Abstract

This document describes the changes between Unicode 6.3.0 and Unicode 11.0.0 in the context of IDNA2008. Some additions and changes have been made in the Unicode Standard that affect the values produced by the algorithm IDNA2008 specifies. Although IDNA2008 allows adding exceptions to the algorithm for backward compatibility, however, this document does not add any such exceptions. This document provides the necessary tables to IANA to make its database consistent with Unicode 11.0.0.

To improve understanding, this document describes systems that are being used as alternatives to those that conform to IDNA2008.

TO BE REMOVED AT TIME OF PUBLICATION AS AN RFC:

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

Status of This Memo

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

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This Internet-Draft will expire on September 12, 2019.
1. Introduction

The current version of Internationalized Domain Names for Applications (IDNA) was initiated in 2008, and despite not being completed until 2010, is widely known as "IDNA2008". It is specified in the series of documents listed in Section 3.1. The IDNA2008 standard includes an algorithm by which a derived property value is calculated based on the properties defined from the Unicode Standard.

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

- Assigning code points can create problems if the newly-assigned code points are compositions of existing code points and because of that the normalization relationships associated with those code points should have been changed.

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

- Problems can also be created if the properties assigned to those code points are inconsistent with IDNA2008 assumptions about how properties are assigned and/or about how code points with those properties are used or behave.

There were three incompatible changes in the Unicode standard after Unicode 5.2 up to including Unicode 6.0, as described in RFC 6452 [RFC6452]. The code points U+0CF1 and U+0CF2 had a derived property value change from DISSALLOWED to PVALID while U+19DA had a change in derived property value from PVALID to DISSALLOWED. They were examined in great detail and IETF concluded that the consensus is that no update was needed to RFC 5892 [RFC5892] based on the changes made to the Unicode standard.

As described in Section 4, more changes have been made to code points between Unicode version 6.0 and 11.0.0 so that the derived property value have been changed in an incompatible way. This document concludes that no exceptions are to be added to IDNA2008 even though there are changes in the derived property value as a result of the changes made in Unicode between version 6.2.0 and 11.0.0.
Further, in 2015, the Internet Architecture Board (IAB) issued a statement [IAB] which requested the IETF to resolve the issues related to the code point ARABIC LETTER BEH WITH HAMZA ABOVE (U+08A1) that was introduced in Unicode 7.0.0 [Unicode-7.0.0]. This document concludes that this code point is not to be added to the exception list either. It should be noted that the review on U+08A1 indicated that it is not an isolated case and that a number of PVALID code points of long standing may have similar issues. The problem is described in more detail in a document in progress, draft-klensin-idna-5892upd-unicode70 [I-D.klensin-idna-5892upd-unicode70]. A fuller resolution of this issue may require future changes to IDNA2008 or additional specifications, but there is insufficient understanding yet of what would constitute the best approach.

2. Keywords for Requirement Levels

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 RFC2119 [RFC2119] RFC8174 [RFC8174] when, and only when, they appear in all capitals, as shown here.

3. Background

3.1. IDNA2008 Documents

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

- Internationalized Domain Names for Applications (IDNA): Definitions and Document Framework [RFC5890], informally called "Defs" or "Definitions", contains definitions and other material that are needed for understanding other documents in the set.

- Internationalized Domain Names in Applications (IDNA): Protocol [RFC5891], informally called "Protocol", describes the core IDNA2008 protocol and its operations. It needs to be interpreted in combination with the Bidi document (described below).

- The Unicode Code Points and Internationalized Domain Names for Applications (IDNA) [RFC5892], informally called "Tables", lists the categories and rules that identify the code points allowed in a label written in native character form (called a "U-label"), and is based on Unicode 5.2.0 [Unicode-5.2.0] code point assignments and additional rules unique to IDNA2008. The Unicode-based rules in RFC 4892 are expected to be stable across Unicode updates and hence independent of Unicode versions. RFC 5892 [RFC5892]
obsoletes [RFC3491], and in particular the use of the
tables to which [RFC3491] refers.

- Right-to-Left Scripts for Internationalized Domain Names for
  Applications (IDNA) ([RFC5893]), informally called "Bidi", specifies
  special rules for labels that contain characters that are written
  from right to left.

- Internationalized Domain Names for Applications (IDNA):
  Background, Explanation, and Rationale ([RFC5894]), informally
  called "Rationale", provides an overview of the protocol and
  associated tables, and gives explanatory material and some
  rationale for the decisions that led to IDNA2008. It also
  contains advice for DNS registry operators and others who use
  Internationalized Domain Names (IDNs).

- Mapping Characters for Internationalized Domain Names in
  Applications (IDNA) 2008 ([RFC5895]), informally called "Mapping",
  discusses the issue of mapping characters into other characters
  and provides guidance for doing so when that is appropriate. [RFC
  5895] provides advice only and is not a required part of IDNA.

3.2. Additional important IDNA2008-related documents

There are other documents important for the understanding and
functioning of IDNA2008, for example this.

- The Unicode Code Points and Internationalized Domain Names for
  Applications (IDNA) - Unicode 6.0 ([RFC6452] describes some changes
  made to Unicode 6.0 ([Unicode-6.0.0] that resulted in derived
  property value change for the code points U+0CF1, U+0CF2 and
  U+19DA. U+0CF1 and U+0CF2 changed from DISALLOWED to PVALID,
  while U+19DA changed from PVALID to DISSALOWED. The IETF
  concluded that no update to [RFC 5892] ([RFC5892] was needed based on
  the changes made in Unicode 6.0.0 ([Unicode-6.0.0]. As a result,
  the derived property value remained aligned with the Unicode
  Standard. Specifically, no exception was added.

3.3. Deployment

There are many variations on the general IDNA model in use in the
various parts of the community. The following lists some of the
strategies that implementations that claim to be IDNA compliant are
known to use, but it should be noted the list is not complete:

- IDNA2003 as specified in [RFC 3490] ([RFC3490] and [RFC 3491]
  ([RFC3491]. Those specifications are dependent on case folding and
  NFKC normalization and on tables that specify for each code point
whether it is allowed to be used or not, with a distinction made between use for "stored strings" and "query strings". The tables themselves are dependent on version 3.2 of The Unicode Standard [Unicode-3.2.0].

- A number of variations on IDNA2003, sometimes presented as "updated IDNA2003" or the like, which follow the principles of IDNA2003 as understood by the implementers but that use tables that represent how the implementers believe Stringprep [RFC3454] and Nameprep [RFC3491] would have evolved had the IETF not moved in the direction of IDNA2008 instead.

- 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.

- A mix between IDNA2003 and IDNA2008 according to the Unicode Technical Standard #46 [UTS-46]. Because that document specifies different profiles, there are several different variations that leave users with no guarantee that two applications claiming conformance to UTS#46 will interoperate well with each other much less with conforming IDNA2008 implementations. UTS#46 is ultimately based on a normative table very much like the one used by Stringprep [RFC3454] but updated for each new version of Unicode.

- The (normative) IDNA2008 algorithm applied to whatever version of Unicode Standard exists in the operating system and/or libraries used, independent of whatever version of tables appears in the (non-normative) IANA database.

In practice, the Unicode Consortium creates a maximum set of code points by assigning code points in the Unicode Standard. The IDNA2008 rules use the Unicode Standard to create a further subset of code points and context that are permitted in DNS labels associated with its PVALID, CONTEXTJ, and CONTEXTO derived property values. DNS registries and other organizations that deal with IDNs are supposed to create their own subsets from IDNA2008 for use by those registries and organizations.

This progressing subsetting and narrowing of the repertoire of code points that can be used in labels is an implementation of the principles of being conservative when deciding what code points to include in such a subset. SAC-084 [SAC-084] and RFC 6912 [RFC6912] recommend to DNS registries and other organizations to be conservative when creating their subsets, and to use the principle of creating subsets by inclusion.
4. Notable Changes Between Unicode 6.2.0 and 11.0.0

4.1. Changes between Unicode 6.2.0 and 7.0.0

Change in number of characters in each category:

Code points that changed derived property value: 0

PVALID changed from 97946 to 99867 (+1921)

UNASSIGNED changed from 864348 to 861509 (-2839)

CONTEXTJ did not change, at 2

CONTEXTO did not change, at 25

DISALLOWED changed from 151791 to 152709 (+918)

TOTAL did not change, at 1114112

There are no changes made to Unicode between version 6.2.0 and 7.0.0 that impact IDNA2008 calculation of the derived property values.

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

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

The discussion in the IETF concluded that although it is possible to create "the same" character in multiple ways, the issue with U+08A1 is not unique. The character U+08A1 (ARABIC LETTER BEH WITH HAMZA ABOVE) can be represented with the sequence ARABIC LETTER BEH (U+0628) and ARABIC HAMZA ABOVE (U+0654). This identical to LATIN SMALL LETTER O WITH STROKE (U+00F8), which can be represented with the sequence LATIN SMALL LETTER O (U+006F) followed by COMBINING SHORT SOLIDUS OVERLAY (U+0337).

Although the discussion about this specific code point resulted in acceptance of the derived property value of PVALID, the underlying problem with combining sequences is not understood fully. Therefore
it cannot be claimed that this case can be extrapolated to other situations and other code points.

4.2. Changes between Unicode 7.0.0 and 10.0.0

Change in number of characters in each category:

- Code points that changed derived property value: 0
- PVALID changed from 99867 to 122411 (+22544)
- UNASSIGNED changed from 861509 to 837775 (-23734)
- CONTEXTJ did not change, at 2
- CONTEXTO did not change, at 25
- DISALLOWED changed from 152709 to 153899 (+1190)
- TOTAL did not change, at 1114112

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

4.3. Changes between Unicode 10.0.0 and 11.0.0

Change in number of characters in each category:

- Code points that changed derived property value: 1
- PVALID changed from 122411 to 122734 (+323)
- UNASSIGNED changed from 837775 to 837091 (-684)
- CONTEXTJ did not change, at 2
- CONTEXTO did not change, at 25
- DISALLOWED changed from 153899 to 154260 (+361)
- TOTAL did not change, at 1114112

Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF had their General Properties changed from Lo to Ll, to reflect their status as the lowercase of new Georgian case pairs. Case mappings were also added.
SHARADA SANDHI MARK (U+111C9) was changed from Po to Mn, and from bc=L to bc=NSM.

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

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

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

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

- The Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF existed before IDNA2008 was created. Applying the IDNA2008 algorithm to the code points assigned the derived property value PVALID, and that value is unchanged even if the underlying Unicode properties have changed. The newly encoded Mtavruli letters have general category "Lu" and are therefore DISALLOWED.

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

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

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

5. U+111C9 SHARADA SANDHI MARK

As one can see in Section 4, there is one incompatible change made between Unicode 6.2.0 and 11.0.0, the code point U+111C9. It has changed derived property value from DISALLOWED to PVALID. In situations like these, IDNA2008 allow for addition of rules to RFC
5892 [RFC5892] section 2.7.  (BackwardCompatible (G)).  The code point if being accepted might due to implementations of IDNA2008 based on older versions of Unicode 11.0.0 be rejected. As the character is rarely used outside of the group of Sharada specialist, and used in some records for indicating sandhi breaks, the conclusion is that it could be added as an exception as well as change property value as the use of the code point is limited outside a special community. As including an exception would require implementation changes in deployed implementations of IDNA20008, the editor proposes that such a BackwardCompatible rule NOT to be added to IDNA2008.

6. Conclusion

As described in Section 4 and Section 5, changes have been made to Unicode between version 6.2.0 and 11.0.0. Some changes to specific characters changed their derived property value, while other changes did not. Given what is described in Section 3.3 and the changes described, including implications to normalization, the conclusion of this document is to not add any exception rules to IDNA2008.

This does not preclude any such updates to RFC 5892 [RFC5892] or any other IDNA2008 related document in the future when new versions of the Unicode Standard is released, and it might also happen that it is found the algorithm specified in IDNA2008 is not suitable for DNS without additional rules, categories, or tuning.

7. IANA Considerations

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

8. Security Considerations

This document makes recommendations regarding the use of the IDNA2008 algorithm for calculation of derived property values, based on the Unicode version 11.0.0. This recommendation do not say anything about what recommendations to make for future versions of the Unicode Standard.

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

Thanks to Harald Alvestrand, Marc Blanchet, Martin Duerst, Asmus Freytag, Ted Hardie, John Klensin, Erik Nordmark, Pete Resnick, Peter Saint-Andre, Michel Suignard, Andrew Sullivan and Suzanne Woolf for input to this document.

10. References

10.1. Normative References


10.2. Non-normative references


Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>037F</td>
<td>DISALLOWED</td>
<td>GREEK CAPITAL LETTER YOT</td>
</tr>
<tr>
<td>0528..052F</td>
<td>DISALLOWED</td>
<td>CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK..C</td>
</tr>
<tr>
<td>058D..058E</td>
<td>DISALLOWED</td>
<td>RIGHT-FACING ARMENIAN ETERNITY SIGN..LEFT-FA</td>
</tr>
<tr>
<td>0605</td>
<td>DISALLOWED</td>
<td>ARABIC NUMBER MARK ABOVE</td>
</tr>
<tr>
<td>08A1</td>
<td>PVALID</td>
<td>ARABIC LETTER BEH WITH HAMZA ABOVE</td>
</tr>
<tr>
<td>08AD..08B2</td>
<td>PVALID</td>
<td>ARABIC LETTER LOW ALEF..ARABIC LETTER ZAIN W</td>
</tr>
<tr>
<td>08FF</td>
<td>PVALID</td>
<td>ARABIC MARK SIDEWAYS NOON GHUNNA</td>
</tr>
<tr>
<td>0978</td>
<td>PVALID</td>
<td>DEVANAGARI LETTER MARWARI DDA</td>
</tr>
<tr>
<td>0980</td>
<td>PVALID</td>
<td>BENGALI ANJI</td>
</tr>
<tr>
<td>0C00</td>
<td>PVALID</td>
<td>TELUGU SIGN COMBINING CANDRABINDU ABOVE</td>
</tr>
<tr>
<td>0C34</td>
<td>PVALID</td>
<td>TELUGU LETTER LLLA</td>
</tr>
<tr>
<td>0C81</td>
<td>PVALID</td>
<td>KANNADA SIGN CANDRABINDU</td>
</tr>
<tr>
<td>0D01</td>
<td>PVALID</td>
<td>MALAYALAM SIGN CANDRABINDU</td>
</tr>
<tr>
<td>0DE6..0DEF</td>
<td>PVALID</td>
<td>SINHALA LITH DIGIT ZERO..SINHALA LITH DIGIT</td>
</tr>
<tr>
<td>16F1..16F8</td>
<td>PVALID</td>
<td>RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A</td>
</tr>
<tr>
<td>191D..191E</td>
<td>PVALID</td>
<td>LIMBU LETTER GYAN..LIMBU LETTER TRA</td>
</tr>
<tr>
<td>1AB0..1ABE</td>
<td>PVALID</td>
<td>COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI</td>
</tr>
<tr>
<td>1CF8..1CF9</td>
<td>PVALID</td>
<td>VEDIC TONE RING ABOVE..VEDIC TONE DOUBLE RIN</td>
</tr>
<tr>
<td>1DE7..1DF5</td>
<td>PVALID</td>
<td>COMBINING LATIN SMALL LETTER ALPHA..COMBININ</td>
</tr>
</tbody>
</table>
20BB..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 SIDWAYS 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
1018B..1018C; DISALLOWED  # GREEK ONE QUARTER SIGN..GREEK SINUSOID SIGN
101A0 ; DISALLOWED  # GREEK SYMBOL TAU RHO
102E0..102FB; PVALID  # COPTIC EPACT THOUSANDS MARK..COPTIC EPACT NU
1031F ; PVALID  # OLD ITALIC LETTER ESS
10350..1037A; PVALID  # OLD FERMIC LETTER AN..COMBINING OLD FERMIC L
10500..10527; PVALID  # ELBASAN LETTER A..ELBASAN LETTER KHE
10530..10563; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
1056F ; DISALLOWED  # CAUCASIAN ALBANIAN CITATION MARK
10600..10736; PVALID  # LINEAR A SIGN AB001..LINEAR A SIGN A664
10740..10755; PVALID  # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10760..10767; PVALID  # LINEAR A SIGN A800..LINEAR A SIGN A807
10860..1089E; PVALID  # PALMYRENE LETTER ALEPH..NABATAEAN LETTER TAW
108A7..108AF; DISALLOWED  # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
10A80..10A9F; PVALID  # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10AC0..10AE6; PVALID  # MANICHAEEAN LETTER ALEPH..MANICHAEEAN ABBREVI
10AE8..10AF6; DISALLOWED  # MANICHAEEAN NUMBER ONE..MANICHAEEAN PUNCTUATIO
10BB0..10B91; PVALID  # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10B99..10B9C; DISALLOWED  # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10BA9..10BAF; DISALLOWED  # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAVI
1107F ; PVALID  # BRAHMI NUMBER JOINER
11150..11176; PVALID  # MAHJANI LETTER A..MAHJANI LIGATURE SHRI
111CD ; DISALLOWED  # SHARADA SUTRA MARK
111DA ; PVALID  # SHARADA EKAM
111E1..111F4; DISALLOWED  # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
11200..11211; PVALID  # KOHJXI LETTER A..KOHJXI LETTER JJA
11213..1123D; PVALID  # KOHJXI LETTER NYA..KOHJXI ABBREVIATION SIGN
112B0..112EA; PVALID  # KHUWAWADI LETTER A..KHUWAWADI SIGN VIRAMA
112F0..112F9; PVALID  # KHUWAWADI DIGIT ZERO..KHUWAWADI 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
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 DIGIT NINE
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHA LETTER I
11480..11487; PVALID  # TIRHUTA ANJI..TIRHUTA OM
11580..115B5; PVALID  # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
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 CAPITAL LETTER ZEI
11A69; PVALID  # WARANG CITI OM
11A70..11A7F; PVALID  # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
1236F..12398; PVALID  # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN URU
12463..1246E; DISALLOWED  # CUNEIFORM NUMERIC SIGN ONE QUARTER GUR..CUNEIFORM NUMERIC SIGN TWO QUARTER GUR
12474 ; DISALLOWED  # CUNEIFORM PUNCTUATION SIGN DIAGONAL QUADCOLUMN
16A40..16A5E; PVALID  # MRO LETTER TA..MRO LETTER TEK
16A5F..16A69; PVALID  # MRO DIGIT ZERO..MRO DIGIT NINE
16A6E..16A6F; DISALLOWED  # MRO DANDA..MRO DOUBLE DANDA
16B00..16B45; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG SIGN HU
16B50..16B59; PVALID  # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT NINE
16B61..16B66; DISALLOWED  # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBER NINE
16B67..16B77; PVALID  # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN NAGA
16B7D..16B8F; PVALID  # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG CLAN SIGN VASIK
18C00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC70..1BC7F; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLOYAN AFFIX LEFT DIAGONAL SECANT
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX LOW ACUTE
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW DIAGONAL SECANT
1BC9C..1BCA3; DISALLOWED  # DUPLOYAN SIGN O WITH CROSS..SHORTHAND FORMAT
1EB00..1EB4C; PVALID  # MENDE KIKAKUI SYLLABLE M001 Ki..MENDE KIKAKUI SYLLABLE M005 Ki
1EB8C..1EB8D; DISALLOWED  # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI DIGIT TEN
1F0BF ; DISALLOWED  # PLAYING CARD RED JOKER
1F0E0..1F0F5; DISALLOWED  # PLAYING CARD FOOL..PLAYING CARD TRUMP-21
1F10B..1F10C; DISALLOWED  # DINGBAT CIRCLED SANS-SERIF DIGIT ZERO..DINGB AT CIRCLED SANS-SERIF DIGIT ZERO
1F321..1F32C; DISALLOWED  # THERMOMETER..WIND BLOWING FACE
1F336 ; DISALLOWED  # HOT PEPPER

