IDNA2008 and Unicode 11.0.0
draft-faltstrom-unicodel1-08

Abstract

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

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

TO BE REMOVED AT TIME OF PUBLICATION AS AN RFC:

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

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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 DISSALLOWED. They were examined in great detail and IETF concluded that the consensus is that no update was needed to RFC 5892 [RFC5892] based on the changes made to the Unicode standard.

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

2. Keywords for Requirement Levels

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

3. Background

3.1. IDNA2008 Documents

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

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

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

- The Unicode Code Points and Internationalized Domain Names for Applications (IDNA) [RFC5892], informally called "Tables", lists the categories and rules that identify the code points allowed in a label written in native character form (called a "U-label"), and is based on Unicode 5.2.0 [Unicode-5.2.0] code point assignments and additional rules unique to IDNA2008. The Unicode-based rules in RFC 4892 are expected to be stable across Unicode updates and hence independent of Unicode versions. RFC 5892 [RFC5892]
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 6.0.0 [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 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/](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 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 ZANABAZAR 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 IDNA2008, the editor proposes that such a BackwardCompatible rule NOT to be added to IDNA2008.

6. Conclusion

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

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

7. IANA Considerations

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

8. Security Considerations

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

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

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

10. References

10.1. Normative References


10.2. Non-normative references


Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0

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

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
<table>
<thead>
<tr>
<th>Codepoints</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20BB..20BD</td>
<td>DISALLOWED</td>
<td>NORDIC MARK SIGN..RUBLE SIGN</td>
</tr>
<tr>
<td>23F4..23FA</td>
<td>DISALLOWED</td>
<td>BLACK MEDIUM LEFT-POINTING TRIANGLE..BLACK C</td>
</tr>
<tr>
<td>2700</td>
<td>DISALLOWED</td>
<td>BLACK SAFETY SCISSORS</td>
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<td>2B4D..2B4F</td>
<td>DISALLOWED</td>
<td>DOWNWARDS TRIANGLE-HEADED ZIGZAG ARROW..SHOR</td>
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<tr>
<td>2B5A..2B73</td>
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<td>SLANTED NORTH ARROW WITH HOOKED HEAD..DOWNWA</td>
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<tr>
<td>2B76..2B95</td>
<td>DISALLOWED</td>
<td>NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG</td>
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<td>DISALLOWED</td>
<td>THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR</td>
</tr>
<tr>
<td>2BBD..2BC8</td>
<td>DISALLOWED</td>
<td>BALLOT BOX WITH LIGHT X..BLACK MEDIUM RIGHT-</td>
</tr>
<tr>
<td>2BCA..2BD1</td>
<td>DISALLOWED</td>
<td>TOP HALF BLACK CIRCLE..UNCERTAINTY SIGN</td>
</tr>
<tr>
<td>2E3C..2E42</td>
<td>DISALLOWED</td>
<td>STENOGRAPHIC FULL STOP..DOUBLE LOW-REVISED-</td>
</tr>
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<td>DISALLOWED</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER C WITH PALATAL HOOK..LATI</td>
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<td>A7AB..A7AD</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER REVERSED OPEN E..LATIN</td>
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<td>LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL</td>
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<td>OLD PERMIC LETTER AN..COMBINING OLD PERMIC L</td>
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<td>PVALID</td>
