
1F3C5; DISALLOWED  # SPORTS MEDAL
1F3CB..1F3CE; DISALLOWED  # WEIGHT LIFTER..RACING CAR
1F3D4..1F3DF; DISALLOWED  # SNOW CAPPED MOUNTAIN..STADIUM
1F3F1..1F3F7; DISALLOWED  # WHITE PENNANT..LABEL
1F43F; DISALLOWED  # CHIPMUNK
1F441; DISALLOWED  # EYE
1F4F8; DISALLOWED  # CAMERA WITH FLASH
1F4FD..1F4FE; DISALLOWED  # FILM PROJECTOR..PORTABLE STEREO
1F53E..1F53F; DISALLOWED  # LOWER RIGHT SHADOWED WHITE CIRCLE..UPPER RIG
1F544..1F54A; DISALLOWED  # NOTCHED RIGHT SEMICIRCLE WITH THREE DOTS..DO
1F568..1F579; DISALLOWED  # RIGHT SPEAKER..JOYSTICK
1F57B..1F5A3; DISALLOWED  # LEFT HAND TELEPHONE RECEIVER..BLACK DOWN POI
1F5A5..1F5FA; DISALLOWED  # DESKTOP COMPUTER..WORLD MAP
1F641..1F642; DISALLOWED  # SLIGHTLY FROWNING FACE..SLIGHTLY SMILING FAC
1F650..1F67F; DISALLOWED  # NORTH WEST POINTING LEAF..REVERSE CHECKER BO
1F6C6..1F6CF; DISALLOWED  # TRIANGLE WITH ROUNDED CORNERS..BED
1F6E0..1F6EC; DISALLOWED  # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F6F0..1F6F3; DISALLOWED  # SATELLITE..PASSENGER SHIP
1F780..1F7D4; DISALLOWED  # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F800..1F80B; DISALLOWED  # LEFTWARDS ARROW WITH SMALL TRIPLE ARROWHEA
1F810..1F847; DISALLOWED  # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F850..1F859; DISALLOWED  # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SER
Appendix B. Changes from Unicode 7.0.0 to Unicode 8.0.0

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

- 08B3..08B4  ;  PVALID  #  ARABIC LETTER AIN WITH THREE DOTS BELOW..ARA
- 08E3  ;  PVALID  #  ARABIC TURNED DAMMA BELOW
- 0AF9  ;  PVALID  #  GUJARATI LETTER ZHA
- 0C5A  ;  PVALID  #  TELUGU LETTER RRRA
- 0D5F  ;  PVALID  #  MALAYALAM LETTER ARCHAIC II
- 13F5  ;  PVALID  #  CHEROKEE LETTER MV
- 13F8..13FD  ;  DISALLOWED  #  CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET
- 20BE  ;  DISALLOWED  #  LARI SIGN
- 218A..218B  ;  DISALLOWED  #  TURNED DIGIT TWO..TURNED DIGIT THREE
- 2BEC..2BEF  ;  DISALLOWED  #  LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARR
- 9FCD..9FD5  ;  PVALID  #  <CJK Ideograph>..<CJK Ideograph>
- A69E  ;  PVALID  #  COMBINING CYRILLIC LETTER EF
- A78F  ;  PVALID  #  LATIN LETTER SINOLOGICAL DOT
- A7B2..A7B7  ;  DISALLOWED  #  LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LA
- A8FC..A8FD  ;  DISALLOWED  #  DEVANAGARI SIGN SIDDHAM..DEVANAGARI JAIN OM
- AB60..AB63  ;  PVALID  #  LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LE
- AB70..AB7F  ;  DISALLOWED  #  CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT
- FE2E..FE2F  ;  PVALID  #  COMBINING CYRILLIC TITLO LEFT HALF..COMBININ
- 108E0..108F2;  PVALID  #  HATRAN LETTER ALEPH..HATRAN LETTER QOPH
- 108F4..108F5;  PVALID  #  HATRAN LETTER SHIN..HATRAN LETTER TAW
- 108FB..108FF;  DISALLOWED  #  HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
- 109C0..109CF;  DISALLOWED  #  MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIV
- 109D2..109FF;  DISALLOWED  #  MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI
- 10C80..10CB2;  DISALLOWED  #  OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
- 10CC0..10CF2;  PVALID  #  OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
- 10CF6..10CFD;  DISALLOWED  #  OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMB
- 111C9..111CC;  DISALLOWED  #  SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
- 111DB..111DF;  DISALLOWED  #  SHARADA SIGN SIDDHAM..SHARADA SECTION MARK-2
- 11280..11286;  PVALID  #  MULTANI LETTER A..MULTANI LETTER GA
- 11288  ;  PVALID  #  MULTANI LETTER GHA
- 1128A..1128D;  PVALID  #  MULTANI LETTER CA..MULTANI LETTER JJA
- 1128F..1129D;  PVALID  #  MULTANI LETTER NYA..MULTANI LETTER BA
- 1129F..112AA;  PVALID  #  MULTANI LETTER BHA..MULTANI SECTION MARK
- 11300  ;  PVALID  #  GRANTHA SIGN COMBINING ANUSVARA ABOVE
- 11350  ;  PVALID  #  GRANTHA OM
- 115CA..115DD;  DISALLOWED  #  SIDDHAM SECTION MARK WITH TRIDENT AND U-SHAP
- 11700..11719;  PVALID  #  AHOM LETTER KA..AHOM LETTER JHA
- 1171D..1172B;  PVALID  #  AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KIL
- 11730..1173F;  PVALID  #  AHOM DIGIT ZERO..AHOM SYMBOL VI
- 12399 ;  PVALID  #  CUNEIFORM SIGN U U
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
3A8E ; 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
1123E ; PVALID # KHOJKI SIGN SUKUN
11400..11459; PVALID # NEWA LETTER A..NEWA DIGIT NINE
1145B ; DISALLOWED # NEWA PLACEHOLDER MARK
1145D ; DISALLOWED # NEWA INSERTION SIGN
11660..1166C; DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
11C00..11C0B; PVALID # BHAISUKI LETTER A..BHAISUKI LETTER VOCALIC
11COA..11C38; PVALID # BHAISUKI LETTER E..BHAISUKI VOWEL SIGN VOC
11C3B..11C45; PVALID # BHAISUKI VOWEL SIGN E..BHAISUKI GAP FILLER
11C50..11C6C; PVALID # BHAISUKI DIGIT ZERO..BHAISUKI HUNDREDS UNI
Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0

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

Changes from derived property value DISALLOWED to PVALID.

111C9 ; PVALID     # SHARADA SANDHI MARK

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.
0560  ; PVALID  # ARMENIAN SMALL LETTER TURNED AYB
0588  ; PVALID  # ARMENIAN SMALL LETTER YI WITH STROKE
05EF  ; PVALID  # HEBREW YOD TRIANGLE
07FD..07FF  ; PVALID  # NKO DANTAYALAN..NKO TAMAN SIGN
08D3  ; PVALID  # ARABIC SMALL LOW WAW
09F9  ; PVALID  # BENGALI SANDHI MARK
0A76  ; DISALLOWED  # GURMUKHI ABBREVIATION SIGN
0C04  ; PVALID  # TELUGU SIGN COMBINING ANUSVARA ABOVE
0C84  ; DISALLOWED  # KANNADA SIGN SIDDHAM
1878  ; PVALID  # MONGOLIAN LETTER CHA WITH TWO DOTS
1C90..1CBA  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AEN..GEORGIAN MTAV
1CBD..1CBF  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AE..GEORGIAN MTAV
2BAA..2BBC  ; DISALLOWED  # OVERLAPPING WHITE SQUARES..OVERLAPPING BLACK SQUARES
2BD3..2BEB  ; DISALLOWED  # PLUTO FORM TWO..STAR WITH RIGHT HALF BLACK
2BF0..2BFE  ; DISALLOWED  # ERIS FORM ONE..REVERSED RIGHT ANGLE
2E4A..2E4E  ; DISALLOWED  # DOTTED SOLIDUS..PUNCTUS ELEVATUS MARK
312F  ; PVALID  # BOPOMOFO LETTER NN
10A34..10A35; PVALID  # KHAROSHTHI LETTER TITA..KHAROSHTHI LETTER VH
10A48  ; DISALLOWED  # KHAROSHTHI FRACTION ONE HALF
10D00..10D27; PVALID  # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D30..10D39; PVALID  # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA SIX
10F00..10F27; PVALID  # OLD SOGDIAN LETTER ALEPH.Old SOGDIAN LIGATU
10F30..10F59; PVALID  # SOGDIAN LETTER ALEPH..SOGDIAN PUNCTUATION HAH
110CD  ; DISALLOWED  # KAITHI NUMBER SIGN ABOVE
11144..11146; PVALID  # CHAKMA LETTER LHAA..CHARMA VOWEL SIGN EI
1133B  ; PVALID  # COMBINING BINDU BELOW
1145E  ; PVALID  # NEWA SANDHI MARK
1171A  ; PVALID  # AHOM LETTER ALTERNATE BA
11800..1183B; PVALID  # DOGRA LETTER A..DOGRA ABBREVIATION SIGN
11A9D  ; PVALID  # SOYOMO MARK PLUTA
11D60..11D65; PVALID  # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER E
11D67..11D68; PVALID  # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTEE
11D6A..11D8E; PVALID  # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D90..11D91; PVALID  # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI VOWEL SIGN O
11D93..11D98; PVALID  # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI VOWEL SIGN U
11DA0..11DA9; PVALID  # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGIT ONE
11EE0..11EEF8; PVALID  # MAKASAR LETTER KA..MAKASAR END OF SECTION
16E40..16E9A; DISALLOWED  # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN EX"
1F7D5..1F7D8; DISALLOWED # CIRCLED TRIANGLE..NEGATIVE CIRCLED SQUARE
1F94D..1F94F; DISALLOWED # LACROSSE STICK AND BALL..FLYING DISC
1F96C..1F970; DISALLOWED # LEAFY GREEN..SMILING FACE WITH SMILING EYES
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

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..007E  ; DISALLOWED # LEFT CURLY BRACKET..PILCROW SIGN
00B0        ; CONTEXTO    # MIDDLE DOT
00B8..00DE  ; DISALLOWED # CEDILLA..LATIN CAPITAL LETTER THORN
00DF..00F6  ; PVALID      # LATIN SMALL LETTER SHARP S..LATIN SMALL LETTER C-with-OGONEK
00F7        ; DISALLOWED # DIVISION SIGN
00F8..00FF  ; PVALID      # LATIN SMALL LETTER O WITH STROKE..LATIN SMALL LETTER O WITH STROKE
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 STRROKE
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
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 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 L WITH HOOK
0188        ; PVALID  # LATIN SMALL LETTER C WITH HOOK
0189-018B   ; DISALLOWED  # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL LETTER AFRICAN D WITH HOOK
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 REVERSED E
0192        ; PVALID  # LATIN SMALL LETTER F WITH HOOK
0193-0194   ; DISALLOWED  # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPITAL LETTER G WITH HOOK
0195        ; PVALID  # LATIN SMALL LETTER HV
0196-0198   ; DISALLOWED  # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LETTER IOTA WITH HOOK
0199-019D   ; PVALID  # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL LETTER K WITH HOOK
019E-019F   ; DISALLOWED  # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL LETTER TURNED M
01A0        ; PVALID  # LATIN SMALL LETTER N WITH LONG RIGHT LEG
01A1-01A2   ; DISALLOWED  # LATIN CAPITAL LETTER O..LATIN CAPITAL LETTER O WITH HORN
01A3        ; PVALID  # LATIN SMALL LETTER OI
01A4-01A5   ; DISALLOWED  # LATIN CAPITAL LETTER P WITH HOOK..LATIN SMALL LETTER P WITH HOOK
01A6-01A7   ; DISALLOWED  # LATIN LETTER YR..LATIN CAPITAL LETTER TONE T
01A8        ; PVALID  # LATIN SMALL LETTER TONE TWO
01A9-01AA   ; DISALLOWED  # LATIN CAPITAL LETTER ESH..LATIN SMALL LETTER ESH
01AA-01AB   ; PVALID  # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL LETTER 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 Y WITH HOOK
01B5        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH STROKE
01B6        ; PVALID  # LATIN SMALL LETTER Z WITH STROKE
01B7-01B8   ; DISALLOWED  # LATIN CAPITAL LETTER EZH..LATIN CAPITAL LETTER EZH WITH CARON
01B9-01BB   ; PVALID  # LATIN SMALL LETTER EZH REVERSED..LATIN SMALL LETTER EZH REVERSED
01BC-01BD   ; DISALLOWED  # LATIN CAPITAL LETTER TONE FIVE..LATIN SMALL LETTER TONE FIVE
01BE-01C3   ; PVALID  # LATIN SMALL LETTER TONE FIVE..LATIN SMALL LETTER TONE FIVE
01C4-01CD   ; DISALLOWED  # LATIN CAPITAL LETTER DZ WITH CARON..LATIN CAPITAL LETTER DZ WITH CARON
01CE-01D0   ; PVALID  # LATIN SMALL LETTER A WITH CARON..LATIN SMALL LETTER A WITH CARON
01D1        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CARON
01D2        ; PVALID  # LATIN SMALL LETTER O WITH CARON
01D3 ; DISALLOWED # LATIN CAPITAL LETTER U WITH CARON
01D4 ; PVALID # LATIN SMALL LETTER U WITH CARON
01D5 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND MA
01D6 ; PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND MACR
01D7 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND AC
01D8 ; PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND ACUT
01D9 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND CA
01DA ; PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND CARO
01DB ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND GR
01DC..01DD ; PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND GRAV
01DE ; DISALLOWED # LATIN CAPITAL LETTER A WITH DIAERESIS AND MA
01DF ; PVALID # LATIN SMALL LETTER A WITH DIAERESIS AND MACR
01E0 ; DISALLOWED # LATIN CAPITAL LETTER A WITH DOT ABOVE AND MA
01E1 ; PVALID # LATIN SMALL LETTER A WITH DOT ABOVE AND MACR
01E2 ; DISALLOWED # LATIN CAPITAL LETTER AE WITH MACRON
01E3 ; PVALID # LATIN SMALL LETTER AE WITH MACRON
01E4 ; DISALLOWED # LATIN CAPITAL LETTER G WITH STROKE
01E5 ; PVALID # LATIN SMALL LETTER G WITH STROKE
01E6 ; DISALLOWED # LATIN CAPITAL LETTER G WITH CARON
01E7 ; PVALID # LATIN SMALL LETTER G WITH CARON
01E8 ; DISALLOWED # LATIN CAPITAL LETTER K WITH CARON
01E9 ; PVALID # LATIN SMALL LETTER K WITH CARON
01EA ; DISALLOWED # LATIN CAPITAL LETTER O WITH OGONEK
01EB ; PVALID # LATIN SMALL LETTER O WITH OGONEK
01EC ; DISALLOWED # LATIN CAPITAL LETTER O WITH OGONEK AND MACRO
01ED ; PVALID # LATIN SMALL LETTER O WITH OGONEK AND MACRON
01EE ; DISALLOWED # LATIN CAPITAL LETTER EZH WITH CARON
