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, 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 was 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 DISSALOWED to PVALID while U+19DA had a change in derived property value from PVALID to DISALLOWED. They where 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]
o 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.

o 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).

o 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.

o 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:

o 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 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 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 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

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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.

037F ; DISALLOWED # GREEK CAPITAL LETTER YOT
0528..052F ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK..C
058D..058E ; DISALLOWED # RIGHT-FACING ARMENIAN ETERNITY SIGN..LEFT-FA
0605 ; DISALLOWED # ARABIC NUMBER MARK ABOVE
08A1 ; PVALID # ARABIC LETTER BEH WITH HAMZA ABOVE
08AD..08B2 ; PVALID # ARABIC LETTER LOW ALEF..ARABIC LETTER ZAIN W
08FF ; PVALID # ARABIC MARK SIDEWAYS NOON GHUNNA
0978 ; PVALID # DEVANAGARI LETTER MARWARI DDA
0980 ; PVALID # BENGALI ANJI
0C00 ; PVALID # TELUGU SIGN COMBINING CANDRABINDU ABOVE
0C34 ; PVALID # TELUGU LETTER LLLA
0C81 ; PVALID # KANNADA SIGN CANDRABINDU
0D01 ; PVALID # MALAYALAM SIGN CANDRABINDU
0DE6..0DEF ; PVALID # SINHALA LITH DIGIT ZERO..SINHALA LITH DIGIT
16F1..16F8 ; PVALID # RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A
191D..191E ; PVALID # LIMBU LETTER GYAN..LIMBU LETTER TRA
1AB0..1ABE ; PVALID # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
1CF8..1CF9 ; PVALID # VEDIC TONE RING ABOVE..VEDIC TONE DOUBLE RIN
1DE7..1DF5 ; PVALID # COMBINING LATIN SMALL LETTER ALPHA..COMBININ
20BB..20BD  ; DISALLOWED  # NORDIC MARK SIGN..RUBLE SIGN
23F4..23FA  ; DISALLOWED  # BLACK MEDIUM LEFT-POINTING TRIANGLE..BLACK C
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 PERMIC LETTER AN..COMBINING OLD PERMIC L
10500..10527; PVALID  # ELBASAN LETTER A..ELBASAN LETTER KHE
10530..10563; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
1056F       ; DISALLOWED  # CAUCASIAN ALBANIAN CITATION MARK
10600..10736; PVALID  # LINEAR A SIGN AB001..LINEAR A SIGN A664
10740..10755; PVALID  # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10760..10767; PVALID  # LINEAR A SIGN A800..LINEAR A SIGN A807
10860..1089E; PVALID  # PALMYRENE LETTER ALEPH..NABATAEAN LETTER TAW
108A7..108AF; DISALLOWED  # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
10A80..10A9F; PVALID  # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10AC0..10AE6; PVALID  # MANICHAEAN LETTER ALEPH..MANICHAEAN ABBREVI
10AE8..10AF6; DISALLOWED  # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATIO
10BB0..10BB1; PVALID  # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10BB9..10BB9C; DISALLOWED  # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10BA9..10BAF; DISALLOWED  # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAV
1107F       ; PVALID  # BRAHMI NUMBER JOINER
11150..11176; PVALID  # MAHAJANI LETTER A..MAHAJANI LIGATURE SHRI
111CD       ; DISALLOWED  # SHARADA SUTRA MARK
111DA       ; PVALID  # SHARADA EKAM
111E1..111F4; DISALLOWED  # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
11200..11211; PVALID  # KOHIJU LETTER A..KOHIJU LETTER JJA
11213..1123D; PVALID  # KOHIJU LETTER NYA..KOHIJU ABBREVIATION SIGN
112B0..112EA; PVALID  # KHUWDAWILI LETTER A..KHUWDAWILI SIGN VIRAMA
112F0..112F9; PVALID  # KHUWDAWILI DIGIT ZERO..KHUWDAWILI DIGIT NINE
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11301..11303; PVALID  # GRANTHA SIGN CANDRABINDU..GRANTHA SIGN VISAR
11305..1130C; PVALID  # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130F..11310; PVALID  # GRANTHA LETTER EE..GRANTHA LETTER AI
11313..11318; PVALID  # GRANTHA LETTER OO..GRANTHA LETTER NA
1132A..11330; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11332..11337; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LLA
11339..11344; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
11346..1134C; PVALID  # GRANTHA SIGN NUKTA..GRANTHA VOWEL SIGN VOCAL
1134E..1134F; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
11350..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 L
11480..11487; PVALID  # TIRHUTA ANJI..TIRHUTA OM
115B8..115C9; PVALID  # SIDDHAM VOWEL SIGN E..SIDDHAM END OF TEXT MARK
11650..11659; PVALID  # MODI LETTER A..MODI DIGIT ZERO
1165A..1165F; PVALID  # MODI LETTER TEK..MODI DIGIT NINE
116A0..116AF; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI CAPITAL LETTER E
116A0..116AF; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI CAPITAL LETTER E
116A0..116AF; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI CAPITAL LETTER E
116A0..116AF; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI CAPITAL LETTER E
116A0..116AF; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI CAPITAL LETTER E
116A0..116AF; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI CAPITAL LETTER E
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<td>NORTH WEST POINTING LEAF..REVERSE CHECKER BO</td>
</tr>
<tr>
<td>1F6C6..1F6CF</td>
<td>DISALLOWED</td>
<td>TRIANGLE WITH ROUNDED CORNERS..BED</td>
</tr>
<tr>
<td>1F6E0..1F6EC</td>
<td>DISALLOWED</td>
<td>HAMMER AND WRENCH..AIRPLANE ARRIVING</td>
</tr>
<tr>
<td>1F6F0..1F6F3</td>
<td>DISALLOWED</td>
<td>SATELLITE..PASSSENGER SHIP</td>
</tr>
<tr>
<td>1F800..1F80B</td>
<td>DISALLOWED</td>
<td>LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEA</td>
</tr>
<tr>
<td>1F810..1F847</td>
<td>DISALLOWED</td>
<td>LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW</td>
</tr>
<tr>
<td>1F850..1F859</td>
<td>DISALLOWED</td>
<td>LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SER</td>
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<tr>
<td>1F860..1F887</td>
<td>DISALLOWED</td>
<td>WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE</td>
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### Appendix B. Changes from Unicode 7.0.0 to Unicode 8.0.0

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

<table>
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<tr>
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<td>PVALID</td>
<td>ARABIC LETTER AIN WITH THREE DOTS BELOW..ARA</td>
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<tr>
<td>08E3</td>
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<td>ARABIC TURNED DAMMA BELOW</td>
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<td>0AF9</td>
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<td>GUJARATI LETTER ZHA</td>
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<td>PVALID</td>
<td>TELUGU LETTER RRRA</td>
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<td>0D5F</td>
<td>PVALID</td>
<td>MALAYALAM LETTER ARCHAIC II</td>
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<td>PVALID</td>
<td>CHEROKEE LETTER MV</td>
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<tr>
<td>13F8..13FD</td>
<td>DISALLOWED</td>
<td>CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET</td>
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<td>20BE</td>
<td>DISALLOWED</td>
<td>LARI SIGN</td>
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<tr>
<td>218A..218B</td>
<td>DISALLOWED</td>
<td>TURNED DIGIT TWO..TURNED DIGIT THREE</td>
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<tr>
<td>2BEC..2BEF</td>
<td>DISALLOWED</td>
<td>LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARR</td>
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<td>&lt;CJK Ideograph&gt;..&lt;CJK Ideograph&gt;</td>
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<td>A69E</td>
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<td>COMBINING CYRILLIC LETTER EF</td>
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<td>PVALID</td>
<td>LATIN LETTER SINOLOGICAL DOT</td>
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<td>LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LA</td>
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<td>DISALLOWED</td>
<td>DEVANAGARI SIGN SIDDHAM..DEVANAGARI JAIN OM</td>
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<td>LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LE</td>
</tr>
<tr>
<td>AB70..ABBF</td>
<td>DISALLOWED</td>
<td>CHEROKEE SMALL LETTER A..CHEROKEE SMALL LET</td>
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FE2E..FE2F ; PVALID # COMBINING CYRILLIC TITLO LEFT HALF..COMBINING CYRILLIC TITLO RIGHT HALF
108E0..108F2; PVALID # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F4..108F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
108FB..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
109BC..109BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIVE NUMBER ONE HUNDRED
10C80..10CB2; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIAN CAPITAL LETTER Z
10CC0..10CF2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN SMALL LETTER Z
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMBER ONE HUNDRED
111C9..111CC; DISALLOWED # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOWEL
11280..11286; PVALID # MULTANI LETTER A..MULTANI LETTER GA
11288 ; PVALID # MULTANI LETTER GHA
1128A..1128D; PVALID # MULTANI LETTER CA..MULTANI LETTER JJA
1128F..1129D; PVALID # MULTANI LETTER NYA..MULTANI LETTER BA
1129F..112A9; PVALID # MULTANI LETTER BHA..MULTANI SECTION MARK
11300 ; PVALID # GRANTHA SIGN COMBINING ANUSVARA ABOVE
11350 ; PVALID # GRANTHA OM
115CA..115DD; DISALLOWED # SIDDHAM SECTION MARK WITH TRIDENT AND U-SHAPE
11700..11719; PVALID # AHOM LETTER KA..AHOM LETTER JHA
1171D..1172B; PVALID # AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KI
11730..1173F; PVALID # AHOM DIGIT ZERO..AHOM SYMBOL VI
12399 ; PVALID # CUNEIFORM SIGN U U
12480..12543; PVALID # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM SIGN AB TIMES NUN TENU
14400..14646; PVALID # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGLYPH A001
1D1DE..1D1E8; DISALLOWED # MUSICAL SYMBOL KIEVAN C CLEF..MUSICAL SYMBOL KIEVAN C CLEF
1D800..1DA8B; DISALLOWED # SIGNWRITING HAND-FIST INDEX..SIGNWRITING HAND-FIST INDEX
1DA9B..1DA9F; PVALID # SIGNWRITING FILL MODIFIER-2..SIGNWRITING FILL MODIFIER-2
1DAA1..1DAAF; PVALID # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING ROTATION MODIFIER-2
1F32D..1F32F; DISALLOWED # HOT DOG..BURRITO
1F37E..1F37F; DISALLOWED # BOTTLE WITH POPPING CORK..POPCORN
1F643..1F644; DISALLOWED # UPSIDE-DOWN FACE..FACE WITH ROLLING EYES
1F60D ; PALLOWED # PLACE OF WORSHIP
1F910..1F918; DISALLOWED # ZIPPER-MOUTH FACE..SIGN OF THE HORNS
1F980..1F984; DISALLOWED # CRAB..UNICORN FACE
1F9C0 ; DISALLOWED # CHEESE WEDGE

Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

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

08B6..08BD ; PVALID # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08D4..08E2 ; PVALID  # ARABIC SMALL HIGH WORD AR-RUB..ARABIC DISPUT
0C80 ; PVALID  # KANNADA SIGN SPACING CANDRABINDU
0D4F ; DISALLOWED  # MALAYALAM SIGN PARA
0D54..0D56 ; PVALID  # MALAYALAM LETTER CHILLU M..MALAYALAM LETTER
0D58..0D5E ; DISALLOWED  # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D76..0D78 ; DISALLOWED  # MALAYALAM FRACTION ONE SIXTEENTH..MALAYALAM
1C80..1C88 ; DISALLOWED  # CYRILLIC SMALL LETTER ROUNDED VE..CYRILLIC S
1DFB ; PVALID  # COMBINING DELETION MARK
23FB..23FE ; DISALLOWED  # POWER SYMBOL..POWER SLEEP SYMBOL
2E43..2E44 ; DISALLOWED  # DASH WITH LEFT UPTURN..DOUBLE SUSPENSION MAR
A7AE ; DISALLOWED  # LATIN CAPITAL LETTER SMALL CAPITAL I
A8C5 ; PVALID  # SAURASHTRA SIGN CANDRABINDU
1018D..1018E; DISALLOWED  # GREEK INDICATION SIGN..NOMISMA SIGN