Faltstrom  Expires September 12, 2019  [Page 16]
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..ABBF ; DISALLOWED  # CHEROKEE SMALL LETTER A...CHEROKEE SMALL LETT
Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

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

08B6..08BD ; PVALID # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08D4..08E2 ; PVALID  # ARABIC SMALL HIGH WORD AR-RUB..ARABIC DISPUT
0C80 ; PVALID  # KANNADA SIGN SPACING CANDRABINDU
0D4F ; DISALLOWED  # MALAYALAM SIGN PARA
0D54..0D56 ; PVALID  # MALAYALAM LETTER CHILLU M..MALAYALAM LETTER
0D58..0D5E ; DISALLOWED  # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D76..0D78 ; DISALLOWED  # MALAYALAM FRACTION ONE SIXTEENTH..MALAYALAM
1C80..1C88 ; DISALLOWED  # CYRILLIC SMALL LETTER ROUNDED VE..CYRILLIC S
1DFB ; PVALID  # COMBINING DELETION MARK
23FB..23FE ; DISALLOWED  # POWER SYMBOL..POWER SLEEP SYMBOL
2E43..2E44 ; DISALLOWED  # DASH WITH LEFT UPTURN..DOUBLE SUSPENSION MAR
A7AE ; DISALLOWED  # LATIN CAPITAL LETTER SMALL CAPITAL I
A8C5 ; PVALID  # SAURASHTRA SIGN CANDRABINDU
1018D..1018E; DISALLOWED  # GREEK INDICTION SIGN..NOMISMA SIGN
104B0..104D3; DISALLOWED  # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D8..104FB; PVALID  # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
1123E ; PVALID  # KOHJKI SIGN SUKUN
11400..11459; PVALID  # NEWA LETTER A..NEWA DIGIT NINE
1145D ; DISALLOWED  # NEWA INSERTION SIGN
11660..1166C; DISALLOWED  # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
11C00..11C08; PVALID  # BHAIKSUJI LETTER A..BHAIKSUJI LETTER VOCALIC
11C0A..11C36; PVALID  # BHAIKSUJI LETTER E..BHAIKSUJI VOWEL SIGN VOC
11C38..11C45; PVALID  # BHAIKSUJI VOWEL SIGN E..BHAIKSUJI GAP FILLER
11C50..11C6C; PVALID  # BHAIKSUJI DIGIT ZERO..BHAIKSUJI HUNDREDS UNI
11C70..11C8F; DISALLOWED  # MARCHEN HEAD MARK..MARCHEN LETTER A
11C92..11CA6; PVALID  # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
16FEO ; PVALID  # TANGUT ITERATION MARK
17000..187EC; PVALID  # <Tangut Ideograph>..<Tangut Ideograph>
18800..18AF2; PVALID  # TANGUT COMPONENT-001..TANGUT COMPONENT-755
1E000..1E00F; PVALID  # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E008..1E018; PVALID  # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBININ
1E01B..1E021; PVALID  # COMBINING GLAGOLITIC LETTER SHTA..COMBINING
1E023..1E024; PVALID  # COMBINING GLAGOLITIC LETTER YU..COMBINING GL
1E026..1E02A; PVALID  # COMBINING GLAGOLITIC LETTER YO..COMBINING GL
1E900..1E94A; DISALLOWED  # ADLAM CAPITAL LETTER ALIF..ADLAM NUKTA
1E950..1E959; PVALID  # ADLAM DIGIT ZERO..ADLAM DIGIT NINE
1E95E..1E95F; DISALLOWED  # ADLAM INITIAL EXCLAMATION MARK..ADLAM INITIA
1F19B..1F1AC; DISALLOWED  # SQUARED THREE D..SQUARED VOD
1F23B ; DISALLOWED  # SQUARED CJK UNIFIED IDEOGRAPH-914D
1F57A ; DISALLOWED  # MAN DANCING
1F5A4 ; DISALLOWED  # BLACK HEART
1F6D1..1F6D2; DISALLOWED  # OCTAGONAL SIGN..SHOPPING TROLLEY
1F6F4..1F6F6; DISALLOWED  # SCOOTER..CANOE
1F919..1F91E; DISALLOWED  # CALL ME HAND..HAND WITH INDEX AND MIDDLE FIN
1F920..1F927; DISALLOWED  # FACE WITH COWBOY HAT..SNEEZING FACE
1F930 ; DISALLOWED  # PREGNANT WOMAN
1F933..1F93E; DISALLOWED  # SELFIE..HANDBALL
Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0

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

0860..086A  ; PVALID      # SYRIAC LETTER MALAYALAM NGA..SYRIAC LETTER M
09FC..09FD  ; PVALID      # BENGALI LETTER VEDIC ANUSVARA..BENGALI ABBRE
0AFA..0AFF  ; PVALID      # GUJARATI SIGN SUKUN..GUJARATI SIGN TWO-CIRCL
0D00        ; PVALID      # MALAYALAM SIGN COMBINING ANUSVARA ABOVE
0D3B..0D3C  ; PVALID      # MALAYALAM SIGN VERTICAL BAR VIRAMA..MALAYALA
1CF7        ; PVALID      # VEDIC SIGN ATIKRAMA
1DF6..1DF9  ; PVALID      # COMBINING KAVYKA ABOVE RIGHT..COMBINING WIDE
20BF        ; DISALLOWED  # BITCOIN SIGN
23FF        ; DISALLOWED  # OBSERVER EYE SYMBOL
2BD2        ; DISALLOWED  # GROUP MARK
2E45..2E49  ; DISALLOWED  # INVERTED LOW KAVYKA..DOUBLE STACKED COMMA
312E        ; PVALID      # BOPOMOFO LETTER O WITH DOT ABOVE
9FD6..9FEA  ; PVALID      # <CJK Ideograph>..<CJK Ideograph>
1B002..1B11E; PVALID      # HENTAIGANA LETTER A-1..HENTAIGANA LETTER N-M
1B170..1B1F8B; PVALID      # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1F260..1F265; DISALLOWED  # ROUNDED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F6D3..1F6D4; DISALLOWED  # STUPA..PAGODA
1F6F7..1F6F8; DISALLOWED  # SLED..FLYING SAUCER
1F900..1F90B; DISALLOWED  # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWAR
1F91F       ; DISALLOWED  # I LOVE YOU HAND SIGN
1F928..1F92F; DISALLOWED  # FACE WITH ONE EYEBROW RAISED..SHOCKED FACE W
1F931..1F932; DISALLOWED  # BREAST-FEEDING..PALMS UP TOGETHER
1F94C        ; DISALLOWED  # CURLING STONE
1F95F..1F966; DISALLOWED  # DUMPLING..CANNED FOOD
1F992..1F997; DISALLOWED  # GIRAFFE FACE..CRICKET
1F9D0..1F9E6; DISALLOWED  # FACE WITH MONOCLE..SOCKS
Appendix E. Changes from Unicode 10.0.0 to Unicode 11.0.0

Changes from derived property value DISALLOWED to PVALID.

    111C9 ; PVALID # SHARADA SANDHI MARK

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

    0560 ; PVALID # ARmenian small letter turned ayb
    0588 ; PVALID # ARmenian small letter yi with stroke
    05EF ; PVALID # hebrew yod triangle
    07FD..07FF ; PVALID # Nko dantayalan..Nko taman sign
    08D3 ; PVALID # arabic small low waw
    09FE ; PVALID # bengali sandhi mark
    0A76 ; DISALLOWED # gurumuki abbreviation waw
    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 an..georgia
    1CBD..1CBF ; DISALLOWED # georgian mtavruli capital letter aen..georgi
    2BBA..2BBC ; DISALLOWED # overlapping white squares..overlapping black
    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
    9FEB..9FEF ; PVALID # <CJK Ideograph>..<CJK Ideograph>
    A7AF ; PVALID # latin letter small capital q
    A7B8..A7B9 ; DISALLOWED # latin capital letter u with stroke..latin sm
    A8FE..A8FF ; PVALID # devanagari letter ay..devanagari vowel sign
    10A34..10A35; PVALID # kharoshthi letter tta..kharoshthi vowel 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
    10F00..10F27; PVALID # old sogdian letter aleph..old sogdian ligatu
    10F30..10F59; PVALID # sogdian letter aleph..sogdian punctuation ha
    110CD ; DISALLOWED # kaithi number sign above
    11144..11146; PVALID # chakma letter lhaa..chakma 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 # soyombo mark pluta
    11D60..11D65; PVALID # gunjala gondi letter a..gunjala gondi letter
    11D67..11D68; PVALID # gunjala gondi letter ee..gunjala gondilette
    11D6A..11D8E; PVALID # gunjala gondi letter oo..gunjala gondi vowel
    11D90..11D91; PVALID # gunjala gondi vowel sign ee..gunjala gondi v
    11D93..11D98; PVALID # gunjala gondi vowel sign oo..gunjala gondi o
Appendix F.  Code points in Unicode Character Database (UCD) format for Unicode 11.0.0