01EF..01F0 ; PVALID # LATIN SMALL LETTER EZH WITH CARON..LATIN SMALL LETTER
01F1..01F4 ; DISALLOWED # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTER
01F5 ; PVALID # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8 ; DISALLOWED # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LETTER
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 MACRON
022B  ; PVALID      # LATIN SMALL LETTER O WITH DIAERESIS AND MACRON
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 MACRON
0231  ; PVALID      # LATIN SMALL LETTER O WITH DOT ABOVE AND MACRON
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 E WITH STROKE
0247  ; PVALID  # LATIN SMALL LETTER E WITH STROKE
0248  ; DISALLOWED  # LATIN CAPITAL LETTER J WITH STROKE
0249  ; PVALID  # LATIN SMALL LETTER J WITH STROKE
024A  ; DISALLOWED  # LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
024B  ; PVALID  # LATIN SMALL LETTER Q WITH HOOK TAIL
024C  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH STROKE
024D  ; PVALID  # LATIN SMALL LETTER R WITH STROKE
024E  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH STROKE
024F..02AF  ; PVALID  # LATIN SMALL LETTER Y WITH STROKE..LATIN SMALL LETTER U WITH STROKE
02B0..02B8  ; DISALLOWED  # MODIFIER LETTER SMALL H..MODIFIER LETTER SMALL CH
02B9..02C1  ; PVALID  # MODIFIER LETTER PRIME..MODIFIER LETTER REVERSED PRIME
02C2..02C5  ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LETTER RIGHT ARROWHEAD
02C6..02D1  ; PVALID  # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER LETTER HAT
02D2..02EB  ; DISALLOWED  # MODIFIER LETTER CENTRED RIGHT HALF RING..MODIFIER LETTER DOUBLE VOWEL
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 UP ARROWHEAD
0300..033F  ; PVALID  # COMBINING GRAVE ACCENT..COMBINING DOUBLE OVERTONE
0340..0341  ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING ACUTE TONE MARK
0342  ; PVALID  # COMBINING GREEK PERISPOMENI
0343..0345  ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK KORONIS
0346..034E  ; PVALID  # COMBINING BRIDGE ABOVE..COMBINING UPWARDS ARROWHEAD
034F  ; DISALLOWED  # COMBINING GRAPHEME JOINER
0350..036F  ; PVALID  # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING LOW RIGHT ARROWHEAD
0370  ; DISALLOWED  # GREEK CAPITAL LETTER HETA..GREEK CAPITAL LETTER IOTA
0371  ; PVALID  # GREEK SMALL LETTER HETA
0372  ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI..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..GREEK CAPITAL LETTER SIGMA
0377  ; PVALID  # GREEK SMALL LETTER PAMPHYLIAN DIGAMMA
0378..0379  ; UNASSIGNED  # <reserved>..<reserved>
037A  ; DISALLOWED  # GREEK YPOGEGRAMMENI
037B..037D  ; PVALID  # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GREEK SMALL LUNATE SIGMA SYMBOL
037E..037F  ; DISALLOWED  # GREEK QUESTION MARK..GREEK CAPITAL LETTER IOTA WITH DIAERETIC
0380..0383  ; UNASSIGNED  # <reserved>..<reserved>
0384..038A  ; DISALLOWED  # GREEK TONOS..GREEK CAPITAL LETTER IOTA WITH DIAERETIC
038B  ; UNASSIGNED  # <reserved>
038C  ; DISALLOWED  # GREEK CAPITAL LETTER OMICRON WITH TONOS
038D  ; UNASSIGNED  # <reserved>
038E..038F  ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH TONOS..GREEK CAPITAL LETTER UPSILON WITH DIAERETIC
0390  ; PVALID  # GREEK SMALL LETTER IOTA WITH DIAERETIC
0391..03A1  ; DISALLOWED  # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LETTER GAMMA
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03A3..03AB  ; DISALLOWED  # GREEK CAPITAL LETTER SIGMA..GREEK CAPITAL LETTER XI
03AC..03CE  ; PVALID  # GREEK SMALL LETTER ALPHA WITH TONOS..GREEK SMALL LETTER SIGMA
03CF..03D6  ; DISALLOWED # GREEK CAPITAL KAI SYMBOL..GREEK PI SYMBOL
03D7        ; PVALID  # GREEK KAI SYMBOL
03D8        ; DISALLOWED # GREEK LETTER ARCHAIC KOPPA
03D9        ; PVALID  # GREEK SMALL LETTER ARCHAIC KOPPA
03DA        ; DISALLOWED # GREEK LETTER SIGMA
03DB        ; PVALID  # GREEK SMALL LETTER SIGMA
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
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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 LUNATE SIGMA
03F8        ; PVALID  # GREEK SMALL LETTER SHO
03F9..03FA  ; DISALLOWED # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAPITAL LITTLE YUS
03FB..03FC  ; PVALID  # GREEK SMALL LETTER SAN..GREEK RHO WITH STROK
03FD..042F  ; DISALLOWED # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..GREEK CAPITAL SIGMA WITH STROK
0430..045F  ; PVALID  # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETTER TAS
0460        ; DISALLOWED # CYRILLIC CAPITAL LETTER OMEGA
0461        ; PVALID  # CYRILLIC SMALL LETTER OMEGA
0462        ; DISALLOWED # CYRILLIC CAPITAL LETTER YAT
0463        ; PVALID  # CYRILLIC SMALL LETTER YAT
0464        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED E
0465        ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED E
0466        ; DISALLOWED # CYRILLIC CAPITAL LETTER LITTLE YUS
0467        ; PVALID  # CYRILLIC SMALL LETTER LITTLE YUS
0468        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
0469        ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
046A        ; DISALLOWED # CYRILLIC CAPITAL LETTER BIG YUS
046B        ; PVALID  # CYRILLIC SMALL LETTER BIG YUS
046C        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
046D        ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED BIG YUS
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0472        ; DISALLOWED # CYRILLIC CAPITAL LETTER FITA
0473        ; PVALID  # CYRILLIC SMALL LETTER FITA
0474        ; DISALLOWED # CYRILLIC CAPITAL LETTER IZHITSA
0475        ; PVALID  # CYRILLIC SMALL LETTER IZHITSA
0476        ; DISALLOWED # CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE GR
0477        ; PVALID  # CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GR
0478        ; DISALLOWED # CYRILLIC CAPITAL LETTER UK
0479        ; PVALID  # CYRILLIC SMALL LETTER UK
047A        ; DISALLOWED # CYRILLIC CAPITAL LETTER ROUND OMEGA
047B        ; PVALID  # CYRILLIC SMALL LETTER ROUND OMEGA
047C        ; DISALLOWED # CYRILLIC CAPITAL LETTER OMEGA WITH TITLO
047D        ; PVALID  # CYRILLIC SMALL LETTER OMEGA WITH TITLO
047E        ; DISALLOWED # CYRILLIC CAPITAL LETTER OT
047F        ; PVALID  # CYRILLIC SMALL LETTER OT
0480        ; DISALLOWED # CYRILLIC CAPITAL LETTER KOPPA
0481        ; PVALID  # CYRILLIC SMALL LETTER KOPPA
0482        ; DISALLOWED # CYRILLIC THOUSANDS SIGN
0483..0487  ; PVALID  # COMBINING CYRILLIC TITLO..COMBINING CYRILLIC HUNDRED THOUSANDS SIGN..C
0488..048A  ; DISALLOWED # COMBINING CYRILLIC TITLO..COMBINING CYRILLIC HUNDRED THOUSANDS SIGN..C
048B        ; PVALID  # CYRILLIC SMALL LETTER SHORT I WITH TAIL
048C        ; DISALLOWED # CYRILLIC CAPITAL LETTER SEMISOFT SIGN
048D        ; PVALID  # CYRILLIC SMALL LETTER SEMISOFT SIGN
048E        ; DISALLOWED # CYRILLIC CAPITAL LETTER ER WITH TICK
048F        ; PVALID  # CYRILLIC SMALL LETTER ER WITH TICK
0490        ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH UPTURN
0491        ; PVALID  # CYRILLIC SMALL LETTER GHE WITH UPTURN
0492        ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH STROKE
0493        ; PVALID  # CYRILLIC SMALL LETTER GHE WITH STROKE
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0495        ; PVALID  # CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
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049B        ; PVALID  # CYRILLIC SMALL LETTER KA WITH DESCENDER
049C        ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROK
049D        ; PVALID  # CYRILLIC SMALL LETTER KA WITH VERTICAL STROK
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049F        ; PVALID  # CYRILLIC SMALL LETTER KA WITH STROKE
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04A1        ; PVALID  # CYRILLIC SMALL LETTER BASHKIR KA
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04A4        ; DISALLOWED # CYRILLIC CAPITAL LIGATURE EN GHE
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04A6        ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
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04A8        ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN HA
04A9        ; PVALID      # CYRILLIC SMALL LETTER ABKHASIAN HA
04AA        ; DISALLOWED # CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB        ; PVALID      # CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC        ; DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD        ; PVALID      # CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE        ; DISALLOWED # CYRILLIC CAPITAL LETTER STRAIGHT U
04AF        ; PVALID      # CYRILLIC SMALL LETTER STRAIGHT U
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04B2        ; DISALLOWED # CYRILLIC CAPITAL LETTER HA WITH DESCENDER
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04B4        ; DISALLOWED # CYRILLIC CAPITAL LIGATURE TE TSE
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04BA        ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA
04BB        ; PVALID      # CYRILLIC SMALL LETTER SHHA
04BC        ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN CHE
04BD        ; PVALID      # CYRILLIC SMALL LETTER ABKHASIAN CHE
04BE        ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH D
04BF        ; PVALID      # CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DES
04C0..04C1  ; DISALLOWED # CYRILLIC LETTER PALOCHKA..CYRILLIC CAPITAL L
04C2        ; PVALID      # CYRILLIC SMALL LETTER ZHE WITH BREVE
04C3        ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4        ; PVALID      # CYRILLIC SMALL LETTER KA WITH HOOK
04C5        ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6        ; PVALID      # CYRILLIC SMALL LETTER EL WITH TAIL
04C7        ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH HOOK
04C8        ; PVALID      # CYRILLIC SMALL LETTER EN WITH HOOK
04C9        ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH TAIL
04CA        ; PVALID      # CYRILLIC SMALL LETTER EN WITH TAIL
04CB        ; DISALLOWED # CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC        ; PVALID      # CYRILLIC SMALL LETTER KHAKASSIAN CHE
04CD        ; DISALLOWED # CYRILLIC CAPITAL LETTER EM WITH TAIL
04CE..04CF  ; PVALID      # CYRILLIC SMALL LETTER EM WITH TAIL..CYRILLIC
04D0        ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH BREVE
04D1        ; PVALID      # CYRILLIC SMALL LETTER A WITH BREVE
04D2        ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH DIAERESIS
04D3        ; PVALID      # CYRILLIC SMALL LETTER A WITH DIAERESIS
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050B ; PVALID  # CYRILLIC SMALL LETTER KOMI NJE
050C ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI SJE
050D ; PVALID  # CYRILLIC SMALL LETTER KOMI SJE
050E ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI TJE
050F ; PVALID  # CYRILLIC SMALL LETTER KOMI TJE
0510 ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED ZE
0511 ; PVALID  # CYRILLIC SMALL LETTER REVERSED ZE
0512 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH HOOK
0513 ; PVALID  # CYRILLIC SMALL LETTER EL WITH HOOK
0514 ; DISALLOWED # CYRILLIC CAPITAL LETTER LHA
0515 ; PVALID  # CYRILLIC SMALL LETTER LHA
0516 ; DISALLOWED # CYRILLIC CAPITAL LETTER RHA
0517 ; PVALID  # CYRILLIC SMALL LETTER RHA
0518 ; DISALLOWED # CYRILLIC CAPITAL LETTER YAE
0519 ; PVALID  # CYRILLIC SMALL LETTER YAE
051A ; DISALLOWED # CYRILLIC CAPITAL LETTER QA
051B ; PVALID  # CYRILLIC SMALL LETTER QA
051C ; DISALLOWED # CYRILLIC CAPITAL LETTER WE
051D ; PVALID  # CYRILLIC SMALL LETTER WE
051E ; DISALLOWED # CYRILLIC CAPITAL LETTER ALEUT KA
051F ; PVALID  # CYRILLIC SMALL LETTER ALEUT KA
0520 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521 ; PVALID  # CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK
0522 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523 ; PVALID  # CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK
0524 ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH DESCENDER
0525 ; PVALID  # CYRILLIC SMALL LETTER PE WITH DESCENDER