104B0..104D3; DISALLOWED  # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D8..104FB; PVALID  # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
1123E ; PVALID  # KOJIKI SIGN SUKUN
11400..11459; PVALID  # NEWA LETTER A..NEWA DIGIT NINE
1145B ; DISALLOWED  # NEWA PLACEHOLDER MARK
1145D ; DISALLOWED  # NEWA INSERTION SIGN
11660..1166C; DISALLOWED  # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
11C38..11C45; PVALID  # BHAIKSUKE VOWEL SIGN E..BHAIKSUKE GAP FILLER
11C50..11C6C; PVALID  # BHAIKSUKE DIGIT ZERO..BHAIKSUKE HUNDREDS UNI
11C70..11C8F; DISALLOWED  # MARCHEN HEAD MARK..MARCHEN LETTER A
11C92..11CA7; PVALID  # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
1F930 ..1F93E; DISALLOWED  # CALL ME HAND..HAND WITH INDEX AND MIDDLE FIN
1F950..1F959; PVALID  # ADLAM CAPITAL LETTER ALIF..ADLAM NUKTA
1F95E..1E95F; DISALLOWED  # ADLAM INITIAL EXCLAMATION MARK..ADLAM INITIA
1F97A ; DISALLOWED  # MAN DANCING
1F9A4 ; DISALLOWED  # BLACK HEART
1F601..1F602; DISALLOWED  # OCTAGONAL SIGN..SHOPPING TROLLEY
1F606..1F60F; DISALLOWED  # SCOOTER..CANOE
1F919..1F91E; DISALLOWED  # CALL ME HAND..HAND WITH INDEX AND MIDDLE FIN
1F920..1F927; DISALLOWED  # FACE WITH COWBOY HAT..SNEEZING FACE
1F9E0 ; DISALLOWED  # PREGNANT WOMAN
1F9E3..1F9E6; 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..1B2FB; 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..1F908; 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..1F96B; 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 # GURMUKHI ABBREVIATION SIGN
0C04 ; PVALID # TELUGU SIGN COMBINING ANUSVARA ABOVE
0C84 ; DISALLOWED # KANNADA SIGN SIDDHAM
1878 ; PVALID # MONGOLIAN LETTER CHA WITH TWO DOTS
1C90..1CBA ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBD..1CBF ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..GEORGIA
2BBB..2BBC ; DISALLOWED # OVERLAPPING WHITE SQUARES..OVERLAPPING BLACK
2BD3..2BEB ; DISALLOWED # PLUTO FORM TWO..STAR WITH RIGHT HALF BLACK
2BF0..2BFE ; DISALLOWED # ERIK 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 # KHALSHTHI LETTER TTTA..KHALSHTHI LETTER VH
10A48 ; DISALLOWED # KHALSHTHI 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 # KAIITH 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 # SOYOMO MARK PLUTA
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D67..11D68; PVALID # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTE
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
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Appendix F. Code points in Unicode Character Database (UCD) format for Unicode 11.0.0
010D        ; PVALID      # LATIN SMALL LETTER C WITH CARON
010E        ; DISALLOWED # LATIN CAPITAL LETTER D WITH CARON
010F        ; PVALID      # LATIN SMALL LETTER D WITH CARON
0110        ; DISALLOWED # LATIN CAPITAL LETTER D WITH STROKE
0111        ; PVALID      # LATIN SMALL LETTER D WITH STROKE
0112        ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON
0113        ; PVALID      # LATIN SMALL LETTER E WITH MACRON
0114        ; DISALLOWED # LATIN CAPITAL LETTER E WITH BREVE
0115        ; PVALID      # LATIN SMALL LETTER E WITH BREVE
0116        ; DISALLOWED # LATIN CAPITAL LETTER E WITH DOT ABOVE
0117        ; PVALID      # LATIN SMALL LETTER E WITH DOT ABOVE
0118        ; DISALLOWED # LATIN CAPITAL LETTER E WITH OGONEK
0119        ; PVALID      # LATIN SMALL LETTER E WITH OGONEK
011A        ; DISALLOWED # LATIN CAPITAL LETTER E WITH CARON
011B        ; PVALID      # LATIN SMALL LETTER E WITH CARON
011C        ; DISALLOWED # LATIN CAPITAL LETTER G WITH CIRCUMFLEX
011D        ; PVALID      # LATIN SMALL LETTER G WITH CIRCUMFLEX
011E        ; DISALLOWED # LATIN CAPITAL LETTER G WITH BREVE
011F        ; PVALID      # LATIN SMALL LETTER G WITH BREVE
0120        ; DISALLOWED # LATIN CAPITAL LETTER G WITH DOT ABOVE
0121        ; PVALID      # LATIN SMALL LETTER G WITH DOT ABOVE
0122        ; DISALLOWED # LATIN CAPITAL LETTER G WITH CEDILLA
0123        ; PVALID      # LATIN SMALL LETTER G WITH CEDILLA
0124        ; DISALLOWED # LATIN CAPITAL LETTER H WITH CIRCUMFLEX
0125        ; PVALID      # LATIN SMALL LETTER H WITH CIRCUMFLEX
0126        ; DISALLOWED # LATIN CAPITAL LETTER H WITH STROKE
0127        ; PVALID      # LATIN SMALL LETTER H WITH STROKE
0128        ; DISALLOWED # LATIN CAPITAL LETTER I WITH TILDE
0129        ; PVALID      # LATIN SMALL LETTER I WITH TILDE
012A        ; DISALLOWED # LATIN CAPITAL LETTER I WITH MACRON
012B        ; PVALID      # LATIN SMALL LETTER I WITH MACRON
012C        ; DISALLOWED # LATIN CAPITAL LETTER I WITH BREVE
012D        ; PVALID      # LATIN SMALL LETTER I WITH BREVE
012E        ; DISALLOWED # LATIN CAPITAL LETTER I WITH OGONEK
012F        ; PVALID      # LATIN SMALL LETTER I WITH OGONEK
0130        ; DISALLOWED # LATIN CAPITAL LETTER I WITH DOT ABOVE
0131        ; PVALID      # LATIN SMALL LETTER DOTLESS I
0132..0134  ; DISALLOWED # LATIN CAPITAL LIGATURE IJ..LATIN CAPITAL LET
0135        ; PVALID      # LATIN SMALL LETTER J WITH CIRCUMFLEX
0136        ; DISALLOWED # LATIN CAPITAL LETTER K WITH CEDILLA
0137..0138  ; PVALID      # LATIN SMALL LETTER K WITH CEDILLA..LATIN SMA
0139        ; DISALLOWED # LATIN CAPITAL LETTER L WITH ACUTE
013A        ; PVALID      # LATIN SMALL LETTER L WITH ACUTE
013B        ; DISALLOWED # LATIN CAPITAL LETTER L WITH CEDILLA
013C        ; PVALID      # LATIN SMALL LETTER L WITH CEDILLA
013D        ; DISALLOWED # LATIN CAPITAL LETTER L WITH CARON
013E        ; PVALID      # LATIN SMALL LETTER L WITH CARON
013F..0141  ; DISALLOWED # LATIN CAPITAL LETTER L WITH MIDDLE DOT..LATI
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0177  ; PVALID      # LATIN SMALL LETTER Y WITH CIRCUMFLEX
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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 L
0188        ; PVALID      # LATIN SMALL LETTER C WITH HOOK
0189..018B  ; DISALLOWED # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL
018C..018D  ; PVALID      # LATIN SMALL LETTER D WITH TOPBAR..LATIN SMALL
018E..0191  ; DISALLOWED # LATIN CAPITAL LETTER REVERSED E..LATIN CAPITAL
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 LET
0199..019B  ; PVALID      # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL
019C..019D  ; DISALLOWED # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL
019E        ; PVALID      # LATIN SMALL LETTER N WITH LONG RIGHT LEG
019F..01A0  ; DISALLOWED # LATIN CAPITAL LETTER O WITH MIDDLE TILDE..LA
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01A2        ; DISALLOWED # LATIN CAPITAL LETTER OI
01A3        ; PVALID      # LATIN SMALL LETTER OI
01A4        ; DISALLOWED # LATIN CAPITAL LETTER P WITH HOOK
01A5        ; PVALID      # LATIN SMALL LETTER P WITH HOOK
01A6..01A7  ; DISALLOWED # LATIN LETTER YR..LATIN CAPITAL LETTER TONE TWO
01A8        ; PVALID      # LATIN SMALL LETTER TONE TWO
01A9        ; DISALLOWED # LATIN CAPITAL LETTER ESH
01AA..01AB  ; PVALID      # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL
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 LETT
01B9..01BB  ; PVALID  # LATIN SMALL LETTER EZH REVERSED..LATIN LETTER
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 CA
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
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01D9        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND CA
01DA        ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND CARO
01DB        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND GR
01DC..01DD  ; PVALID  # LATIN SMALL LETTER U WITH DIAERESIS AND GRAV
01DE        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DIAERESIS AND MA
01DF        ; PVALID  # LATIN SMALL LETTER A WITH DIAERESIS AND MACR
01E0        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT ABOVE AND MA
01E1        ; PVALID  # LATIN SMALL LETTER A WITH DOT ABOVE AND MACR
01E2        ; DISALLOWED  # LATIN CAPITAL LETTER AE WITH MACRON
01E3        ; PVALID  # LATIN SMALL LETTER AE WITH MACRON
01E4        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH STROKE
01E5        ; PVALID  # LATIN SMALL LETTER G WITH STROKE
01E6        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH CARON
01E7        ; PVALID  # LATIN SMALL LETTER G WITH CARON
01E8        ; DISALLOWED  # LATIN CAPITAL LETTER K WITH CARON
01E9        ; PVALID  # LATIN SMALL LETTER K WITH CARON
01EA        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK
01EB        ; PVALID  # LATIN SMALL LETTER O WITH OGONEK
01EC        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK AND MACRO
01ED        ; PVALID  # LATIN SMALL LETTER O WITH OGONEK AND MACRON
01EE        ; DISALLOWED  # LATIN CAPITAL LETTER EZH WITH CARON
01EF..01F0  ; PVALID  # LATIN SMALL LETTER EZH WITH CARON..LATIN SMA
01F1..01F4  ; DISALLOWED  # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETT
01F5        ; PVALID  # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  ; DISALLOWED  # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LE
01F9        ; PVALID  # LATIN SMALL LETTER N WITH GRAVE
01FA        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH RING ABOVE AND A
01FB        ; PVALID  # LATIN SMALL LETTER A WITH RING ABOVE AND ACU
01FC        ; DISALLOWED  # LATIN CAPITAL LETTER AE WITH ACUTE
01FD        ; PVALID  # LATIN SMALL LETTER AE WITH ACUTE
01FE        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
01FF        ; PVALID  # LATIN SMALL LETTER O WITH STROKE AND ACUTE
0200        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
0201 ; PVALID    # LATIN SMALL LETTER A WITH DOUBLE GRAVE
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0207 ; PVALID    # LATIN SMALL LETTER E WITH INVERTED BREVE
0208 ; DISALLOWED # LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
0209 ; PVALID    # LATIN SMALL LETTER I WITH DOUBLE GRAVE
020A ; DISALLOWED # LATIN CAPITAL LETTER I WITH INVERTED BREVE
020B ; PVALID    # LATIN SMALL LETTER I WITH INVERTED BREVE
020C ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
020D ; PVALID    # LATIN SMALL LETTER O WITH DOUBLE GRAVE
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020F ; PVALID    # LATIN SMALL LETTER O WITH INVERTED BREVE
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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
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0229 ; PVALID    # LATIN SMALL LETTER E WITH CEDILLA
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022B ; PVALID    # LATIN SMALL LETTER O WITH DIAERESIS 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
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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
023A..023B ; DISALLOWED # LATIN CAPITAL LETTER A WITH STROKE..LATIN CAPITAL
023C ; PVALID # LATIN SMALL LETTER C WITH STROKE
023D..023E ; DISALLOWED # LATIN CAPITAL LETTER L WITH BAR..LATIN CAPITAL
023F..0240 ; PVALID # LATIN SMALL LETTER S WITH SWASH TAIL..LATIN CAPITAL
0241 ; DISALLOWED # LATIN CAPITAL LETTER GLOTTAL STOP
0242 ; PVALID # LATIN SMALL LETTER GLOTTAL STOP
0243..0246 ; DISALLOWED # LATIN CAPITAL LETTER B WITH STROKE..LATIN CAPITAL
0247 ; PVALID # LATIN SMALL LETTER E WITH STROKE
0248 ; DISALLOWED # LATIN CAPITAL LETTER J WITH STROKE
0249 ; PVALID # LATIN SMALL LETTER J WITH STROKE
024A ; DISALLOWED # LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
024B ; PVALID # LATIN SMALL LETTER Q WITH HOOK TAIL
024C ; DISALLOWED # LATIN CAPITAL LETTER R WITH STROKE
024D ; PVALID # LATIN SMALL LETTER R WITH STROKE
024E ; DISALLOWED # LATIN CAPITAL LETTER Y WITH STROKE
024F..02AF ; PVALID # LATIN SMALL LETTER Y WITH STROKE..LATIN SMALL
02B0..02B8 ; DISALLOWED # MODIFIER LETTER SMALL H..MODIFIER LETTER SMALL
02B9..02C1 ; PVALID # MODIFIER LETTER PRIME..MODIFIER LETTER REVERSED
02C2..02C5 ; DISALLOWED # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LETTER REVERSED