0000..002C ; DISALLOWED # <control>..COMMA
002D ; PVVALID # HYPHEN-MINUS
002E..002F ; DISALLOWED # FULL STOP..SOLIDUS
0030..0039 ; PVVALID # DIGIT ZERO..DIGIT NINE
003A..0060 ; DISALLOWED # COLON..GRAVE ACCENT
0061..007A ; PVVALID # LATIN SMALL LETTER A..LATIN SMALL LETTER Z
007B..00B6 ; DISALLOWED # LEFT CURLY BRACKET..PILCROW SIGN
00B7 ; CONTEXTO # MIDDLE DOT
00B8..00DE ; DISALLOWED # CEDILLA..LATIN CAPITAL LETTER THORN
00DF..00F6 ; PVVALID # LATIN SMALL LETTER SHARP S..LATIN SMALL LETTER
00F7 ; DISALLOWED # DIVISION SIGN
00F8..00FF ; PVVALID # LATIN SMALL LETTER O WITH STROKE..LATIN SMALL
0100 ; DISALLOWED # LATIN CAPITAL LETTER A WITH MACRON
0101 ; PVVALID # LATIN SMALL LETTER A WITH MACRON
0102 ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE
0103 ; PVVALID # LATIN SMALL LETTER A WITH BREVE
0104 ; DISALLOWED # LATIN CAPITAL LETTER A WITH OGONEK
0105 ; PVVALID # LATIN SMALL LETTER A WITH OGONEK
0106 ; DISALLOWED # LATIN CAPITAL LETTER C WITH ACUTE
0107 ; PVVALID # LATIN SMALL LETTER C WITH ACUTE
0108 ; DISALLOWED # LATIN CAPITAL LETTER C WITH CIRCUMFLEX
0109 ; PVVALID # LATIN SMALL LETTER C WITH CIRCUMFLEX
010A ; DISALLOWED # LATIN CAPITAL LETTER C WITH DOT ABOVE
010B ; PVVALID # LATIN SMALL LETTER C WITH DOT ABOVE
010C ; DISALLOWED # LATIN CAPITAL LETTER C WITH CARON
010D        ; PVALID      # LATIN SMALL LETTER C WITH CARON
010E        ; DISALLOWED  # LATIN CAPITAL LETTER D WITH CARON
010F        ; PVALID      # LATIN SMALL LETTER D WITH CARON
0110        ; DISALLOWED  # LATIN CAPITAL LETTER D WITH STROKE
0111        ; PVALID      # LATIN SMALL LETTER D WITH STROKE
0112        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH MACRON
0113        ; PVALID      # LATIN SMALL LETTER E WITH MACRON
0114        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH BREVE
0115        ; PVALID      # LATIN SMALL LETTER E WITH BREVE
0116        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOT ABOVE
0117        ; PVALID      # LATIN SMALL LETTER E WITH DOT ABOVE
0118        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH OGONEK
0119        ; PVALID      # LATIN SMALL LETTER E WITH OGONEK
011A        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE
011B        ; PVALID      # LATIN SMALL LETTER E WITH TILDE
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
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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
0183; PVALID # LATIN SMALL LETTER B WITH TOPBAR
0184; DISALLOWED # LATIN CAPITAL LETTER TONE SIX
0185; PVALID # LATIN SMALL LETTER TONE SIX
0186..0187; DISALLOWED # LATIN CAPITAL LETTER OPEN O..LATIN CAPITAL LETTER
0188; PVALID # LATIN SMALL LETTER C WITH HOOK
0189..018B; DISALLOWED # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL LETTER
018C..018D; PVALID # LATIN SMALL LETTER D WITH TOPBAR..LATIN SMALL LETTER
018E..0191; DISALLOWED # LATIN CAPITAL LETTER REVERSED E..LATIN CAPITAL LETTER
0192; PVALID # LATIN SMALL LETTER F WITH HOOK
0193..0194; DISALLOWED # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPITAL
0195; PVALID # LATIN SMALL LETTER HV
0196..0198; DISALLOWED # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LETTER
0199..019B; PVALID # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL LETTER
019C..019D; DISALLOWED # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL LETTER
019E; PVALID # LATIN SMALL LETTER N WITH LONG RIGHT LEG
019F..01A0; DISALLOWED # LATIN CAPITAL LETTER O WITH MIDDLE TILDE..LATIN SMALL
01A1; PVALID # LATIN SMALL LETTER O WITH HORN
01A2; DISALLOWED # LATIN CAPITAL LETTER OI
01A3; PVALID # LATIN SMALL LETTER OI
01A4; DISALLOWED # LATIN CAPITAL LETTER P WITH HOOK
01A5; PVALID # LATIN SMALL LETTER P WITH HOOK
01A6..01A7; DISALLOWED # LATIN LETTER YR..LATIN CAPITAL LETTER TONE T
01A8; PVALID # LATIN SMALL LETTER TONE TWO
01A9; DISALLOWED # LATIN CAPITAL LETTER ESH
01AA..01AB; PVALID # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL LETTER
01AC; DISALLOWED # LATIN CAPITAL LETTER T WITH HOOK
01AD; PVALID # LATIN SMALL LETTER T WITH HOOK
01AE..01AF; DISALLOWED # LATIN CAPITAL LETTER T WITH RETROFLEX HOOK..
01B0; PVALID # LATIN SMALL LETTER U WITH HORN
01B1..01B3; DISALLOWED # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL
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
01B9..01BB ; PVALID  # LATIN SMALL LETTER EZH REVERSED..LATIN LETTER EZH
01BC ; DISALLOWED  # LATIN CAPITAL LETTER TONE FIVE
01BD..01C3 ; PVALID  # LATIN SMALL LETTER TONE FIVE..LATIN LETTER R
01C4..01CD ; DISALLOWED  # LATIN CAPITAL LETTER DZ WITH CARON..LATIN CAPITAL LETTER DZ WITH CARON
01CE ; PVALID  # LATIN SMALL LETTER A WITH CARON
01CF ; DISALLOWED  # LATIN CAPITAL LETTER I WITH CARON
01D0 ; PVALID  # LATIN SMALL LETTER I WITH CARON
01D1 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CARON
01D2 ; PVALID  # LATIN SMALL LETTER O WITH CARON
01D3 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH CARON
01D4 ; PVALID  # LATIN SMALL LETTER U WITH CARON
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01D6 ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND MACRON
01D7 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE
01D8 ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE
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01DA ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND CARON
01DB ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE
01DC..01DD ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE
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01DF ; PVALID  # LATIN SMALL LETTER A WITH DIAERESIS AND MACRON
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01E1 ; PVALID  # LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON
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01E3 ; PVALID  # LATIN SMALL LETTER AE WITH MACRON
01E4 ; DISALLOWED  # LATIN CAPITAL LETTER G WITH STROKE
01E5 ; PVALID  # LATIN SMALL LETTER G WITH STROKE
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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 MACRON
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 EZH WITH CARON
01F1..01F4 ; DISALLOWED  # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTER DZ
01F5 ; PVALID  # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8 ; DISALLOWED  # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LETTER HWAIR
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 ACUTE
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
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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 DIACRISIS AND MACR
022B; PVALID  # LATIN SMALL LETTER O WITH DIACRISIS AND MACR
022C; DISALLOWED  # LATIN CAPITAL LETTER O WITH TILDE AND MACR
022D; PVALID  # LATIN SMALL LETTER O WITH TILDE AND MACR
022E; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT ABOVE
022F; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE
0230; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT ABOVE AND MACR
0231  ; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE AND MACR
0232  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH MACRON
0233..0239  ; PVALID  # LATIN SMALL LETTER Y WITH MACRON..LATIN SMALL LETTER Y WITH MACRON
023A..023B  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH STROKE..LATIN CAPITAL LETTER L WITH BAR
023C  ; PVALID  # LATIN SMALL LETTER C WITH STROKE
023D..023F  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH BAR..LATIN CAPITAL LETTER S WITH SWASH TAIL
0240  ; PVALID  # LATIN CAPITAL LETTER GLOTTAL STOP
0241  ; PVALID  # LATIN SMALL LETTER GLOTTAL STOP
0242..0246  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH STROKE..LATIN CAPITAL LETTER E WITH STROKE
0247  ; DISALLOWED  # LATIN CAPITAL LETTER J WITH STROKE
0248  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH STROKE
0249  ; PVALID  # LATIN SMALL LETTER Y 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 Y WITH STROKE
02B0..02B8  ; DISALLOWED  # MODIFIER LETTER SMALL H..MODIFIER LETTER SMALL H
02B9..02C1  ; PVALID  # MODIFIER LETTER PRIME..MODIFIER LETTER REVERSED PRIME
02C2..02C5  ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LETTER RIGHT ARROWHEAD
02C6..02C9  ; PVALID  # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER LETTER AIMINUS
02C9..02CD  ; DISALLOWED  # MODIFIER LETTER CENTRED LEFT HALF RING..MODIFIER LETTER CENTRED RIGHT HALF RING
02CE  ; PVALID  # MODIFIER LETTER VOICING
02CF  ; DISALLOWED  # MODIFIER LETTER UNASPIRATED
02D0  ; PVALID  # MODIFIER LETTER DOUBLE APOSTROPHE
02D1..02D2  ; DISALLOWED  # MODIFIER LETTER LOW DOWN ARROWHEAD..MODIFIER LETTER LOW DOWN ARROWHEAD
0300..0303  ; PVALID  # COMBINING GRAVE ACCENT..COMBINING DOUBLE GRAVE ACCENT
0304..0306  ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING ACUTE TONE MARK
0307  ; PVALID  # COMBINING GREEK KORONIS
0308..030A  ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK KORONIS
030B..030C  ; PVALID  # COMBINING BRIDGE ABOVE..COMBINING UPWARDS ARROWHEAD ABOVE
030D  ; DISALLOWED  # COMBINING GREEK PERISPOMENI
030E..030F  ; PVALID  # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING RIGHT ARROWHEAD ABOVE
0310  ; DISALLOWED  # GREEK CAPITAL LETTER ETA
0311  ; PVALID  # GREEK SMALL LETTER ETA
0312  ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI
0313  ; PVALID  # GREEK SMALL LETTER ARCHAIC SAMPI
0314  ; DISALLOWED  # GREEK NUMERAL SIGN
0315  ; CONTEXTO  # GREEK LOWER NUMERAL SIGN
0316  ; DISALLOWED  # GREEK CAPITAL LETTER PAMPHYLIAN DIGAMMA
0317  ; PVALID  # GREEK SMALL LETTER PAMPHYLIAN DIGAMMA
0318..031E  ; UNASSIGNED  # <reserved>..<reserved>
031F  ; DISALLOWED  # GREEK YPOGEGRAMMENI
0320..0323  ; PVALID  # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GREEK SMALL REVERSED LUNATE SIGMA SYMBOL
0324..0327  ; DISALLOWED  # GREEK QUESTION MARK..GREEK CAPITAL LETTER YO
0328..032A  ; UNASSIGNED  # <reserved>..<reserved>
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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
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0474 ; DISALLOWED # CYRILLIC CAPITAL LETTER IZHITSA
0475 ; PVALID # CYRILLIC SMALL LETTER IZHITSA
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0478 ; DISALLOWED # CYRILLIC CAPITAL LETTER UK
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047A ; DISALLOWED # CYRILLIC CAPITAL LETTER ROUND OMEGA
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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
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048B ; PVALID # CYRILLIC SMALL LETTER SHORT I WITH TAIL
048C ; DISALLOWED # CYRILLIC CAPITAL LETTER SEMISOFT SIGN
048D ; PVALID # CYRILLIC SMALL LETTER SEMISOFT SIGN
048E ; DISALLOWED # CYRILLIC CAPITAL LETTER ER WITH TICK
048F ; PVALID # CYRILLIC SMALL LETTER ER WITH TICK
0490 ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH UPTURN
0491 ; PVALID # CYRILLIC SMALL LETTER GHE WITH UPTURN
0492 ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH STROKE
0493 ; PVALID # CYRILLIC SMALL LETTER GHE WITH STROKE
0494 ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
0495 ; PVALID # CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
0496 ; DISALLOWED # CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
0497 ; PVALID # CYRILLIC SMALL LETTER ZHE WITH DESCENDER
0498 ; DISALLOWED # CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
0499 ; PVALID # CYRILLIC SMALL LETTER ZE WITH DESCENDER
049A ; DISALLOWED  CYRILLIC CAPITAL LETTER KA WITH DESCENDER
049B ; PVALID  CYRILLIC SMALL LETTER KA WITH DESCENDER
049C ; DISALLOWED  CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROK
049D ; PVALID  CYRILLIC SMALL LETTER KA WITH VERTICAL STROK
049E ; DISALLOWED  CYRILLIC CAPITAL LETTER KA WITH STROKE
049F ; PVALID  CYRILLIC SMALL LETTER KA WITH STROKE
04A0 ; DISALLOWED  CYRILLIC CAPITAL LETTER BASHKIR KA
04A1 ; PVALID  CYRILLIC SMALL LETTER BASHKIR KA
04A2 ; DISALLOWED  CYRILLIC CAPITAL LETTER EN WITH DESCENDER
04A3 ; PVALID  CYRILLIC SMALL LETTER EN WITH DESCENDER
04A4 ; DISALLOWED  CYRILLIC CAPITAL LIGATURE EN GHE
04A5 ; PVALID  CYRILLIC SMALL LIGATURE EN GHE
04A6 ; DISALLOWED  CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
04A7 ; PVALID  CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
04A8 ; DISALLOWED  CYRILLIC CAPITAL LETTER ABKHASIAN HA
04A9 ; PVALID  CYRILLIC SMALL LETTER ABKHASIAN HA
04AA ; DISALLOWED  CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB ; PVALID  CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC ; DISALLOWED  CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD ; PVALID  CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE ; DISALLOWED  CYRILLIC CAPITAL LETTER STRAIGHT U
04AF ; PVALID  CYRILLIC SMALL LETTER STRAIGHT U
04B0 ; DISALLOWED  CYRILLIC CAPITAL LETTER STRAIGHT U WITH STRO
04B1 ; PVALID  CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
04B2 ; DISALLOWED  CYRILLIC CAPITAL LETTER HA WITH DESCENDER
04B3 ; PVALID  CYRILLIC SMALL LETTER HA WITH DESCENDER
04B4 ; DISALLOWED  CYRILLIC CAPITAL LIGATURE TE TSE
04B5 ; PVALID  CYRILLIC SMALL LIGATURE TE TSE
04B6 ; DISALLOWED  CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
04B7 ; PVALID  CYRILLIC SMALL LETTER CHE WITH DESCENDER
04B8 ; DISALLOWED  CYRILLIC CAPITAL LETTER CHE WITH VERTICAL ST
04B9 ; PVALID  CYRILLIC SMALL LETTER CHE WITH VERTICAL STRO
04BA ; DISALLOWED  CYRILLIC CAPITAL LETTER SHHA
04BB ; PVALID  CYRILLIC SMALL LETTER SHHA
04BC ; DISALLOWED  CYRILLIC CAPITAL LETTER ABKHASIAN CHE
04BD ; PVALID  CYRILLIC SMALL LETTER ABKHASIAN CHE
04BE ; DISALLOWED  CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH D
04BF ; PVALID  CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DES
04C0..04C1 ; DISALLOWED  CYRILLIC LETTER PALOCHKA..CYRILLIC CAPITAL L
04C2 ; PVALID  CYRILLIC SMALL LETTER ZHE WITH BREVE
04C3 ; DISALLOWED  CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4 ; PVALID  CYRILLIC SMALL LETTER KA WITH HOOK
04C5 ; DISALLOWED  CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6 ; PVALID  CYRILLIC SMALL LETTER EL WITH TAIL
04C7 ; DISALLOWED  CYRILLIC CAPITAL LETTER EN WITH HOOK
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04FD ; PVALID # CYRILLIC SMALL LETTER HA WITH HOOK
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04FF ; PVALID # CYRILLIC SMALL LETTER HA WITH STROKE
0500 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DE
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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
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0516 ; DISALLOWED # CYRILLIC CAPITAL LETTER RHA
0517 ; PVALID # CYRILLIC SMALL LETTER RHA
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0519 ; PVALID # CYRILLIC SMALL LETTER YAE
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051B ; PVALID # CYRILLIC SMALL LETTER QA
051C ; DISALLOWED # CYRILLIC CAPITAL LETTER WE
051D ; PVALID # CYRILLIC SMALL LETTER WE
051E ; DISALLOWED # CYRILLIC CAPITAL LETTER ALEUT KA
051F ; PVALID # CYRILLIC SMALL LETTER ALEUT KA
0520 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521 ; PVALID # CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK
0522 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523 ; PVALID # CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK
0524 ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH DESCENDER
0525 ; PVALID # CYRILLIC SMALL LETTER PE WITH DESCENDER
0526 ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527 ; PVALID # CYRILLIC SMALL LETTER SHHA WITH DESCENDER
0528 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK
0529 ; PVALID # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
052A ; DISALLOWED # CYRILLIC CAPITAL LETTER DZZHE
052B ; PVALID # CYRILLIC SMALL LETTER DZZHE
052C        ; DISALLOWED # CYRILLIC CAPITAL LETTER DCHE
052D        ; PVALID   # CYRILLIC SMALL LETTER DCHE
052E        ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH DESCENDER
052F        ; PVALID   # CYRILLIC SMALL LETTER EL WITH DESCENDER
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0531..0556  ; DISALLOWED # ARMENIAN CAPITAL LETTER AYB..ARMENIAN CAPITAL LETTER H
0557..0558  ; UNASSIGNED # <reserved>..<reserved>
0559        ; PVALID   # ARMENIAN MODIFIER LETTER LEFT HALF RING
055A..055F  ; DISALLOWED # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION MARK
0560..0566  ; PVALID   # ARMENIAN SMALL LETTER TURNED AYB..ARMENIAN SMALL LETTER H
0567        ; DISALLOWED # ARMENIAN SMALL LIGATURE ECHE
0568        ; PVALID   # ARMENIAN SMALL LETTER YI WITH STROKE
0569..056F  ; DISALLOWED # ARMENIAN FULL STOP..ARMENIAN HYPHEN
0570..0578  ; UNASSIGNED # <reserved>..<reserved>
0579..057F  ; DISALLOWED # RIGHT-FACING ARMENIAN ETERNITY SIGN..ARMENIAN HYPHEN
0580        ; PVALID   # ARMENIAN MODIFIER LETTER LEFT HALF RING
0581..0587  ; DISALLOWED # ARMENIAN SMALL LETTER ECH..ARMENIAN SMALL LETTER H
0588        ; PVALID   # ARMENIAN SMALL LETTER JI..ARMENIAN SMALL LETTER PEN
0589..058E  ; DISALLOWED # ARMENIAN FULL STOP..ARMENIAN HYPHEN
058F        ; PVALID   # ARMENIAN MODIFIER LETTER LEFT HALF RING
0590        ; UNASSIGNED # <reserved>
0591..05B8  ; PVALID   # HEBREW ACCENT ETH..HEBREW POINT METEG
05B9        ; PVALID   # HEBREW POINT RAFE
05CA        ; DISALLOWED # HEBREW PUNCTUATION PASEQ
05CB..05C2  ; PVALID   # HEBREW POINT SHIN DOT..HEBREW POINT SIN DOT
05C3        ; DISALLOWED # HEBREW PUNCTUATION SOF PASUQ
05C4..05C5  ; PVALID   # HEBREW MARK UPPER DOT..HEBREW MARK LOWER DOT
05C6        ; DISALLOWED # HEBREW PUNCTUATION NUN HAFUKHA
05C7        ; PVALID   # HEBREW POINT QAMATS QATAN
05C8..05CF  ; UNASSIGNED # <reserved>..<reserved>
05D0..05E5  ; PVALID   # ARABIC LETTER ALEF..ARABIC LETTER TAV
05E6..05E9  ; UNASSIGNED # <reserved>..<reserved>
05F0..05F2  ; PVALID   # HEBREW YOD TRIANGLE..HEBREW LIGATURE YIDDISH
05F3..05F4  ; CONTEXTO # HEBREW PUNCTUATION GERESH..HEBREW PUNCTUATION DOT
05F5..05F7  ; UNASSIGNED # <reserved>..<reserved>
0600..060C  ; DISALLOWED # ARABIC NUMBER SIGN..ARABIC LETTER KAF
060D..061A  ; PVALID   # ARABIC SIGN SALLALLAHOU ALAYHE WASSALLAM..ARABIC SIGN SUBHAT
061B..061C  ; DISALLOWED # ARABIC SEMICOLON..ARABIC LETTER HAMZA
061D        ; UNASSIGNED # <reserved>
061E..063F  ; DISALLOWED # ARABIC TRIPLE DOT PUNCTUATION MARK..ARABIC QAF
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..0677  ; DISALLOWED # ARABIC LETTER HIGH HAMZA ALEF..ARABIC LETTER HAMZA
0678..0683  ; PVALID   # ARABIC LETTER TAE..ARABIC LETTER YEH BARREE
0684        ; DISALLOWED # ARABIC FULL STOP
0685..06DC  ; PVALID   # ARABIC LETTER AE..ARABIC SMALL HIGH SEE
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..077F; PVALID  # SYRIAC LETTER SOGDIAN ZHAIN..SYRIAC QAF
0780..07B1; DISALLOWED # SYRIAC LETTER ME..SYRIAC BOKHARAH
07B2..07C5; PVALID  # SYRIAC LETTER ZAIN..SYRIAC WAW
07C6..07D4; DISALLOWED # SYRIAC HUR..SYRIAC HUR HAMZA