0526 ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527 ; PVALID  # CYRILLIC SMALL LETTER SHHA WITH DESCENDER
0528 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK
0529 ; PVALID  # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
052A ; DISALLOWED # CYRILLIC CAPITAL LETTER DZHE
052B ; PVALID  # CYRILLIC SMALL LETTER DZHE
052C ; DISALLOWED # CYRILLIC CAPITAL LETTER DCHE
052D ; PVALID  # CYRILLIC SMALL LETTER DCHE
052E ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH DESCENDER
052F ; PVALID  # CYRILLIC SMALL LETTER EL WITH DESCENDER
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0557..0558 ; UNASSIGNED  <reserved>..<reserved>
0559 ; PVALID  # ARMENIAN MODIFIER LETTER LEFT HALF RING
055A..055F ; DISALLOWED # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION M
0560..0586  ; PVALID  # ARMENIAN SMALL LETTER TURNED AYB..ARMENIAN S
0587  ; DISALLOWED  # ARMENIAN SMALL LIGATURE ECH YWN
0588  ; PVALID  # ARMENIAN SMALL LETTER YI WITH STROKE
0589..058A  ; DISALLOWED  # ARMENIAN FULL STOP..ARMENIAN HYPHEN
058B..058C  ; UNASSIGNED  # <reserved>..<reserved/>
058D..058F  ; DISALLOWED  # RIGHT-FACING ARMENIAN ETERNITY SIGN..ARMENIA
0590  ; UNASSIGNED  # <reserved/>
0591..05BD  ; PVALID  # HEBREW ACCENT ETCHA..HEBREW POINT METEG
05BE  ; DISALLOWED  # HEBREW PUNCTUATION MAQAF
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  ; DISALLOWED  # HEBREW POINT QAMATS QATAN
05C8..05CF  ; UNASSIGNED  # <reserved>..<reserved/>
05D0..05EA  ; PVALID  # HEBREW LETTER ALEF..HEBREW LETTER TAV
05EB..05EE  ; UNASSIGNED  # <reserved>..<reserved/>
05EF..05F2  ; PVALID  # HEBREW YOD TRIANGLE..HEBREW LIGATURE YIDDISH
05F3..05F4  ; CONTEXTO  # HEBREW PUNCTUATION GERESH..HEBREW PUNCTUATION
05F5..05FF  ; UNASSIGNED  # <reserved>..<reserved/>
0600..060F  ; DISALLOWED  # ARABIC NUMBER SIGN..ARABIC SIGN MISRA
0610..061A  ; PVALID  # ARABIC SIGN SALLALLAHOU ALAYHE WASSALLAM..AR
061B..061C  ; DISALLOWED  # ARABIC SEMICOLON..ARABIC LETTER MARK
061D  ; UNASSIGNED  # <reserved>
061E..061F  ; DISALLOWED  # ARABIC TRIPLE DOT PUNCTUATION MARK..ARABIC Q
0620..063F  ; PVALID  # ARABIC LETTER KASHMIRI YEH..ARABIC LETTER FA
0640  ; DISALLOWED  # ARABIC TATWEEL
0641..065F  ; PVALID  # ARABIC LETTER FEH..ARABIC WAVY HAMZA BELOW
0660..0669  ; CONTEXTO  # ARABIC-INDIC DIGIT ZERO..ARABIC-INDIC DIGIT
066A..066D  ; DISALLOWED  # ARABIC PERCENT SIGN..ARABIC FIVE POINTED STA
066E..0674  ; PVALID  # ARABIC LETTER DOTLESS BEH..ARABIC LETTER HIG
0675..0678  ; DISALLOWED  # ARABIC LETTER HIGH HAMZA ALEF..ARABIC LETTER
0679..06D3  ; PVALID  # ARABIC LETTER TTEH..ARABIC LETTER YEH BARREE
06D4  ; DISALLOWED  # ARABIC FULL STOP
06D5..06DC  ; PVALID  # ARABIC LETTER AE..ARABIC SMALL HIGH SEEN
06DD..06DE  ; DISALLOWED  # ARABIC END OF AYAH..ARABIC START OF RUB EL H
06DF..06E8  ; PVALID  # ARABIC SMALL HIGH Rounded ZERO..ARABIC SMALL
06E9  ; DISALLOWED  # ARABIC PLACE OF SAJDAH
06EA..06EF  ; PVALID  # ARABIC EMPTY CENTRE LOW STOP..ARABIC LETTER
06F0..06F9  ; CONTEXTO  # EXTENDED ARABIC-INDIC DIGIT ZERO..EXTENDED A
06FA..06FF  ; PVALID  # ARABIC LETTER SHEEN WITH DOT BELOW..ARABIC L
0700..070D  ; DISALLOWED  # SYRIAC END OF PARAGRAPH..SYRIAC HARKLEAN AST
070E  ; UNASSIGNED  # <reserved>
070F  ; DISALLOWED  # SYRIAC ABBREVIATION MARK
0710..074A  ; PVALID  # SYRIAC LETTER ALAPH..SYRIAC BARREKH
074B..074C  ; UNASSIGNED  # <reserved>..<reserved/>
074D..07B1  ; PVALID   # SYRIAC LETTER SOGDIAN ZHAIN..THAANA LETTER N
07B2..07BF  ; UNASSIGNED # <reserved>..<reserved>
07C0..07EF  ; PVALID   # NKO DIGIT ZERO..NKO LOW TONE APOSTROPHE
07F6..07FA  ; DISALLOWED # NKO SYMBOL OO DENNEN..NKO LAJANYALAN
07FB..07FC  ; UNASSIGNED # <reserved>..<reserved>
07FD  ; PVALID   # NKO DANTAYALAN
07FE..07FF  ; DISALLOWED # NKO DOROME SIGN..NKO TAMAN SIGN
0800..082D  ; PVALID   # SAMARITAN LETTER ALAF..SAMARITAN MARK NEQUDA
082E..082F  ; UNASSIGNED # <reserved>..<reserved>
0830..083F  ; DISALLOWED # SAMARITAN PUNCTUATION NEQUDA..SAMARITAN PUN
083F  ; UNASSIGNED # <reserved>
0840..085B  ; PVALID   # MANDAIC LETTER HALQA..MANDAIC GEMINATION MAR
085C..085F  ; UNASSIGNED # <reserved>..<reserved>
085E  ; DISALLOWED # MANDAIC PUNCTUATION
085F  ; UNASSIGNED # <reserved>
0860..086A  ; PVALID   # SYRIAC LETTER MALAYALAM NGA..SYRIAC LETTER M
086B..086F  ; UNASSIGNED # <reserved>..<reserved>
0870..087F  ; PVALID   # ARABIC LETTER BEH WITH SMALL V BELOW..ARABIC
0878..087E  ; UNASSIGNED # <reserved>..<reserved>
087F  ; DISALLOWED # ARABIC DISPUTED END OF AYAH
0890..08B4  ; PVALID   # ARABIC TURNED DAMMA BELOW..DEVANAGARI VOW
0958..095F  ; DISALLOWED # DEVANAGARI LETTER QA..DEVANAGARI LETTER YYA
0960..0963  ; PVALID   # DEVANAGARI LETTER VOCALIC RR..DEVANAGARI VOW
0964..0965  ; DISALLOWED # DEVANAGARI DANDA..DEVANAGARI DOUBLE DANDA
0966..096F  ; PVALID   # DEVANAGARI DIGIT ZERO..DEVANAGARI DIGIT NINE
0970  ; DISALLOWED # DEVANAGARI ABBREVIATION SIGN
0971..0983  ; PVALID   # DEVANAGARI SIGN HIGH SPACING DOT..BENGALI SI
0984  ; UNASSIGNED # <reserved>
0985..098E  ; PVALID   # BENGALI LETTER A..BENGALI LETTER VOCALIC L
098D..099E  ; UNASSIGNED # <reserved>..<reserved>
0998..0999  ; PVALID   # BENGALI LETTER E..BENGALI LETTER AI
0991..0992  ; UNASSIGNED # <reserved>..<reserved>
0993..0998  ; PVALID   # BENGALI LETTER O..BENGALI LETTER NA
09A9  ; UNASSIGNED # <reserved>
09AA..09B0  ; PVALID   # BENGALI LETTER PA..BENGALI LETTER RA
09B1  ; UNASSIGNED # <reserved>
09B2  ; PVALID   # BENGALI LETTER LA
09B3..09BF  ; UNASSIGNED # <reserved>..<reserved>
09B6..09BB  ; PVALID   # BENGALI LETTER SHA..BENGALI LETTER HA
09BA..09BC  ; UNASSIGNED # <reserved>..<reserved>
09BC..09C4  ; PVALID   # BENGALI SIGN NUKTA..BENGALI VOWEL SIGN VOCAL
09C5..09C6  ; UNASSIGNED # <reserved>..<reserved>
09C7..09C8  ; PVALID   # BENGALI VOWEL SIGN E..BENGALI VOWEL SIGN AI
09C9..09CA  ; UNASSIGNED # <reserved>..<reserved>
09CB..09CE  ; PVALID   # BENGALI VOWEL SIGN O..BENGALI LETTER KHANDA
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0A8E        ; UNASSIGNED  # <reserved>
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0AB5..0AB9  ; PVALID      # GUJARATI LETTER VA..GUJARATI LETTER HA
0ABA..0ABB  ; UNASSIGNED  # <reserved>..<reserved>
0ABC..0AC5  ; PVALID      # GUJARATI SIGN NUKTA..GUJARATI VOWEL SIGN CAN
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0AC7..0AC9  ; PVALID      # GUJARATI VOWEL SIGN E..GUJARATI VOWEL SIGN C
0ACA        ; UNASSIGNED  # <reserved>
0ACB..0ACD  ; PVALID      # GUJARATI VOWEL SIGN O..GUJARATI SIGN VIRAMA
0ACE..0ACF  ; UNASSIGNED  # <reserved>..<reserved>
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0B32..0B33  ; PVALID      # ORIYA LETTER LA..ORIYA LETTER LLA
0B34        ; UNASSIGNED  # <reserved>
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0B47..0B48  ; PVALID      # ORIYA VOWEL SIGN E..ORIYA VOWEL SIGN AI

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0B49..0B4A  ; UNASSIGNED  # <reserved>..<reserved>
0B4B..0B4D  ; PVALID  # ORIYA VOWEL SIGN O..ORIYA SIGN VIRAMA
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0B56..0B57  ; PVALID  # ORIYA AI LENGTH MARK..ORIYA AU LENGTH MARK
0B58..0B5B  ; UNASSIGNED  # <reserved>..<reserved>
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0B70  ; DISALLOWED  # ORIYA ISSHAR
0B71  ; PVALID  # ORIYA LETTER WA
0B72..0B77  ; DISALLOWED  # ORIYA FRACTION ONE QUARTER..ORIYA FRACTION T
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| 1289        | UNASSIGNED | &lt;reserved&gt; |
| 128A..128D  | PVALID | ETHIOPIAN SYLLABLE XWI..ETHIOPIAN SYLLABLE XWE |
| 128E..128F  | UNASSIGNED | &lt;reserved&gt;..&lt;reserved&gt; |
| 1290..12B0  | PVALID | ETHIOPIAN SYLLABLE NA..ETHIOPIAN SYLLABLE KWA |
| 12B1        | UNASSIGNED | &lt;reserved&gt; |
| 12B2..12B5  | PVALID | ETHIOPIAN SYLLABLE KWI..ETHIOPIAN SYLLABLE KWE |
| 12B6..12B7  | UNASSIGNED | &lt;reserved&gt;..&lt;reserved&gt; |
| 12B8..12BE  | PVALID | ETHIOPIAN SYLLABLE XKA..ETHIOPIAN SYLLABLE KXO |
| 12BF        | UNASSIGNED | &lt;reserved&gt; |
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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
17DB..17DB ; DISALLOWED # KHMER SIGN BEYYAL..KHMER CURRENCY SYMBOL RIE
17DC..17DD ; PVALID # KHMER SIGN AVAKRAHASANYA..KHMER SIGN ATTHACA
17DE..17DF ; UNASSIGNED # <reserved>..<reserved>
17E0..17E9 ; PVALID # KHMER DIGIT ZERO..KHMER DIGIT NINE
17EA..17EF ; UNASSIGNED # <reserved>..<reserved>
17F0..17F9 ; DISALLOWED # KHMER SYMBOL LEK ATTAK SON..KHMER SYMBOL LEK
17FA..17FF ; UNASSIGNED # <reserved>..<reserved>
1800..180E ; DISALLOWED # MONGOLIAN BIRGA..MONGOLIAN VOWEL SEPARATOR
180F ; UNASSIGNED # <reserved>
1810..1819 ; PVALID # MONGOLIAN DIGIT ZERO..MONGOLIAN DIGIT NINE
181A..181F ; UNASSIGNED # <reserved>..<reserved>
1820..1878 ; PVALID # MONGOLIAN LETTER A..MONGOLIAN LETTER CHA WIAT
1879..187F ; UNASSIGNED # <reserved>..<reserved>
1880..188A ; PVALID # MONGOLIAN LETTER ALI GALI ANUSVARA ONE..MONGOLIAN LETTER ALI GALI ANUSVARA TWO
18AB..18AF ; UNASSIGNED # <reserved>..<reserved>
18B0..18F5 ; PVALID # CANADIAN SYLLABICS OY..CANADIAN SYLLABICS CA
18F6..18FF ; UNASSIGNED # <reserved>..<reserved>
1900..191E ; PVALID # LIMBU VOWEL-CARRIER LETTER..LIMBU LETTER TRA
191F ; UNASSIGNED # <reserved>
1920..192B ; PVALID # LIMBU VOWEL SIGN A..LIMBU SUBJOINED LETTER W
192C..192F ; UNASSIGNED # <reserved>..<reserved>
1930..193B ; PVALID # LIMBU SMALL LETTER KA..LIMBU SIGN SA-I
193C..193F ; UNASSIGNED # <reserved>..<reserved>
1940 ; DISALLOWED # LIMBU SIGN LOO
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 LETTER HIGH QA
19AC..19AF ; UNASSIGNED # <reserved>..<reserved>
19B0..19C9 ; PVALID # NEW TAI LUE VOWEL SIGN VOWEL SHORTENER..NEW TAI LUE VOWEL SIGN VOWEL SHORTENER
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..1BFF3 ; PVALID # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
1BF4..1BFFB ; UNASSIGNED # <reserved>..<reserved>
1BFC..1BFF ; DISALLOWED # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1C00..1C37 ; PVALID # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C38..1C3A ; UNASSIGNED # <reserved>..<reserved>
1C3B..1C3F ; DISALLOWED # LEPCHA PUNCTUATION TA-ROL..LEPCHA 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..1CD2 ; PVALID # VEDIC TONE KARSHANA..VEDIC TONE PRENKHA
1CD3 ; DISALLOWED # VEDIC SIGN NIHSHVASA
1CD4..1CF9 ; PVALID # VEDIC SIGN YAJURVEDIC MIDLINE SVARITA..VEDIC
1CFA..1CFF ; UNASSIGNED # <reserved>..<reserved>
1D00..1D2E ; PVALID # LATIN LETTER SMALL CAPITAL A..CYRILLIC LETTE
1D2F ; PVALID # MODIFIER LETTER CAPITAL B..MODIFIER LETTER C
1D30..1D3A ; DISALLOWED # MODIFIER LETTER CAPITAL D..MODIFIER LETTER S
1D3C..1D4D ; DISALLOWED # 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 LETTER VON ZU
1D9B..1DBF ; DISALLOWED # MODIFIER LETTER SMALL TURNED ALPHA..MODIFIER LETTER SMALL TURNED O
1DC0..1DF9 ; PVALID  # COMBINING DOTTED GRAVE ACCENT..COMBINING WİDE ACCENT
1DFA  ; UNASSIGNED # <reserved>
1DBF..1DFF ; PVALID  # COMBINING DELETION MARK..COMBINING RIGHT ARROW
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 ACUTE
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 BREVE
1E1D  ; PVALID  # LATIN SMALL LETTER E WITH CEDILLA AND BREVE
1E1E  ; DISALLOWED # LATIN CAPITAL LETTER F WITH DOT ABOVE
1E1F  ; PVALID  # LATIN SMALL LETTER F WITH DOT ABOVE
1E20  ; DISALLOWED # LATIN CAPITAL LETTER G WITH MACRON
1E21  ; PVALID  # LATIN SMALL LETTER G WITH MACRON
1E22  ; DISALLOWED # LATIN CAPITAL LETTER H WITH DOT ABOVE
1E23  ; PVALID  # LATIN SMALL LETTER H WITH DOT ABOVE
1E24  ; DISALLOWED # LATIN CAPITAL LETTER H WITH DOT BELOW
1E25  ; PVALID  # LATIN SMALL LETTER H WITH DOT BELOW
1E26  ; DISALLOWED # LATIN CAPITAL LETTER H WITH DIAERESIS
1E27  ; PVALID  # LATIN SMALL LETTER H WITH DIAERESIS
1E28  ; DISALLOWED # LATIN CAPITAL LETTER H WITH CEDILLA
1E29  ; PVALID  # LATIN SMALL LETTER H WITH CEDILLA
1E2A  ; DISALLOWED # LATIN CAPITAL LETTER H WITH BREVE BELOW
1E2B        ; PVALID      # LATIN SMALL LETTER H WITH BREVE BELOW
1E2C        ; DISALLOWED # LATIN CAPITAL LETTER I WITH TILDE BELOW
1E2D        ; PVALID      # LATIN SMALL LETTER I WITH TILDE BELOW
1E2E        ; DISALLOWED # LATIN CAPITAL LETTER I WITH DIAERESIS AND AC
1E2F        ; PVALID      # LATIN SMALL LETTER I WITH DIAERESIS AND ACUT