02C6..02D1 ; PVALID # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER LETTER CIRCUMFLEX ACCENT
02D2..02EB ; DISALLOWED # MODIFIER LETTER CENTRED RIGHT HALF RING..MODIFIER LETTER CENTRED RIGHT HALF RING
02EC ; PVALID # MODIFIER LETTER VOICING
02ED ; DISALLOWED # MODIFIER LETTER UNASPIRATED
02EE ; PVALID # MODIFIER LETTER DOUBLE APOSTROPHE
02EF..02FF ; DISALLOWED # MODIFIER LETTER LOW DOWN ARROWHEAD..MODIFIER LETTER LOW DOWN ARROWHEAD
0300..033F ; PVALID # COMBINING GRAVE ACCENT..COMBINING DOUBLE ACCENT
0340..0341 ; DISALLOWED # COMBINING GRAVE TONE MARK..COMBINING ACUTE TONE MARK
0342 ; PVALID # COMBINING GREEK PERISPOMENI
0343..0345 ; DISALLOWED # COMBINING GREEK KORONIS..COMBINING GREEK KORONIS
0346..034E ; PVALID # COMBINING BRIDGE ABOVE..COMBINING UPWARDS ARROW
034F ; DISALLOWED # COMBINING GRAPHEME JOINER
0350..037D ; PVALID # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING RIGHT ARROWHEAD ABOVE
037E..037F ; DISALLOWED # GREEK CAPITAL LETTER HETA..GREEK CAPITAL LETTER HETA
037A ; DISALLOWED # GREEK SMALL LETTER HETA
037B..037D ; PVALID # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GREEK SMALL REVERSED LUNATE SIGMA SYMBOL
037E..037F ; DISALLOWED # GREEK QUESTION MARK..GREEK CAPITAL LETTER YO
0380..0383 ; UNASSIGNED # <reserved>..<reserved>
0384..038A ; DISALLOWED # GREEK TONOS..GREEK CAPITAL LETTER IOTA WITH TONOS
038B ; UNASSIGNED # <reserved>
038C ; DISALLOWED # GREEK CAPITAL LETTER OMICRON WITH TONOS
038D ; UNASSIGNED # <reserved>
038E..038F ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH TONOS..GREEK CAPITAL LETTER Upsilon WITH DIALYTIKA AND TONOS
0390 ; PVALID # GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS
0391..03A1 ; DISALLOWED # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LETTER Omega
03A2 ; UNASSIGNED # <reserved>
03A3..03AB ; DISALLOWED # GREEK CAPITAL LETTER SIGMA..GREEK CAPITAL LETTER Sigma
03AC..03CE ; PVALID # GREEK SMALL LETTER ALPHA WITH TONOS..GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS
03CF..03D6 ; DISALLOWED # GREEK CAPITAL KAI SYMBOL..GREEK PI SYMBOL
03D7 ; PVALID # GREEK KAI SYMBOL
03D8 ; DISALLOWED # GREEK LETTER ARCHAIC KOPPA
03D9 ; PVALID # GREEK SMALL LETTER ARCHAIC KOPPA
03DA ; DISALLOWED # GREEK LETTER STIGMA
03DB ; PVALID # GREEK SMALL LETTER STIGMA
03DC ; DISALLOWED # GREEK LETTER DIGAMMA
03DD ; PVALID # GREEK SMALL LETTER DIGAMMA
03DE ; DISALLOWED # GREEK LETTER KOPPA
03DF ; PVALID # GREEK SMALL LETTER KOPPA
03E0 ; DISALLOWED # GREEK LETTER SAMPI
03E1 ; PVALID # GREEK SMALL LETTER SAMPI
03E2 ; DISALLOWED # COPTIC CAPITAL LETTER SHEI
03E3 ; PVALID # COPTIC SMALL LETTER SHEI
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03E9 ; PVALID # COPTIC SMALL LETTER HORI
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03EB ; PVALID # COPTIC SMALL LETTER GANGIA
03EC ; DISALLOWED # COPTIC CAPITAL LETTER SHIMA
03ED ; PVALID # COPTIC SMALL LETTER SHIMA
03EE ; DISALLOWED # COPTIC CAPITAL LETTER DEI
03EF ; PVALID # COPTIC SMALL LETTER DEI
03F0..03F2 ; DISALLOWED # GREEK KAPPA SYMBOL..GREEK LUNATE SIGMA SYMBOL
03F3 ; PVALID # GREEK LETTER YOT
03F4..03F7 ; DISALLOWED # GREEK CAPITAL THETA SYMBOL..GREEK CAPITAL LETTER Theta
03F8 ; PVALID # GREEK SMALL LETTER SHO
03F9..03FA ; DISALLOWED # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAPITAL LETTER Lunate Sigma
03FB..03FC ; PVALID # GREEK SMALL LETTER SAN..GREEK RHO WITH STROKES
03FD..042F ; DISALLOWED # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..GREEK CAPITAL LETTER REVERSED LUNATE SIGMA
0430..045F ; PVALID # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETTER O
0460 ; DISALLOWED # CYRILLIC CAPITAL LETTER OMEGA
0461 ; PVALID # CYRILLIC SMALL LETTER OMEGA
0462 ; DISALLOWED # CYRILLIC CAPITAL LETTER YAT
0463 ; PVALID # CYRILLIC SMALL LETTER YAT
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<td>DISALLOWED # CYRILLIC CAPITAL LETTER SEMISOFT SIGN</td>
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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 STROKE
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 STROK
04B9  ; PVALID   # CYRILLIC SMALL LETTER CHE WITH VERTICAL STROK
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 DES
04BF  ; PVALID   # CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DES
04C0..04C1  ; DISALLOWED  # CYRILLIC LETTER PALOCHKA..CYRILLIC CAPITAL L
04C2  ; PVALID   # CYRILLIC SMALL LETTER 2HE WITH BREVE
04C3  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4  ; PVALID   # CYRILLIC SMALL LETTER KA WITH HOOK
04C5  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6  ; PVALID   # CYRILLIC SMALL LETTER EL WITH TAIL
04C7  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH HOOK
04C8  ; PVALID   # CYRILLIC SMALL LETTER EN WITH HOOK
04C9  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH TAIL
04CA  ; PVALID   # CYRILLIC SMALL LETTER EN WITH TAIL
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04FD ; PVALID  # CYRILLIC SMALL LETTER HA WITH HOOK
04FE ; DISALLOWED # CYRILLIC CAPITAL LETTER HA WITH STROKE
04FF ; PVALID  # CYRILLIC SMALL LETTER HA WITH STROKE
0500 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DE
0501 ; PVALID  # CYRILLIC SMALL LETTER KOMI DE
0502 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DJE
0503 ; PVALID  # CYRILLIC SMALL LETTER KOMI DJE
0504 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI ZJE
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0506 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DZJE
0507 ; PVALID  # CYRILLIC SMALL LETTER KOMI DZJE
0508 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI IJE
0509 ; PVALID  # CYRILLIC SMALL LETTER KOMI IJE
050A ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI NJE
050B ; PVALID  # CYRILLIC SMALL LETTER KOMI NJE
050C ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI SJE
050D ; PVALID  # CYRILLIC SMALL LETTER KOMI SJE
050E ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI TJE
050F ; PVALID  # CYRILLIC SMALL LETTER KOMI TJE
0510 ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED ZE
0511 ; PVALID  # CYRILLIC SMALL LETTER REVERSED ZE
0512 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH HOOK
0513 ; PVALID  # CYRILLIC SMALL LETTER EL WITH HOOK
0514 ; DISALLOWED # CYRILLIC CAPITAL LETTER LHA
0515 ; PVALID  # CYRILLIC SMALL LETTER LHA
0516 ; DISALLOWED # CYRILLIC CAPITAL LETTER RHA
0517 ; PVALID  # CYRILLIC SMALL LETTER RHA
0518 ; DISALLOWED # CYRILLIC CAPITAL LETTER YAE
0519 ; PVALID  # CYRILLIC SMALL LETTER YAE
051A ; DISALLOWED # CYRILLIC CAPITAL LETTER QA
051B ; PVALID  # CYRILLIC SMALL LETTER QA
051C ; DISALLOWED # CYRILLIC CAPITAL LETTER WE
051D ; PVALID  # CYRILLIC SMALL LETTER WE
051E ; DISALLOWED # CYRILLIC CAPITAL LETTER ALEUT KA
051F ; PVALID  # CYRILLIC SMALL LETTER ALEUT KA
0520 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521 ; PVALID  # CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK
0522 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523 ; PVALID  # CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK
0524 ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH DESCENDER
0525 ; PVALID  # CYRILLIC SMALL LETTER PE WITH DESCENDER
0526 ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527 ; PVALID  # CYRILLIC SMALL LETTER SHHA WITH DESCENDER
0528 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK
0529 ; PVALID  # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
052A ; DISALLOWED # CYRILLIC CAPITAL LETTER DZ2HE
052B ; PVALID  # CYRILLIC SMALL LETTER DZ2HE
052C        ; DISALLOWED # CYRILLIC CAPITAL LETTER DCHE
052D        ; PVVALID  # CYRILLIC SMALL LETTER DCHE
052E        ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH DESCENDER
052F        ; PVVALID  # CYRILLIC SMALL LETTER EL WITH DESCENDER
0530        ; UNASSIGNED # <reserved>
0531..0556  ; DISALLOWED # ARMENIAN CAPITAL LETTER AYB..ARMENIAN CAPITAL LETTER AYB WITH STROKE
0557..0558  ; UNASSIGNED # <reserved>..<reserved>
0559        ; PVVALID  # ARMENIAN MODIFIER LETTER LEFT HALF RING
055A..055F  ; DISALLOWED # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION MARK
0560..0586  ; PVVALID  # ARMENIAN SMALL LETTER TURNED AYB..ARMENIAN SMALL LETTER YI
0587        ; DISALLOWED # ARMENIAN SMALL LIGATURE ECH YIWN
0588        ; PVVALID  # ARMENIAN SMALL LETTER YI WITH STROKE
0589..058A  ; DISALLOWED # ARMENIAN FULL STOP..ARMENIAN HYPHEN
058B..058C  ; UNASSIGNED # <reserved>..<reserved>
058D..058F  ; DISALLOWED # RIGHT-FACING ARMENIAN ETERNITY SIGN..ARMENIAN SMALL LETTER HYPHEN
0590        ; UNASSIGNED # <reserved>
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05BE        ; DISALLOWED # HEBREW PUNCTUATION MAQAF
05BF        ; PVVALID  # HEBREW POINT RAFE
05C0        ; DISALLOWED # HEBREW PUNCTUATION PASEQ
05C1..05C2  ; PVVALID  # HEBREW POINT SHIN DOT..HEBREW POINT SIN DOT
05C3        ; DISALLOWED # HEBREW PUNCTUATION SOF PASUQ
05C4..05C5  ; PVVALID  # HEBREW MARK UPPER DOT..HEBREW MARK LOWER DOT
05C6        ; DISALLOWED # HEBREW PUNCTUATION NUN HAFUKHA
05C7        ; PVVALID  # HEBREW POINT QAMATS QATAN
05C8..05CF  ; UNASSIGNED # <reserved>..<reserved>
05D0..05EA  ; PVVALID  # HEBREW LETTER ALEF..HEBREW LETTER TAV
05EB..05EE  ; UNASSIGNED # <reserved>..<reserved>
05EF..05F2  ; PVVALID  # HEBREW YOD TRIANGLE..HEBREW LIGATURE YIDDISH
05F3..05F4  ; CONTEXTO # HEBREW PUNCTUATION GERESH..HEBREW PUNCTUATION ANTIQUE
05F5..05FF  ; UNASSIGNED # <reserved>..<reserved>
0600..060F  ; DISALLOWED # ARABIC NUMBER SIGN..ARABIC SIGN MISRA
0610..061A  ; PVVALID  # ARABIC SIGN SALLALLAHOU ALAYHE WASSALLAM..ARABIC LETTER TET
061B..061C  ; DISALLOWED # ARABIC SEMICOLON..ARABIC LETTER MARK
061D        ; UNASSIGNED # <reserved>
061E..061F  ; DISALLOWED # ARABIC TRIPLE DOT PUNCTUATION MARK..ARABIC LETTER TET
0620..063F  ; PVVALID  # ARABIC LETTER KASHMIRI YEH..ARABIC LETTER FA ILISH
0640        ; DISALLOWED # ARABIC TATWEEL
0641..065F  ; PVVALID  # 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  ; PVVALID  # ARABIC LETTER DOTLESS BEH..ARABIC LETTER HIG
0675..0678  ; DISALLOWED # ARABIC LETTER HIGH HAMZA..ARABIC SMALL LETTER HAMZA WITH DADS
0679..06D3  ; PVVALID  # ARABIC LETTER TTEH..ARABIC LETTER YEH BARREE
06D4        ; DISALLOWED # ARABIC FULL STOP
06D5..06DC  ; PVVALID  # ARABIC LETTER AE..ARABIC SMALL HIGH SEE
06DD..06DE  ; DISALLOWED # ARABIC END OF AYAH..ARABIC LETTER TANIN
06DF..06E7  ; PVVALID  # ARABIC SMALL HIGH ROUNDED ZERO..ARABIC SMALL
09B2   ;   PVALID   # BENGALI LETTER LA
09B3..09B5  ; UNASSIGNED  # <reserved>..<reserved>
09B6..09B9  ; PVALID   # BENGALI LETTER SHA..BENGALI LETTER HA
09BA..09BB  ; UNASSIGNED  # <reserved>..<reserved>
09BC..09C4  ; PVALID   # BENGALI SIGN NUKTA..BENGALI VOWEL SIGN VOCAL
09C5..09C6  ; UNASSIGNED  # <reserved>..<reserved>
09C7..09C8  ; PVALID   # BENGALI VOWEL SIGN E..BENGALI VOWEL SIGN AI
09C9..09CA  ; UNASSIGNED  # <reserved>..<reserved>
09CB..09CE  ; PVALID   # BENGALI VOWEL SIGN O..BENGALI LETTER KHANDA
09CF..09D6  ; UNASSIGNED  # <reserved>..<reserved>
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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>
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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>
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0A33   ; DISALLOWED  # GURMUKHI LETTER LLA
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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>
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0A43..0A46  ; UNASSIGNED  # <reserved>..<reserved>
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0A49..0A4A  ; UNASSIGNED  # <reserved>..<reserved>
0A4B..0A4D  ; PVALID   # GURMUKHI VOWEL SIGN OO..GURMUKHI SIGN VIRAMA
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0A52..0A58 ; UNASSIGNED # <reserved>..<reserved>
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0A5C ; PVALID # GURMUKHI LETTER RRA