07D5..07F3; PVALID  # SYRIAC LETTER HAMZA..SYRIAC SHEEN WITH DOT ABOVE
07F4..07F5; PVALID  # SYRIAC LETTER SHEEN WITH DOT BELOW..SYRIAC L
07F6..07F7; DISALLOWED # SYRIAC ABBREVIATION MARK
07F8..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 NEQUDAA..SAMARITAN PUN
0840..0852; PVALID  # MANDAIC LETTER HALQA..MANDAIC GEMINATION MAR
0853..0867; UNASSIGNED # <reserved>..<reserved>
0860..086A; PVALID  # SYRIAC LETTER MALAYALAM NGA..SYRIAC LETTER M
087B..087D; UNASSIGNED # <reserved>..<reserved>
087E..0897; PVALID  # ARABIC LETTER PEH WITH SMALL V BELOW..ARABIC A
0898..089F; PVALID  # ARABIC LETTER PEH WITH SMALL MEEM ABOVE..ARABIC A
08A0..08A9; PVALID  # ARABIC LETTER O..ARABIC LETTER NA
08AA..08BE; UNASSIGNED # <reserved>..<reserved>
08BF..08C1; PVALID  # ARABIC SMALL LOW WAW..ARABIC SMALL HIGH SIGN
08C2..08C3; UNASSIGNED # <reserved>..<reserved>
08C4..08EF; PVALID  # ARABIC TURNED DAMMA BELOW..DEVANAGARI VOWEL
08F6..08FB; DISALLOWED # DEVANAGARI LETTER QA..DEVANAGARI LETTER YYA
0900..0903; PVALID  # DEVANAGARI LETTER VOCALIC RR..DEVANAGARI VOWEL
0904..0909; DISALLOWED # DEVANAGARI DANDA..DEVANAGARI DOUBLE DANDA
090A..097F; PVALID  # DEVANAGARI DIGIT ZERO..DEVANAGARI DIGIT NINE
0980..0984; DISALLOWED # DEVANAGARI ABBREVIATION SIGN
0985..098C; PVALID  # DEVANAGARI SIGN HIGH SPACING DOT..BENGALI SI
098D..098E; UNASSIGNED # <reserved>..<reserved>
098F..0990; PVALID  # BENGALI LETTER A..BENGALI LETTER VOCALIC L
0991..0992; UNASSIGNED # <reserved>..<reserved>
0993..09A8; PVALID  # BENGALI LETTER O..BENGALI LETTER NA
09A9..09B0; PVALID  # BENGALI LETTER PA..BENGALI LETTER RA
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09B3..09B5 ; UNASSIGNED # <reserved>..<reserved>
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09BA..09BB ; UNASSIGNED # <reserved>..<reserved>
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09C5..09C6 ; UNASSIGNED # <reserved>..<reserved>
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09C9..09CA ; UNASSIGNED # <reserved>..<reserved>
09CB..09CE ; PVALID # BENGALI VOWEL SIGN O..BENGALI LETTER KHANDA
09CF..09D6 ; UNASSIGNED # <reserved>..<reserved>
09D7  ; PVALID # BENGALI AU LENGTH MARK
09D8..09DB ; UNASSIGNED # <reserved>..<reserved>
09DC..09DD ; DISALLOWED # BENGALI LETTER RRA..BENGALI LETTER RHA
09DE  ; UNASSIGNED # <reserved>
09DF  ; DISALLOWED # BENGALI LETTER YYA
09E0..09E3 ; PVALID # BENGALI LETTER VOCALIC RR..BENGALI VOWEL SIG
09E4..09E5 ; UNASSIGNED # <reserved>..<reserved>
09E6..09F1 ; PVALID # BENGALI DIGIT ZERO..BENGALI LETTER RA WITH L
09F2..09FB ; DISALLOWED # BENGALI RUPEE MARK..BENGALI GANDA MARK
09FC  ; PVALID # BENGALI LETTER VEDIC ANUSVARA
09FD  ; DISALLOWED # BENGALI ABBREVIATION SIGN
09FE  ; PVALID # BENGALI SANDHI MARK
09FF..0A00 ; UNASSIGNED # <reserved>..<reserved>
0A01..0A03 ; PVALID # GURMUKHI SIGN ADAK BINDI..GURMUKHI SIGN VISA
0A04  ; UNASSIGNED # <reserved>
0A05..0A0A ; PVALID # GURMUKHI LETTER A..GURMUKHI LETTER UU
0A0B..0A0E ; UNASSIGNED # <reserved>..<reserved>
0A0F..0A10 ; PVALID # GURMUKHI LETTER EE..GURMUKHI LETTER AI
0A11..0A12 ; UNASSIGNED # <reserved>..<reserved>
0A13..0A28 ; PVALID # GURMUKHI LETTER OO..GURMUKHI LETTER NA
0A29  ; UNASSIGNED # <reserved>
0A2A..0A30 ; PVALID # GURMUKHI LETTER PA..GURMUKHI LETTER RA
0A31  ; UNASSIGNED # <reserved>
0A32  ; PVALID # GURMUKHI LETTER LA
0A33  ; DISALLOWED # GURMUKHI LETTER LLA
0A34  ; UNASSIGNED # <reserved>
0A35  ; PVALID # GURMUKHI LETTER VA
0A36  ; DISALLOWED # GURMUKHI LETTER SHA
0A37  ; UNASSIGNED # <reserved>
0A38..0A39 ; PVALID # GURMUKHI LETTER SA..GURMUKHI LETTER HA
0A3A..0A3B ; UNASSIGNED # <reserved>..<reserved>
0A3C  ; PVALID # GURMUKHI SIGN NUKTA
0A3D  ; UNASSIGNED # <reserved>
0A3E..0A42 ; PVALID # GURMUKHI VOWEL SIGN AA..GURMUKHI VOWEL SIGN
0A43..0A46 ; UNASSIGNED # <reserved>..<reserved>
0A47..0A48 ; PVALID # GURMUKHI VOWEL SIGN EE..GURMUKHI VOWEL SIGN
0A49..0A4A ; UNASSIGNED # <reserved>..<reserved>
0A4B..0A4D ; PVALID # GURMUKHI VOWEL SIGN OO..GURMUKHI SIGN VIRAMA
0B2A..0B30 ; PVALID  # ORIYA LETTER PA..ORIYA LETTER RA
0B31 ; UNASSIGNED  # <reserved>
0B32..0B33 ; PVALID  # ORIYA LETTER LA..ORIYA LETTER LLA
0B34 ; UNASSIGNED  # <reserved>
0B35..0B39 ; PVALID  # ORIYA LETTER VA..ORIYA LETTER HA
0B3A..0B3B ; UNASSIGNED  # <reserved>..<reserved>
0B3C..0B3B ; UNASSIGNED  # <reserved>..<reserved>
0B3C..0B44 ; PVALID  # ORIYA SIGN NUKTA..ORIYA VOWEL SIGN VOCALIC R
0B45..0B46 ; UNASSIGNED  # <reserved>..<reserved>
0B47..0B48 ; PVALID  # ORIYA VOWEL SIGN E..ORIYA VOWEL SIGN AI
0B49..0B4A ; UNASSIGNED  # <reserved>..<reserved>
0B4B..0B4D ; PVALID  # ORIYA VOWEL SIGN O..ORIYA SIGN VIRAMA
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0B4F..0B55 ; UNASSIGNED  # <reserved>..<reserved>
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0B69..0B70 ; DISALLOWED  # ORIYA ISSHAR
0B71 ; PVALID  # ORIYA LETTER WA
0B72..0B77 ; DISALLOWED  # ORIYA FRACTION ONE QUARTER..ORIYA FRACTION T
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0B9D ..0B9E ; PVALID  # TAMIL LETTER NYA..TAMIL LETTER TTA
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0BA7..0BA8 ; UNASSIGNED  # <reserved>..<reserved>
0BA9..0BAA ; PVALID  # TAMIL LETTER MA..TAMIL LETTER HA
0BAA..0BAC ; UNASSIGNED  # <reserved>..<reserved>
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0BD7 ; PVALID # TAMIL AU LENGTH MARK
0BD8..0BE5 ; UNASSIGNED # <reserved>..<reserved>
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0C11 ; UNASSIGNED # <reserved>
0C12..0C18 ; PVALID # TELUGU LETTER O..TELUGU LETTER NA
0C19 ; UNASSIGNED # <reserved>
0C2A..0C2C ; PVALID # TELUGU LETTER PA..TELUGU LETTER HA
0C2D..0C2F ; UNASSIGNED # <reserved>
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0C80..0C83 ; PVALID # KANNADA SIGN SPACING CANDRABINDU..KANNADA SI
0C84 ; DISALLOWED # KANNADA SIGN SIDDHAM
0C85..0C8C ; PVALID # KANNADA LETTER A..KANNADA LETTER VOCALIC L
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0CBC..0CC4 ; PVALID # KANNADA SIGN NUKTA..KANNADA VOWEL SIGN VOCAL
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0E33  ; DISALLOWED  # THAI CHARACTER SARA AM
0E34..0E3A  ; PVALID  # THAI CHARACTER SARA I..THAI CHARACTER PHINTH
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0E40..0E4E  ; PVALID  # THAI CHARACTER SARA E..THAI CHARACTER YAMAKK
0E4F  ; DISALLOWED  # THAI CHARACTER FONGMAN
0E50..0E59  ; PVALID  # THAI DIGIT ZERO..THAI DIGIT NINE
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0E9A7  ; PVALID  # LAO LETTER WO
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0F93  ; DISALLOWED  # TIBETAN SUBJOINED LETTER GHA
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0FA2  ; DISALLOWED  # TIBETAN SUBJOINED LETTER DHA
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0FA7  ; DISALLOWED  # TIBETAN SUBJOINED LETTER BHA
0FA8..0FAC  ; PVALID  # TIBETAN SUBJOINED LETTER MA..TIBETAN SUBJOIN
0FAC  ; DISALLOWED  # TIBETAN SUBJOINED LETTER DZHA
0FBE..0FC5  ; DISALLOWED  # TIBETAN KU RU KHA..TIBETAN SYMBOL RDO RJE
0FC6  ; PVALID  # TIBETAN SYMBOL PADMA GDAN
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104A..104F  ; DISALLOWED  # MYANMAR SIGN LITTLE SECTION..MYANMAR SYMBOL
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109E..10C5  ; DISALLOWED  # MYANMAR SYMBOL SHAN ONE..GEORGIAN CAPITAL LE
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10FB..10FF  ; DISALLOWED  # GEORGIAN PARAGRAPH SEPARATOR..MODIFIER LETTER
1100..11FF  ; DISALLOWED  # HANGUL CHOSEONG KIYEOK..HANGUL JONGSEONG SSA
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1D87..1D88  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1D89..1D8A  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1D8B..1D8C  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1D8D..1D8E  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1D8F..1D90  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1D91..1D92  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1D93..1D94  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1D95..1D96  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1D97..1D98  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1D99..1D9A  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1D9B..1D9C  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1D9D..1D9E  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1D9F..1DAA  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1DAB..1DAD  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1DAE..1DAF  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1DB0..1DB5  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1DB6..1DB7  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1DB8..1DB9  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1DBA..1DBB  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1DCC..1DD1  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1DDB..1DD2  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1DD3..1DD4  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1DD5..1DD6  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1DD7..1DD8  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1DD9..1DDE  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER U
1DF0..1DFF  ; PVALID  # COMBINING DOT Above ACCENT..COMBINING DOT Above ACCENT
1E00..1E01  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH RING BELOW
1E02..1E03  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT ABOVE
1E04..1E05  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT ABOVE
1E06..1E07  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT BELOW
1E08..1E09  ; DISALLOWED  # LATIN CAPITAL LETTER C WITH CEDILLA AND ACUTE
1E0A..1E0B  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH DOT ABOVE
1E0C..1E0D  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH DOT BELOW
1E0E..1E0F  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH LINE BELOW
1E10..1E11  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH CEDILLA
1E12..1E13  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW
1E14..1E15  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH MACRON AND GRAVE
1E16..1E17  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH MACRON AND ACUTE
1E18..1E19  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW
1E1A..1E1B  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE BELOW
1E1C..1E1D  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CEDILLA AND BREVE
1E1E..1E1F  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOT ABOVE
1E20..1E21  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH MACRON
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1E55 ; PVALID  # LATIN SMALL LETTER P WITH ACUTE
1E56 ; DISALLOWED # LATIN CAPITAL LETTER P WITH DOT ABOVE
1E57 ; PVALID  # LATIN SMALL LETTER P WITH DOT ABOVE
1E58 ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT ABOVE
1E59 ; PVALID  # LATIN SMALL LETTER R WITH DOT ABOVE
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1E5C ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT BELOW AND MACR
1E5D ; PVALID  # LATIN SMALL LETTER R WITH DOT BELOW AND MACR
1E5E ; DISALLOWED # LATIN CAPITAL LETTER R WITH LINE BELOW
1E5F ; PVALID  # LATIN SMALL LETTER R WITH LINE BELOW
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1E61 ; PVALID  # LATIN SMALL LETTER S WITH DOT ABOVE
1E62 ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW
1E63 ; PVALID  # LATIN SMALL LETTER S WITH DOT BELOW
1E64 ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE AND DOT AB
1E65 ; PVALID  # LATIN SMALL LETTER S WITH ACUTE AND DOT AB
1E66 ; DISALLOWED # LATIN CAPITAL LETTER S WITH CARON AND DOT AB
1E67 ; PVALID  # LATIN SMALL LETTER S WITH CARON AND DOT AB
1E68 ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW AND DO
1E69 ; PVALID  # LATIN SMALL LETTER S WITH DOT BELOW AND DO
1E6A ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT ABOVE
1E6B ; PVALID  # LATIN SMALL LETTER T WITH DOT ABOVE
1E6C ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT BELOW
1E6D ; PVALID  # LATIN SMALL LETTER T WITH DOT BELOW
1E6E ; DISALLOWED # LATIN CAPITAL LETTER T WITH LINE BELOW
1E6F ; PVALID  # LATIN SMALL LETTER T WITH LINE BELOW
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1E73 ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS BELOW
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1E75 ; PVALID  # LATIN SMALL LETTER U WITH TILDE BELOW
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1E77 ; PVALID  # LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW
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1E79 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND ACUTE
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1E7B ; PVALID  # LATIN SMALL LETTER U WITH MACRON AND DIAER
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1E8C  ; DISALLOWED # LATIN CAPITAL LETTER X WITH DIAERESIS
1E8D  ; PVALID  # LATIN SMALL LETTER X WITH DIAERESIS
1E8E  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E8F  ; PVALID  # LATIN SMALL LETTER Y WITH DOT ABOVE
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1E94  ; DISALLOWED # LATIN CAPITAL LETTER Z WITH LINE BELOW
1E95..1E99 ; PVALID  # LATIN SMALL LETTER Z WITH LINE BELOW..LATIN
1E9A..1E9B ; DISALLOWED # LATIN SMALL LETTER A WITH RIGHT HALF RING..L
1E9C..1E9D ; PVALID  # LATIN SMALL LETTER LONG S WITH DIAGONAL STRO
1E9E  ; DISALLOWED # LATIN CAPITAL LETTER SHARP S
1E9F  ; PVALID  # LATIN SMALL LETTER DELTA
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1EAC  ; DISALLOWED # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND D
1EAD  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT
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1EB3  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND HOOK ABO
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1EB9       ; PVALID       # LATIN SMALL LETTER E WITH DOT BELOW
1EBA       ; DISALLOWED  # LATIN CAPITAL LETTER E WITH HOOK ABOVE
1EBB       ; PVALID       # LATIN SMALL LETTER E WITH HOOK ABOVE
1EBC       ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE
1EBD       ; PVALID       # LATIN SMALL LETTER E WITH TILDE
1EBE       ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND A
1EBF       ; PVALID       # LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACU
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1EC3       ; PVALID       # LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOO
1EC4       ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND T
1EC5       ; PVALID       # LATIN SMALL LETTER E WITH CIRCUMFLEX AND TIL
1EC6       ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT
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1ECB       ; PVALID       # LATIN SMALL LETTER I WITH DOT BELOW
1ECC       ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT BELOW
1ECD       ; PVALID       # LATIN SMALL LETTER O WITH DOT BELOW
1ECE       ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HOOK ABOVE
1ECF       ; PVALID       # LATIN SMALL LETTER O WITH HOOK ABOVE
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1EDB       ; PVALID       # LATIN SMALL LETTER O WITH HORN AND ACUTE
1EDC       ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND GRAVE
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1EDF       ; PVALID       # LATIN SMALL LETTER O WITH HORN AND HOOK ABOV
1EE0       ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND TILDE
1EE1       ; PVALID       # LATIN SMALL LETTER O WITH HORN AND TILDE
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1EE3       ; PVALID       # LATIN SMALL LETTER U WITH DOT BELOW
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1EE7       ; PVALID       # LATIN SMALL LETTER U WITH HOOK ABOVE
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1EEB    ; PVALID    # LATIN SMALL LETTER U WITH HORN AND GRAVE
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1EED    ; PVALID    # LATIN SMALL LETTER U WITH HORN AND HOOK ABOV
1EEE    ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND TILDE
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1EF3    ; PVALID    # LATIN SMALL LETTER Y WITH GRAVE
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1EF5    ; PVALID    # LATIN SMALL LETTER Y WITH DOT BELOW
1EF6    ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH HOOK ABOVE
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
1EFA    ; DISALLOWED  # LATIN CAPITAL LETTER MIDDLE-WELSH LL
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    ; PVALID    # LATIN SMALL LETTER Y WITH LOOP..GREEK SMALL
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1F30    ; PVALID    # GREEK SMALL LETTER IOTA WITH PSILI..GREEK SM
1F38    ; DISALLOWED  # GREEK CAPITAL LETTER IOTA WITH PSILI..GREEK
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1F5B    ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH DASIA AND
1F5C    ; UNASSIGNED  # <reserved>
1F5D    ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH DASIA AND
1F5E    ; UNASSIGNED  # <reserved>
1F5F    ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH DASIA AND
1F60    ; PVALID    # GREEK SMALL LETTER OMEGA WITH PSILI..GREEK
1F68    ; DISALLOWED  # GREEK CAPITAL LETTER OMEGA WITH PSILI..GREEK
1F70        ; PVALID      # GREEK SMALL LETTER ALPHA WITH VARIA
1F71        ; DISALLOWED  # GREEK SMALL LETTER ALPHA WITH OXIA
1F72        ; PVALID      # GREEK SMALL LETTER EPSILON WITH VARIA
1F73        ; DISALLOWED  # GREEK SMALL LETTER EPSILON WITH OXIA
1F74        ; PVALID      # GREEK SMALL LETTER ETA WITH VARIA
1F75        ; DISALLOWED  # GREEK SMALL LETTER ETA WITH OXIA
1F76        ; PVALID      # GREEK SMALL LETTER IOTA WITH VARIA
1F77        ; DISALLOWED  # GREEK SMALL LETTER IOTA WITH OXIA
1F78        ; PVALID      # GREEK SMALL LETTER OOMICRON WITH VARIA
1F79        ; DISALLOWED  # GREEK SMALL LETTER OOMICRON WITH OXIA
1F7A        ; PVALID      # GREEK SMALL LETTER UPSILON WITH VARIA
1F7B        ; DISALLOWED  # GREEK SMALL LETTER UPSILON WITH OXIA
1F7C        ; PVALID      # GREEK SMALL LETTER OMEGA WITH VARIA
1F7D        ; DISALLOWED  # GREEK SMALL LETTER OMEGA WITH OXIA
1F7E..1F7F  ; UNASSIGNED  # <reserved>..<reserved>
1F80..1F8F  ; DISALLOWED  # GREEK SMALL LETTER ALPHA WITH PSILI AND YPOG
1F90..1F9F  ; PVALID      # GREEK SMALL LETTER ALPHA WITH VRACHY..GREEK S
1FA0..1FAF  ; DISALLOWED  # GREEK SMALL LETTER ALPHA WITH PERISPOMENI AN
1FC0..1FCF  ; DISALLOWED  # GREEK SMALL LETTER ETA WITH PERISPOMENI
1FD0..1FDF  ; DISALLOWED  # GREEK SMALL LETTER IOTA WITH VRACHY..GREEK S
1FE0..1FEF  ; DISALLOWED  # GREEK SMALL LETTER UPSILON WITH VRACHY..GREEK S
1FF0..1FFF  ; UNASSIGNED  # <reserved>
2000..200B  ; DISALLOWED  # EN QUAD..ZERO WIDTH SPACE
2010..2019  ; CONTEXTJ    # ZERO WIDTH NON-JOINER..ZERO WIDTH JOINER
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