1E30        ; DISALLOWED # LATIN CAPITAL LETTER K WITH ACUTE
1E31        ; PVALID      # LATIN SMALL LETTER K WITH ACUTE
1E32        ; DISALLOWED # LATIN CAPITAL LETTER K WITH DOT BELOW
1E33        ; PVALID      # LATIN SMALL LETTER K WITH DOT BELOW
1E34        ; DISALLOWED # LATIN CAPITAL LETTER K WITH LINE BELOW
1E35        ; PVALID      # LATIN SMALL LETTER K WITH LINE BELOW
1E36        ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOT BELOW
1E37        ; PVALID      # LATIN SMALL LETTER L WITH DOT BELOW
1E38        ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOT BELOW AND MACR
1E39        ; PVALID      # LATIN SMALL LETTER L WITH DOT BELOW AND MACR
1E3A        ; DISALLOWED # LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW
1E3B        ; PVALID      # LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW
1E3C        ; DISALLOWED # LATIN CAPITAL LETTER M WITH ACUTE
1E3D        ; PVALID      # LATIN SMALL LETTER M WITH ACUTE
1E3E        ; DISALLOWED # LATIN CAPITAL LETTER M WITH DOT ABOVE
1E3F        ; PVALID      # LATIN SMALL LETTER M WITH DOT ABOVE
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1E43        ; PVALID      # LATIN SMALL LETTER N WITH DOT BELOW
1E44        ; DISALLOWED # LATIN CAPITAL LETTER N WITH DOT BELOW
1E45        ; PVALID      # LATIN SMALL LETTER N WITH DOT BELOW
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 O WITH TILDE AND ACUTE
1E4B        ; PVALID      # LATIN SMALL LETTER O WITH TILDE AND ACUTE
1E4C        ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE AND DIAERE
1E4D        ; PVALID      # LATIN SMALL LETTER O WITH TILDE AND DIAERE
1E4E        ; DISALLOWED # LATIN CAPITAL LETTER O WITH MACRON AND GRAVE
1E4F        ; PVALID      # LATIN SMALL LETTER O WITH MACRON AND GRAVE
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1E54        ; DISALLOWED # LATIN CAPITAL LETTER P WITH DOT ABOVE
1E55        ; PVALID      # LATIN SMALL LETTER P WITH DOT ABOVE
1E56        ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT ABOVE
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1E5A        ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT BELOW
1E5B  # LATIN SMALL LETTER R WITH DOT BELOW
1E5C  # LATIN CAPITAL LETTER R WITH DOT BELOW AND MACR
1E5D  # LATIN SMALL LETTER R WITH DOT BELOW AND MACR
1E5E  # LATIN CAPITAL LETTER R WITH LINE BELOW
1E5F  # LATIN SMALL LETTER R WITH LINE BELOW
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1E61  # LATIN SMALL LETTER S WITH DOT ABOVE
1E62  # LATIN CAPITAL LETTER S WITH DOT BELOW
1E63  # LATIN SMALL LETTER S WITH DOT BELOW
1E64  # LATIN CAPITAL LETTER S WITH ACUTE AND DOT AB
1E65  # LATIN SMALL LETTER S WITH ACUTE AND DOT ABOV
1E66  # LATIN CAPITAL LETTER S WITH CARON AND DOT AB
1E67  # LATIN SMALL LETTER S WITH CARON AND DOT ABOV
1E68  # LATIN CAPITAL LETTER S WITH DOT BELOW AND DO
1E69  # LATIN SMALL LETTER S WITH DOT BELOW AND DOT
1E6A  # LATIN CAPITAL LETTER T WITH DOT ABOVE
1E6B  # LATIN SMALL LETTER T WITH DOT ABOVE
1E6C  # LATIN CAPITAL LETTER T WITH DOT BELOW
1E6D  # LATIN SMALL LETTER T WITH DOT BELOW
1E6E  # LATIN CAPITAL LETTER T WITH LINE BELOW
1E6F  # LATIN SMALL LETTER T WITH LINE BELOW
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1E71  # LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW
1E72  # LATIN CAPITAL LETTER U WITH DIAERESIS BELOW
1E73  # LATIN SMALL LETTER U WITH DIAERESIS BELOW
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1E77  # LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW
1E78  # LATIN CAPITAL LETTER U WITH TILDE AND ACUTE
1E79  # LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E7A  # LATIN CAPITAL LETTER U WITH MACRON AND DIAER
1E7B  # LATIN SMALL LETTER U WITH MACRON AND DIAERES
1E7C  # LATIN CAPITAL LETTER V WITH TILDE
1E7D  # LATIN SMALL LETTER V WITH TILDE
1E7E  # LATIN CAPITAL LETTER V WITH DOT BELOW
1E7F  # LATIN SMALL LETTER V WITH DOT BELOW
1E80  # LATIN CAPITAL LETTER W WITH GRAVE
1E81  # LATIN SMALL LETTER W WITH GRAVE
1E82  # LATIN CAPITAL LETTER W WITH ACUTE
1E83  # LATIN SMALL LETTER W WITH ACUTE
1E84  # LATIN CAPITAL LETTER W WITH DIAERESIS
1E85  # LATIN SMALL LETTER W WITH DIAERESIS
1E86  # LATIN CAPITAL LETTER W WITH DOT ABOVE
1E87  # LATIN SMALL LETTER W WITH DOT ABOVE
1E88  # LATIN CAPITAL LETTER W WITH DOT BELOW
1E89  # LATIN SMALL LETTER W WITH DOT BELOW
1E8A  # LATIN CAPITAL LETTER X WITH DOT ABOVE
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1EC7  ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT
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1EC9  ; PVALID  # LATIN SMALL LETTER I WITH HOOK ABOVE
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1ECB  ; PVALID  # LATIN SMALL LETTER O WITH DOT BELOW
1ECC  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT BELOW
1ECD  ; PVALID  # LATIN SMALL LETTER O WITH DOT BELOW
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1ED9  ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT
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1EDB  ; PVALID  # LATIN SMALL LETTER O WITH HORN AND ACUTE
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1EDD  ; PVALID  # LATIN SMALL LETTER O WITH HORN AND GRAVE
1EDE  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND HOOK AB
1EDF  ; PVALID  # LATIN SMALL LETTER O WITH HORN AND HOOK ABOV
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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 TILDE
1EEF  ; PVALID  # LATIN SMALL LETTER U WITH HORN AND TILDE
1EE0  ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW
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1EF7        ; PVALID      # LATIN SMALL LETTER Y WITH HOOK ABOVE
1EF8        ; DISALLOWED # LATIN CAPITAL LETTER Y WITH TILDE
1EF9        ; PVALID      # LATIN SMALL LETTER Y WITH TILDE
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1EFB        ; PVALID      # LATIN SMALL LETTER MIDDLE-WELSH LL
1EFC        ; DISALLOWED # LATIN CAPITAL LETTER MIDDLE-WELSH V
1EFD        ; PVALID      # LATIN SMALL LETTER MIDDLE-WELSH V
1EFE        ; DISALLOWED # LATIN CAPITAL LETTER Y WITH LOOP
1EFF..1F07  ; PVALID      # LATIN SMALL LETTER Y WITH LOOP..GREEK SMALL
1F08..1F0F  ; DISALLOWED # GREEK CAPITAL LETTER ALPHA WITH PSILI..GREEK
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1F38..1F3F  ; DISALLOWED # GREEK CAPITAL LETTER IOTA WITH PSILI..GREEK
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1F78        ; PVALID      # GREEK SMALL LETTER OMICRON WITH VARIA
1F79 ; DISALLOWED # GREEK SMALL LETTER OMICRON WITH OXIA
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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>
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1FB2..1FB4 ; DISALLOWED # GREEK SMALL LETTER ALPHA WITH VARIA AND YPOG
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1FD3 ; DISALLOWED # GREEK SMALL LETTER IOTA WITH DIALYTIKA AND O
1FD4..1FD5 ; UNASSIGNED # <reserved>..<reserved>
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1FD8..1FDB ; DISALLOWED # GREEK CAPITAL LETTER IOTA WITH VRACHY..GREEK
1FDC ; UNASSIGNED # <reserved>
1FDD..1FDF ; DISALLOWED # GREEK DASIA AND VARIA..GREEK DASIA AND PERIS
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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
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1FF2..1FF4 ; DISALLOWED # GREEK SMALL LETTER OMEGA WITH VARIA AND YPOG
1FF5 ; UNASSIGNED # <reserved>
1FF6 ; PVALID # GREEK SMALL LETTER OMEGA WITH PERISPOMENI
1FF7..1FFE ; DISALLOWED # GREEK SMALL LETTER OMEGA WITH PERISPOMENI AN
1FFF ; UNASSIGNED # <reserved>
2000..200B ; DISALLOWED # EN QUAD..ZERO WIDTH SPACE
200C..200D ; CONTEXTJ # ZERO WIDTH NON-JOINER..ZERO WIDTH JOINER
200E..2064 ; DISALLOWED # LEFT-TO-RIGHT MARK..INVISIBLE PLUS
2065 ; UNASSIGNED # <reserved>
2066..2071 ; DISALLOWED # LEFT-TO-RIGHT ISOLATE..SUPERSCRIPT LATIN SMA
2072..2073 ; UNASSIGNED # <reserved>..<reserved>
2074..208E ; DISALLOWED # SUPERSCRIPT FOUR..SUBSCRIPT RIGHT PARENTHESI
208F ; UNASSIGNED # <reserved>
2090..209C ; DISALLOWED # LATIN SUBSCRIPT SMALL LETTER A..LATIN SUBSCR
209D..209F ; UNASSIGNED # <reserved>..<reserved>
20A0..20BF ; DISALLOWED # EURO-CURRENCY SIGN..BITCOIN SIGN
20C0..20CF ; UNASSIGNED # <reserved>..<reserved>
20D0..20F0 ; DISALLOWED # COMBINING LEFT HARPOON ABOVE..COMBINING ASTE
20F1..20FF ; UNASSIGNED # <reserved>..<reserved>
2100..214D ; DISALLOWED # ACCOUNT OF..AKTIESELSKAB
214E ; PVALID # TURNED SMALL F
214F..2183  ; DISALLOWED # SYMBOL FOR SAMARITAN SOURCE..ROMAN NUMERAL R
2184  ; PVALID # LATIN SMALL LETTER REVERSED C
2185..218B  ; DISALLOWED # ROMAN NUMERAL SIX LATE FORM..TURNED DIGIT TH
218C..218F  ; UNASSIGNED # <reserved>..<reserved>
2190..2426  ; DISALLOWED # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
2427..243F  ; UNASSIGNED # <reserved>..<reserved>
2440..244A  ; DISALLOWED # OCR HOOK..OCR DOUBLE BACKSLASH
244B..245F  ; UNASSIGNED # <reserved>..<reserved>
2460..2B73  ; DISALLOWED # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
2B74..2B75  ; UNASSIGNED # <reserved>..<reserved>
2B76..2B95  ; DISALLOWED # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
2B96..2B97  ; UNASSIGNED # <reserved>..<reserved>
2B98..2BC8  ; DISALLOWED # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BC9  ; UNASSIGNED # <reserved>
2BCE..2BFE  ; DISALLOWED # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
2BF  ; 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 LETTER SMAL
2C7C..2C80  ; DISALLOWED # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPIT
2C81  ; PVALID # COPTIC SMALL LETTER ALFA
2C82  ; DISALLOWED # COPTIC CAPITAL LETTER VIDA
2C83  ; PVALID # COPTIC SMALL LETTER VIDA
2C84  ; DISALLOWED # COPTIC CAPITAL LETTER GAMMA
2C85  ; PVALID # COPTIC SMALL LETTER GAMMA
2C86  ; DISALLOWED # COPTIC CAPITAL LETTER DALDA
2C87  ; PVALID # COPTIC SMALL LETTER DALDA
2C88  ; DISALLOWED # COPTIC CAPITAL LETTER EIE
2C89  ; PVALID # COPTIC SMALL LETTER EIE
2C8A  ; DISALLOWED # COPTIC CAPITAL LETTER SOU
2C8B  ; PVALID # COPTIC SMALL LETTER SOU
2C8C        ; DISALLOWED # COPTIC CAPITAL LETTER ZATA
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2CA4        ; DISALLOWED # COPTIC CAPITAL LETTER SIMA
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2CAB        ; PVALID  # COPTIC SMALL LETTER FI
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2CAD        ; PVALID  # COPTIC SMALL LETTER KHI
2CAE        ; DISALLOWED # COPTIC CAPITAL LETTER PSI
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2CB3        ; PVALID  # COPTIC SMALL LETTER DIALECT-P ALEF
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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
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2CBB        ; PVALID  # COPTIC SMALL LETTER DIALECT-P NI
2CBC ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC NI
2CBD ; PVALID # COPTIC SMALL LETTER CRYPTOGRAMMIC NI
2CBE ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC OOU
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2CC6 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC ESH
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2CC8 ; DISALLOWED # COPTIC CAPITAL LETTER AKHMIMIC KHEI
2CC9 ; PVALID # COPTIC SMALL LETTER AKHMIMIC KHEI
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2CD ; DISALLOWED # COPTIC SYMBOL MI RO..COPTIC CAPITAL LETTER C
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2CD ; DISALLOWED # COPTIC CAPITAL LETTER BOHAIRIC KHEI
2CD ; PVALID # COPTIC SMALL LETTER BOHAIRIC KHEI
2CD ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN FULL STOP..COPTIC MORPHOLO
2D00..2D25  ; PVALID   # GEORGIAN SMALL LETTER AN..GEORGIAN SMALL LET
2D26        ; UNASSIGNED # <reserved>
2D27        ; PVALID   # GEORGIAN SMALL LETTER YN
2D28..2D2C  ; UNASSIGNED # <reserved>..<reserved>
2D2D        ; PVALID   # GEORGIAN SMALL LETTER AEN
2D2E..2D2F  ; UNASSIGNED # <reserved>..<reserved>
2D30..2D67  ; PVALID   # TIFINAGH LETTER YA..TIFINAGH LETTER YO
2D68..2D6E  ; UNASSIGNED # <reserved>..<reserved>
2D6F..2D70  ; DISALLOWED # TIFINAGH MODIFIER LETTER LABIALIZATION MARK.