0A5D ; UNASSIGNED # <reserved>
0A5E ; DISALLOWED # GURMUKHI LETTER FA
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0A93..0AA8 ; PVALID # GUJARATI LETTER O..GUJARATI LETTER NA
0AA9 ; UNASSIGNED # <reserved>
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0AB2..0AB3 ; PVALID # GUJARATI LETTER LA..GUJARATI LETTER LLA
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0ABA..0ABB ; UNASSIGNED # <reserved>..<reserved>
0ABC..0AC5 ; PVALID # GUJARATI SIGN NUKTA..GUJARATI Vowel SIGN CAN
0AC6 ; UNASSIGNED # <reserved>
0AC7..0AC9 ; PVALID # GUJARATI Vowel SIGN E..GUJARATI Vowel SIGN C
0ACA ; UNASSIGNED # <reserved>
0ACB..0ACD ; PVALID # GUJARATI Vowel SIGN O..GUJARATI SIGN VIRAMA
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0AE4..0AEE ; UNASSIGNED # <reserved>..<reserved>
0AE6..0AEE ; PVALID # GUJARATI DIGIT ZERO..GUJARATI DIGIT NINE
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0AF2..0AFF ; UNASSIGNED # <reserved>..<reserved>
0AF9..0AFF ; PVALID # GUJARATI LETTER ZHA..GUJARATI SIGN TWO-CIRCL
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0B0D..0B0E ; UNASSIGNED # <reserved>..<reserved>
0B0F..0B10 ; PVALID # ORIYA LETTER E..ORIYA LETTER AI
0B11..0B12 ; UNASSIGNED # <reserved>..<reserved>
0B13..0B28 ; PVALID # ORIYA LETTER O..ORIYA LETTER NA
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0DB8..0DDF ; PVALID # SINDHALA VOWEL SIGN GAETTA-PILLA..SINDHALA VOW
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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
0E5A..0E5B ; DISALLOWED # THAI CHARACTER ANGHKANKHU..THAI CHARACTER KH
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0E83 ; UNASSIGNED # <reserved>
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0E89 ; UNASSIGNED # <reserved>
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0E8B..0E8C ; UNASSIGNED # <reserved>..<reserved>
0E8D ; PVALID # LAO LETTER NYO
0E8E..0E93 ; UNASSIGNED # <reserved>..<reserved>
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0EB4..0EB9 ; PVALID # LAO VOWEL SIGN I..LAO VOWEL SIGN UU
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0EC8..0ECF ; UNASSIGNED # <reserved>..<reserved>
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0F0B ; PVALID # TIBETAN MARK INTERSYLLABIC TSHEG
0F0C..0F17 ; DISALLOWED # TIBETAN MARK DELIMITER TSHEG BSTAR..TIBETAN
0F18..0F19 ; PVALID # TIBETAN ASTROLOGICAL SIGN -KHYUD PA..TIBETAN
0F1A..0F1F ; DISALLOWED # TIBETAN SIGN RDEL DKAR GCIG..TIBETAN SIGN RD
0F20..0F29 ; PVALID # TIBETAN DIGIT ZERO..TIBETAN DIGIT NINE
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0F36 ; DISALLOWED # TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN
0F37 ; PVALID # TIBETAN MARK NGAS BZUNG SGOR RTAGS
0F38 ; DISALLOWED # TIBETAN MARK CHE MGO
0F39 ; PVALID # TIBETAN MARK TSA -PHRU
0F3A..0F3D ; DISALLOWED # TIBETAN MARK GUG RTAGS GYON..TIBETAN MARK AN
0F3E..0F42 ; PVALID # TIBETAN SIGN YAR TSHES..TIBETAN LETTER GA
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0F53..0F56 ; PVALID # TIBETAN LETTER NA..TIBETAN LETTER BA
0F57 ; DISALLOWED # TIBETAN LETTER BHA
0F58..0F5B ; PVALID # TIBETAN LETTER MA..TIBETAN LETTER DZA
0F5C ; DISALLOWED # TIBETAN LETTER DZA
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0F74 ; PVALID # TIBETAN VOWEL SIGN U
0F75..0F79 ; DISALLOWED # TIBETAN VOWEL SIGN UU..TIBETAN VOWEL SIGN VO
0F7A..0F80 ; PVALID # TIBETAN VOWEL SIGN E..TIBETAN VOWEL SIGN REV
0F81 ; DISALLOWED # TIBETAN VOWEL SIGN REVERSED II
0F82..0F84 ; PVALID # TIBETAN SIGN NYI ZLA NAA DA..TIBETAN MARK HA
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0FA3..0FA6  ; PVALID # TIBETAN SUBJOINED LETTER NA..TIBETAN SUBJOIN
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0FC7..0FCC  ; DISALLOWED # TIBETAN SYMBOL RDO RJE RGYA GRAM..TIBETAN SY
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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..10FC  ; DISALLOWED # GEORGIAN PARAGRAPH SEPARATOR..MODIFIER LETT
10FD..10FF  ; PVALID # GEORGIAN LETTER AEN..GEORGIAN LETTER LABIAL
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<td># ETHIOPIC COMBINING GEMINATION AND VOWEL LENG</td>
</tr>
<tr>
<td>1360-137C</td>
<td>DISALLOWED</td>
<td># ETHIOPIC SECTION MARK..ETHIOPIC NUMBER TEN T</td>
</tr>
<tr>
<td>137D-137F</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;..&lt;reserved&gt;</td>
</tr>
<tr>
<td>1380-138F</td>
<td>PVALID</td>
<td># ETHIOPIC SYLLABLE SEBATBEIT MWA..ETHIOPIC SY</td>
</tr>
<tr>
<td>1390-1399</td>
<td>DISALLOWED</td>
<td># ETHIOPIC TONAL MARK YIZET..ETHIOPIC TONAL MA</td>
</tr>
<tr>
<td>139A-139F</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;..&lt;reserved&gt;</td>
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<tr>
<td>13A0-13F5</td>
<td>PVALID</td>
<td># CHEROKEE LETTER A..CHEROKEE LETTER MV</td>
</tr>
<tr>
<td>13F6-13FF</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;..&lt;reserved&gt;</td>
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<td>13F8-13FD</td>
<td>DISALLOWED</td>
<td># CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET</td>
</tr>
<tr>
<td>13FE-13FF</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;..&lt;reserved&gt;</td>
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<td>1400</td>
<td>DISALLOWED</td>
<td># CANADIAN SYLLABICS HYPHEN</td>
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<td>1401-166C</td>
<td>PVALID</td>
<td># CANADIAN SYLLABICS E..CANADIAN SYLLABICS CAR</td>
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<td>166D-166E</td>
<td>DISALLOWED</td>
<td># CANADIAN SYLLABICS CHI SIGN..CANADIAN SYLLAB</td>
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<tr>
<td>166F-167F</td>
<td>PVALID</td>
<td># CANADIAN SYLLABICS QAI..CANADIAN SYLLAB B</td>
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<tr>
<td>1680</td>
<td>DISALLOWED</td>
<td># OGHAM SPACE MARK</td>
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<tr>
<td>1681-169A</td>
<td>PVALID</td>
<td># OGHAM LETTER BEITH..OGHAM LETTER PEITH</td>
</tr>
<tr>
<td>169B-169C</td>
<td>DISALLOWED</td>
<td># OGHAM FEATHER MARK..OGHAM REVERSED FEATHER M</td>
</tr>
<tr>
<td>169D-169F</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;..&lt;reserved&gt;</td>
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<td>16A0-16EA</td>
<td>PVALID</td>
<td># RUNIC LETTER FEHU FEOH FE F..RUNIC LETTER X</td>
</tr>
<tr>
<td>16EB-16F0</td>
<td>DISALLOWED</td>
<td># RUNIC SINGLE PUNCTUATION..RUNIC BELGTHOR SYM</td>
</tr>
<tr>
<td>16F1-16F8</td>
<td>PVALID</td>
<td># RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A</td>
</tr>
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<td>16F9-16FF</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;..&lt;reserved&gt;</td>
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<tr>
<td>1700-170C</td>
<td>PVALID</td>
<td># TAGALOG LETTER A..TAGALOG LETTER YA</td>
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<tr>
<td>170D</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;</td>
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<tr>
<td>170E-1714</td>
<td>PVALID</td>
<td># TAGALOG LETTER LA..TAGALOG SIGN VIRAMA</td>
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<td>1715-171F</td>
<td>UNASSIGNED</td>
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<td>1720-1734</td>
<td>PVALID</td>
<td># HANUNOO LETTER A..HANUNOO SIGN PAMUDPOD</td>
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<tr>
<td>1735-1736</td>
<td>DISALLOWED</td>
<td># PHILIPPINE SINGLE PUNCTUATION..PHILIPPINE DO</td>
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<td>1737-173F</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;..&lt;reserved&gt;</td>
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1740..1753  ; PVALID  # BUHID LETTER A..BUHID VOWEL SIGN U
1754..175F  ; UNASSIGNED  # <reserved>..<reserved>
1760..176C  ; PVALID  # TAGBANWA LETTER A..TAGBANWA LETTER YA
176D        ; UNASSIGNED  # <reserved>
176E..1770  ; PVALID  # TAGBANWA LETTER LA..TAGBANWA LETTER SA
1771        ; UNASSIGNED  # <reserved>
1772..1773  ; PVALID  # TAGBANWA VOWEL SIGN I..TAGBANWA VOWEL SIGN U
1774..177F  ; UNASSIGNED  # <reserved>..<reserved>
1780..17B3  ; PVALID  # KHMER LETTER KA..KHMER INDEPENDENT VOWEL QAU
17B4..17B5  ; DISALLOWED  # KHMER VOWEL INHERENT AQ..KHMER VOWEL INHERENT
17B6..17D3  ; PVALID  # KHMER VOWEL SIGN AA..KHMER SIGN BATHAMASAT
17D4..17D6  ; DISALLOWED  # KHMER SIGN KHAN..KHMER SIGN CAMNUC PII KUUH
17D7        ; PVALID  # KHMER SIGN LEK TOO
17D8..17DB  ; DISALLOWED  # KHMER SIGN BEYYAL..KHMER CURRENCY SYMBOL RIE
17DC..17DD  ; PVALID  # KHMER SIGN AVAKRAHASANYA..KHMER SIGN ATTHACA
17DE..17DF  ; UNASSIGNED  # <reserved>..<reserved>
17E0..17E9  ; PVALID  # KHMER DIGIT ZERO..KHMER DIGIT NINE
17EA..17EF  ; UNASSIGNED  # <reserved>..<reserved>
17F0..17FF  ; UNASSIGNED  # <reserved>..<reserved>
1800..180E  ; DISALLOWED  # MONGOLIAN BIRGA..MONGOLIAN VOWEL SEPARATOR
180F        ; UNASSIGNED  # <reserved>
1810..1819  ; PVALID  # MONGOLIAN DIGIT ZERO..MONGOLIAN DIGIT NINE
181A..181F  ; UNASSIGNED  # <reserved>..<reserved>
1820..1878  ; PVALID  # MONGOLIAN LETTER A..MONGOLIAN LETTER CHA WIT
1879..187F  ; UNASSIGNED  # <reserved>..<reserved>
1880..188A  ; PVALID  # MONGOLIAN LETTER ALI GALI ANUSVARA ONE..MONG
188B..18AF  ; UNASSIGNED  # <reserved>..<reserved>
18B0..18F5  ; PVALID  # CANADIAN SYLLABICS OY..CANADIAN SYLLABICS CA
18F6..18FF  ; UNASSIGNED  # <reserved>..<reserved>
1900..191E  ; PVALID  # LIMBU VOWEL-CARRIER LETTER..LIMBU LETTER TRA
191F        ; UNASSIGNED  # <reserved>
1920..192B  ; PVALID  # LIMBU VOWEL SIGN A..LIMBU SUBJOINED LETTER W
192C..192F  ; UNASSIGNED  # <reserved>..<reserved>
1930..193B  ; PVALID  # LIMBU SMALL LETTER KA..LIMBU SIGN SA-I
193C..193F  ; UNASSIGNED  # <reserved>..<reserved>
1940        ; DISALLOWED  # LIMBU SIGN LOO
1941..1943  ; UNASSIGNED  # <reserved>..<reserved>
1944..1945  ; DISALLOWED  # LIMBU EXCLAMATION MARK..LIMBU QUESTION MARK
1946..196D  ; PVALID  # LIMBU DIGIT ZERO..TAI LE LETTER AI
196E..196F  ; UNASSIGNED  # <reserved>..<reserved>
1970..1974  ; PVALID  # TAI LE LETTER TONE-2..TAI LE LETTER TONE-6
1975..197F  ; UNASSIGNED  # <reserved>..<reserved>
1980..19AB  ; PVALID  # NEW TAI LUE LETTER HIGH QA..NEW TAI LUE LETT
19AC..19AF  ; UNASSIGNED  # <reserved>..<reserved>
19B0..19C9  ; PVALID  # NEW TAI LUE VOWEL SIGN VOWEL SHORTENER..NEW
19CA..19CF  ; UNASSIGNED  # <reserved>..<reserved>
19D0..19D9  ; PVALID  # NEW TAI LUE DIGIT ZERO..NEW TAI LUE DIGIT NI
19DA ; DISALLOWED # NEW TAI LUE THAM DIGIT ONE
19DB..19DD ; UNASSIGNED # <reserved>..<reserved>
19DE..19FF ; DISALLOWED # NEW TAI LUE SIGN LAE..KHMER SYMBOL DAP-PRAM
1A00..1A1B ; PVALID # BUGINESE LETTER KA..BUGINESE VOWEL SIGN AE
1A1C..1A1D ; UNASSIGNED # <reserved>..<reserved>
1A1E..1A1F ; DISALLOWED # BUGINESE PALLAWA..BUGINESE END OF SECTION
1A20..1A5E ; PVALID # TAI THAM LETTER HIGH KA..TAI THAM CONSONANT
1A5F ; UNASSIGNED # <reserved>
1A60..1A7C ; PVALID # TAI THAM SIGN SAKOT..TAI THAM SIGN KHUEN-LUE
1A7D..1A7E ; UNASSIGNED # <reserved>..<reserved>
1A7F..1A7E ; DISALLOWED # TAI THAM COMBINING CRYPTOGRAMMIC DOT..TAI TH
1A8A..1A8F ; UNASSIGNED # <reserved>..<reserved>
1A90..1A99 ; PVALID # TAI THAM DIGIT ZERO..TAI THAM DIGIT ONE
1A9A..1A9F ; UNASSIGNED # <reserved>..<reserved>
1AA0..1A6E ; DISALLOWED # TAI THAM SIGN WIANG..TAI THAM SIGN REVERSED
1A7 ; PVALID # TAI THAM SIGN MAI YAMOK
1A8..1A8D ; DISALLOWED # TAI THAM SIGN KAAN..TAI THAM SIGN CAANG
1A9E..1A9F ; UNASSIGNED # <reserved>..<reserved>
1AA0..1A6F ; PVALID # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINING
1AA1..1AAF ; DISALLOWED # PARENTHESES OVERLAY
1AB0..1AB7 ; PVALID # BALINESE SIGN PANTI..BALINESE MUSICAL SYMBOL DANG
1AB8..1ABF ; UNASSIGNED # <reserved>..<reserved>
1AC0..1ACF ; DISALLOWED # BALINESE MUSICAL SYMBOL COMBINING TECEH..BAL
1AD0..1ADF ; PVALID # BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG.