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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        ; PVVALID  # TURNED SMALL F
214F..2183  ; DISALLOWED  # SYMBOL FOR SAMARITAN SOURCE..ROMAN NUMERAL R
2184        ; PVVALID  # LATIN SMALL LETTER REVERSED C
2185..218B  ; DISALLOWED  # ROMAN NUMERAL SIX LATE FORM..TURNED DIGIT TH
218C..218F  ; UNASSIGNED  # <reserved>..<reserved>
2190..219D  ; DISALLOWED  # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
2247..224F  ; UNASSIGNED  # <reserved>..<reserved>
224A..224F  ; DISALLOWED  # OCR HOOK..OCR DOUBLE BACKSLASH
224B..224F  ; UNASSIGNED  # <reserved>..<reserved>
2246..22A7  ; DISALLOWED  # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
22B4..22B7  ; UNASSIGNED  # <reserved>..<reserved>
22B6..22B9  ; DISALLOWED  # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
22B6..22B7  ; UNASSIGNED  # <reserved>..<reserved>
22B8..22C8  ; DISALLOWED  # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
22C9        ; UNASSIGNED  # <reserved>
22CA..22FE  ; DISALLOWED  # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
22FF        ; UNASSIGNED  # <reserved>
2C00..2C1E  ; DISALLOWED  # GLAGOLITIC CAPITAL LETTER AZU..GLAGOLITIC CA
2C2F        ; UNASSIGNED  # <reserved>
2C30..2C5E  ; PVVALID  # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMAL
2C5F        ; UNASSIGNED  # <reserved>
2C60..2C61  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOUBLE BAR
2C61        ; PVVALID  # LATIN SMALL LETTER L WITH DOUBLE BAR
2C62..2C64  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LA
2C65..2C66  ; PVVALID  # LATIN SMALL LETTER A WITH STROKE..LATIN SMAL
2C67        ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DESCENDER
2C68        ; PVVALID  # LATIN SMALL LETTER H WITH DESCENDER
2C69        ; DISALLOWED  # LATIN CAPITAL LETTER K WITH DESCENDER
2C6A        ; PVVALID  # LATIN SMALL LETTER K WITH DESCENDER
2C6B        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DESCENDER
2C6C        ; PVVALID  # LATIN SMALL LETTER Z WITH DESCENDER
2C6D..2C70  ; DISALLOWED  # LATIN CAPITAL LETTER ALPHA..LATIN CAPITAL LE
2C71        ; PVVALID  # LATIN SMALL LETTER V WITH RIGHT HOOK
2C72        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH HOOK
2C73..2C74  ; PVVALID  # LATIN SMALL LETTER W WITH HOOK..LATIN SMALL
2C75        ; DISALLOWED  # LATIN CAPITAL LETTER HALF H
2C76..2C7B  ; PVVALID  # LATIN SMALL LETTER HALF H..LATIN LETTER SMAL
2C7C..2C80  ; DISALLOWED  # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPIT
2C81        ; PVVALID  # COPTIC SMALL LETTER ALFA
2C82        ; DISALLOWED  # COPTIC CAPITAL LETTER VIDA
2C83        ; PVALID      # COPTIC SMALL LETTER VIDA
2C84        ; DISALLOWED # COPTIC CAPITAL LETTER GAMMA
2C85        ; PVALID      # COPTIC SMALL LETTER GAMMA
2C86        ; DISALLOWED # COPTIC CAPITAL LETTER DALDA
2C87        ; PVALID      # COPTIC SMALL LETTER DALDA
2C88        ; DISALLOWED # COPTIC CAPITAL LETTER EIE
2C89        ; PVALID      # COPTIC SMALL LETTER EIE
2C8A        ; DISALLOWED # COPTIC CAPITAL LETTER SOU
2C8B        ; PVALID      # COPTIC SMALL LETTER SOU
2C8C        ; DISALLOWED # COPTIC CAPITAL LETTER ZATA
2C8D        ; PVALID      # COPTIC SMALL LETTER ZATA
2C8E        ; DISALLOWED # COPTIC CAPITAL LETTER HATE
2C8F        ; PVALID      # COPTIC SMALL LETTER HATE
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2C91        ; PVALID      # COPTIC SMALL LETTER THETHE
2C92        ; DISALLOWED # COPTIC CAPITAL LETTER IAUDA
2C93        ; PVALID      # COPTIC SMALL LETTER IAUDA
2C94        ; DISALLOWED # COPTIC CAPITAL LETTER KAPA
2C95        ; PVALID      # COPTIC SMALL LETTER KAPA
2C96        ; DISALLOWED # COPTIC CAPITAL LETTER LAULA
2C97        ; PVALID      # COPTIC SMALL LETTER LAULA
2C98        ; DISALLOWED # COPTIC CAPITAL LETTER MI
2C99        ; PVALID      # COPTIC SMALL LETTER MI
2C9A        ; DISALLOWED # COPTIC CAPITAL LETTER NI
2C9B        ; PVALID      # COPTIC SMALL LETTER NI
2C9C        ; DISALLOWED # COPTIC CAPITAL LETTER KSI
2C9D        ; PVALID      # COPTIC SMALL LETTER KSI
2C9E        ; DISALLOWED # COPTIC CAPITAL LETTER O
2C9F        ; PVALID      # COPTIC SMALL LETTER O
2CA0        ; DISALLOWED # COPTIC CAPITAL LETTER PI
2CA1        ; PVALID      # COPTIC SMALL LETTER PI
2CA2        ; DISALLOWED # COPTIC CAPITAL LETTER RO
2CA3        ; PVALID      # COPTIC SMALL LETTER RO
2CA4        ; DISALLOWED # COPTIC CAPITAL LETTER SIMA
2CA5        ; PVALID      # COPTIC SMALL LETTER SIMA
2CA6        ; DISALLOWED # COPTIC CAPITAL LETTER TAU
2CA7        ; PVALID      # COPTIC SMALL LETTER TAU
2CA8        ; DISALLOWED # COPTIC CAPITAL LETTER UA
2CA9        ; PVALID      # COPTIC SMALL LETTER UA
2CAA        ; DISALLOWED # COPTIC CAPITAL LETTER FI
2CAB        ; PVALID      # COPTIC SMALL LETTER FI
2CAC        ; DISALLOWED # COPTIC CAPITAL LETTER KHI
2CAD        ; PVALID      # COPTIC SMALL LETTER KHI
2CAE        ; DISALLOWED # COPTIC CAPITAL LETTER PSI
2CAF        ; PVALID      # COPTIC SMALL LETTER PSI
2CB0        ; DISALLOWED # COPTIC CAPITAL LETTER OOU
2CB1        ; PVALID      # COPTIC SMALL LETTER OOU
2CB2        ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P ALEF
2CB3        ; PVALID      # COPTIC SMALL LETTER DIALECT-P ALEF
2CB4        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC AIN
2CB5        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC AIN
2CB6        ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC EIE
2CB7        ; PVALID      # COPTIC SMALL LETTER CRYPTOGRAMMIC EIE
2CB8        ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P KAPA
2CB9        ; PVALID      # COPTIC SMALL LETTER DIALECT-P KAPA
2CBA        ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P NI
2CBB        ; PVALID      # COPTIC SMALL LETTER DIALECT-P NI
2CBC        ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC NI
2CBD        ; PVALID      # COPTIC SMALL LETTER CRYPTOGRAMMIC NI
2CBE        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC OOU
2CBF        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC OOU
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2CC1        ; PVALID      # COPTIC SMALL LETTER SAMPI
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2CC5        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC SHEI
2CC6        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC ESH
2CC7        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC ESH
2CC8        ; DISALLOWED # COPTIC CAPITAL LETTER AKHMIMIC KHEI
2CC9        ; PVALID      # COPTIC SMALL LETTER AKHMIMIC KHEI
2CCA        ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P HORI
2CCB        ; PVALID      # COPTIC SMALL LETTER DIALECT-P HORI
2CCC        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HORI
2CCD        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC HORI
2CEE        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HA
2CCF        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC HA
2CD0        ; DISALLOWED # COPTIC CAPITAL LETTER L-SHAPED HA
2CD1        ; PVALID      # COPTIC SMALL LETTER L-SHAPED HA
2CD2        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HEI
2CD3        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC HEI
2CD4        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HAT
2CD5        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC HAT
2CD6        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC GANGIA
2CD7        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC GANGIA
2CD8        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC DJA
2CD9        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC DJA
2CDA        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC SHIMA
2CDB        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC SHIMA
2CDC        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN SHIMA
2CDD        ; PVALID      # COPTIC SMALL LETTER OLD NUBIAN SHIMA
2CDE        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NGI
2CDF        ; PVALID      # COPTIC SMALL LETTER OLD NUBIAN NGI
2CE0        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NYI
2CE1        ; PVALID      # COPTIC SMALL LETTER OLD NUBIAN NYI
2CE2        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN WAU
2CE3..2CE4  ; PVALID  # COPTIC SMALL LETTER OLD NUBIAN WAU..COPTIC SMALL LETTER OLD NUBIAN WAU
2CE5..2CEB  ; DISALLOWED  # COPTIC SMALL LETTER MI..COPTIC SMALL LETTER MI
2CEC        ; PVALID  # COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CED        ; DISALLOWED  # COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA
2CEE..2CF1  ; PVALID  # COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA..COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA
2CF2        ; DISALLOWED  # COPTIC CAPITAL LETTER BOHAIRIC KHEI
2CF3        ; PVALID  # COPTIC SMALL LETTER BOHAIRIC KHEI
2CF4..2CF8  ; UNASSIGNED  # <reserved>..<reserved>
2CF9..2CFF  ; DISALLOWED  # COPTIC OLD NUBIAN FULL STOP..COPTIC MORPHOLOGIC FULL STOP
2D00..2D25  ; PVALID  # GEORGIAN SMALL LETTER AN..GEORGIAN SMALL LETTER AE
2D26        ; UNASSIGNED  # <reserved>
2D27        ; PVALID  # GEORGIAN SMALL LETTER YN
2D28..2D2C  ; UNASSIGNED  # <reserved>..<reserved>
2D2D        ; PVALID  # GEORGIAN SMALL LETTER AEN
2D2E..2D2F  ; UNASSIGNED  # <reserved>..<reserved>
2D30..2D67  ; PVALID  # TIFINAGH LETTER YA..TIFINAGH LETTER YO
2D68..2D6E  ; UNASSIGNED  # <reserved>..<reserved>
2D6F..2D70  ; DISALLOWED  # TIFINAGH MODIFIER LETTER LABIALIZATION MARK.
2D71..2D7E  ; UNASSIGNED  # <reserved>..<reserved>
2D7F..2D96  ; PVALID  # TIFINAGH CONSONANT JOINER..ETHIOPIC SYLLABLE SSA
2D97..2D9F  ; UNASSIGNED  # <reserved>..<reserved>
2DA0..2DA6  ; PVALID  # ETHIOPIC SYLLABLE SSA..ETHIOPIC SYLLABLE SSO
2DAA..2DAE  ; PVALID  # ETHIOPIC SYLLABLE CCA..ETHIOPIC SYLLABLE CCO
2DAB        ; UNASSIGNED  # <reserved>
2DB0..2DB6  ; PVALID  # ETHIOPIC SYLLABLE ZZA..ETHIOPIC SYLLABLE ZZO
2DB7        ; UNASSIGNED  # <reserved>
2DB8..2DBE  ; PVALID  # ETHIOPIC SYLLABLE CCHA..ETHIOPIC SYLLABLE CCC
2DBF        ; UNASSIGNED  # <reserved>
2DC0..2DCE  ; PVALID  # ETHIOPIC SYLLABLE QYA..ETHIOPIC SYLLABLE QYO
2DCF        ; UNASSIGNED  # <reserved>
2DD0..2DD6  ; PVALID  # ETHIOPIC SYLLABLE XYA..ETHIOPIC SYLLABLE XYO
2DD7        ; UNASSIGNED  # <reserved>
2DD8..2DDE  ; PVALID  # ETHIOPIC SYLLABLE GYA..ETHIOPIC SYLLABLE GYO
2DDF        ; UNASSIGNED  # <reserved>
2DE0..2DFF  ; PVALID  # COMBINING CYRILLIC LETTER BE..COMBINING CYRILLIC LETTER BE
2E00..2E2E  ; DISALLOWED  # RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QUOTATION MARK
2E2F        ; PVALID  # VERTICAL TILDE
2E30..2E4E  ; DISALLOWED  # RING POINT..PUNCTUS ELEVATUS MARK
2E4F..2E7F  ; UNASSIGNED  # <reserved>..<reserved>
2E80..2E99  ; DISALLOWED  # CJK RADICAL REPEAT..CJK RADICAL REPEAT
2E9A        ; UNASSIGNED  # <reserved>
2E9B..2E9F  ; DISALLOWED  # CJK RADICAL CHOKED..CJK RADICAL CHOKED
2EFA..2EFF  ; UNASSIGNED  # <reserved>..<reserved>
2F00..2F05  ; DISALLOWED  # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2FD6..2FEF  ; UNASSIGNED  # <reserved>..<reserved>
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A610..A62B  ; PVALID  # VAI SYLLABLE NDOLE FA..VAI SYLLABLE NDOLE DO
A62C..A63F  ; UNASSIGNED  # <reserved>..<reserved>
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A641        ; PVALID  # CYRILLIC SMALL LETTER ZEMLYA
A642        ; DISALLOWED  # CYRILLIC CAPITAL LETTER DZELO
A643        ; PVALID  # CYRILLIC SMALL LETTER DZELO
A644        ; DISALLOWED  # CYRILLIC CAPITAL LETTER REVERSED DZE
A645        ; PVALID  # CYRILLIC SMALL LETTER REVERSED DZE
A646        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTA
A647        ; PVALID  # CYRILLIC SMALL LETTER IOTA
A648        ; DISALLOWED  # CYRILLIC CAPITAL LETTER DJERV
A649        ; PVALID  # CYRILLIC SMALL LETTER DJERV
A64A        ; DISALLOWED  # CYRILLIC CAPITAL LETTER MONOGRAPH UK
A64B        ; PVALID  # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C        ; DISALLOWED  # CYRILLIC CAPITAL LETTER BROAD OMEGA
A64D        ; PVALID  # CYRILLIC SMALL LETTER BROAD OMEGA
A64E        ; DISALLOWED  # CYRILLIC CAPITAL LETTER NEUTRAL YER
A64F        ; PVALID  # CYRILLIC SMALL LETTER NEUTRAL YER
A650        ; DISALLOWED  # CYRILLIC CAPITAL LETTER YERU WITH BACK YER
A651        ; PVALID  # CYRILLIC SMALL LETTER YERU WITH BACK YER
A652        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED YAT
A653        ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED YAT
A654        ; DISALLOWED  # CYRILLIC CAPITAL LETTER REVERSED YU
A655        ; PVALID  # CYRILLIC SMALL LETTER REVERSED YU
A656        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED A
A657        ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED A
A658        ; DISALLOWED  # CYRILLIC CAPITAL LETTER CLOSED LITTLE YUS
A659        ; PVALID  # CYRILLIC SMALL LETTER CLOSED LITTLE YUS
A65A        ; DISALLOWED  # CYRILLIC CAPITAL LETTER BLENDED YUS
A65B        ; PVALID  # CYRILLIC SMALL LETTER BLENDED YUS
A65C        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED CLOSED LITT
A65D        ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
A65E        ; DISALLOWED  # CYRILLIC CAPITAL LETTER YN
A65F        ; PVALID  # CYRILLIC SMALL LETTER YN
A660        ; DISALLOWED  # CYRILLIC CAPITAL LETTER REVERSED TSE
A661        ; PVALID  # CYRILLIC SMALL LETTER REVERSED TSE
A662        ; DISALLOWED  # CYRILLIC CAPITAL LETTER SOFT DE
A663        ; PVALID  # CYRILLIC SMALL LETTER SOFT DE
A664        ; DISALLOWED  # CYRILLIC CAPITAL LETTER SOFT EL
A665        ; PVALID  # CYRILLIC SMALL LETTER SOFT EL
A666        ; DISALLOWED  # CYRILLIC CAPITAL LETTER SOFT EM
A667        ; PVALID  # CYRILLIC SMALL LETTER SOFT EM
A668        ; DISALLOWED  # CYRILLIC CAPITAL LETTER MONOCULAR O
A669        ; PVALID  # CYRILLIC SMALL LETTER MONOCULAR O
A66A        ; DISALLOWED  # CYRILLIC CAPITAL LETTER BINOCULAR O
A66B        ; PVALID  # CYRILLIC SMALL LETTER BINOCULAR O