2D71..2D7E  ; UNASSIGNED # <reserved>..<reserved>
2D7F..2D96  ; PVALID   # TIFINAGH CONSONANT JOINER..ETHIOPIAN SYLLABLE
2D97..2D9F  ; UNASSIGNED # <reserved>..<reserved>
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2DAA..2DAE  ; PVALID   # ETHIOPIAN SYLLABLE CCA..ETHIOPIAN SYLLABLE CCO
2DAF        ; UNASSIGNED # <reserved>
2DB0..2DB6  ; PVALID   # ETHIOPIAN SYLLABLE ZZA..ETHIOPIAN SYLLABLE ZZO
2DB7        ; UNASSIGNED # <reserved>
2DB8..2DBE  ; PVALID   # ETHIOPIAN SYLLABLE CCHA..ETHIOPIAN SYLLABLE CC
2DBF        ; UNASSIGNED # <reserved>
2DC0..2DC6  ; PVALID   # ETHIOPIAN SYLLABLE QYA..ETHIOPIAN SYLLABLE QYO
2DC7        ; UNASSIGNED # <reserved>
2DC8..2DCE  ; PVALID   # ETHIOPIAN SYLLABLE KYA..ETHIOPIAN SYLLABLE KYO
2DCF        ; UNASSIGNED # <reserved>
2DD0..2DD6  ; PVALID   # ETHIOPIAN SYLLABLE XYA..ETHIOPIAN SYLLABLE XYO
2DD7        ; UNASSIGNED # <reserved>
2DD8..2DDE  ; PVALID   # ETHIOPIAN SYLLABLE GYA..ETHIOPIAN SYLLABLE GYO
2DDF        ; UNASSIGNED # <reserved>
2DE0..2DFF  ; PVALID   # COMBINING CYRILLIC LETTER BE..COMBINING CYRI
2E00..2E2E  ; DISALLOWED # RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QU
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>
2EB8..2EF3  ; DISALLOWED # CJK RADICAL CHOE..CJK RADICAL C-SIMPLIFIED
2EE4..2EFF  ; UNASSIGNED # <reserved>..<reserved>
2F00..2F0D  ; DISALLOWED # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2F06..2FEF  ; UNASSIGNED # <reserved>..<reserved>
2FF0..2FFB  ; DISALLOWED # IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RI
2FFC..2FFF  ; UNASSIGNED # <reserved>..<reserved>
3000..3004  ; DISALLOWED # IDEOGRAPHIC SPACE..JAPANESE INDUSTRIAL STAND
3005..3007  ; PVALID   # IDEOGRAPHIC ITERATION MARK..IDEOGRAPHIC NUMB
3008..3029  ; DISALLOWED # LEFT ANGLE BRACKET..HANGZHOU NUMERAL NINE
302A..302D  ; PVALID   # IDEOGRAPHIC LEVEL TONE MARK..IDEOGRAPHIC ENT
302E..303B  ; DISALLOWED # HANGUL SINGLE DOT TONE MARK..VERTICAL IDEOGRAPH
303C        ; PVALID   # MASU MARK
303D..303F  ; DISALLOWED # PART ALTERNATION MARK..IDEOGRAPHIC HALF FILL
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A64B ; PVALID  # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C ; DISALLOWED  # CYRILLIC CAPITAL LETTER BROAD OMEGA
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A669 ; PVALID  # CYRILLIC SMALL LETTER MONOCULAR O
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A66B ; PVALID  # CYRILLIC SMALL LETTER BINOCULAR O
A66C ; DISALLOWED  # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F ; PVALID  # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673 ; DISALLOWED  # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D ; PVALID  # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E ; DISALLOWED  # CYRILLIC KAVYKA
A67F ; PVALID  # CYRILLIC PAYEROK
A680 ; DISALLOWED  # CYRILLIC CAPITAL LETTER DWE
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A682 ; DISALLOWED  # CYRILLIC CAPITAL LETTER D2WE
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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 Diagonal Stroke
A74B        ; PVALID      # LATIN SMALL LETTER O WITH LONG STROKE OVER Diagonal Stroke
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
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
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 FLORISH
A797 ; PVALID # LATIN SMALL LETTER B WITH FLORISH
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
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A7A1 ; PVALID # LATIN SMALL LETTER G WITH OBLIQUE STROKE
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AA37..AA3F  ; UNASSIGNED  # <reserved>..<reserved>
AA40..AA4D  ; PVALID  # CHAM LETTER FINAL K..CHAM CONSONANT SIGN FIN
AA4E..AA4F  ; UNASSIGNED  # <reserved>..<reserved>
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AA5C..AA5F  ; DISALLOWED  # CHAM PUNCTUATION SPIRAL..CHAM PUNCTUATION TR
AA60..AA76  ; PVALID  # MYANMAR LETTER KHAMTI GA..MYANMAR LOGOGRAM K
AA77..AA79  ; DISALLOWED  # MYANMAR SYMBOL AITON EXCLAMATION..MYANMAR SY
AA7A..AAC2  ; PVALID  # MYANMAR LETTER AITON RA..TAI VIET TONE MAI S
AAC3..AADA  ; UNASSIGNED  # <reserved>..<reserved>
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AADE..AEEF  ; DISALLOWED  # TAI VIET SYMBOL HO HOI..TAI VIET SYMBOL KOK
AAF0..AEEF  ; PVALID  # MEETEI MAYEK LETTER E..MEETEI MAYEK VOWEL SI
AAF2..AEEF  ; PVALID  # MEETEI MAYEK ANJI..MEETEI MAYEK VIRAMA
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AB07..AB08  ; UNASSIGNED  # <reserved>..<reserved>
AB09..AB0E  ; PVALID  # ETHIOPIAN SYLLABLE DDHU..ETHIOPIAN SYLLABLE DD
AB0F..AB10  ; UNASSIGNED  # <reserved>..<reserved>
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AB17..AB1F  ; UNASSIGNED  # <reserved>..<reserved>
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AB27  ; UNASSIGNED  # <reserved>
AB28..AB2E  ; PVALID  # ETHIOPIAN SYLLABLE BBA..ETHIOPIAN SYLLABLE BBO
AB2F  ; UNASSIGNED  # <reserved>
AB30..AB5A  ; PVALID  # LATIN SMALL LETTER BARRLED ALPHA..LATIN SMALL
AB5B..AB5F  ; DISALLOWED  # MODIFIER BREVE WITH INVERTED BREVE..MODIFIER
AB60..AB65  ; PVALID  # LATIN SMALL LETTER SAKHA YAT..GREEK LETTER S
AB66..AB6F  ; UNASSIGNED  # <reserved>..<reserved>
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ABCD..ABEA  ; PVALID  # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL
ABEB  ; DISALLOWED  # MEETEI MAYEK CHEIKHEI
ABEC..ABED  ; PVALID  # MEETEI MAYEK LUM IYEK..MEETEI MAYEK APUN IYE
ABEE..ABEF  ; UNASSIGNED  # <reserved>..<reserved>
ABF0..ABF9  ; PVALID  # MEETEI MAYEK DIGIT ZERO..MEETEI MAYEK DIGIT
ABFA..ABFF  ; UNASSIGNED  # <reserved>..<reserved>
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D7C7..D7CA  ; UNASSIGNED  # <reserved>..<reserved>
D7CB..D7FB  ; DISALLOWED  # HANGUL JONGSEONG NIEUN-RIEUL..HANGUL JONGSEO
D7FC..D7FF  ; UNASSIGNED  # <reserved>..<reserved>
D800..FA0D  ; DISALLOWED  # <Non Private Use High Surrogate>..CJK COMPAT
FA0E..FA0F  ; PVALID  # CJK COMPATIBILITY IDEOGRAPH-FA0E..CJK COMPAT
FA10 ; DISALLOWED  # CJK COMPATIBILITY IDEOGRAPH-FA10
FA11 ; PVALID   # CJK COMPATIBILITY IDEOGRAPH-FA11
FA12 ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA12
FA13..FA14 ; PVALID   # CJK COMPATIBILITY IDEOGRAPH-FA13..CJK COMPAT
FA15..FA1E ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA15..CJK COMPAT
FA1F ; PVALID   # CJK COMPATIBILITY IDEOGRAPH-FA1F
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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>
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FB07..FB12 ; DISALLOWED # <reserved>
FB13..FB17 ; DISALLOWED # ARMENIAN SMALL LIGATURE MEN NOW..ARMENIAN SM
FB18..FB1C ; UNASSIGNED # <reserved>
FB1D ; DISALLOWED # HEBREW LETTER YOD WITH HIRIQ
FB1E ; PVALID   # HEBREW POINT JUDEO-SPANISH VARICA
FB1F..FB36 ; DISALLOWED # HEBREW LIGATURE YIDISH YOD YOD PATAH..HEBRE
FB37 ; UNASSIGNED # <reserved>
FB38..FB3C ; DISALLOWED # HEBREW LETTER TET WITH DAGESH..HEBREW LETTER
FB3D ; UNASSIGNED # <reserved>
FB3E ; DISALLOWED # HEBREW LETTER MEM WITH DAGESH
FB3F ; UNASSIGNED # <reserved>
FB40..FB41 ; DISALLOWED # HEBREW LETTER NUN WITH DAGESH..HEBREW LETTER
FB42 ; UNASSIGNED # <reserved>
FB43..FB44 ; DISALLOWED # HEBREW LETTER FINAL PE WITH DAGESH..HEBREW L
FB45 ; UNASSIGNED # <reserved>
FB46..FBCE ; DISALLOWED # HEBREW LETTER TSADI WITH DAGESH..ARABIC SYMB
FBC2..FBD2 ; UNASSIGNED # <reserved>
FBD3..FDF3 ; DISALLOWED # ARABIC LETTER NG ISOLATED FORM..ORNATE RIGHT
FD40..FD4F ; UNASSIGNED # <reserved>
FD50..FD8F ; DISALLOWED # ARABIC LIGATURE TEH WITH JEEM WITH MEEM INIT
FD90..FD91 ; UNASSIGNED # <reserved>
FD92..FDCC ; DISALLOWED # ARABIC LIGATURE MEEM WITH JEEM WITH KHAH INI
FDC8..FDFF ; UNASSIGNED # <reserved>
FDD0..FDFD ; DISALLOWED # <noncharacter>..ARABIC LIGATURE BISMILLAH AR
FDFE..FDFF ; UNASSIGNED # <reserved>
FE00..FE19 ; DISALLOWED # VARIATION SELECTOR-1..PRESENTATION FORM FOR
FE1A..FE1F ; UNASSIGNED # <reserved>
FE20..FE2F ; PVALID   # COMBINING LIGATURE LEFT HALF..COMBINING CYRI
FE30..FE52 ; DISALLOWED # PRESENTATION FORM FOR VERTICAL TWO DOT LEADE
FE53 ; UNASSIGNED # <reserved>
FE54..FE66 ; DISALLOWED # SMALL SEMICOLON..SMALL EQUALS SIGN

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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
FFC8..FFC9  ; UNASSIGNED  # <reserved>..<reserved>
FFCA..FFCF  ; DISALLOWED # HALFWIDTH HANGUL LETTER YEO..HALFWIDTH HANGUL
FFD0..FFD1  ; UNASSIGNED  # <reserved>..<reserved>
FFD2..FFD7  ; DISALLOWED # HALFWIDTH HANGUL LETTER YO..HALFWIDTH HANGUL
FFD8..FFD9  ; UNASSIGNED  # <reserved>..<reserved>
FFDA..FFDC  ; DISALLOWED # HALFWIDTH HANGUL LETTER EU..HALFWIDTH HANGUL
FFDD..FFDF  ; UNASSIGNED  # <reserved>..<reserved>
FE00..FE6F  ; DISALLOWED # FULLWIDTH CENT SIGN..FULLWIDTH WON SIGN
FE77        ; UNASSIGNED  # <reserved>
FE88..FEFE  ; DISALLOWED # HALFWIDTH FORMS LIGHT VERTICAL..HALFWIDTH WH
FEF8..FFFF  ; UNASSIGNED  # <reserved>..<reserved>
FFF8..FFFF  ; DISALLOWED # INTERLINEAR ANNOTATION ANCHOR..<noncharacter
10000..1000B; PVALID   # LINEAR B SYLLABLE B008 A..LINEAR B SYLLABLE
1000C        ; UNASSIGNED  # <reserved>
1000D..10026; PVALID   # LINEAR B SYLLABLE B036 JO..LINEAR B SYLLABLE
10027        ; UNASSIGNED  # <reserved>
10028..1003A; PVALID   # LINEAR B SYLLABLE B060 RA..LINEAR B SYLLABLE
1003B        ; UNASSIGNED  # <reserved>
1003C..1003D; PVALID   # LINEAR B SYLLABLE B017 ZA..LINEAR B SYLLABLE
1003E        ; UNASSIGNED  # <reserved>
1003F..1004D; PVALID   # LINEAR B SYLLABLE B020 ZO..LINEAR B SYLLABLE
1004E..1004F; UNASSIGNED  # <reserved>..<reserved>
10050..1005D; PVALID   # LINEAR B SYMBOL B018..LINEAR B SYMBOL B089
1005E..1007F; UNASSIGNED  # <reserved>..<reserved>
10080..100FA; PVALID   # LINEAR B IDEOGRAPH B100 MAN..LINEAR B IDEOGRAPH
100FB..100FF; UNASSIGNED  # <reserved>..<reserved>
10100..10102; DISALLOWED # AEGEAN WORD SEPARATOR LINE..AEGEAN CHECK MARK
10103..10106; UNASSIGNED  # <reserved>..<reserved>
10107..10133; DISALLOWED # AEGEAN NUMBER ONE..AEGEAN NUMBER NINETY THOU
10134..10136; UNASSIGNED  # <reserved>..<reserved>