1AE0..1AEF ; UNASSIGNED # <reserved>..<reserved>
1AF0..1AFF ; DISALLOWED # BALINESE MUSICAL SYMBOL BINDU NA METEK..BATAK
1B00..1B7F ; PVALID # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1B80..1B8F ; PVALID # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
1B90..1B9F ; UNASSIGNED # <reserved>..<reserved>
1BA0..1BAF ; DISALLOWED # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1C00..1C3F ; PVALID # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C40..1C4F ; UNASSIGNED # <reserved>..<reserved>
1C50..1C5F ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1C60..1C6F ; UNASSIGNED # <reserved>..<reserved>
1C70..1C7F ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1C80..1C8F ; UNASSIGNED # <reserved>..<reserved>
1C90..1C9F ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CA0..1CAF ; UNASSIGNED # <reserved>..<reserved>
1CB0..1CBF ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CDB..1CDB ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1D00..1D2F ; PVALID # LATIN LETTER SMALL CAPITAL A..CYRILLIC LETTE
1D2C..1D2E  ; DISALLOWED  # MODIFIER LETTER CAPITAL A..MODIFIER LETTER C
1D2F  ; PVALID  # MODIFIER LETTER CAPITAL BARRED B
1D30..1D3A  ; DISALLOWED  # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B  ; PVALID  # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D  ; DISALLOWED  # MODIFIER LETTER CAPITAL O..MODIFIER LETTER S
1D4E  ; PVALID  # MODIFIER LETTER SMALL TURNED I
1D4F..1D6A  ; DISALLOWED  # MODIFIER LETTER SMALL TURNED ALPHA..GREEK SUBSCRIPT SMALL SM"
1D6B..1D77  ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER TU
1D78  ; DISALLOWED  # MODIFIER LETTER CYRILLIC EN
1D79..1D9A  ; PVALID  # LATIN SMALL LETTER INSULAR G..LATIN SMALL LETTER EM
1D9B..1DBF  ; DISALLOWED  # MODIFIER LETTER SMALL TURNED ALPHA..MODIFIER LETTER SMALL TURNED I
1DC0..1DF9  ; PVALID  # COMBINING DOTTED GRAVE ACCENT..COMBINING WIDE WH
1DFA  ; UNASSIGNED  # <reserved>
1DFB..1DFF  ; PVALID  # COMBINING DELETION MARK..COMBINING RIGHT ARROWHEAD
1E00  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH RING BELOW
1E01  ; PVALID  # LATIN SMALL LETTER A WITH RING BELOW
1E02  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT ABOVE
1E03  ; PVALID  # LATIN SMALL LETTER B WITH DOT ABOVE
1E04  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT BELOW
1E05  ; PVALID  # LATIN SMALL LETTER B WITH DOT BELOW
1E06  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH LINE BELOW
1E07  ; PVALID  # LATIN SMALL LETTER B WITH LINE BELOW
1E08  ; DISALLOWED  # LATIN CAPITAL LETTER C WITH CEDILLA AND ACUTE
1E09  ; PVALID  # LATIN SMALL LETTER C WITH CEDILLA AND ACUTE
1E0A  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH DOT ABOVE
1E0B  ; PVALID  # LATIN SMALL LETTER D WITH DOT ABOVE
1E0C  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH DOT BELOW
1E0D  ; PVALID  # LATIN SMALL LETTER D WITH DOT BELOW
1E0E  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH LINE BELOW
1E0F  ; PVALID  # LATIN SMALL LETTER D WITH LINE BELOW
1E10  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH CEDILLA
1E11  ; PVALID  # LATIN SMALL LETTER D WITH CEDILLA
1E12  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW
1E13  ; PVALID  # LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW
1E14  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH MACRON AND GRAVE
1E15  ; PVALID  # LATIN SMALL LETTER E WITH MACRON AND GRAVE
1E16  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH MACRON AND ACUTE
1E17  ; PVALID  # LATIN SMALL LETTER E WITH MACRON AND ACUTE
1E18  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW
1E19  ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW
1E1A  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE BELOW
1E1B  ; PVALID  # LATIN SMALL LETTER E WITH TILDE BELOW
1E1C  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CEDILLA AND BREVE
1E1D  ; PVALID  # LATIN SMALL LETTER E WITH CEDILLA AND BREVE
1E1E  ; DISALLOWED  # LATIN CAPITAL LETTER F WITH DOT ABOVE
1E1F  ; PVALID  # LATIN SMALL LETTER F WITH DOT ABOVE
1E20  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH MACRON
1E21  ; PVALID  # LATIN SMALL LETTER G WITH MACRON
1E22  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DOT ABOVE
1E23  ; PVALID     # LATIN SMALL LETTER H WITH DOT ABOVE
1E24  ; DISALLOWED # LATIN CAPITAL LETTER H WITH DOT BELOW
1E25  ; PVALID     # LATIN SMALL LETTER H WITH DOT BELOW
1E26  ; DISALLOWED # LATIN CAPITAL LETTER H WITH DIAERESIS
1E27  ; PVALID     # LATIN SMALL LETTER H WITH DIAERESIS
1E28  ; DISALLOWED # LATIN CAPITAL LETTER H WITH CEDILLA
1E29  ; PVALID     # LATIN SMALL LETTER H WITH CEDILLA
1E2A  ; DISALLOWED # LATIN CAPITAL LETTER H WITH BREVE BELOW
1E2B  ; PVALID     # LATIN SMALL LETTER H WITH BREVE BELOW
1E2C  ; DISALLOWED # LATIN CAPITAL LETTER I WITH TILDE BELOW
1E2D  ; PVALID     # LATIN SMALL LETTER I WITH TILDE BELOW
1E2E  ; DISALLOWED # LATIN CAPITAL LETTER I WITH DIAERESIS AND AC
1E2F  ; PVALID     # LATIN SMALL LETTER I WITH DIAERESIS AND ACUT
1E30  ; DISALLOWED # LATIN CAPITAL LETTER K WITH ACUTE
1E31  ; PVALID     # LATIN SMALL LETTER K WITH ACUTE
1E32  ; DISALLOWED # LATIN CAPITAL LETTER K WITH DOT BELOW
1E33  ; PVALID     # LATIN SMALL LETTER K WITH DOT BELOW
1E34  ; DISALLOWED # LATIN CAPITAL LETTER K WITH LINE BELOW
1E35  ; PVALID     # LATIN SMALL LETTER K WITH LINE BELOW
1E36  ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOT BELOW
1E37  ; PVALID     # LATIN SMALL LETTER L WITH DOT BELOW
1E38  ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOT BELOW AND MA
1E39  ; PVALID     # LATIN SMALL LETTER L WITH DOT BELOW AND MACR
1E3A  ; DISALLOWED # LATIN CAPITAL LETTER L WITH LINE BELOW
1E3B  ; PVALID     # LATIN SMALL LETTER L WITH LINE BELOW
1E3C  ; DISALLOWED # LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW
1E3D  ; PVALID     # LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW
1E3E  ; DISALLOWED # LATIN CAPITAL LETTER M WITH ACUTE
1E3F  ; PVALID     # LATIN SMALL LETTER M WITH ACUTE
1E40  ; DISALLOWED # LATIN CAPITAL LETTER M WITH DOT ABOVE
1E41  ; PVALID     # LATIN SMALL LETTER M WITH DOT ABOVE
1E42  ; DISALLOWED # LATIN CAPITAL LETTER M WITH DOT BELOW
1E43  ; PVALID     # LATIN SMALL LETTER M WITH DOT BELOW
1E44  ; DISALLOWED # LATIN CAPITAL LETTER N WITH DOT ABOVE
1E45  ; PVALID     # LATIN SMALL LETTER N WITH DOT ABOVE
1E46  ; DISALLOWED # LATIN CAPITAL LETTER N WITH DOT BELOW
1E47  ; PVALID     # LATIN SMALL LETTER N WITH DOT BELOW
1E48  ; DISALLOWED # LATIN CAPITAL LETTER N WITH LINE BELOW
1E49  ; PVALID     # LATIN SMALL LETTER N WITH LINE BELOW
1E4A  ; DISALLOWED # LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW
1E4B  ; PVALID     # LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW
1E4C  ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE AND ACUTE
1E4D  ; PVALID     # LATIN SMALL LETTER O WITH TILDE AND ACUTE
1E4E  ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE AND DIAERESI
1E4F  ; PVALID     # LATIN SMALL LETTER O WITH TILDE AND DIAERESI
1E50  ; DISALLOWED # LATIN CAPITAL LETTER O WITH MACRON AND GRAVE
1E51  ; PVALID     # LATIN SMALL LETTER O WITH MACRON AND GRAVE
1E52 ; DISALLOWED # LATIN CAPITAL LETTER O WITH MACRON AND ACUTE
1E53 ; PVALID # LATIN SMALL LETTER O WITH MACRON AND ACUTE
1E54 ; DISALLOWED # LATIN CAPITAL LETTER P WITH ACUTE
1E55 ; PVALID # LATIN SMALL LETTER P WITH ACUTE
1E56 ; DISALLOWED # LATIN CAPITAL LETTER P WITH DOT ABOVE
1E57 ; PVALID # LATIN SMALL LETTER P WITH DOT ABOVE
1E58 ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT ABOVE
1E59 ; PVALID # LATIN SMALL LETTER R WITH DOT ABOVE
1E5A ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT BELOW
1E5B ; PVALID # LATIN SMALL LETTER R WITH DOT BELOW
1E5C ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT BELOW AND MA
1E5D ; PVALID # LATIN SMALL LETTER R WITH DOT BELOW AND MACR
1E5E ; DISALLOWED # LATIN CAPITAL LETTER R WITH LINE BELOW
1E5F ; PVALID # LATIN SMALL LETTER R WITH LINE BELOW
1E60 ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT ABOVE
1E61 ; PVALID # LATIN SMALL LETTER S WITH DOT ABOVE
1E62 ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW
1E63 ; PVALID # LATIN SMALL LETTER S WITH DOT BELOW
1E64 ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE AND DOT AB
1E65 ; PVALID # LATIN SMALL LETTER S WITH ACUTE AND DOT ABOV
1E66 ; DISALLOWED # LATIN CAPITAL LETTER S WITH CARON AND DOT AB
1E67 ; PVALID # LATIN SMALL LETTER S WITH CARON AND DOT ABOV
1E68 ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW AND DO
1E69 ; PVALID # LATIN SMALL LETTER S WITH DOT BELOW AND DOT
1E6A ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT ABOVE
1E6B ; PVALID # LATIN SMALL LETTER T WITH DOT ABOVE
1E6C ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT BELOW
1E6D ; PVALID # LATIN SMALL LETTER T WITH DOT BELOW
1E6E ; DISALLOWED # LATIN CAPITAL LETTER T WITH LINE BELOW
1E6F ; PVALID # LATIN SMALL LETTER T WITH LINE BELOW
1E70 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW
1E71 ; PVALID # LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW
1E72 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS BELOW
1E73 ; PVALID # LATIN SMALL LETTER U WITH DIAERESIS BELOW
1E74 ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE BELOW
1E75 ; PVALID # LATIN SMALL LETTER U WITH TILDE BELOW
1E76 ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE AND ACUTE
1E77 ; PVALID # LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E78 ; DISALLOWED # LATIN CAPITAL LETTER U WITH MACRON AND DIAER
1E79 ; PVALID # LATIN SMALL LETTER U WITH MACRON AND DIAERES
1E7A ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE AND GRAVE
1E7B ; PVALID # LATIN SMALL LETTER U WITH TILDE AND GRAVE
1E7C ; DISALLOWED # LATIN CAPITAL LETTER V WITH TILDE
1E7D ; PVALID # LATIN SMALL LETTER V WITH TILDE
1E7E ; DISALLOWED # LATIN CAPITAL LETTER V WITH DOT BELOW
1E7F ; PVALID # LATIN SMALL LETTER V WITH DOT BELOW
1E80 ; DISALLOWED # LATIN CAPITAL LETTER W WITH GRAVE
1E81 ; PVALID # LATIN SMALL LETTER W WITH GRAVE
1E82  ; DISALLOWED  # LATIN CAPITAL LETTER W WITH ACUTE
1E83  ; PVALID       # LATIN SMALL LETTER W WITH ACUTE
1E84  ; DISALLOWED  # LATIN CAPITAL LETTER W WITH DIAERESIS
1E85  ; PVALID       # LATIN SMALL LETTER W WITH DIAERESIS
1E86  ; DISALLOWED  # LATIN CAPITAL LETTER W WITH DOT ABOVE
1E87  ; PVALID       # LATIN SMALL LETTER W WITH DOT ABOVE
1E88  ; DISALLOWED  # LATIN CAPITAL LETTER W WITH DOT BELOW
1E89  ; PVALID       # LATIN SMALL LETTER W WITH DOT BELOW
1E8A  ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DOT ABOVE
1E8B  ; PVALID       # LATIN SMALL LETTER X WITH DOT ABOVE
1E8C  ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DIAERESIS
1E8D  ; PVALID       # LATIN SMALL LETTER X WITH DIAERESIS
1E8E  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E8F  ; PVALID       # LATIN SMALL LETTER Y WITH DOT ABOVE
1E90  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
1E91  ; PVALID       # LATIN SMALL LETTER Z WITH CIRCUMFLEX
1E92  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DOT BELOW
1E93  ; PVALID       # LATIN SMALL LETTER Z WITH DOT BELOW
1E94  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH LINE BELOW
1E95..1E99 ; PVALID       # LATIN SMALL LETTER Z WITH LINE BELOW..LATIN
1E9A..1E9B ; DISALLOWED  # LATIN SMALL LETTER A WITH RIGHT HALF RING..L
1E9C..1E9D ; PVALID       # LATIN SMALL LETTER LONG S WITH DIAGONAL STRO
1E9E  ; DISALLOWED  # LATIN CAPITAL LETTER SHARP S
1E9F  ; PVALID       # LATIN SMALL LETTER DELTA
1EA0  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT BELOW
1EA1  ; PVALID       # LATIN SMALL LETTER A WITH DOT BELOW
1EA2  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH HOOK BELOW
1EA3  ; PVALID       # LATIN SMALL LETTER A WITH HOOK BELOW
1EA4  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND A