A66C        ; DISALLOWED  # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F  ; PVALID  # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673  ; DISALLOWED # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D  ; PVALID  # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E        ; DISALLOWED # CYRILLIC KAVYKA
A67F        ; PVALID  # CYRILLIC PAYEROK
A680        ; DISALLOWED # CYRILLIC CAPITAL LETTER DWE
A681        ; PVALID  # CYRILLIC SMALL LETTER DWE
A682        ; DISALLOWED # CYRILLIC CAPITAL LETTER DZWE
A683        ; PVALID  # CYRILLIC SMALL LETTER DZWE
A684        ; DISALLOWED # CYRILLIC CAPITAL LETTER ZHWE
A685        ; PVALID  # CYRILLIC SMALL LETTER ZHWE
A686        ; DISALLOWED # CYRILLIC CAPITAL LETTER CCHE
A687        ; PVALID  # CYRILLIC SMALL LETTER CCHE
A688        ; DISALLOWED # CYRILLIC CAPITAL LETTER DZZE
A689        ; PVALID  # CYRILLIC SMALL LETTER DZZE
A68A        ; DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH MIDDLE HOOK
A68B        ; PVALID  # CYRILLIC SMALL LETTER TE WITH MIDDLE HOOK
A68C        ; DISALLOWED # CYRILLIC CAPITAL LETTER TWE
A68D        ; PVALID  # CYRILLIC SMALL LETTER TWE
A68E        ; DISALLOWED # CYRILLIC CAPITAL LETTER TSWE
A68F        ; PVALID  # CYRILLIC SMALL LETTER TSWE
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A694        ; DISALLOWED # CYRILLIC CAPITAL LETTER HWE
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A696        ; DISALLOWED # CYRILLIC CAPITAL LETTER SHWE
A697        ; PVALID  # CYRILLIC SMALL LETTER SHWE
A698        ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE O
A699        ; PVALID  # CYRILLIC SMALL LETTER DOUBLE O
A69A        ; DISALLOWED # CYRILLIC CAPITAL LETTER CROSSED O
A69B        ; PVALID  # CYRILLIC SMALL LETTER CROSSED O
A69C..A69D  ; DISALLOWED # MODIFIER LETTER CYRILLIC HARD SIGN..MODIFIER
A69E..A6E5  ; PVALID  # COMBINING CYRILLIC LETTER EF..BAMUM LETTER K
A6E6..A6EF  ; DISALLOWED # BAMUM LETTER MO..BAMUM LETTER KOGHOM
A6F0..A6F1  ; PVALID  # BAMUM COMBINING MARK KOQNDON..BAMUM COMBINING MARK KOQNDON
A6F2..A6F7  ; DISALLOWED # BAMUM NJAEMLI..BAMUM QUESTION MARK
A6F8..A6FF  ; UNASSIGNED # <reserved>..<reserved>
A700..A716  ; DISALLOWED # MODIFIER LETTER CHINESE TONE YIN PING..MODIF
A717..A71F  ; PVALID  # MODIFIER LETTER DOT VERTICAL BAR..MODIFIER L
A720..A722  ; DISALLOWED # MODIFIER LETTER STRESS AND HIGH TONE..LATIN
A723        ; PVALID  # LATIN SMALL LETTER EGYPTOLOGICAL ALEF
A724        ; DISALLOWED # LATIN CAPITAL LETTER EGYPTOLOGICAL AIN
A725        ; PVALID  # LATIN SMALL LETTER EGYPTOLOGICAL AIN
A726        ; DISALLOWED # LATIN CAPITAL LETTER HENG
A727        ; PVALID  # LATIN SMALL LETTER HENG
A728        ; DISALLOWED # LATIN CAPITAL LETTER TZ
A729        ; PVALID      # LATIN SMALL LETTER TZ
A72A        ; DISALLOWED # LATIN CAPITAL LETTER TRESILLO
A72B        ; PVALID      # LATIN SMALL LETTER TRESILLO
A72C        ; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO
A72D        ; PVALID      # LATIN SMALL LETTER CUATRILLO
A72E        ; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO WITH COMMA
A72F..A731  ; PVALID      # LATIN SMALL LETTER CUATRILLO WITH COMMA..LAT
A732        ; DISALLOWED # LATIN CAPITAL LETTER AA
A733        ; PVALID      # LATIN SMALL LETTER AA
A734        ; DISALLOWED # LATIN CAPITAL LETTER AO
A735        ; PVALID      # LATIN SMALL LETTER AO
A736        ; DISALLOWED # LATIN CAPITAL LETTER AU
A737        ; PVALID      # LATIN SMALL LETTER AU
A738        ; DISALLOWED # LATIN CAPITAL LETTER AV
A739        ; PVALID      # LATIN SMALL LETTER AV
A73A        ; DISALLOWED # LATIN CAPITAL LETTER AV WITH HORIZONTAL BAR
A73B        ; PVALID      # LATIN SMALL LETTER AV WITH HORIZONTAL BAR
A73C        ; DISALLOWED # LATIN CAPITAL LETTER AY
A73D        ; PVALID      # LATIN SMALL LETTER AY
A73E        ; DISALLOWED # LATIN CAPITAL LETTER REVERSED C WITH DOT
A73F        ; PVALID      # LATIN SMALL LETTER REVERSED C WITH DOT
A740        ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE
A741        ; PVALID      # LATIN SMALL LETTER K WITH STROKE
A742        ; DISALLOWED # LATIN CAPITAL LETTER K WITH DIAGONAL STROKE
A743        ; PVALID      # LATIN SMALL LETTER K WITH DIAGONAL STROKE
A744        ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE AND DIAGO
A745        ; PVALID      # LATIN SMALL LETTER K WITH STROKE AND DIAGONAL
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
A74B        ; PVALID      # LATIN SMALL LETTER O WITH LONG STROKE OVERLAPPED
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
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A760 ; DISALLOWED # LATIN CAPITAL LETTER VY
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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
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A768 ; DISALLOWED # LATIN CAPITAL LETTER VEND
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A76A ; DISALLOWED # LATIN CAPITAL LETTER ET
A76B ; PVALID # LATIN SMALL LETTER ET
A76C ; DISALLOWED # LATIN CAPITAL LETTER IS
A76D ; PVALID # LATIN SMALL LETTER IS
A76E ; DISALLOWED # LATIN CAPITAL LETTER CON
A76F ; PVALID # LATIN SMALL LETTER CON
A770 ; DISALLOWED # MODIFIER LETTER US
A771..A778 ; PVALID # LATIN SMALL LETTER DUM..LATIN SMALL LETTER U
A779 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR D
A77A ; PVALID # LATIN SMALL LETTER INSULAR D
A77B ; DISALLOWED # LATIN CAPITAL LETTER INSULAR F
A77C ; PVALID # LATIN SMALL LETTER INSULAR F
A77D..A77E ; DISALLOWED # LATIN CAPITAL LETTER INSULAR G..LATIN CAPITAL LETTER INSULAR H
A77F ; PVALID # LATIN SMALL LETTER TURNED INSULAR G
A780 ; DISALLOWED # LATIN CAPITAL LETTER TURNED L
A781 ; PVALID # LATIN SMALL LETTER TURNED L
A782 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR R
A783 ; PVALID # LATIN SMALL LETTER INSULAR R
A784 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR S
A785 ; PVALID # LATIN SMALL LETTER INSULAR S
A786 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR T
A787..A788 ; PVALID # LATIN SMALL LETTER INSULAR T..MODIFIER LETTER COLON
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 STROKE
A790 ; DISALLOWED # LATIN CAPITAL LETTER N WITH DESCENDER
A791 ; PVALID # LATIN SMALL LETTER N WITH DESCENDER
A792 ; DISALLOWED # LATIN CAPITAL LETTER C WITH BAR
A793..A795 ; PVALID # LATIN SMALL LETTER C WITH BAR..LATIN SMALL L
A796 ; DISALLOWED # LATIN CAPITAL LETTER B WITH FLOURISH
A797 ; PVALID # LATIN SMALL LETTER B WITH FLOURISH
A798 ; DISALLOWED # LATIN CAPITAL LETTER F WITH STROKE
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A97D..A97F  ; UNASSIGNED  # <reserved>..<reserved>
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A9C1..A9CD  ; DISALLOWED  # JAVANESE LEFT RERENGGAN..JAVANESE TURNED PAD
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A9CF..A9DF  ; DISALLOWED  # JAVANESE PANGRANGKEP..JAVANESE DIGIT NINE
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A9E0..A9FE  ; PVALID  # MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI
A9FF  ; UNASSIGNED  # <reserved>
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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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AA5A..AA5B  ; UNASSIGNED  # <reserved>..<reserved>
AA5C..AA5F  ; DISALLOWED  # CHAM PUNCTUATION SPIRAL..CHAM PUNCTUATION TR
AA60..AA76  ; PVALID  # MYANMAR LETTER KHAMTI GA..MYANMAR LOGOGRAM K
AA77..AA79  ; DISALLOWED  # MYANMAR SYMBOL AITON EXCLAMATION..MYANMAR SY
AA7A..AAC2  ; PVALID  # MYANMAR LETTER AITON RA..TAI VIET TONE MAI S
AAC3..AAD4  ; UNASSIGNED  # <reserved>..<reserved>
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AADE..AADF  ; DISALLOWED  # TAI VIET SYMBOL HO HOI..TAI VIET SYMBOL KOI
AAE0..AAEF  ; PVALID  # MEETEI MAYEK LETTER E..MEETEI MAYEK VOWEL SI
AAF0..AAF1  ; DISALLOWED  # MEETEI MAYEK CHEIKHAN..MEETEI MAYEK AHANG KH
AAF2..AAF6  ; 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>
AB11..AB16  ; PVALID  # ETHIOPIAN SYLLABLE DZU..ETHIOPIAN SYLLABLE DZO
AB17..AB1F  ; UNASSIGNED  # <reserved>..<reserved>
AB20..AB26  ; PVALID  # ETHIOPIAN SYLLABLE CCHHA..ETHIOPIAN SYLLABLE C
AB27  ; UNASSIGNED  # <reserved>
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AB2F  ; UNASSIGNED  # <reserved>
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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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ABCO..ABEA  ; PVALID  # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL
ABEB  ; DISALLOWED  # MEETEI MAYEK CHEIKHEI
ABEC..ABED  ; PVALID  # MEETEI MAYEK LUM IYEK..MEETEI MAYEK APUN IYE
ABEE..ABEF  ; UNASSIGNED  # <reserved>..<reserved>
ABF0..ABF9  ; PVALID  # MEETEI MAYEK DIGIT ZERO..MEETEI MAYEK DIGIT
ABFA..ABFF  ; UNASSIGNED # <reserved>..<reserved>
AC00..D7A3  ; PVALID # <Hangul Syllable>..<Hangul Syllable>
D7A4..D7AF  ; UNASSIGNED # <reserved>..<reserved>
D7B0..D7C6  ; DISALLOWED # HANGUL JUNGSEONG O-YEO..HANGUL JUNGSEONG ARA
D7C7..D7CA  ; UNASSIGNED # <reserved>..<reserved>
D7CB..D7FB  ; DISALLOWED # HANGUL JONGSEONG NIEUN-RIEUL..HANGUL JONGSEO
D7FC..D7FF  ; UNASSIGNED # <reserved>..<reserved>
D800..FA0D  ; DISALLOWED # <Non Private Use High Surrogate>..CJK COMPAT
FA0E..FA0F  ; PVALID # CJK COMPATIBILITY IDEOGRAPH-FA0E..CJK COMPAT
FA10  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA10
FA11  ; PVALID # CJK COMPATIBILITY IDEOGRAPH-FA11
FA12  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA12
FA13..FA14  ; PVALID # CJK COMPATIBILITY IDEOGRAPH-FA13..CJK COMPAT
FA15..FA1E  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA15..CJK COMPAT
FA1F  ; PVALID # CJK COMPATIBILITY IDEOGRAPH-FA1F
FA20  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA20
FA21  ; PVALID # CJK COMPATIBILITY IDEOGRAPH-FA21
FA22  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA22
FA23..FA24  ; PVALID # CJK COMPATIBILITY IDEOGRAPH-FA23..CJK COMPAT
FA25..FA26  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA25..CJK COMPAT
FA27..FA29  ; PVALID # CJK COMPATIBILITY IDEOGRAPH-FA27..CJK COMPAT
FA2A..FA6D  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA2A..CJK COMPAT
FA6E..FA6F  ; UNASSIGNED # <reserved>..<reserved>
FA70..FA79  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA70..CJK COMPAT
FADA..FAFF  ; UNASSIGNED # <reserved>..<reserved>
FB00..FB06  ; DISALLOWED # LATIN SMALL LIGATURE FF..LATIN SMALL LIGATURE FF
FB07..FB12  ; UNASSIGNED # <reserved>..<reserved>
FB13..FB17  ; DISALLOWED # ARMENIAN SMALL LIGATURE MEN NOW..ARMENIAN SMALL LIGATURE MEN NOW
FB18..FB1C  ; UNASSIGNED # <reserved>..<reserved>
FB1D  ; DISALLOWED # HEBREW LETTER YOD WITH HIRIQ
FB1E  ; PVALID # HEBREW POINT JUDEO-SPANISH VARIKA
FB1F..FB36  ; DISALLOWED # HEBREW LIGATURE YIDDISH YOD YOD PATAH..HEBREW LIGATURE YIDDISH YOD YOD PATAH
FB37  ; UNASSIGNED # <reserved>
FB38..FB3C  ; DISALLOWED # HEBREW LETTER TET WITH DAGESH..HEBREW LETTER TET WITH DAGESH
FB3D  ; UNASSIGNED # <reserved>
FB3E  ; DISALLOWED # HEBREW LETTER MEM WITH DAGESH
FB3F  ; UNASSIGNED # <reserved>
FB40..FB41  ; DISALLOWED # HEBREW LETTER NUN WITH DAGESH..HEBREW LETTER NUN WITH DAGESH
FB42  ; UNASSIGNED # <reserved>
FB43..FB44  ; DISALLOWED # HEBREW LETTER FINAL PE WITH DAGESH..HEBREW LETTER FINAL PE WITH DAGESH
FB45  ; UNASSIGNED # <reserved>
FB46..FB47  ; DISALLOWED # HEBREW LETTER TSADI WITH DAGESH..ARABIC SYMB
FB48..FB4D  ; UNASSIGNED # <reserved>..<reserved>
FB53..FD3F  ; DISALLOWED # ARABIC LETTER NG ISOLATED FORM..ORNATE RIGHT
FD40..FD4F  ; UNASSIGNED # <reserved>..<reserved>
FD50..FD8F  ; DISALLOWED # ARABIC LIGATURE TEH WITH JEEM WITH MEEM INIT
FD90..FD91  ; UNASSIGNED # <reserved>..<reserved>
FD92..FDC7  ; DISALLOWED # ARABIC LIGATURE MEEM WITH JEEM WITH KHAH INI
FDC8..FDCF  ; UNASSIGNED  # <reserved>..<reserved>
FDD0..FDFD  ; DISALLOWED  # <noncharacter>..ARABIC LIGATURE BISMILLAH AR
FDFF  ; UNASSIGNED  # <reserved>..<reserved>
FE00..FE19  ; DISALLOWED  # VARIATION SELECTOR-1..PRESENTATION FORM FOR
FE1A..FE1F  ; UNASSIGNED  # <reserved>..<reserved>
FE20..FE2F  ; PVALID  # COMBINING LIGATURE LEFT HALF..COMBINING CYRI
FE30..FE52  ; DISALLOWED  # PRESENTATION FORM FOR VERTICAL TWO DOT LEADE
FE53  ; UNASSIGNED  # <reserved>
FE54..FE66  ; DISALLOWED  # SMALL SEMICOLON..SMALL EQUALS SIGN
FE67  ; UNASSIGNED  # <reserved>
FE68..FE6B  ; DISALLOWED  # SMALL REVERSE SOLIDUS..SMALL COMMERCIAL AT
FE6C5FE6F  ; UNASSIGNED  # <reserved>..<reserved>
FE70..FE72  ; DISALLOWED  # ARABIC FATHATAN ISOLATED FORM..ARABIC DAMMAT
FE73  ; PVALID  # ARABIC TAIL FRAGMENT
FE74  ; DISALLOWED  # ARABIC KASRATAN ISOLATED FORM
FE75  ; UNASSIGNED  # <reserved>
FE76..FEFC  ; DISALLOWED  # ARABIC FATHA ISOLATED FORM..ARABIC LIGATURE
FEFD..FEFE  ; UNASSIGNED  # <reserved>..<reserved>
FEFF  ; DISALLOWED  # ZERO WIDTH NO-BREAK SPACE
FF00  ; UNASSIGNED  # <reserved>
FF01..FFBE  ; DISALLOWED  # FULLWIDTH EXCLAMATION MARK..HALFWIDTH HANGUL
FFBF..FFC1  ; UNASSIGNED  # <reserved>..<reserved>
FFC2..FFC7  ; DISALLOWED  # HALFWIDTH HANGUL LETTER A..HALFWIDTH HANGUL
FFC8..FFC9  ; UNASSIGNED  # <reserved>..<reserved>
FFCA..FFCF  ; DISALLOWED  # HALFWIDTH HANGUL LETTER YEO..HALFWIDTH HANGUL
FFD0..FFD1  ; UNASSIGNED  # <reserved>..<reserved>
FFD2..FFD7  ; DISALLOWED  # HALFWIDTH HANGUL LETTER YO..HALFWIDTH HANGUL
FFD8..FFD9  ; UNASSIGNED  # <reserved>..<reserved>
FFDA..FFDC  ; DISALLOWED  # HALFWIDTH HANGUL LETTER EU..HALFWIDTH HANGUL
FFDD..FFDF  ; UNASSIGNED  # <reserved>..<reserved>
FFE0..FFE6  ; DISALLOWED  # FULLWIDTH CENT SIGN..FULLWIDTH WON SIGN
FFE7  ; UNASSIGNED  # <reserved>
FFE8..FFEE  ; DISALLOWED  # HALFWIDTH FORMS LIGHT VERTICAL..HALFWIDTH WH
FFEF..FFFF  ; DISALLOWED  # <reserved>..<reserved>
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
| U+100FB .. U+100FF | UNASSIGNED # <reserved>..<reserved> |
| U+10100 .. U+10102 | DISALLOWED # AEGEAN WORD SEPARATOR LINE..AEGEAN CHECK MARK |
| U+10103 .. U+10106 | UNASSIGNED # <reserved>..<reserved> |
| U+10107 .. U+10133 | DISALLOWED # AEGEAN NUMBER ONE..AEGEAN NUMBER NINETY THOUSAND |
| U+10134 .. U+10136 | UNASSIGNED # <reserved>..<reserved> |
| U+10137 .. U+1018E | DISALLOWED # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN |
| U+1018F | UNASSIGNED # <reserved> |
| U+10190 .. U+1019B | DISALLOWED # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN |
| U+1019C .. U+1019F | UNASSIGNED # <reserved>..<reserved> |
| U+101A0 | DISALLOWED # GREEK SYMBOL TAU RHO |