10137..1018E; DISALLOWED # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
1018F        ; UNASSIGNED  # <reserved>
10190..1019B; DISALLOWED # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN
1019C..1019F; UNASSIGNED  # <reserved>..<reserved>
101A0       ; DISALLOWED  # GREEK SYMBOL TAU RHO
101A1..101CF; UNASSIGNED  # <reserved>..<reserved>
101D0..101FC; DISALLOWED  # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC
101FD       ; PVALID  # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE
101FE..1027F; UNASSIGNED  # <reserved>..<reserved>
10280..1029C; PVALID  # LYCIAN LETTER A..LYCIAN LETTER X
1029D..1029F; UNASSIGNED  # <reserved>..<reserved>
102A0..102D0; PVALID  # CARIAN LETTER A..CARIAN LETTER UUU3
102D1..102DF; UNASSIGNED  # <reserved>..<reserved>
102E0       ; PVALID  # COPTIC EPACT THOUSANDS MARK
102E1..102FB; DISALLOWED  # COPTIC EPACT DIGIT ONE..COPTIC EPACT NUMBER
102FC..102FF; UNASSIGNED  # <reserved>..<reserved>
10300..1031F; PVALID  # OLD ITALIC LETTER A..OLD ITALIC LETTER ESS
10320..10323; DISALLOWED  # OLD ITALIC NUMERAL ONE..OLD ITALIC NUMERAL F
10324..1032C; UNASSIGNED  # <reserved>..<reserved>
1032D..10340; PVALID  # OLD ITALIC LETTER YE..GOTHIC LETTER PAIRTHRA
10341       ; DISALLOWED  # GOTHIC LETTER NINETY
10342..10349; PVALID  # GOTHIC LETTER RAIDA..GOTHIC LETTER OTHAL
1034A       ; DISALLOWED  # GOTHIC LETTER NINE HUNDRED
1034B..1034F; UNASSIGNED  # <reserved>..<reserved>
10350..1037A; PVALID  # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L
1037B..1037F; UNASSIGNED  # <reserved>..<reserved>
10380..1039D; PVALID  # UGARITIC LETTER ALPA..UGARITIC LETTER SSU
1039E       ; UNASSIGNED  # <reserved>
1039F       ; DISALLOWED  # UGARITIC WORD DIVIDER
103A0..103C3; PVALID  # OLD PERSIAN SIGN A..OLD PERSIAN SIGN HA
103C4..103C7; UNASSIGNED  # <reserved>..<reserved>
103C8..103CF; PVALID  # OLD PERSIAN SIGN AURAMAZDA..OLD PERSIAN SIG
103D0..103D5; DISALLOWED  # OLD PERSIAN WORD DIVIDER..OLD PERSIAN NUMBER
103D6..103FF; UNASSIGNED  # <reserved>..<reserved>
10400..10427; DISALLOWED  # DESERET CAPITAL LETTER LONG I..DESERET CAPITAL
10428..1042F; PVALID  # DESERET SMALL LETTER LONG I..OSMANYA LETTER
10430..1043F; UNASSIGNED  # <reserved>..<reserved>
10440..1044F; PVALID  # OSMANYA DIGIT ZERO..OSMANYA DIGIT NINE
10450..1045F; UNASSIGNED  # <reserved>..<reserved>
10460..1046F; DISALLOWED  # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
10470..1047F; UNASSIGNED  # <reserved>..<reserved>
10480..1048F; PVALID  # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
10490..1049F; UNASSIGNED  # <reserved>..<reserved>
104A0..104AF; PVALID  # OSMANYA DIGIT ZERO..OSMANYA DIGIT NINE
104B0..104B7; DISALLOWED  # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104C0..104C7; UNASSIGNED  # <reserved>..<reserved>
104D0..104D7; UNASSIGNED  # <reserved>..<reserved>
104D8..104DF; PVALID  # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
104E0..104E7; UNASSIGNED  # <reserved>..<reserved>
104F0..104FF; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
10500..10527; PVALID  # ELBASAN LETTER A..ELBASAN LETTER KHE
10528..1052F; UNASSIGNED  # <reserved>..<reserved>
10530..10563; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
10564..1056F; UNASSIGNED  # <reserved>..<reserved>
10570..1057F; UNASSIGNED  # <reserved>..<reserved>
10580..1058F; PVALID  # LINEAR A SIGN AB001..LINEAR A SIGN A664
10590..105FF; UNASSIGNED  # <reserved>..<reserved>
105A0..105A9; PVALID  # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10756..1075F; UNASSIGNED # <reserved>..<reserved>
10760..10767; PVALID # LINEAR A SIGN A800..LINEAR A SIGN A807
10768..1077F; UNASSIGNED # <reserved>..<reserved>
10800..10805; PVALID # CYPRIOIT SYLLABLE A..CYPRIOIT SYLLABLE JA
10806..10807; UNASSIGNED # <reserved>..<reserved>
10808 ; PVALID # CYPRIOIT SYLLABLE JO
10809 ; UNASSIGNED # <reserved>
1080A..10835; PVALID # CYPRIOIT SYLLABLE KA..CYPRIOIT SYLLABLE WO
10836 ; UNASSIGNED # <reserved>
10837..1083B; PVALID # CYPRIOIT SYLLABLE XA..CYPRIOIT SYLLABLE XE
10839..1083B; UNASSIGNED # <reserved>..<reserved>
1083C ; PVALID # CYPRIOIT SYLLABLE ZA
1083D..1083E; UNASSIGNED # <reserved>..<reserved>
1083F..10855; PVALID # CYPRIOIT SYLLABLE ZO..IMPERIAL ARAMAIC LETTER
10856 ; UNASSIGNED # <reserved>
10857..1085F; DISALLOWED # IMPERIAL ARAMAIC SECTION SIGN..IMPERIAL ARAM
10860..10876; PVALID # PALMYRENE LETTER ALEPH..PALMYRENE LETTER TAW
10877..1087F; DISALLOWED # PALMYRENE LEFT-POINTING FLEURON..PALMYRENE N
10880..1089E; PVALID # NABATAEAN LETTER FINAL ALEPH..NABATAEAN LETT
1089F..108A6; UNASSIGNED # <reserved>..<reserved>
108A7..108AF; DISALLOWED # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
108B0..108D8; UNASSIGNED # <reserved>..<reserved>
108E0..108E2; PVALID # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F3 ; UNASSIGNED # <reserved>
108F4..108F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
108F6..108FA; UNASSIGNED # <reserved>..<reserved>
108FB..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
10900..10915; PVALID # PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU
10916..1093C; DISALLOWED # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER TAU
1093E..10940; UNASSIGNED # <reserved>..<reserved>
10941 ; DISALLOWED # PHOENICIAN WORD SEPARATOR
10942..10953; PVALID # LYDIAN LETTER A..LYDIAN LETTER C
10953..10959; UNASSIGNED # <reserved>..<reserved>
1095F ; DISALLOWED # LYDIAN TRIANGULAR MARK
10960..1097F; UNASSIGNED # <reserved>..<reserved>
10980..109B7; PVALID # MEROITIC HIEROGLYPHIC LETTER A..MEROITIC CUR
109BB..109BB; UNASSIGNED # <reserved>..<reserved>
109BC..109BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
109BE..109BF; PVALID # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
109C0..109CF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURS
109D0..109D1; UNASSIGNED # <reserved>..<reserved>
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI
10A00..10A03; PVALID # KHAROSHTHI LETTER A..KHAROSHTHI VOWEL SIGN V
10A04 ; UNASSIGNED # <reserved>
10A05..10A06; PVALID # KHAROSHTHI VOWEL SIGN E..KHAROSHTHI VOWEL SI
10A07..10A0B; UNASSIGNED # <reserved>..<reserved>
10A0C..10A13; PVALID # KHAROSHTHI VOWEL LENGTH MARK..KHAROSHTHI LET
10A14 ; UNASSIGNED # <reserved>
10A15..10A17; PVALID # KUAROSHTHI LETTER CA..KUAROSHTHI LETTER JA
10A18; UNASSIGNED # <reserved>
10A19..10A35; PVALID # KUAROSHTHI LETTER NYA..KUAROSHTHI LETTER VHA
10A36..10A37; UNASSIGNED # <reserved>..<reserved>
10A38..10A3A; PVALID # KUAROSHTHI SIGN BAR ABOVE..KUAROSHTHI SIGN D
10A3B..10A3E; UNASSIGNED # <reserved>..<reserved>
10A3F; PVALID # KUAROSHTHI VIRAMA
10A40..10A48; DISALLOWED # KUAROSHTHI DIGIT ONE..KUAROSHTHI FRACTION ON
10A49..10A4F; UNASSIGNED # <reserved>..<reserved>
10A50..10A58; DISALLOWED # KUAROSHTHI PUNCTUATION DOT..KUAROSHTHI PUNCT
10A59..10A5F; UNASSIGNED # <reserved>..<reserved>
10A60..10A7C; PVALID # OLD SOUTH ARABIAN LETTER HE..OLD SOUTH ARABI
10A7D..10A7F; DISALLOWED # OLD SOUTH ARABIAN NUMBER ONE..OLD SOUTH ARAB
10A80..10A89C; PVALID # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10A9D..10A9F; DISALLOWED # OLD NORTH ARABIAN NUMBER ONE..OLD NORTH ARAB
10AA0..10AABF; UNASSIGNED # <reserved>..<reserved>
10AC0..10AC7; PVALID # MANICHAEAN LETTER ALEPH..MANICHAEAN LETTER W
10AC8; DISALLOWED # MANICHAEAN SIGN UD
10AC9..10AEE6; PVALID # MANICHAEAN LETTER ZAYIN..MANICHAEAN ABBREVI
10AE7..10AE9A; UNASSIGNED # <reserved>..<reserved>
10AE8..10AF6; DISALLOWED # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATIO
10AFA7..10AFF; UNASSIGNED # <reserved>..<reserved>
10B00..10B35; PVALID # AVESTAN LETTER A..AVESTAN LETTER HE
10B36..10B38; UNASSIGNED # <reserved>..<reserved>
10B39..10B3F; DISALLOWED # AVESTAN ABBREVIATION MARK..LARGE ONE RING OV
10B40..10B55; PVALID # INSCRIPTIONAL PARTHIAN LETTER ALEPH..INSCRIPT
10B56..10B57; UNASSIGNED # <reserved>..<reserved>
10B58..10B5F; DISALLOWED # INSCRIPTIONAL PARTHIAN NUMBER ONE..INSCRIPTI
10B60..10B72; PVALID # INSCRIPTIONAL PAHLAVI LETTER ALEPH..INSCRIPT
10B73..10B77; UNASSIGNED # <reserved>..<reserved>
10B78..10B7F; DISALLOWED # INSCRIPTIONAL PAHLAVI NUMBER ONE..INSCRIPTIO
10B80..10B89; PVALID # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10B92..10B98; UNASSIGNED # <reserved>..<reserved>
10B99..10BA8; DISALLOWED # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10BB9..10BBA8; UNASSIGNED # <reserved>..<reserved>
10BBA9..10BBF; DISALLOWED # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAV
10BB0..10BBF; UNASSIGNED # <reserved>..<reserved>
10C00..10C48; PVALID # OLD TURKIC LETTER ORKHON A..OLD TURKIC LETTE
10C49..10C7F; UNASSIGNED # <reserved>..<reserved>
10C80..10CBB; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
10CBB3..10CBBF; UNASSIGNED # <reserved>..<reserved>
10CC0..10CCF2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CF3..10CF9; UNASSIGNED # <reserved>..<reserved>
10CF8..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUM
10D00..10D07; PVALID # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D28..10D2F; UNASSIGNED # <reserved>..<reserved>
10D30..10D39; PVALID # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA
10D3A..10D5F; UNASSIGNED # <reserved>..<reserved>
10E60..10E7E; DISALLOWED # RUMI DIGIT ONE..RUMI FRACTION TWO THIRDS
10E7F..10EFF; UNASSIGNED # <reserved>..<reserved>
10F00..10F1C; PVALID # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LETTER
10F1D..10F26; DISALLOWED # OLD SOGDIAN NUMBER ONE..OLD SOGDIAN FRACTION
10F27; PVALID # OLD SOGDIAN LIGATURE AYIN-DALETH
10F28..10F2F; UNASSIGNED # <reserved>..<reserved>
10F30..10F50; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN COMBINING STRO
10F51..10F59; DISALLOWED # SOGDIAN NUMBER ONE..SOGDIAN PUNCTUATION HALF
10F5A..10FFE; UNASSIGNED # <reserved>..<reserved>
11000..11046; PVALID # BRAHMI SIGN CANDRABINDU..BRAHMI VIRAMA
11047..1104D; DISALLOWED # BRAHMI DANDA..BRAHMI PUNCTUATION LOTUS
1104E..11051; UNASSIGNED # <reserved>..<reserved>
11052..11065; DISALLOWED # BRAHMI NUMBER ONE..BRAHMI NUMBER ONE THOUSAN
11066..1106F; PVALID # BRAHMI DIGIT ZERO..BRAHMI DIGIT NINE