1EA5  ; PVALID       # LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACU
1EA6  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND G
1EA7  ; PVALID       # LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRA
1EA8  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND H
1EA9  ; PVALID       # LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOO
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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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1EBB ; PVALID # LATIN SMALL LETTER E WITH HOOK ABOVE
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1EDD ; PVALID # LATIN SMALL LETTER O WITH HORN AND GRAVE
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2C99        ; PVALID      # COPTIC SMALL LETTER MI
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2CA1        ; PVALID      # COPTIC SMALL LETTER PI
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2CA7        ; PVALID      # COPTIC SMALL LETTER TAU
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2CAA        ; DISALLOWED  # COPTIC CAPITAL LETTER FI
2CAB        ; PVALID      # COPTIC SMALL LETTER FI
2CAC        ; DISALLOWED  # COPTIC CAPITAL LETTER KHI
2CAD        ; PVALID      # COPTIC SMALL LETTER KHI
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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
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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
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2CC2 ; DISALLOWED  # COPTIC CAPITAL LETTER CROSSED SHEI
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2CC8 ; DISALLOWED  # COPTIC CAPITAL LETTER AKHMIMIC KHEI
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2CCA ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P HORI
2CBB ; PVALID  # COPTIC SMALL LETTER DIALECT-P HORI
2CCC ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HORI
2 CCD ; PVALID  # COPTIC SMALL LETTER OLD COPTIC HORI
2CCE ; 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 S
2CE5..2CEB  ; DISALLOWED  # COPTIC SYMBOL MI RO..COPTIC CAPITAL LETTER C
2CEC  ; PVALID  # COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CED  ; DISALLOWED  # COPTIC CAPITAL LETTER CRYPTOGRAMMIC GANGIA
2CEE..2CF1  ; PVALID  # COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA..COPTIC CAPITAL LETTER BOHAIRIC KHEI
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 MORPHOLOGICAL FULL STOP
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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
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2D7F..2D96  ; PVALID  # TIFINAGH CONSONANT JOINER..ETHIOPIC SYLLABLE SSA
2D97..2D9F  ; UNASSIGNED  # <reserved>..<reserved>
2DA0..2DA6  ; PVALID  # ETHIOPIC SYLLABLE SSA..ETHIOPIC SYLLABLE SSO
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2DA8..2DAE  ; PVALID  # ETHIOPIC SYLLABLE CCA..ETHIOPIC SYLLABLE CCO
2DAF  ; UNASSIGNED  # <reserved>
2DB0..2DB6  ; PVALID  # ETHIOPIC SYLLABLE ZZA..ETHIOPIC SYLLABLE ZZO
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2DB8..2DBE  ; PVALID  # ETHIOPIC SYLLABLE CCHA..ETHIOPIC SYLLABLE CC
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2DC0..2DC6  ; PVALID  # ETHIOPIC SYLLABLE QYA..ETHIOPIC SYLLABLE QYO
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2DC8..2DCE  ; PVALID  # ETHIOPIC SYLLABLE KYA..ETHIOPIC SYLLABLE KYO
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2DD0..2DD6  ; PVALID  # ETHIOPIC SYLLABLE XYA..ETHIOPIC SYLLABLE XYO
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2DE0..2DFF  ; PVALID  # COMBINING CYRILLIC LETTER BE..COMBINING CYRILLIC LETTER ORDA
2E00..2E2E  ; DISALLOWED  # RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QUESTION MARK
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2E30..2E4E  ; DISALLOWED  # RING POINT..PUNCTUS ELEVATUS MARK
2E4F..2E7F  ; UNASSIGNED  # <reserved>..<reserved>
2E80..2E99  ; DISALLOWED  # CJK RADICAL REPEAT..CJK RADICAL CHARTER
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2E9B..2EF3  ; DISALLOWED  # CJK RADICAL CHARTER..CJK RADICAL C-SIMPLIFIED
2EF4..2EFF  ; UNASSIGNED  # <reserved>..<reserved>
2F00..2FD5  ; DISALLOWED  # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2FD6..2FEF  ; UNASSIGNED  # <reserved>..<reserved>
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A62C..A63F ; UNASSIGNED # <reserved>..<reserved>
A640 ; DISALLOWED # CYRILLIC CAPITAL LETTER ZEMLYA
A641 ; PVALID # CYRILLIC SMALL LETTER ZEMLYA
A642 ; DISALLOWED # CYRILLIC CAPITAL LETTER DZELO
A643 ; PVALID # CYRILLIC SMALL LETTER DZELO
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A64A ; DISALLOWED # CYRILLIC CAPITAL LETTER MONOGRAPH UK
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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
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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
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A65D ; PVALID # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
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A65F ; PVALID # CYRILLIC SMALL LETTER YN
A660 ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED TSE
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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
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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
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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 DIAGONA
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 OVERLA
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
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A75A ; DISALLOWED # LATIN CAPITAL LETTER R ROTUNDA
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A770 ; DISALLOWED # MODIFIER LETTER US
A771..A778 ; PVALID # LATIN SMALL LETTER DUM..LATIN SMALL LETTER U
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A77A ; PVALID # LATIN SMALL LETTER INSULAR D
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A789..A78B ; DISALLOWED # MODIFIER LETTER COLON..LATIN CAPITAL LETTER
A78C ; PVALID # LATIN SMALL LETTER SALTILLO
A78D ; DISALLOWED # LATIN CAPITAL LETTER TURNED H
A78E..A78F ; PVALID # LATIN SMALL LETTER L WITH RETROFLEX HOOK AND
A790 ; DISALLOWED # LATIN CAPITAL LETTER N WITH DESCENDER
A791 ; PVALID # LATIN SMALL LETTER N WITH DESCENDER
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AA37..AA6F  ; UNASSIGNED  # <reserved>..<reserved>
AA70..AA7E  ; PVALID    # CHAM LETTER FINAL K..CHAM CONSONANT SIGN FIN
AA7F..AAE4  ; UNASSIGNED  # <reserved>..<reserved>
AAE5..AABF  ; PVALID    # CHAM DIGIT ZERO..CHAM DIGIT NINE
AAC0..AAC2  ; PVALID    # MYANMAR LETTER AITON RA..TAI VIET TONE MAI S
AAC3..AAC9  ; UNASSIGNED  # <reserved>..<reserved>
AAE0..AAE6  ; DISALLOWED # MEETEI MAYEK LETTER E..MEETEI MAYEK VOWEL SI
AAE7..AAFF  ; UNASSIGNED  # <reserved>..<reserved>
AB00..AB59  ; PVALID    # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL VIRAMA
AB60..AB6F  ; UNASSIGNED  # <reserved>..<reserved>
AB6A..AB7F  ; PVALID    # ETVIET SYMBOL KON..ETVIET SYMBOL SAM
AB78..AB7F  ; UNASSIGNED  # <reserved>..<reserved>
AB80..AB8F  ; PVALID    # ETVIET SYMBOL HO HOI..ETVIET SYMBOL KOI
AB90..AB9F  ; PVALID    # ETVIET SYMBOL DDHU..ETVIOPIC SYLLABLE DD
ABAF..ABBF  ; UNASSIGNED  # <reserved>..<reserved>
ABCF..BB0F  ; PVALID    # ETVIET SYMBOL CCHHA..ETVIET SYMBOL C
BB10..BB1F  ; UNASSIGNED  # <reserved>..<reserved>
BB20..BB2F  ; PVALID    # ETVIET SYMBOL BBA..ETVIET SYLLABLE BBO
BB30..BBCF  ; UNASSIGNED  # <reserved>..<reserved>
BB50..BB5F  ; PVALID    # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT
BC00..BCFF  ; PVALID    # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL
BE00..BE0F  ; DISALLOWED # MEETEI MAYEK CHEIKHEI
BE0F..BE1F  ; PVALID    # MEETEI MAYEK LUM IYEK..MEETEI MAYEK APUN IYE
BE20..BE2F  ; UNASSIGNED  # <reserved>..<reserved>
BE30..BE3F  ; PVALID    # MEETEI MAYEK DIGIT ZERO..MEETEI MAYEK DIGIT
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10103..10106; UNASSIGNED # <reserved>..<reserved>
10107..10133; DISALLOWED # AEGEAN NUMBER ONE..AEGEAN NUMBER NINETY THOUSAND
10134..10136; UNASSIGNED # <reserved>..<reserved>
10137..1018E; DISALLOWED # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
1018F; UNASSIGNED # <reserved>
10190..1019B; DISALLOWED # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN
1019C..1019F; UNASSIGNED # <reserved>..<reserved>
101A0; DISALLOWED # GREEK SYMBOL TAU RHO
101A1..101CF; UNASSIGNED # <reserved>..<reserved>
101D0..101FC; DISALLOWED # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC SIGN
101FD; PVALID # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE
101FE..1027F; UNASSIGNED # <reserved>..<reserved>
10280..1029C; PVALID # LYCIAN LETTER A..LYCIAN LETTER X
1029D..1029F; UNASSIGNED # <reserved>..<reserved>
102A0..102D0; PVALID # CARIAN LETTER A..CARIAN LETTER UUU3
102D1..102DF; UNASSIGNED # <reserved>..<reserved>
102E0; PVALID # COPTIC EPACT THOUSANDS MARK
102E1..102FB; DISALLOWED # COPTIC EPACT DIGIT ONE..COPTIC EPACT NUMBER
102FC..102FF; UNASSIGNED # <reserved>..<reserved>
10300..1031F; PVALID # OLD ITALIC LETTER A..OLD ITALIC LETTER ESS
10320..10323; DISALLOWED # OLD ITALIC NUMERAL ONE..OLD ITALIC NUMERAL F
10324..1032F; UNASSIGNED # <reserved>..<reserved>
10330..10340; PVALID # OLD ITALIC LETTER YE..GOTHIC LETTER PAIRTHRA
10341; DISALLOWED # GOTHIC LETTER NINETY
10342..1034F; PVALID # GOTHIC LETTER RAIDA..GOTHIC LETTER OTHAL
10350..1035F; PVALID # GOTHIC LETTER NINE HUNDRED
10360..1037F; UNASSIGNED # <reserved>..<reserved>
10380..1038F; PVALID # UGARITIC LETTER ALPA..UGARITIC LETTER SSU
10390..1039F; UNASSIGNED # <reserved>..<reserved>
103A0..103C3; PVALID # OLD PERSIAN SIGN A..OLD PERSIAN SIGN HA
103C4..103C7; UNASSIGNED # <reserved>..<reserved>
103C8..103CF; PVALID # OLD PERSIAN SIGN AURAMAZDA..OLD PERSIAN SIG
AR
103D0..103D5; DISALLOWED # OLD PERSIAN WORD DIVIDER..OLD PERSIAN NUMBER
103D6..103FF; UNASSIGNED # <reserved>..<reserved>
10400..10427; DISALLOWED # DESERET CAPITAL LETTER LONG I..DESERET CAPITAL
10428..1044D; PVALID # DESERET SMALL LETTER LONG I..OMANYA LETTER
1049E..1049F; UNASSIGNED # <reserved>..<reserved>
104A0..104A9; PVALID # OSMANYA DIGIT ZERO..OSMANYA DIGIT NINE
104AA..104AF; UNASSIGNED # <reserved>..<reserved>
104B0..104D3; DISALLOWED # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D4..104DF; UNASSIGNED # <reserved>..<reserved>
104D8..104FB; PVALID # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
104FC..104FF; UNASSIGNED # <reserved>..<reserved>
10500..10527; PVALID  # ELBASAN LETTER A..ELBASAN LETTER KHE
10528..1052F; UNASSIGNED # <reserved>..<reserved>
10530..10563; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
10564..1056E; UNASSIGNED # <reserved>..<reserved>
1056F; DISALLOWED  # CAUCASIAN ALBANIAN CITATION MARK
10570..105FF; UNASSIGNED # <reserved>..<reserved>
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10737..1073F; UNASSIGNED # <reserved>..<reserved>
10740..10755; PVALID  # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10756..1075F; UNASSIGNED # <reserved>..<reserved>
10760..10767; PVALID  # LINEAR A SIGN A800..LINEAR A SIGN A807
10768..107FF; UNASSIGNED # <reserved>..<reserved>
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10806..10807; UNASSIGNED # <reserved>..<reserved>
10808; PVALID  # CYPROE SYLLABLE JO
10809; UNASSIGNED # <reserved>
1080A..10835; PVALID  # CYPROE SYLLABLE KA..CYPROE SYLLABLE WO
10836; UNASSIGNED # <reserved>
10837..1083F; PVALID  # CYPROE SYLLABLE XA..CYPROE SYLLABLE XE
10839..1083B; UNASSIGNED # <reserved>..<reserved>
1083C; PVALID  # CYPROE SYLLABLE ZA
1083D..1083E; UNASSIGNED # <reserved>..<reserved>
1083F..10855; PVALID  # CYPROE SYLLABLE ZO..IMPERIAL ARAMAIC LETTER