| U+101A1 .. U+101CF | UNASSIGNED # <reserved>..<reserved> |
| U+101D0 .. U+101FC | DISALLOWED # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC |
| U+101FD | PVALID # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE |
| U+101FE .. U+1027F | DISALLOWED # COPTIC EPACT THOUSANDS MARK |
| U+10280 .. U+1029C | PVALID # OLD ITALIC LETTER A..OLD ITALIC LETTER ESS |
| U+1029D .. U+1029F | UNASSIGNED # <reserved>..<reserved> |
| U+102A0 .. U+102D0 | PVALID # CARIAN LETTER A..CARIAN LETTER UUU3 |
| U+102D1 .. U+102DF | UNASSIGNED # <reserved>..<reserved> |
| U+102E0 | PVALID # GOthic letter ninety |
| U+102E1 .. U+102F2 | DISALLOWED # COPTIC EPACT DIGIT ONE..COPTIC EPACT NUMBER |
| U+102FC .. U+102FF | UNASSIGNED # <reserved>..<reserved> |
| U+10300 .. U+1031F | PVALID # OLD PERMIC LETTER AN..OLD PERMIC LETTER H |
| U+10320 .. U+10323 | DISALLOWED # OLD PERMIC NUMERAL ONE..OLD PERMIC NUMERAL F |
| U+10324 .. U+1032C | UNASSIGNED # <reserved>..<reserved> |
| U+1032D .. U+10340 | PVALID # OLD ITALIC LETTER YE..GOTHIC LETTER PAIRTHRA |
| U+10341 | DISALLOWED # GOTHIC LETTER NINETY |
| U+10342 .. U+1034F | PVALID # GOTHIC LETTER RAID..GOTHIC LETTER OTHAL |
| U+1034A | DISALLOWED # GOTHIC LETTER NINE HUNDRED |
| U+1034B .. U+1034F | UNASSIGNED # <reserved>..<reserved> |
| U+10350 .. U+1037A | PVALID # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L |
| U+1037B .. U+1037F | UNASSIGNED # <reserved>..<reserved> |
| U+10380 .. U+1039D | PVALID # UGARITIC LETTER ALPA..UGARITIC LETTER SSU |
| U+1039E | UNASSIGNED # <reserved> |
| U+1039F | DISALLOWED # UGARITIC WORD DIVIDER |
| U+103A0 .. U+103C3 | PVALID # OLD PERSIAN SIGN A..OLD PERSIAN SIGN HA |
| U+103C4 .. U+103C7 | UNASSIGNED # <reserved>..<reserved> |
| U+103C8 .. U+103CF | PVALID # OLD PERSIAN SIGN AURAMAZDA..OLD PERSIAN SIGN H |
| U+103D0 .. U+103D5 | DISALLOWED # OLD PERSIAN WORD DIVIDER..OLD PERSIAN NUMBER |
| U+103D6 .. U+103FF | UNASSIGNED # <reserved>..<reserved> |
| U+10400 .. U+10427 | DISALLOWED # DESERET CAPITAL LETTER LONG I..DESERET CAPITAL |
| U+10428 .. U+1049D | PVALID # DESERET SMALL LETTER LONG I..OSMANYA LETTER |
| U+1049E .. U+1049F | UNASSIGNED # <reserved>..<reserved> |
| U+104A0 .. U+104A9 | PVALID # OSMANYA DIGIT ZERO..OSMANYA DIGIT NINE |
| U+104AA .. U+104AF | UNASSIGNED # <reserved>..<reserved> |
| U+104B0 .. U+104D3 | DISALLOWED # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER |
| U+104D4 .. U+104D7 | UNASSIGNED # <reserved>..<reserved> |
| U+104D8 .. U+104FB | PVALID # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA |
| U+104FC .. U+104FF | UNASSIGNED # <reserved>..<reserved> |
10500..10527; PVALID # ELBASAN LETTER A..ELBASAN LETTER KHE
10528..1052F; UNASSIGNED # <reserved>..<reserved>
10530..10563; PVALID # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
10564..1056E; UNASSIGNED # <reserved>..<reserved>
1056F; DISALLOWED # CAUCASIAN ALBANIAN CITATION MARK
10570..105FF; UNASSIGNED # <reserved>..<reserved>
10580..1059F; PVALID # LINEAR A SIGN AB001..LINEAR A SIGN A664
10573..1057F; UNASSIGNED # <reserved>..<reserved>
10574..10575; PVALID # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10575..10576; UNASSIGNED # <reserved>..<reserved>
10577..1057F; PVALID # LINEAR A SIGN A800..LINEAR A SIGN A807
10576..10577; UNASSIGNED # <reserved>..<reserved>
10578..10580; PVALID # CYPRIO SYLLABLE A..CYPRIO SYLLABLE JA
10580..10581; UNASSIGNED # <reserved>
10581..10582; PVALID # CYPRIO SYLLABLE JO
10583..10585; PVALID # CYPRIO SYLLABLE KA..CYPRIO SYLLABLE WO
10586; UNASSIGNED # <reserved>
10587..10588; PVALID # CYPRIO SYLLABLE XA..CYPRIO SYLLABLE XE
10589..1058B; UNASSIGNED # <reserved>..<reserved>
1058C; PVALID # CYPRIO SYLLABLE ZA
1058D..1058E; UNASSIGNED # <reserved>..<reserved>
1058F..10595; PVALID # CYPRIO SYLLABLE ZO..IMPERIAL ARAMAIC LETTER
10596; UNASSIGNED # <reserved>
10597..1059F; DISALLOWED # IMPERIAL ARAMAIC SECTION SIGN..IMPERIAL ARAM
10590..10597; PVALID # PALMYRENE LETTER ALEPH..PALMYRENE LETTER TAW
10598..1059E; DISALLOWED # PALMYRENE LEFT-POINTING FLEURON..PALMYRENE N
10580..10585; PVALID # NABATAEAN LETTER FINAL ALEPH..NABATAEAN LETTER
10589F..1058AF; UNASSIGNED # <reserved>..<reserved>
1058A7..1058BF; DISALLOWED # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
1058B0..1058DF; UNASSIGNED # <reserved>..<reserved>
1058E0..1058F2; PVALID # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
1058F3; UNASSIGNED # <reserved>
1058F4..1058F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
1058F6..1058FA; UNASSIGNED # <reserved>..<reserved>
1058FB..1058FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
10590..10591F; PVALID # PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU
105916..10591B; DISALLOWED # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR
10591C..10591E; UNASSIGNED # <reserved>..<reserved>
10591F; DISALLOWED # PHOENICIAN WORD SEPARATOR
105920..105939; PVALID # LYDIAN LETTER A..LYDIAN LETTER C
10593A..10593E; UNASSIGNED # <reserved>..<reserved>
10593F; DISALLOWED # LYDIAN TRIANGULAR MARK
105940..10597F; UNASSIGNED # <reserved>..<reserved>
105980..1059B7; PVALID # MEROITIC HIEROGLYPHIC LETTER A..MEROITIC CUR
105988..1059BB; UNASSIGNED # <reserved>..<reserved>
1059BC..1059BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
1059BE..1059BF; PVALID # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
109C0..109CF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIVE
109D0..109D1; UNASSIGNED # <reserved>..<reserved>
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITIC CURSIVE
10A00..10A03; PVALID # KHIROSHTHI LETTER A..KHIROSHTHI VOWEL SIGN V
10A04 ; UNASSIGNED # <reserved>
10A05..10A06; PVALID # KHIROSHTHI VOWEL SIGN E..KHIROSHTHI VOWEL SIGN E
10A07..10A0B; UNASSIGNED # <reserved>..<reserved>
10A0C..10A13; PVALID # KHIROSHTHI VOWEL LENGTH MARK..KHIROSHTHI LETTER A
10A14 ; UNASSIGNED # <reserved>
10A15..10A17; PVALID # KHIROSHTHI LETTER CA..KHIROSHTHI LETTER JA
10A18 ; UNASSIGNED # <reserved>
10A19..10A35; PVALID # KHIROSHTHI LETTER NYA..KHIROSHTHI LETTER VHA
10A36..10A37; UNASSIGNED # <reserved>..<reserved>
10A38..10A3A; PVALID # KHIROSHTHI SIGN BAR ABOVE..KHIROSHTHI SIGN D
10A3B..10A3E; UNASSIGNED # <reserved>..<reserved>
10A3F ; PVALID # KHIROSHTHI VIRAMA
10A40..10A4B; DISALLOWED # KHIROSHTHI DIGIT ONE..KHIROSHTHI FRACTION ON
10A49..10A4F; UNASSIGNED # <reserved>..<reserved>
10A50..10A58; DISALLOWED # KHIROSHTHI PUNCTUATION DOT..KHIROSHTHI PUNCTUATION DOT
10A59..10A5F; UNASSIGNED # <reserved>..<reserved>
10A60..10A7C; PVALID # OLD SOUTH ARABIAN LETTER HE..OLD SOUTH ARABIAN LETTER HE
10A7D..10A7F; PVALID # OLD SOUTH ARABIAN NUMBER ONE..OLD SOUTH ARABIAN NUMBER ONE
10A80..10A9C; PVALID # OLD NORTH ARABIAN LETTER HEN..OLD NORTH ARABIAN LETTER HEN
10A9D..10A9F; DISALLOWED # OLD NORTH ARABIAN NUMBER ONE..OLD NORTH ARABIAN NUMBER ONE
10AA0..10AAB; UNASSIGNED # <reserved>..<reserved>
10AC0..10AC7; PVALID # MANICHAEAN LETTER ALEPH..MANICHAEAN LETTER W
10AC8 ; DISALLOWED # MANICHAEAN SIGN UD
10AC9..10AE6; PVALID # MANICHAEAN LETTER ZAYIN..MANICHAEAN ABBREVIATION MARK
10AE7..10AE8; UNASSIGNED # <reserved>..<reserved>
10AEB..10AFC; DISALLOWED # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATION MARK
10AF7..10AFF; UNASSIGNED # <reserved>..<reserved>
10B00..10B35; PVALID # AVESTAN LETTER A..AVESTAN LETTER HE
10B36..10B3B; UNASSIGNED # <reserved>..<reserved>
10B39..10B3F; DISALLOWED # AVESTAN ABBREVIATION MARK..LARGE ONE RING OVER NUMBER
10B40..10B55; PVALID # INSCRIPTIONAL PARTHIAN LETTER ALEPH..INSCRIPTIONAL PARTHIAN LETTER ALEPH
10B56..10B57; UNASSIGNED # <reserved>..<reserved>
10B58..10B5F; DISALLOWED # INSCRIPTIONAL PARTHIAN NUMBER ONE..INSCRIPTIONAL PARTHIAN NUMBER ONE
10B60..10B72; PVALID # INSCRIPTIONAL PAHLAVI LETTER ALEPH..INSCRIPTIONAL PAHLAVI LETTER ALEPH
10B73..10B77; UNASSIGNED # <reserved>..<reserved>
10B78..10B7F; DISALLOWED # INSCRIPTIONAL PAHLAVI NUMBER ONE..INSCRIPTIONAL PAHLAVI NUMBER ONE
10B80..10B91; PVALID # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAVI LETTER ALEPH
10B92..10B98; UNASSIGNED # <reserved>..<reserved>
10B99..10B9C; DISALLOWED # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAVI SECTION MARK
10B9D..10BA8; UNASSIGNED # <reserved>..<reserved>
10BA9..10BAC; DISALLOWED # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAVI NUMBER ONE
10BB0..10BFF; UNASSIGNED # <reserved>..<reserved>
10C00..10C48; PVALID # OLD TURKIC LETTER ORKHON A..OLD TURKIC LETTER ORKHON A
10C49..10C7F; UNASSIGNED # <reserved>..<reserved>
10C80..10CB2; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIAN CAPITAL LETTER A
10CB3..10CBF; UNASSIGNED # <reserved>..<reserved>
10CC0..10CF2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN SMALL LETTER A
10CF3..10CF9; UNASSIGNED # <reserved>..<reserved>
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMBER ONE
10D00..10D27; PVALID # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA LETTER A
10D28..10D2F; UNASSIGNED # <reserved>..<reserved>
10D30..10D39; PVALID # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA DIGIT ZERO
10D3A..10E5F; UNASSIGNED # <reserved>..<reserved>
10E60..10E7E; DISALLOWED # RUMI DIGIT ONE..RUMI FRACTION TWO THIRDS
10E7F..10EFF; UNASSIGNED # <reserved>..<reserved>
10F00..10F1C; PVALID # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LETTER ALEPH
10F1D..10F26; DISALLOWED # OLD SOGDIAN NUMBER ONE..OLD SOGDIAN FRACTION
10F27 ; PVALID # OLD SOGDIAN LIGATURE AYIN-DALETH
10F28..10F2F; UNASSIGNED # <reserved>..<reserved>
10F30..10F50; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN COMBINING STRO
10F51..10F59; DISALLOWED # SOGDIAN NUMBER ONE..SOGDIAN PUNCTUATION HALF
10F5A..10FFF; UNASSIGNED # <reserved>..<reserved>
11000..11046; PVALID # BRAHMI SIGN CANDRABINDU..BRAHMI VIRAMA
11047..1104D; DISALLOWED # BRAHMI DANDA..BRAHMI PUNCTUATION LOTUS
1104E..11051; UNASSIGNED # <reserved>..<reserved>
11052..11065; DISALLOWED # BRAHMI NUMBER ONE..BRAHMI NUMBER ONE THOUSAN
11066..1106F; PVALID # BRAHMI DIGIT ZERO..BRAHMI DIGIT NINE
11070..1107E; UNASSIGNED # <reserved>..<reserved>
1107F..110BA; PVALID # BRAHMI NUMBER JOINER..KAITHI SIGN NUKTA
110BB..110C1; DISALLOWED # KAITHI ABBREVIATION SIGN..KAITHI DOUBLE DAND
110C2..110CC; UNASSIGNED # <reserved>..<reserved>
110CD ; DISALLOWED # KAITHI NUMBER SIGN ABOVE
110CE..110CF; UNASSIGNED # <reserved>..<reserved>
110D0..110EB; PVALID # SORA SOMPENG LETTER SAH..SORA SOMPENG LETTER
110E9..110EF; UNASSIGNED # <reserved>..<reserved>
110F0..110F9; PVALID # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT
110FA..110FF; UNASSIGNED # <reserved>..<reserved>
11100..11134; PVALID # CHAKMA SIGN CANDRABINDU..CHAKMA MAAYYAA
11135 ; UNASSIGNED # <reserved>
11136..1113F; PVALID # CHAKMA DIGIT ZERO..CHAKMA DIGIT NINE
11140..11143; DISALLOWED # CHAKMA SECTION MARK..CHAKMA QUESTION MARK
11144..11146; PVALID # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
11147..1114F; UNASSIGNED # <reserved>..<reserved>
11150..11173; PVALID # MAHAJANI LETTER A..MAHAJANI SIGN NUKTA
11174..11175; DISALLOWED # MAHAJANI ABBREVIATION SIGN..MAHAJANI SECTION
11176 ; PVALID # MAHAJANI LIGATURE SHRI
11177..1117F; UNASSIGNED # <reserved>..<reserved>
11180..111C4; PVALID # SHARADA SIGN CANDRABINDU..SHARADA OM
111C5..111C8; DISALLOWED # SHARADA DANDA..SHARADA SEPARATOR
111C9..111CC; PVALID # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
111CD ; DISALLOWED # SHARADA SUTRA MARK
111CE..111CF; UNASSIGNED # <reserved>..<reserved>
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<td>SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N</td>
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<td>11200..11211</td>
<td>PVALID</td>
<td>KHOJKI LETTER A..KHOJKI LETTER JJA</td>
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<td>KHOJKI LETTER NYA..KHOJKI SIGN SHADDA</td>
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<td>KHOJKI DANDA..KHOJKI ABBREVIATION SIGN</td>
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<td>KHOJKI SIGN SUKUN</td>
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<td>MULTANI LETTER A..MULTANI LETTER GA</td>
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<td>MULTANI LETTER CA..MULTANI LETTER JJA</td>
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<td>MULTANI LETTER NYA..MULTANI LETTER BA</td>
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<td>MULTANI LETTER BHA..MULTANI LETTER RHA</td>
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<td>MULTANI SECTION MARK</td>
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<td>112B0..112EA</td>
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<td>KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA</td>
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<td>KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE</td>
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<td>GRANTHA SIGN COMBINING ANUSVARA ABOVE..GRANT</td>
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<td>GRANTHA LETTER A..GRANTHA LETTER VOCALIC L</td>
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<td>GRANTHA LETTER OO..GRANTHA LETTER NA</td>
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<td>GRANTHA LETTER PA..GRANTHA LETTER RA</td>
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<td>COMBINING BINDU BELOW..GRANTHA VOWEL SIGN VO</td>
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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 GRANTHA DIGIT NINE
1136D..1136F; UNASSIGNED # <reserved>..<reserved>
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHA OM
11375..1137F; 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..114DF; UNASSIGNED # <reserved>..<reserved>
115B0..115B5; PVALID  # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B6..115B7; UNASSIGNED # <reserved>..<reserved>
115B8..115C0; PVALID  # SIDDHAM VOWEL SIGN E..SIDDHAM SIGN NUKTA
115C1..115D7; DISALLOWED # SIDDHAM SIGN SIDDHAM..SIDDHAM SECTION MARK W
115D8..115DF; PVALID  # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SIDDHAM LETTER THREE-CIRCLE ALTERNATE I
115EE..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..116B7; PVALID  # TAKRI LETTER A..TAKRI SIGN NUKTA
116B8..116BF; UNASSIGNED # <reserved>..<reserved>