11070..1107F; UNASSIGNED # <reserved>..<reserved>
1107F..110BA; PVALID # BRAHMI NUMBER JOINER..KAITHI SIGN NUKTA
110BB..110C1; DISALLOWED # KAITHI ABBREVIATION SIGN..KAITHI DOUBLE DAND
110C2..110CC; UNASSIGNED # <reserved>..<reserved>
110CD; DISALLOWED # KAITHI NUMBER SIGN ABOVE
110CE..110CF; UNASSIGNED # <reserved>..<reserved>
110D0..110E8; PVALID # SORA SOMPENG LETTER SAH..SORA SOMPENG LETTER
110E9..110EF; UNASSIGNED # <reserved>..<reserved>
110F0..110F9; PVALID # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT
110FA..110FF; UNASSIGNED # <reserved>..<reserved>
11100..11134; PVALID # CHAKMA SIGN CANDRABINDU..CHAKMA MAAYYAA
11135; UNASSIGNED # <reserved>
11136..1113F; PVALID # CHAKMA DIGIT ZERO..CHAKMA DIGIT NINE
11140..11143; DISALLOWED # CHAKMA SECTION MARK..CHAKMA QUESTION MARK
11144..11146; PVALID # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
11147..1114F; UNASSIGNED # <reserved>..<reserved>
11150..11173; PVALID # MAHAJANI LETTER A..MAHAJANI SIGN NUKTA
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
111CE..111CF; UNASSIGNED # <reserved>..<reserved>
111D0..111DA; PVALID # SHARADA DIGIT ZERO..SHARADA EKAM
111DB; DISALLOWED # SHARADA SIGN SIDDHAM
111DC; PVALID # SHARADA HEADSTROKE
111DD..111DF; DISALLOWED # SHARADA CONTINUATION SIGN..SHARADA SECTION M
111E0; UNASSIGNED # <reserved>
111E1..111F4; DISALLOWED # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
111F5..111FF; UNASSIGNED # <reserved>..<reserved>
11200..11211; PVALID # KHOJKI LETTER A..KHOJKI LETTER JJA
11212; UNASSIGNED # <reserved>
11213..11237; PVALID    # KHOJKI LETTER NYA..KHOJKI SIGN SHADDA
11238..1123D; DISALLOWED # KHOJKI DANDA..KHOJKI ABBREVIATION SIGN
1123E; PVALID    # KHOJKI SIGN SUKUN
1123F..1127F; UNASSIGNED # <reserved>..<reserved>
11280..11286; PVALID    # MULTANI LETTER A..MULTANI LETTER GA
11287; UNASSIGNED # <reserved>
11288; PVALID    # MULTANI LETTER GHA
11289; UNASSIGNED # <reserved>
1128A..1128D; PVALID    # MULTANI LETTER CA..MULTANI LETTER JJA
1128E; UNASSIGNED # <reserved>
1128F..1129D; PVALID    # MULTANI LETTER NYA..MULTANI LETTER BA
1129E; UNASSIGNED # <reserved>
1129F..112A8; PVALID    # MULTANI LETTER BHA..MULTANI LETTER RHA
112A9; DISALLOWED # MULTANI SECTION MARK
112AA..112AF; UNASSIGNED # <reserved>..<reserved>
112B0..112EA; PVALID    # KHUHAWADI LETTER A..KHUHAWADI SIGN VIRAMA
112EB..112EF; UNASSIGNED # <reserved>..<reserved>
112F0..112F9; PVALID    # KHUHAWADI DIGIT ZERO..KHUHAWADI DIGIT NINE
112FA..112FF; UNASSIGNED # <reserved>..<reserved>
11300..11303; PVALID    # GRANTHA SIGN COMBINING ANUSVARA ABOVE..GRANT
11304; UNASSIGNED # <reserved>
11305..1130C; PVALID    # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130D..1130E; UNASSIGNED # <reserved>..<reserved>
1130F..11310; PVALID    # GRANTHA LETTER EE..GRANTHA LETTER AI
11311..11312; UNASSIGNED # <reserved>..<reserved>
11313..11328; PVALID    # GRANTHA LETTER OO..GRANTHA LETTER NA
11329; UNASSIGNED # <reserved>
1132A..11330; PVALID    # GRANTHA LETTER PA..GRANTHA LETTER RA
11331; UNASSIGNED # <reserved>
11332..11333; PVALID    # GRANTHA LETTER LA..GRANTHA LETTER LLA
11334; UNASSIGNED # <reserved>
11335..11339; PVALID    # GRANTHA LETTER VA..GRANTHA LETTER HA
1133A; UNASSIGNED # <reserved>
1133B..11344; PVALID    # COMBINING BINDU BELOW..GRANTHA VOWEL SIGN VO
11345..11346; UNASSIGNED # <reserved>..<reserved>
11347..11348; PVALID    # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
11349..1134A; UNASSIGNED # <reserved>..<reserved>
1134B..1134D; PVALID    # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
1134E..1134F; UNASSIGNED # <reserved>..<reserved>
11350; PVALID    # GRANTHA OM
11351..11356; UNASSIGNED # <reserved>..<reserved>
11357; PVALID    # GRANTHA AU LENGTH MARK
11358..1135C; UNASSIGNED # <reserved>..<reserved>
1135D..11363; PVALID    # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11364..11365; UNASSIGNED # <reserved>..<reserved>
11366..1136C; PVALID    # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANT
1136D..1136F; UNASSIGNED # <reserved>..<reserved>
11370..11374; PVALID    # COMBINING GRANTHA LETTER A..COMBINING GRANT
11375..113FF; UNASSIGNED # <reserved>..<reserved>
11400..1144A; PVALID # NEWA LETTER A..NEWA SIDDHI
1144B..1144F; DISALLOWED # NEWA DANDA..NEWA ABBREVIATION SIGN
11450..11459; PVALID # NEWA DIGIT ZERO..NEWA DIGIT NINE
1145A ; UNASSIGNED # <reserved>
1145B ; DISALLOWED # NEWA PLACEHOLDER MARK
1145C ; UNASSIGNED # <reserved>
1145D ; DISALLOWED # NEWA INSERTION SIGN
1145E ; PVALID # NEWA SANDHI MARK
1145F..1147F; UNASSIGNED # <reserved>..<reserved>
11480..114C5; PVALID # TIRHUTA ANJI..TIRHUTA GVANG
114C6 ; DISALLOWED # TIRHUTA ABBREVIATION SIGN
114C7 ; PVALID # TIRHUTA OM
114C8..114CF; UNASSIGNED # <reserved>..<reserved>
114D0..114D9; PVALID # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
114DA..1157F; UNASSIGNED # <reserved>..<reserved>
11580..1158F; PVALID # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
11590..115BF; UNASSIGNED # <reserved>..<reserved>
115C0..115C7; PVALID # TIRHUTA OM
115C8..115D7; DISALLOWED # TIRHUTA SIGN NUKTA
115D8..115DD; PVALID # TIRHUTA LETTER THREE-CIRCLE ALTERNATE I..SID
115DE..115FF; UNASSIGNED # <reserved>..<reserved>
11600..11640; PVALID # MODI LETTER A..MODI SIGN ARDHACANDRA
11641..11643; DISALLOWED # MODI DANDA..MODI ABBREVIATION SIGN
11644 ; PVALID # MODI SIGN HUVA
11645..1164F; UNASSIGNED # <reserved>..<reserved>
11650..11659; PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
1165A..1165F; UNASSIGNED # <reserved>..<reserved>
11660..1166C; DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
1166D..1167F; UNASSIGNED # <reserved>..<reserved>
11680..11687; PVALID # TAKRI LETTER A..TAKRI SIGN NUKTA
116B8..116BF; UNASSIGNED # <reserved>..<reserved>
116C0..116C9; PVALID # TAKRI DIGIT ZERO..TAKRI DIGIT NINE
116CA..116FF; UNASSIGNED # <reserved>..<reserved>
11700..1171A; PVALID # AHOM LETTER KA..AHOM LETTER ALTERNATE BA
1171B..1171C; UNASSIGNED # <reserved>..<reserved>
1171D..1172B; PVALID # AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KIL
1172C..1172F; UNASSIGNED # <reserved>..<reserved>
11730..11739; PVALID # AHOM DIGIT ZERO..AHOM DIGIT NINE
1173A..1173F; DISALLOWED # AHOM NUMBER TEN..AHOM SYMBOL VI
11740..117FF; UNASSIGNED # <reserved>..<reserved>
11800..1183A; PVALID # DOGRA LETTER A..DOGRA SIGN NUKTA
1183B ; DISALLOWED # DOGRA ABBREVIATION SIGN
1183C..1189F; UNASSIGNED # <reserved>..<reserved>
118A0..118BF; DISALLOWED # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI
118C0..118E9; PVALID # WARANG CITI SMALL LETTER NGAA..WARANG CITI D
118EA..118F2; DISALLOWED # WARANG CITI NUMBER TEN..WARANG CITI NUMBER N
118F3..118FE; UNASSIGNED # <reserved>..<reserved>
118FF ; PVALID # WARANG CITI OM
11900..119FF; UNASSIGNED # <reserved>..<reserved>
11A00..11A3E; PVALID # ZANABAZAR SQUARE LETTER A..ZANABAZAR SQUARE
11A3F..11A46; DISALLOWED # ZANABAZAR SQUARE INITIAL HEAD MARK..ZANABAZA
11A47 ; PVALID # ZANABAZAR SQUARE SUBJOINER
11A48..11A4F; UNASSIGNED # <reserved>..<reserved>
11A50..11A83; PVALID # SOYOMBO LETTER A..SOYOMBO LETTER KSSA
11A84..11A85; UNASSIGNED # <reserved>..<reserved>
11A86..11A99; PVALID # SOYOMBO CLUSTER-INITIAL LETTER RA..SOYOMBO S
11A9A..11A9C; DISALLOWED # SOYOMBO MARK TSHEG..SOYOMBO MARK DOUBLE SHAD
11A9D ; PVALID # SOYOMBO MARK PLUTA
11A9E..11AA2; DISALLOWED # SOYOMBO HEAD MARK WITH MOON AND SUN AND TRIP
11AA3..11ABF; UNASSIGNED # <reserved>..<reserved>
11AC0..11AF8; PVALID # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
11AF9..11BFF; UNASSIGNED # <reserved>..<reserved>
11C00..11C08; PVALID # BHAIKSUKI LETTER A..BHAIKSUKI LETTER VOCALIC
11C09 ; UNASSIGNED # <reserved>
11C0A..11C36; PVALID # BHAIKSUKI LETTER E..BHAIKSUKI VOWEL SIGN VOC
11C37 ; UNASSIGNED # <reserved>
11C38..11C40; PVALID # BHAIKSUKI VOWEL SIGN E..BHAIKSUKI SIGN AVAGR
11C41..11C45; DISALLOWED # BHAIKSUKI DANDA..BHAIKSUKI GAP FILLER-2
11C46..11C4F; UNASSIGNED # <reserved>..<reserved>
11C50..11C59; PVALID # BHAIKSUKI DIGIT ZERO..BHAIKSUKI DIGIT NINE
11C5A..11C6C; DISALLOWED # BHAIKSUKI NUMBER ONE..BHAIKSUKI HUNDREDS UNI
11C6D..11C6F; UNASSIGNED # <reserved>..<reserved>
11C70..11C71; DISALLOWED # MARCHEN HEAD MARK..MARCHEN MARK SHAD
11C72..11C8F; PVALID # MARCHEN LETTER KA..MARCHEN LETTER A
11C90..11C91; UNASSIGNED # <reserved>..<reserved>
11C92..11CA7; PVALID # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
11CA8 ; UNASSIGNED # <reserved>
11CA9..11CB6; PVALID # MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA
11CB7..11CFF; UNASSIGNED # <reserved>..<reserved>
11D00..11D06; PVALID # MASARAM GONDI LETTER A..MASARAM GONDI LETTER
11D07 ; UNASSIGNED # <reserved>
11D08..11D09; PVALID # MASARAM GONDI LETTER AI..MASARAM GONDI LETTE
11D0A ; UNASSIGNED # <reserved>
11D0B..11D36; PVALID # MASARAM GONDI LETTER AU..MASARAM GONDI VOWEL
11D37..11D39; UNASSIGNED # <reserved>..<reserved>
11D3A ; PVALID # MASARAM GONDI VOWEL SIGN E
11D3B ; UNASSIGNED # <reserved>
11D3C..11D3D; PVALID # MASARAM GONDI VOWEL SIGN AI..MASARAM GONDI V
11D3E ; UNASSIGNED # <reserved>
11D3F..11D47; PVALID # MASARAM GONDI VOWEL SIGN AU..MASARAM GONDI R
11D48..11D4F; UNASSIGNED # <reserved>..<reserved>
11D50..11D59; PVALID # MASARAM GONDI DIGIT ZERO..MASARAM GONDI DIGI
11D5A..11D5F; UNASSIGNED # <reserved>..<reserved>
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D66 ; UNASSIGNED # <reserved>
11D67..11D68; PVALID       # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
11D69       ; UNASSIGNED  # <reserved>
11D6A..11D6E; PVALID       # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D6F       ; UNASSIGNED  # <reserved>
11D90..11D91; PVALID       # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI VOWEL SIGN
11D92       ; UNASSIGNED  # <reserved>
11D93..11D98; PVALID       # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI VOWEL SIGN
11D99..11DA8; UNASSIGNED  # <reserved>..<reserved>
11DA9..11DA9; PVALID       # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGIT
11DAA..11DAF; UNASSIGNED  # <reserved>..<reserved>