10856; UNASSIGNED # <reserved>
10857..1085F; DISALLOWED # IMPERIAL ARAMAIC SECTION SIGN..IMPERIAL ARAM
10860..10876; PVALID  # PALMYRENE LETTER ALEPH..PALMYRENE LETTER TAW
10877..1087F; DISALLOWED # PALMYRENE LEFT-POINTING FLEURON..PALMYRENE N
10880..1089F; PVALID  # NABATAEAN LETTER FINAL ALEPH..NABATAEAN LETTER
1089F..108A6; UNASSIGNED # <reserved>..<reserved>
108A7..108AF; DISALLOWED # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
108B0..108DF; UNASSIGNED # <reserved>..<reserved>
108E0..108F2; PVALID  # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F3; UNASSIGNED # <reserved>
108F4..108F5; PVALID  # HATRAN LETTER SHIN..HATRAN LETTER TAW
108F6..108FA; UNASSIGNED # <reserved>..<reserved>
108FB..1091F; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
10900..10915; PVALID  # PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU
10916..1091B; DISALLOWED # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR
1091C..1091E; UNASSIGNED # <reserved>..<reserved>
1091F; DISALLOWED  # PHOENICIAN WORD SEPARATOR
10920..10939; PVALID  # LYDIAN LETTER A..LYDIAN LETTER C
1093A..1093F; UNASSIGNED # <reserved>..<reserved>
1093F; DISALLOWED  # LYDIAN TRIANGULAR MARK
10940..1097F; UNASSIGNED # <reserved>..<reserved>
10980..109B7; PVALID  # MEROITIC HIEROGLYPHIC LETTER A..MEROITIC CUR
109B8..109BB; UNASSIGNED # <reserved>..<reserved>
109BC..109BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
109BE..109BF; PVALID  # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
109C0..109CF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIVE
109D0..109D1; UNASSIGNED # <reserved>..<reserved>
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI
10A00..10A03; PVALID # KHALROSHTHI LETTER A..KHALROSHTHI VOWEL SIGN V
10A04 ; UNASSIGNED # <reserved>
10A05..10A06; PVALID # KHALROSHTHI VOWEL SIGN E..KHALROSHTHI VOWEL SI
10A07..10A0B; UNASSIGNED # <reserved>..<reserved>
10A0C..10A13; PVALID # KHALROSHTHI VOWEL LENGTH MARK..KHALROSHTHI LET
10A14 ; UNASSIGNED # <reserved>
10A15..10A17; PVALID # KHALROSHTHI LETTER CA..KHALROSHTHI LETTER JA
10A18 ; UNASSIGNED # <reserved>
10A19..10A35; PVALID # KHALROSHTHI LETTER N ya..KHALROSHTHI LETTER VHA
10A36..10A37; UNASSIGNED # <reserved>..<reserved>
10A38..10A3A; PVALID # KHALROSHTHI SIGN BAR ABOVE..KHALROSHTHI SIGN D
10A3B..10A3E; UNASSIGNED # <reserved>..<reserved>
10A3F ; PVALID # KHALROSHTHI VIRAMA
10A40..10A48; DISALLOWED # KHALROSHTHI DIGIT ONE..KHALROSHTHI FRACTION ON
10A49..10A4F; UNASSIGNED # <reserved>..<reserved>
10A50..10A58; DISALLOWED # KHALROSHTHI PUNCTUATION DOT..KHALROSHTHI PUNCT
10A59..10A5F; UNASSIGNED # <reserved>..<reserved>
10A60..10A7C; PVALID # OLD SOUTH ARABIAN LETTER HE..OLD SOUTH ARABI
10A7D..10A7F; DISALLOWED # OLD SOUTH ARABIAN NUMBER ONE..OLD SOUTH ARAB
10A80..10A9C; PVALID # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10A9D..10A9F; DISALLOWED # OLD NORTH ARABIAN NUMBER ONE..OLD NORTH ARAB
10A9A0..10A9A0; UNASSIGNED # <reserved>..<reserved>
10A9C7; PVALID # MANICHAEAN LETTER ALEPH..MANICHAEAN LETTER W
10AC8 ; DISALLOWED # MANICHAEAN SIGN UD
10AC9..10AE6; PVALID # MANICHAEAN LETTER ZAYIN..MANICHAEAN ABBREVIAT
10AE7..10AE8; UNASSIGNED # <reserved>..<reserved>
10AEF..10AFF; UNASSIGNED # <reserved>..<reserved>
10B00..10B35; PVALID # AVESTAN LETTER A..AVESTAN LETTER HE
10B36..10B38; UNASSIGNED # <reserved>..<reserved>
10B39..10B3F; DISALLOWED # AVESTAN ABBREVIATION MARK..LARGE ONE RING OV
10B40..10B55; PVALID # INSCRIPTIONAL PARTHIAN LETTER ALEPH..INSCRIPT
10B56..10B57; UNASSIGNED # <reserved>..<reserved>
10B58..10B5F; DISALLOWED # INSCRIPTIONAL PARTHIAN NUMBER ONE..INSCRIPTI
10B60..10B72; PVALID # INSCRIPTIONAL PAHLAVI LETTER ALEPH..INSCRIPT
10B73..10B77; UNASSIGNED # <reserved>..<reserved>
10B78..10B7F; DISALLOWED # INSCRIPTIONAL PAHLAVI NUMBER ONE..INSCRIPTIO
10B80..10B91; PVALID # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10B92..10B98; UNASSIGNED # <reserved>..<reserved>
10B99..10B9C; DISALLOWED # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10B9D..10BA8; UNASSIGNED # <reserved>..<reserved>
10B9B..10B9F; DISALLOWED # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAV
10BB0..10BBF; UNASSIGNED # <reserved>..<reserved>
10C00..10C48; PVALID # OLD TURKIC LETTER ORKHON A..OLD TURKIC LETTE
10C49..10C7F; UNASSIGNED # <reserved>..<reserved>
10C80..10CB2; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIAN NUMBER ONE
10CB3..10CBF; UNASSIGNED # <reserved>..<reserved>
10CC0..10CF2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN NUMBER ONE
10CF3..10CF9; UNASSIGNED # <reserved>..<reserved>
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMBER ONE THOUSAND
10D00..10D27; PVALID # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SECTION MARK
10D28..10D2F; UNASSIGNED # <reserved>..<reserved>
10D30..10D39; PVALID # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA DIGIT NINE
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 NUMBER NINE
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 HALFTONE
10F5A..10FF; 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 THOUSAND
11066..1106F; PVALID # BRAHMI DIGIT ZERO..BRAHMI DIGIT NINE
11070..1107E; UNASSIGNED # <reserved>..<reserved>
1107F..1108A; PVALID # BRAHMI NUMBER JOINER..KAITHI SIGN NUKTA
1108B..110C1; DISALLOWED # KAITHI ABBREVIATION SIGN..KAITHI DOUBLE DAND
110C2..110CC; UNASSIGNED # <reserved>..<reserved>
110CD ; DISALLOWED # KAITHI NUMBER SIGN ABOVE
110CE..110CF; UNASSIGNED # <reserved>..<reserved>
110D0..110E8; PVALID # SORA SOMPENG LETTER SAH..SORA SOMPENG LETTER S
110E9..110EF; UNASSIGNED # <reserved>..<reserved>
110F0..110F9; PVALID # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT NINE
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 MARK
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 SANSKRIT DIGIT ZERO..SHARADA EXTRA SHORT VOWEL
111CD ; DISALLOWED # SHARADA SUTRA MARK
111CE..111CF; UNASSIGNED # <reserved>..<reserved>
\texttt{111D0..111DA}; \texttt{PVALID} # SHARADA DIGIT ZERO..SHARADA EKAM
\texttt{111DB}; \texttt{DISALLOWED} # SHARADA SIGN SIDDHAM
\texttt{111DC}; \texttt{PVALID} # SHARADA HEADSTROKE
\texttt{111DD..111DF}; \texttt{DISALLOWED} # SHARADA CONTINUATION SIGN..SHARADA SECTION M
\texttt{111E0}; \texttt{UNASSIGNED} # <reserved>
\texttt{111E1..111F4}; \texttt{DISALLOWED} # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
\texttt{111F5..111FF}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{11200..11211}; \texttt{PVALID} # KHOJKI LETTER A..KHOJKI LETTER JJA
\texttt{11212}; \texttt{UNASSIGNED} # <reserved>
\texttt{11213..11237}; \texttt{PVALID} # KHOJKI LETTER NYA..KHOJKI SIGN SHARADA
\texttt{11238..1123D}; \texttt{DISALLOWED} # KHOJKI DANDA..KHOJKI ABBREVIATION SIGN
\texttt{1123E}; \texttt{PVALID} # KHOJKI SIGN SUKUN
\texttt{1123F..1127F}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{11280..11286}; \texttt{PVALID} # MULTANI LETTER A..MULTANI LETTER GA
\texttt{11287}; \texttt{UNASSIGNED} # <reserved>
\texttt{11288}; \texttt{PVALID} # MULTANI LETTER GHA
\texttt{11289}; \texttt{UNASSIGNED} # <reserved>
\texttt{1128A..1128D}; \texttt{PVALID} # MULTANI LETTER BA..MULTANI LETTER JJA
\texttt{1128E}; \texttt{UNASSIGNED} # <reserved>
\texttt{1128F..1129D}; \texttt{PVALID} # MULTANI LETTER BHA..MULTANI LETTER RHA
\texttt{11299}; \texttt{UNASSIGNED} # <reserved>
\texttt{1129A..112AF}; \texttt{DISALLOWED} # <reserved>..<reserved>
\texttt{112B0..112EA}; \texttt{PVALID} # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
\texttt{112EB..112EF}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{112F0..112F9}; \texttt{PVALID} # KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE
\texttt{112FA..112FF}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{11300..1130C}; \texttt{PVALID} # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
\texttt{1130D..1130E}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{1130F..11310}; \texttt{PVALID} # GRANTHA LETTER EE..GRANTHA LETTER AI
\texttt{11311..11312}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{11313..11328}; \texttt{PVALID} # GRANTHA LETTER OO..GRANTHA LETTER NA
\texttt{11329}; \texttt{UNASSIGNED} # <reserved>
\texttt{1132A..11330}; \texttt{PVALID} # GRANTHA LETTER PA..GRANTHA LETTER RA
\texttt{11331}; \texttt{UNASSIGNED} # <reserved>
\texttt{11332..11333}; \texttt{PVALID} # GRANTHA LETTER LA..GRANTHA LETTER LLA
\texttt{11334}; \texttt{UNASSIGNED} # <reserved>
\texttt{11335..11339}; \texttt{PVALID} # GRANTHA LETTER VA..GRANTHA LETTER HA
\texttt{1133A}; \texttt{UNASSIGNED} # <reserved>
\texttt{1133B..11344}; \texttt{PVALID} # COMBINING BINDU BELOW..GRANTHA VOWEL SIGN VO
\texttt{11345..11346}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{11347..11348}; \texttt{PVALID} # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
\texttt{11349..1134A}; \texttt{UNASSIGNED} # <reserved>..<reserved>
\texttt{1134B..1134D}; \texttt{PVALID} # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
\texttt{1134E..1134F}; \texttt{UNASSIGNED} # <reserved>..<reserved>
11350 ; PVALID # GRANTHA OM
11351..11356; UNASSIGNED # <reserved>..<reserved>
11357 ; PVALID # GRANTHA AU LENGTH MARK
11358..1135C; UNASSIGNED # <reserved>..<reserved>
1135D..11363; PVALID # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11364..11365; UNASSIGNED # <reserved>..<reserved>
11366..1136C; PVALID # COMBINING GRANTHA DIGIT ZERO..COMBINING GRAN
1136D..1136F; UNASSIGNED # <reserved>..<reserved>
11370..11374; PVALID # COMBINING GRANTHA LETTER A..COMBINING GRANTH
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..11457F; UNASSIGNED # <reserved>..<reserved>
11580..1158B5; 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..115DD; PVALID # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SID
115DE..115FF; UNASSIGNED # <reserved>..<reserved>
11600..11640; PVALID # MODI LETTER A..MODI SIGN ARDHACANDRA
11641..11643; DISALLOWED # MODI DANDA..MODI ABBREVIATION SIGN
11644 ; PVALID # MODI SIGN HUVA
11645..1164F; UNASSIGNED # <reserved>..<reserved>
11650..11659; PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
1165A..1165F; UNASSIGNED # <reserved>..<reserved>
11660..1166C; DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
1166D..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
1173A..1173F; DISALLOWED # AHOM NUMBER TEN..AHOM SYMBOL VI
11740..117FF; UNASSIGNED # <reserved>..<reserved>
11800..1183A; PVALID # DOGRA LETTER A..DOGRA SIGN NUKTA
1183B; DISALLOWED # DOGRA ABBREVIATION SIGN
1183C..1189F; UNASSIGNED # <reserved>..<reserved>
118A0..118BF; DISALLOWED # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI
118C0..118E9; PVALID # WARANG CITI SMALL LETTER NGAA..WARANG CITI D
118EA..118F2; DISALLOWED # WARANG CITI NUMBER TEN..WARANG CITI NUMBER N
118F3..118FE; UNASSIGNED # <reserved>..<reserved>
118FF; PVALID # WARANG CITI OM
11900..119FF; UNASSIGNED # <reserved>..<reserved>
11A00..11A3E; PVALID # ZANABAZAR SQUARE LETTER A..ZANABAZAR SQUARE
11A3F..11A46; DISALLOWED # ZANABAZAR SQUARE INITIAL HEAD MARK..ZANABAZA
11A47; PVALID # ZANABAZAR SQUARE SUBJOINER
11A48..11A4F; UNASSIGNED # <reserved>..<reserved>
11A50..11A83; PVALID # SOYOMBO LETTER A..SOYOMBO LETTER KSSA
11A84..11A85; UNASSIGNED # <reserved>..<reserved>
11A86..11A99; PVALID # SOYOMBO CLUSTER-INITIAL LETTER RA..SOYOMBO S
11A9A..11A9C; DISALLOWED # SOYOMBO MARK TSHEG..SOYOMBO MARK DOUBLE SHAD
11A9D; PVALID # SOYOMBO MARK PLUTA
11A9E..11AA2; DISALLOWED # SOYOMBO HEAD MARK WITH MOON AND SUN AND TRIP
11AA3..11ABF; UNASSIGNED # <reserved>..<reserved>
11AC0..11AF8; PVALID # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
11AF9..11BFF; UNASSIGNED # <reserved>..<reserved>
11C00..11C09; PVALID # BHAIKSU Letter A..BHAIKSU LETTER VOCALIC
11C0A..11C36; PVALID # BHAIKSU LETTER E..BHAIKSU VOWEL SIGN VOC
11C37; UNASSIGNED # <reserved>
11C38..11C40; PVALID # BHAIKSU VOWEL SIGN E..BHAIKSU SIGN AVAGR