116C0..116C9; PVALID  # TAKRI DIGIT ZERO..TAKRI DIGIT NINE
116CA..116FF; UNASSIGNED # <reserved>..<reserved>
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
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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..118FF; 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..11A46; DISALLOWED  # 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..11A89; PVALID  # SOYOMBO LETTER A..SOYOMBO LETTER KSSA
11A84..11A85; UNASSIGNED  # <reserved>..<reserved>
11A86..11A89; PVALID  # SOYOMBO CLUSTER-INITIAL LETTER RA..SOYOMBO S
11A99A..11A9C; DISALLOWED  # SOYOMBO MARK TSHEG..SOYOMBO MARK DOUBLE SHAD
11A9D; PVALID  # SOYOMBO MARK PLUTA
11A9E..11A9F; DISALLOWED  # SOYOMBO HEAD MARK WITH MOON AND SUN AND TRIP
11AA3..11AAF; UNASSIGNED  # <reserved>..<reserved>
11AC0..11AF8; PVALID  # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
11AF9..11BFF; UNASSIGNED  # <reserved>..<reserved>
11C00..11C09; 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..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
11CBB7..11CCF; 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 LETTE
11D69 ; UNASSIGNED # <reserved>
11D6A..11D6E; PVALID  # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D6F ; UNASSIGNED # <reserved>
11D70..11D71; PVALID  # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI V
11D72 ; UNASSIGNED # <reserved>
11D73..11D78; PVALID  # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI O
11D79..11D7F; UNASSIGNED # <reserved>...<reserved>
11D80..11D86; PVALID  # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGI
11D87..11D8F; UNASSIGNED # <reserved>..<reserved>
11D90..11D91; PVALID  # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI V
11D92 ; UNASSIGNED # <reserved>
11D93..11D98; PVALID  # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI O
11D99..11D9F; UNASSIGNED # <reserved>...<reserved>
11DA0..11DA9; PVALID  # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGI
11DAA..11EDF; UNASSIGNED # <reserved>..<reserved>
11EE0..11EF6; PVALID  # MAKASAR LETTER KA..MAKASAR VOWEL SIGN O
11EF7..11EF8; DISALLOWED  # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11EF9..11FFF; 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 NU
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
12544..12FFF; UNASSIGNED # <reserved>...<reserved>
13000..1342F; PVALID  # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYP
1342F..1343FF; UNASSIGNED # <reserved>...<reserved>
14400..14646; PVALID  # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGL
14647..1467F; UNASSIGNED # <reserved>...<reserved>
16800..16A38; PVALID  # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16A39..16A3F; UNASSIGNED # <reserved>...<reserved>
16A40..16A5E; PVALID  # MRO LETTER TA..MRO LETTER TEK
16A5F ; UNASSIGNED # <reserved>
16A60..16A69; PVALID  # MRO DIGIT ZERO..MRO DIGIT NINE
16A6A..16A6D; UNASSIGNED # <reserved>...<reserved>
16A6E..16A6F; DISALLOWED  # MRO DANDA..MRO DOUBLE DANDA
16A70..16ACF; UNASSIGNED # <reserved>...<reserved>
16A80..16A8E; PVALID  # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16A9F..16AFF; UNASSIGNED # <reserved>...<reserved>
16AF0..16AF4; PVALID  # BASSA VAH COMBINING HIGH TONE..BASSA VAH COM
16AF5 ; DISALLOWED  # BASSA VAH FULL STOP
16AF6..16AFF; UNASSIGNED # <reserved>...<reserved>
16B00..16B36; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG MARK C
16B37..16B3F; DISALLOWED  # PAHAWH HMONG SIGN VOS THOM..PAHAWH HMONG SIG
16B40..16B43; PVALID  # PAHAWH HMONG SIGN VOS SEEV..PAHAWH HMONG SIG
16B44..16B45; DISALLOWED  # PAHAWH HMONG SIGN XAUS..PAHAWH HMONG SIGN CI
16B46..16B4F; UNASSIGNED  # <reserved>..<reserved>
16B50..16B59; PVALID  # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
16B5A; UNASSIGNED  # <reserved>
16B5B..16B61; DISALLOWED  # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBE
16B62; UNASSIGNED  # <reserved>
16B63..16B77; PVALID  # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN
16B78..16B7C; UNASSIGNED  # <reserved>..<reserved>
16B7D..16B8F; PVALID  # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
16B90..16E3F; UNASSIGNED  # <reserved>..<reserved>
16E40..16E5F; DISALLOWED  # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN CA
16E60..16E67; PVALID  # MEDEFAIDRIN SMALL LETTER M..MEDEFAIDRIN SMAL
16E68..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..16F7E; PVALID  # MIAO LETTER NASALIZATION..MIAO VOWEL SIGN NG
16F7F..16F8E; UNASSIGNED  # <reserved>..<reserved>
16F8F..16F9F; PVALID  # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
16FA0..16FDF; UNASSIGNED  # <reserved>..<reserved>
16FE0..16FEB; PVALID  # TANGUT ITERATION MARK..NUSHU ITERATION MARK
16FEC..16FEE; UNASSIGNED  # <reserved>..<reserved>
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>
1B000..1B11E; PVALID  # KATAKANA LETTER ARCHAIC E..HENTAIGANA LETTER
1B11F..1B16F; UNASSIGNED  # <reserved>..<reserved>
1B170..1B2FB; PVALID  # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1B2FC..1B3FF; UNASSIGNED  # <reserved>..<reserved>
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC6B..1BC6F; UNASSIGNED  # <reserved>..<reserved>
1BC7F..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..1CFF; UNASSIGNED  # <reserved>..<reserved>
1D000..1D05F; DISALLOWED  # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE MU
1D060..1D0FF; UNASSIGNED  # <reserved>..<reserved>
1D100..1D126; DISALLOWED  # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMBO
1D127..1D128; UNASSIGNED  # <reserved>..<reserved>
1D129..1D1E8; DISALLOWED # MUSICAL SYMBOL MULTIPLE MEASURE REST
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..1D37B; DISALLOWED # COUNTING ROD UNIT DIGIT ONE..TALLY MARK FIVE
1D379..1D3FF; UNASSIGNED # <reserved>..<reserved>
1D400..1D454; DISALLOWED # MATHEMATICAL BOLD CAPITAL A..MATHEMATICAL IT
1D455; UNASSIGNED # <reserved>
1D456..1D49C; DISALLOWED # MATHEMATICAL ITALIC SMALL I..MATHEMATICAL SC
1D49D; UNASSIGNED # <reserved>
1D49E..1D49F; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL C..MATHEMATICAL
1D4A0..1D4A1; UNASSIGNED # <reserved>..<reserved>
1D4A2; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL G
1D4A3..1D4A4; UNASSIGNED # <reserved>..<reserved>
1D4A5..1D4A6; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL J..MATHEMATICAL
1D4A7..1D4A8; UNASSIGNED # <reserved>..<reserved>
1D4A9..1D4AC; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL N..MATHEMATICAL
1D4AD; UNASSIGNED # <reserved>
1D4AE..1D4B9; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL
1D4BA; UNASSIGNED # <reserved>
1D4BB; DISALLOWED # MATHEMATICAL SCRIPT SMALL F
1D4BC; UNASSIGNED # <reserved>
1D4BD..1D4C3; DISALLOWED # MATHEMATICAL SCRIPT SMALL H..MATHEMATICAL SC
1D4C4; UNASSIGNED # <reserved>
1D4C5..1D505; DISALLOWED # MATHEMATICAL SCRIPT SMALL P..MATHEMATICAL FR
1D506; UNASSIGNED # <reserved>
1D507..1D50A; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL D..MATHEMATICAL
1D50B..1D50C; UNASSIGNED # <reserved>..<reserved>
1D50D..1D514; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL J..MATHEMATICAL
1D515; UNASSIGNED # <reserved>
1D516..1D51C; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL S..MATHEMATICAL
1D51D; UNASSIGNED # <reserved>
1D51E..1D539; DISALLOWED # MATHEMATICAL FRAKTUR SMALL A..MATHEMATICAL D
1D53A; UNASSIGNED # <reserved>
1D53B..1D53E; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL D..MATHEM
1D53F; UNASSIGNED # <reserved>
1D540..1D544; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL I..MATHEM
1D545; UNASSIGNED # <reserved>
1D546; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL O
1D547..1D549; UNASSIGNED # <reserved>..<reserved>
1D54A..1D550; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL S..MATHEM
1D551; UNASSIGNED # <reserved>
1D552..1D6A5; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK SMALL A..MATHEMAT
1D6A6..1D6A7; UNASSIGNED # <reserved>..<reserved>
1D6A8..1D7CB; DISALLOWED # MATHEMATICAL BOLD CAPITAL ALPHA..MATHEMATICA
1D7CC..1D7CD; UNASSIGNED # <reserved>..<reserved>
1D7CE..1D7FF; DISALLOWED # MATHEMATICAL BOLD DIGIT ZERO..SIGNWRITING HE
1DA00..1DA36; PVALID # SIGNWRITING HEAD RIM..SIGNWRITING AIR SUCKIN
1DA37..1DA3A; DISALLOWED # SIGNWRITING AIR BLOW SMALL ROTATIONS..SIGNWR
1DA3B..1DA6C; PVALID # SIGNWRITING MOUTH CLOSED NEUTRAL..SIGNWRITING
1DA6D..1DA74; DISALLOWED # SIGNWRITING SHOULDER HIP SPINE..SIGNWRITING
1DA75; PVALID # SIGNWRITING UPPER BODY TILTING FROM HIP JOIN
1DA76..1DA83; DISALLOWED # SIGNWRITING LIMP 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
1DA9A; UNASSIGNED # <reserved>
1DAA0..1DAA3; PVALID # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING
1DAA4..1DAA6; UNASSIGNED # <reserved>..<reserved>
1E000..1E006; PVALID # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E007; UNASSIGNED # <reserved>
1E008..1E018; PVALID # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBININ
1E019..1E01A; UNASSIGNED # <reserved>..<reserved>
1E01B..1E021; PVALID # COMBINING GLAGOLITIC LETTER SHTA..COMBINING
1E022; UNASSIGNED # <reserved>
1E023..1E024; PVALID # COMBINING GLAGOLITIC LETTER YU..COMBINING GL
1E025; UNASSIGNED # <reserved>
1E026..1E02A; PVALID # COMBINING GLAGOLITIC LETTER YO..COMBINING GL
1E02B..1E02F; UNASSIGNED # <reserved>..<reserved>
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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..1E9A4; 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>
1EC71..1ECB4; DISALLOWED # INDIC SIYAQ NUMBER ONE..INDIC SIYAQ ALTERNAT
1ECB5..1EDFF; UNASSIGNED # <reserved>..<reserved>
1EE00..1EE03; DISALLOWED # ARABIC MATHEMATICAL ALEF..ARABIC MATHEMATICA
1EE04; UNASSIGNED # <reserved>
1EE05..1EE1F; DISALLOWED # ARABIC MATHEMATICAL WAW..ARABIC MATHEMATICAL
1EE20; UNASSIGNED # <reserved>
1EE21..1EE22; DISALLOWED # ARABIC MATHEMATICAL INITIAL BEH..ARABIC MATH
1EE23; UNASSIGNED # <reserved>
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1EE25..1EE26; UNASSIGNED # <reserved>..<reserved>
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1EE9C..1EEA0; UNASSIGNED # <reserved>..<reserved>
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1EEA4; UNASSIGNED # <reserved>
1EEA5..1EEA9; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK WAW..ARABI
1EEAA; UNASSIGNED # <reserved>
1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
1EEBC..1EEEF; UNASSIGNED # <reserved>..<reserved>
1EEF0..1EEF1; DISALLOWED # ARABIC MATHEMATICAL OPERATOR MEEM WITH HAH W
1EEF2..1EEF5; UNASSIGNED # <reserved>..<reserved>
1F000..1F02B; DISALLOWED # MAHJONG TILE EAST WIND..MAHJONG TILE BACK
1F02C..1F02F; UNASSIGNED # <reserved>..<reserved>
1F030..1F093; DISALLOWED # DOMINO TILE HORIZONTAL BACK..DOMINO TILE VER
1F094..1F09F; UNASSIGNED # <reserved>..<reserved>
1F0A0..1F0AE; DISALLOWED # PLAYING CARD BACK..PLAYING CARD KING OF SPADE
1F0AF..1F0B0; UNASSIGNED # <reserved>..<reserved>
1F0B1..1F0BF; DISALLOWED # PLAYING CARD ACE OF HEARTS..PLAYING CARD RED
1F0C0; UNASSIGNED # <reserved>
1F0C1..1F0CF; DISALLOWED # PLAYING CARD ACE OF DIAMONDS..PLAYING CARD B
1F0D0; UNASSIGNED # <reserved>
1F0D1..1F0F5; DISALLOWED # PLAYING CARD ACE OF CLUBS..PLAYING CARD TRUM
1F0F6..1F0FF; UNASSIGNED # <reserved>..<reserved>
1F100..1F10C; DISALLOWED # DIGIT ZERO FULL STOP..DINGBAT NEGATIVE CIRC
1F10D..1F10F; UNASSIGNED # <reserved>..<reserved>
1F110..1F16B; DISALLOWED # PARENTHESESIZED LATIN CAPITAL LETTER A..RAISE
1F16C..1F16F; UNASSIGNED # <reserved>..<reserved>
1F170..1F17C; DISALLOWED # NEGATIVE SQUARED LATIN CAPITAL LETTER A..SQUA
1F18D..1F18F; UNASSIGNED # <reserved>..<reserved>
1F196..1F1A2; DISALLOWED # REGIONAL INDICATOR SYMBOL LETTER A..SQUARED
1F1B3..1F1BF; UNASSIGNED # <reserved>..<reserved>
1F1C0..1F1C6; DISALLOWED # SQUARED CJK UNIFIED IDEOGRAPH-624B..SQUARE
1F1C7..1F1CF; UNASSIGNED # <reserved>..<reserved>
1F1D0..1F1D8; DISALLOWED # TORTOISE SHELL BRACKETED CJK UNIFIED IDEOGRAPH
1F1D9..1F1DA; UNASSIGNED # <reserved>..<reserved>
1F1E0..1F1E8; DISALLOWED # CIRCLED IDEOGRAPH ADVANTAGE..CIRCLED IDEOGRAPH
1F1E9..1F1E9; UNASSIGNED # <reserved>..<reserved>
1F1F0..1F1F6; DISALLOWED # ROUNDED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F1F7..1F1FF; UNASSIGNED # <reserved>..<reserved>
1F200..1F214; DISALLOWED # CYCLONE..PAODA
1F215..1F21F; UNASSIGNED # <reserved>..<reserved>
1F220..1F228; DISALLOWED # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F229..1F22F; UNASSIGNED # <reserved>..<reserved>
1F230..1F238; DISALLOWED # SATELLITE..SKATEBOARD
1F239..1F23F; UNASSIGNED # <reserved>..<reserved>
1F240..1F27A; DISALLOWED # ALCHEMICAL SYMBOL FOR QUINTESSENCE..ALCHEMIC
1F27B..1F27F; UNASSIGNED # <reserved>..<reserved>
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1F780..1F7D8; DISALLOWED # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F7D9..1F7FF; UNASSIGNED # <reserved>..<reserved>
1F800..1F80B; DISALLOWED # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEAD
1F80C..1F80F; UNASSIGNED # <reserved>..<reserved>
1F810..1F847; DISALLOWED # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F848..1F84F; UNASSIGNED # <reserved>..<reserved>
1F850..1F859; DISALLOWED # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SERIF
1F85A..1F85F; UNASSIGNED # <reserved>..<reserved>
1F860..1F887; DISALLOWED # WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE
1F888..1F88F; UNASSIGNED # <reserved>..<reserved>
1F890..1F89D; DISALLOWED # LEFTWARDS TRIANGLE ARROWHEAD..WHITE ARROW SHO
1F89E..1F8FF; UNASSIGNED # <reserved>..<reserved>
1F900..1F90B; DISALLOWED # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWARD
1F90C..1F90F; UNASSIGNED # <reserved>..<reserved>
1F910..1F93E; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F93F..1F940; DISALLOWED # FACE WITH PLEADING EYES
1F941..1F97F; UNASSIGNED # <reserved>..<reserved>
1F980..1F9A2; DISALLOWED # LAB COAT..SWAN
1F9A3..1F9AF; UNASSIGNED # <reserved>..<reserved>
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1F9C3..1F9CF; UNASSIGNED # <reserved>..<reserved>
1F9D0..1F9FF; DISALLOWED # FACE WITH MONOCLE..NAZAR AMULET
1FA00..1FA5F; UNASSIGNED # <reserved>..<reserved>
1FA60..1FA6D; DISALLOWED # XIANGQI RED GENERAL..XIANGQI BLACK SOLDIER
1FA6E..1FFFD; UNASSIGNED # <reserved>..<reserved>
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