11EE0..11EEF; PVALID       # MAKASAR LETTER KA..MAKASAR VOWEL SIGN O
11EF7..11EFF; DISALLOWED  # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11EF9..11FF; UNASSIGNED  # <reserved>..<reserved>
12000..12399; PVALID       # CUNEIFORM SIGN A..CUNEIFORM SIGN U U
1239A..123FF; UNASSIGNED  # <reserved>..<reserved>
12400..1246E; DISALLOWED  # CUNEIFORM NUMERIC SIGN TWO ASH..CUNEIFORM NUMERIC SIGN
1246F       ; UNASSIGNED  # <reserved>
12470..12474; DISALLOWED  # CUNEIFORM PUNCTUATION SIGN OLD ASSYRIAN WORD
12475..1247F; UNASSIGNED  # <reserved>..<reserved>
12480..12543; PVALID       # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM SIGN
12544..1254F; UNASSIGNED  # <reserved>..<reserved>
12550..1342E; PVALID       # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGLYP
1342F..1343F; UNASSIGNED  # <reserved>..<reserved>
14400..14646; PVALID       # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGLYP
14647..1467F; UNASSIGNED  # <reserved>..<reserved>
14680..1468F; PVALID       # BUMUM LETTER PASSIMBANG MFON..BUMUM LETTER
14690..1469F; UNASSIGNED  # <reserved>..<reserved>
146A0..146AF; PVALID       # BASSA VAH LETTER ENNI..BASSA VAH LETTER ENNI
146AE..146FF; UNASSIGNED  # <reserved>..<reserved>
146F0..146F4; PVALID       # BASSA VAH COMBINING HIGH TONE..BASSA VAH COMBINING
146F5       ; DISALLOWED  # BASSA VAH FULL STOP
146F6..146F4; UNASSIGNED  # <reserved>..<reserved>
146B0..146B3; PVALID       # PAHAWH HMONG VOWEL KEEL..PAHAWH HMONG MARK C
146B37..146B3F; DISALLOWED # PAHAWH HMONG VOWEL SIGN THOM..PAHAWH HMONG SIGN
146B40..146B43; PVALID     # PAHAWH HMONG SIGN SEEV..PAHAWH HMONG SIGN
146B44..146B45; DISALLOWED # PAHAWH HMONG SIGN XAUS..PAHAWH HMONG SIGN
146B46..146B4F; UNASSIGNED # <reserved>..<reserved>
146B50..146B59; PVALID     # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
146B5A       ; UNASSIGNED  # <reserved>
146B5B..146B61; DISALLOWED # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBER
146B62       ; UNASSIGNED  # <reserved>
146B63..146B77; PVALID     # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN
16B78..16B7C; UNASSIGNED  # <reserved>..<reserved>
16B7D..16B88; PVALID  # PAAHW HMONG CLAN SIGN TSHEEJ..PAAHW HMONG
16B90..16B3F; UNASSIGNED  # <reserved>..<reserved>
16E40..16E5F; DISALLOWED  # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN CA
16E60..16E77; PVALID  # MEDEFAIDRIN SMALL LETTER M..MEDEFAIDRIN SMAL
16E80..16E9A; DISALLOWED  # MEDEFAIDRIN DIGIT ZERO..MEDEFAIDRIN EXCLAMAT
16E9B..16EFF; UNASSIGNED  # <reserved>..<reserved>
16F00..16F44; PVALID  # MIAO LETTER PA..MIAO LETTER HHA
16F45..16F4F; UNASSIGNED  # <reserved>..<reserved>
16F50..16F88; UNASSIGNED  # <reserved>..<reserved>
16F8F..16F9F; PVALID  # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
16FA0..16FDF; UNASSIGNED  # <reserved>..<reserved>
16FEE1..16FEF; DISALLOWED  # TANGUT ITERATION MARK..NUSHU ITERATION MARK
17000..187F1; PVALID  # <Tangut Ideograph>..<Tangut Ideograph>
187F2..187FF; UNASSIGNED  # <reserved>..<reserved>
18800..18AF2; PVALID  # TANGUT COMPONENT-001..TANGUT COMPONENT-755
18AF3..1AFFF; UNASSIGNED  # <reserved>..<reserved>
18B00..1B11E; PVALID  # KATAKANA LETTER ARCHAIC E..HENTAIGANA LETTER
1B11F..1B16F; UNASSIGNED  # <reserved>..<reserved>
1B170..1B2FB; PVALID  # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1B2FC..1B8FF; UNASSIGNED  # <reserved>..<reserved>
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC6B..1BC6F; UNASSIGNED  # <reserved>..<reserved>
1BC70..1BC7C; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLO
1BC7D..1BC7F; UNASSIGNED  # <reserved>..<reserved>
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HI
1BC89..1BC8F; UNASSIGNED  # <reserved>..<reserved>
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
1BC9A..1BC9B; UNASSIGNED  # <reserved>..<reserved>
1BC9C  ; DISALLOWED  # DUPLOYAN SIGN O WITH CROSS
1BC9D..1BC9F; PVALID  # DUPLOYAN THICK LETTER SELECTOR..DUPLOYAN DOU
1BC9F..1BCAF; DISALLOWED  # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..SHOR
1BCA4..1CFFF; UNASSIGNED  # <reserved>..<reserved>
1D000..1D0F5; DISALLOWED  # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE MU
1D0F6..1D0FF; UNASSIGNED  # <reserved>..<reserved>
1D100..1D126; DISALLOWED  # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMBO
1D127..1D128; UNASSIGNED  # <reserved>..<reserved>
1D129..1D12E; DISALLOWED  # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICA
1D1E9..1D1FF; UNASSIGNED  # <reserved>..<reserved>
1D200..1D245; DISALLOWED  # GREEK VOCAL NOTATION SYMBOL-1..GREEK MUSICAL
1D246..1D2DF; UNASSIGNED  # <reserved>..<reserved>
1D2E0..1D2F3; DISALLOWED  # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D2F4..1D2FF; UNASSIGNED  # <reserved>..<reserved>
1D300..1D356; 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..1D565; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK SMALL A..MATHEMAT
1D566..1D567; UNASSIGNED # <reserved>..<reserved>
1D568..1D56F; DISALLOWED # MATHEMATICAL BOLD CAPITAL ALPHA..MATHEMATICA
1D570..1D573; UNASSIGNED # <reserved>..<reserved>
1D574..1D7FF; DISALLOWED # MATHEMATICAL BOLD DIGIT ZERO..SIGNWR
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 FIL
1DA90 ; UNASSIGNED  # <reserved>
1DAA0..1DAA9; UNASSIGNED  # <reserved>
1DB00..1DBFF; UNASSIGNED  # <reserved>..<reserved>
1DC00..1DFF; UNASSIGNED  # <reserved>..<reserved>
1E000..1E006; PVALID  # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E007 ; UNASSIGNED  # <reserved>
1E008..1E01B; PVALID  # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBINING S
1E019..1E021; PVALID  # COMBINING GLAGOLITIC LETTER SHTA..COMBINING S
1E022 ; UNASSIGNED  # <reserved>
1E023..1E024; PVALID  # COMBINING GLAGOLITIC LETTER YU..COMBINING GL
1E025 ; UNASSIGNED  # <reserved>
1E026..1E02A; PVALID  # COMBINING GLAGOLITIC LETTER YO..COMBINING GL
1E02B..1E7FF; UNASSIGNED  # <reserved>..<reserved>
1E800..1E8C4; PVALID  # MENDE KIKAKUI SYLLABLE M001 Ki..MENDE KIKAKU
1E8C5..1E8C6; UNASSIGNED  # <reserved>..<reserved>
1E8C7..1E8CF; DISALLOWED  # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI DIGIT
1E8D0..1E8D6; PVALID  # MENDE KIKAKUI COMBINING NUMBER TEENS..MENDE
1E8D7..1E8FF; UNASSIGNED  # <reserved>..<reserved>
1E900..1E921; DISALLOWED  # ADLAM CAPITAL LETTER ALIF..ADLAM CAPITAL LET
1E922..1E94A; PVALID  # ADLAM SMALL LETTER ALIF..ADLAM NUKTA
1E94B..1E94F; UNASSIGNED  # <reserved>..<reserved>
1E950..1E959; PVALID  # ADLAM DIGIT ZERO..ADLAM DIGIT NINE
1E95A..1E95D; UNASSIGNED  # <reserved>..<reserved>
1E95E..1E95F; DISALLOWED  # ADLAM INITIAL EXCLAMATION MARK..ADLAM INITIA
1E960..1E970; UNASSIGNED  # <reserved>..<reserved>
1ECB5..1EDEF; UNASSIGNED  # <reserved>..<reserved>
1EE00..1EE03; DISALLOWED  # ARABIC MATHEMATICAL ALEF..ARABIC MATHEMATIC
1EE04 ; UNASSIGNED  # <reserved>
1EE05..1EE1F; DISALLOWED  # ARABIC MATHEMATICAL WAW..ARABIC MATHEMATIC
1EE20 ; UNASSIGNED  # <reserved>
1EE21..1EE22; DISALLOWED  # ARABIC MATHEMATICAL INITIAL BEH..ARABIC MATH
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 MATH
1EE33 ; UNASSIGNED  # <reserved>
1EE34..1EE37; DISALLOWED  # ARABIC MATHEMATICAL INITIAL SHEEN..ARABIC MA
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
1EE5A; UNASSIGNED # <reserved>
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>
1EE80..1EE89; DISALLOWED # ARABIC MATHEMATICAL LOOPED ALEF..ARABIC MATH
1EE8A; UNASSIGNED # <reserved>
1EE8B..1EE9B; DISALLOWED # ARABIC MATHEMATICAL LOOPED LAM..ARABIC MATHE
1EE9C..1EEA0; UNASSIGNED # <reserved>..<reserved>
1EEA1..1EEA3; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK BEH..ARABI
1EEA4; UNASSIGNED # <reserved>
1EEA5..1EEA9; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK WAW..ARABI
1EEAA; UNASSIGNED # <reserved>
1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
1F888..1F88F; UNASSIGNED # <reserved>..<reserved>
1F890..1F8AF; DISALLOWED # LEFTWARDS TRIANGLE ARROWHEAD..WHITE ARROW SH
1F8AE..1F8FF; UNASSIGNED # <reserved>..<reserved>
1F900..1F90F; DISALLOWED # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWAR
1F90C..1F90F; UNASSIGNED # <reserved>..<reserved>
1F910..1F93F; DISALLOWED # ZIPPER-MOUTH FACE..HANDBALL
1F93F; UNASSIGNED # <reserved>
1F940..1F97D; DISALLOWED # WILTED FLOWER..SMILING FACE WITH SMILING EYE
1F97E..1F97F; UNASSIGNED # <reserved>..<reserved>
1F97F..1F97F; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F97F..1F97F; UNASSIGNED # <reserved>..<reserved>
1F97A; DISALLOWED # FACE WITH PLEADING EYES
1F97B; UNASSIGNED # <reserved>
1F97C..1F992; DISALLOWED # LAB COAT..SWAN
1F9A3..1F9AF; UNASSIGNED # <reserved>..<reserved>
1F9B0..1F9B9; DISALLOWED # EMOJI COMPONENT RED HAIR..SUPERVILLAIN
1F9BA..1F9BF; UNASSIGNED # <reserved>..<reserved>
1F9C0..1F9C2; DISALLOWED # CHEESE WEDGE..SALT SHAKER
1F9C3..1F9C3; UNASSIGNED # <reserved>..<reserved>
1F9D0..1F9FF; DISALLOWED # FACE WITH MONOCLE..NAZAR AMULET
1FA00..1FA5F; UNASSIGNED # <reserved>..<reserved>
1FA60..1FA6D; DISALLOWED # XIANQI RED GENERAL..XIANQI BLACK SOLDIER
1FA6E..1FFFD; UNASSIGNED # <reserved>..<reserved>
1FFE..1FFFE; DISALLOWED # <noncharacter>..<noncharacter>
20000..2A6D6; PVALID # <CJK Ideograph Extension B>..<CJK Ideograph
2A6D7..2A6FF; UNASSIGNED # <reserved>..<reserved>
2A700..2B73F; PVALID # <CJK Ideograph Extension C>..<CJK Ideograph
2B735..2B73F; UNASSIGNED # <reserved>..<reserved>
2B740..2B81D; PVALID # <CJK Ideograph Extension D>..<CJK Ideograph
2B81E..2B81F; UNASSIGNED # <reserved>..<reserved>
2B820..2CEA1; PVALID # <CJK Ideograph Extension E>..<CJK Ideograph
2CEA2..2CEAF; UNASSIGNED # <reserved>..<reserved>
2CEB0..2EBE0; PVALID # <CJK Ideograph Extension F>..<CJK Ideograph
2EBE1..2F7FF; UNASSIGNED # <reserved>..<reserved>
2F800..2FA1D; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-2F800..CJK COMPAR
2FA1E..2FFFD; UNASSIGNED # <reserved>..<reserved>
2FFE..2FFFF; DISALLOWED # <noncharacter>..<noncharacter>
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7FFE..7FFFF; DISALLOWED # <noncharacter>..<noncharacter>
80000..8FFFF; UNASSIGNED # <reserved>..<reserved>
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