11C41..11C45; DISALLOWED # BHAIKSU DANDA..BHAIKSU GAP FILLER-2
11C46..11C4F; UNASSIGNED # <reserved>..<reserved>
11C50..11C59; PVALID # BHAIKSU DIGIT ZERO..BHAIKSU DIGIT NINE
11C5A..11C6C; DISALLOWED # BHAIKSU NUMBER ONE..BHAIKSU HUNDREDS UNI
11C6D..11C6F; UNASSIGNED # <reserved>..<reserved>
11C70..11C71; DISALLOWED # MARCHEN HEAD MARK..MARCHEN MARK SHAD
11C72..11C8F; PVALID # MARCHEN LETTER KA..MARCHEN LETTER A
11C90..11C91; UNASSIGNED # <reserved>..<reserved>
11C92..11CA7; PVALID # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
11CA8; UNASSIGNED # <reserved>
11CA9..11CB6; PVALID # MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA
11CB7..11CFF; UNASSIGNED # <reserved>..<reserved>
11D00..11D06; PVALID # MASARAM GONDI LETTER A..MASARAM GONDI LETTER
11D07; UNASSIGNED # <reserved>
11D08..11D09; PVALID # MASARAM GONDI LETTER AI..MASARAM GONDI LETTE
11D0A; UNASSIGNED # <reserved>
11D0B..11D35; 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..11D8F; PVALID # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGI
11D90..11D91; PVALID # GUNJALA GONDI DIGIT EE..GUNJALA GONDI LETTER
11D92 ; UNASSIGNED # <reserved>
11D93..11D98; PVALID # GUNJALA GONDI DIACRITIC ACCENT..GUNJALA GONDI
11D99..11D9F; UNASSIGNED # <reserved>...<reserved>
11DA0..11D9F; PVALID # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGI
11DAA..11DDF; UNASSIGNED # <reserved>...<reserved>
11EE0..11EF6; PVALID # MAKASAR LETTER KA..MAKASAR VOWEL SIGN O
11EE7..11EF8; DISALLOWED # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11EF9..11FFF; UNASSIGNED # <reserved>...<reserved>
12000..1239F; 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..1342E; PVALID # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYP
1342F..134FF; UNASSIGNED # <reserved>...<reserved>
14400..14646; PVALID # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGL
14647..146FF; UNASSIGNED # <reserved>...<reserved>
16800..16A3B; PVALID # BAMUM LETTER PHASE-A NGKUE MFON..BAMUM LETTE
16A3C..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..16A7F; UNASSIGNED # <reserved>...<reserved>
16A80..16A8B; PVALID # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16A8C..16A9F; UNASSIGNED # <reserved>...<reserved>
16A90..16A94; PVALID # BASSA VAH COMBINING HIGH TONE..BASSA VAH COM
16A95 ; DISALLOWED # BASSA VAH FULL STOP
16A96..16A9F; UNASSIGNED # <reserved>...<reserved>
16B00..16B36; PVALID # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG MARK C
1D129..1D1E8; DISALLOWED  # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICAL
1D1E9..1D1FF; UNASSIGNED  # <reserved>..<reserved>
1D200..1D245; DISALLOWED  # GREEK VOCAL NOTATION SYMBOL-1..GREEK MUSICAL
1D246..1D2DF; UNASSIGNED  # <reserved>..<reserved>
1D2E0..1D2F3; DISALLOWED  # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D2F4..1D2FF; UNASSIGNED  # <reserved>..<reserved>
1D300..1D356; DISALLOWED  # MONOGRAM FOR EARTH..TETRAGRAM FOR FOSTERING
1D357..1D35F; UNASSIGNED  # <reserved>..<reserved>
1D360..1D378; DISALLOWED  # COUNTING ROD UNIT DIGIT ONE..TALLY MARK FIVE
1D379..1D3FF; UNASSIGNED  # <reserved>..<reserved>
1D400..1D454; DISALLOWED  # MATHEMATICAL BOLD CAPITAL A..MATHEMATICAL IT
1D455; UNASSIGNED  # <reserved>
1D456..1D49C; DISALLOWED  # MATHEMATICAL ITALIC SMALL I..MATHEMATICAL SC
1D49D; UNASSIGNED  # <reserved>
1D49E..1D49F; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL C..MATHEMATICAL
1D4A0..1D4A1; UNASSIGNED  # <reserved>..<reserved>
1D4A2; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL G
1D4A3..1D4A4; UNASSIGNED  # <reserved>..<reserved>
1D4A5..1D4A6; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL J..MATHEMATICAL
1D4A7..1D4A8; UNASSIGNED  # <reserved>..<reserved>
1D4A9..1D4AC; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL N..MATHEMATICAL
1D4AD; UNASSIGNED  # <reserved>
1D4AE..1D4B9; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL
1D4BA; UNASSIGNED  # <reserved>
1D4BB; DISALLOWED  # MATHEMATICAL SCRIPT SMALL F
1D4BC; UNASSIGNED  # <reserved>
1D4BD..1D4C3; DISALLOWED  # MATHEMATICAL SCRIPT SMALL H..MATHEMATICAL SC
1D4C4; UNASSIGNED  # <reserved>
1D4C5..1D505; DISALLOWED  # MATHEMATICAL SCRIPT SMALL P..MATHEMATICAL FR
1D506; UNASSIGNED  # <reserved>
1D507..1D50A; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL D..MATHEMATICAL
1D50B..1D50C; UNASSIGNED  # <reserved>..<reserved>
1D50D..1D514; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL J..MATHEMATICAL
1D515; UNASSIGNED  # <reserved>
1D516..1D51C; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL S..MATHEMATICAL
1D51D; UNASSIGNED  # <reserved>
1D51E..1D539; DISALLOWED  # MATHEMATICAL FRAKTUR SMALL A..MATHEMATICAL D
1D53A; UNASSIGNED  # <reserved>
1D53B..1D53E; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL D..MATHEM
1D53F; UNASSIGNED  # <reserved>
1D540..1D544; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL I..MATHEM
1D545; UNASSIGNED  # <reserved>
1D546; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL O
1D547..1D549; UNASSIGNED  # <reserved>..<reserved>
1D54A..1D550; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL S..MATHEM
1D551; UNASSIGNED  # <reserved>
1D552..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 SUCKING
1DA37..1DA3A; DISALLOWED # SIGNWRITING AIR BLOW SMALL ROTATIONS..SIGNWRITING MOUTH CLOSED NEUTRAL
1DA6D..1DA74; DISALLOWED # SIGNWRITING SHOULDER HIP SPINE..SIGNWRITING UPPER BODY TILTING FROM HIP JOIN
1DA75; PVALID # SIGNWRITING LOCATION HEAD NECK
1DA76..1DA83; DISALLOWED # SIGNWRITING LIMB COMBINATION..SIGNWRITING LOCATION HEAD NECK
1DA84; PVALID # SIGNWRITING FILL MODIFIER-2..SIGNWRITING FILL MODIFIER-2
1DA90; UNASSIGNED # <reserved>
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1E085..1E086; PVALID # MENDE KIKAKUI SYLLABLE M001 KI..MENDE KIKAKUI SYLLABLE M001 KI
1E087..1E08C; DISALLOWED # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI DIGIT ONE
1E08D..1E090; PVALID # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI DIGIT ONE
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1EE34..1EE37; DISALLOWED # ARABIC MATHEMATICAL INITIAL SHEEN..ARABIC MA
1EE38 ; UNASSIGNED # <reserved>
1EE39 ; DISALLOWED # ARABIC MATHEMATICAL INITIAL DAD
1EE3A ; UNASSIGNED # <reserved>
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1EE3C..1EE41; UNASSIGNED # <reserved>..<reserved>
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1EE4D..1EE4F; DISALLOWED # ARABIC MATHEMATICAL TAILED NOON..ARABIC MATH
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1EE51..1EE52; DISALLOWED # ARABIC MATHEMATICAL TAILED SAD..ARABIC MATHE
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1EE54 ; DISALLOWED # ARABIC MATHEMATICAL TAILED SHEEN
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1EE5F ; DISALLOWED # ARABIC MATHEMATICAL TAILED DOTLESS QAF
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1EE64 ; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HEH
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1EE67..1EE6A; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HAH..ARABIC MA
1EE6B ; UNASSIGNED # <reserved>
1EE6C..1EE72; DISALLOWED # ARABIC MATHEMATICAL STRETCHED MEEM..ARABIC M
1EE73 ; UNASSIGNED # <reserved>
1EE74..1EE77; DISALLOWED # ARABIC MATHEMATICAL STRETCHED SHEEN..ARABIC
1EE78 ; UNASSIGNED # <reserved>
1EE79..1EE7C; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DAD..ARABIC MA
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1EE7E ; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DOTLESS FEH
1EE7F ; UNASSIGNED # <reserved>
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1EE8B..1EE89; DISALLOWED # ARABIC MATHEMATICAL LOOPED LAM..ARABIC MATHE
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>
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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 SPAD
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 CIRCL
1F10D..1F10F; UNASSIGNED # <reserved>..<reserved>
1F110..1F16B; DISALLOWED # PARENTHEZIZED LATIN CAPITAL LETTER A..RAISED
1F16C..1F16F; UNASSIGNED # <reserved>..<reserved>
1F170..1F1AC; DISALLOWED # NEGATIVE SQUARED LATIN CAPITAL LETTER A..SQU
1F1AD..1F1E5; UNASSIGNED # <reserved>..<reserved>
1F1E6..1F202; DISALLOWED # REGIONAL INDICATOR SYMBOL LETTER A..SQUA
1F203..1F20F; UNASSIGNED # <reserved>..<reserved>
1F210..1F23B; DISALLOWED # SQUARED CJK UNIFIED IDEOGRAPH-624B..SQUA
1F23C..1F23F; UNASSIGNED # <reserved>..<reserved>
1F240..1F248; DISALLOWED # TORTOISE SHELL BRACKETED CJK UNIFIED IDEOGRAPH
1F249..1F24F; UNASSIGNED # <reserved>..<reserved>
1F250..1F251; DISALLOWED # CIRCLED IDEOGRAPH ADVANTAGE..CIRCLED IDEOGRAPH
1F252..1F25F; UNASSIGNED # <reserved>..<reserved>
1F260..1F265; DISALLOWED # ROUNDED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F266..1F2FF; UNASSIGNED # <reserved>..<reserved>
1F300..1F6D4; DISALLOWED # CYCLONE..PAGODA
1F6D5..1F6DF; UNASSIGNED # <reserved>..<reserved>
1F6E0..1F6EC; DISALLOWED # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F6ED..1F6EF; UNASSIGNED # <reserved>..<reserved>
1F6F0..1F6F9; DISALLOWED # SATELLITE..SKATEBOARD
1F6FA..1F6FF; UNASSIGNED # <reserved>..<reserved>
1F700..1F773; DISALLOWED # ALCHEMICAL SYMBOL FOR QUINTESSENCE..ALCHEMIC
1F774..1F77F; UNASSIGNED # <reserved>..<reserved>
1F780..1F7D8; DISALLOWED  # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F7D9..1F7FF; UNASSIGNED  # <reserved>..<reserved>
1F800..1F80B; DISALLOWED  # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEAD
1F80C..1F80F; UNASSIGNED  # <reserved>..<reserved>
1F810..1F847; DISALLOWED  # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F848..1F84F; UNASSIGNED  # <reserved>..<reserved>
1F850..1F859; DISALLOWED  # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SERIF ARROW
1F85A..1F85F; UNASSIGNED  # <reserved>..<reserved>
1F860..1F887; DISALLOWED  # WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE LIGHT BARB ARROW
1F888..1F88F; UNASSIGNED  # <reserved>..<reserved>
1F890..1F8AD; DISALLOWED  # LEFTWARDS TRIPLE ARROW..WHITE VERTICAL TRIPLE BAR ARROW
1F8AE..1F8FF; UNASSIGNED  # <reserved>..<reserved>
1F900..1F90F; DISALLOWED  # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWARD-DIGIT SIX
1F910..1F91F; DISALLOWED  # <reserved>..<reserved>
1F920..1F929; DISALLOWED  # ZIPPER-MOUTH FACE..HANDBALL
1F93F; UNASSIGNED  # <reserved>
1F940..1F970; DISALLOWED  # WILTED FLOWER..SMILING FACE WITH SMILING EYES
1F971..1F972; UNASSIGNED  # <reserved>..<reserved>
1F973..1F976; DISALLOWED  # FACE WITH PARTY HORN AND PARTY HAT..FREEZING FACE
1F977..1F979; UNASSIGNED  # <reserved>..<reserved>
1F97A; DISALLOWED  # FACE WITH PLEADING EYES
1F97B; UNASSIGNED  # <reserved>
1F97C..1F982; DISALLOWED  # LAB COAT..SWAN
1F983..1F9AF; UNASSIGNED  # <reserved>..<reserved>
1F9B0..1F9BF; DISALLOWED  # EMOJI COMPONENT RED HAIR..SUPERVILLAIN
1F9C0..1F9C2; DISALLOWED  # CHEESE WEDGE..SALT SHAKER
1F9C3..1F9CF; UNASSIGNED  # <reserved>..<reserved>
1F9D0..1F9FF; DISALLOWED  # FACE WITH MONOCLE..NAZAR AMULET
1FA00..1FA5F; UNASSIGNED  # <reserved>..<reserved>
1FA60..1FA6D; DISALLOWED  # XIANGQI RED GENERAL..XIANGQI BLACK SOLDIER
1FA6E..1FFFD; UNASSIGNED  # <reserved>..<reserved>
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2A700..2B734; PVALID  # <CJK Ideograph Extension C>..<CJK Ideograph Extension K>
2B735..2B73F; UNASSIGNED  # <reserved>..<reserved>
2B740..2B81D; PVALID  # <CJK Ideograph Extension L>..<CJK Ideograph Extension M>
2B81E..2B81F; UNASSIGNED  # <reserved>..<reserved>
2B820..2CEAF; PVALID  # <CJK Ideograph Extension N>..<CJK Ideograph Extension U>
2CEA2..2CEAF; UNASSIGNED  # <reserved>..<reserved>
2CEB0..2EBE0; PVALID  # <CJK Ideograph Extension V>..<CJK Ideograph Extension X>
2EBE1..2F7FF; UNASSIGNED  # <reserved>..<reserved>
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### Range Assignments

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