<td>ELBASAN LETTER A..ELBASAN LETTER KHE</td>
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<td>CAUCASIAN ALBANIAN CITATION MARK</td>
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<td>OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB</td>
</tr>
<tr>
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<td>PVALID</td>
<td>MANICHAEAN LETTER ALEPH..MANICHAEAN ABBREVIA</td>
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<tr>
<td>111DA</td>
<td>PVALID</td>
<td>SHARADA EKAM</td>
</tr>
<tr>
<td>111E1..111F4</td>
<td>DISALLOWED</td>
<td>SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N</td>
</tr>
<tr>
<td>11200..11211</td>
<td>PVALID</td>
<td>KOJIKI LETTER A..KOJIKI LETTER JJA</td>
</tr>
<tr>
<td>11213..1123D</td>
<td>PVALID</td>
<td>KOJIKI LETTER NYA..KOJIKI ABBREVIATION SIGN</td>
</tr>
<tr>
<td>112B0..112EA</td>
<td>PVALID</td>
<td>KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA</td>
</tr>
<tr>
<td>112F0..112F9</td>
<td>PVALID</td>
<td>KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE</td>
</tr>
</tbody>
</table>
11301..11303; PVALID  # GRANTHA SIGN CANDRABINDU..GRANTHA SIGN VISAR
11305..1130C; PVALID  # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130F..11310; PVALID  # GRANTHA LETTER EE..GRANTHA LETTER AI
1132A..11330; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11332..11333; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LLA
11335..11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..11344; PVALID  # GRANTHA SIGN NUKTA..GRANTHA VOWEL SIGN VOCAL
11347..11348; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
1134B..1134D; PVALID  # GRANTHA VOWEL SIGN OO..GRANTHA VOWEL SIGN VIRAMA
11357 ; PVALID  # GRANTHA AU LENGTH MARK
1135D..11363; PVALID  # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11366..1136C; PVALID  # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA DIGIT NINE
11480..114C7; PVALID  # TIRHUTA ANJI..TIRHUTA OM
114D0..114D9; PVALID  # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
11580..115B5; PVALID  # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B8..115C9; PVALID  # SIDDHAM VOWEL SIGN E..SIDDHAM END OF TEXT MARK
11600..11644; PVALID  # MODI LETTER A..MODI SIGN HUVA
11650..11659; PVALID  # MODI DIGIT ZERO..MODI DIGIT NINE
118A0..118F2; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI CAPITAL LETTER NA
118FF ; PVALID  # WARANG CITI OM
11AC0..11AF8; PVALID  # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
1236F..12398; PVALID  # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN U
12463..1246E; DISALLOWED  # CUNEIFORM NUMERIC SIGN ONE QUARTER GUR..CUNEIFORM NUMERIC SIGN ONE QUARTER GUR
12474 ; DISALLOWED  # CUNEIFORM PUNCTUATION SIGN DIAGONAL QUADCULO
16A40..16A5E; PVALID  # MRO LETTER TA..MRO LETTER TEK
16A60..16A69; PVALID  # MRO DIGIT ZERO..MRO DIGIT NINE
16A6E..16A6F; DISALLOWED  # MRO DANDA..MRO DOUBLE DANDA
16B00..16B45; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG SIGN C
16B50..16B59; PVALID  # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT NINE
16B61..16B66; DISALLOWED  # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBER NINE
16B6B..16B77; PVALID  # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN TANDING
16B7D..16B8F; PVALID  # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG CLAN SIGN TSHEEJ
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC70..1BC7C; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLOYAN AFFIX LEFT HORIZONTAL SECANT
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HIGH ACUTE
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW ACUTE
1BC9C..1BCA3; DISALLOWED  # DUPLOYAN SIGN O WITH CROSS..SHORTHAND FORMAT
1E800..1E8C4; PVALID  # MENDE KIKAKUI SYLLABLE M001 KI..MENDE KIKAKUI SYLLABLE M001 KI
1E8C7..1E8D6; DISALLOWED  # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI DIGIT ONE
1F0B8 ; DISALLOWED  # PLAYING CARD RED JOKER
1F0D0..1F0F5; DISALLOWED  # PLAYING CARD FOOL..PLAYING CARD TRUMP-21
1F108..1F10C; DISALLOWED  # DINGBAT CIRCLED SANS-SERIF DIGIT ZERO..DINGBATS
1F321..1F32C; DISALLOWED  # THERMOMETER..WIND BLOWING FACE
1F336 ; DISALLOWED  # HOT PEPPER
Appendix B. Changes from Unicode 7.0.0 to Unicode 8.0.0

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

08B3..08B4  ; PVALID      # ARABIC LETTER AIN WITH THREE DOTS BELOW..ARA
08E3        ; PVALID      # ARABIC TURNED DAMMA BELOW
0AF9        ; PVALID      # GUJARATI LETTER ZHA
0C5A        ; PVALID      # TELUGU LETTER RRRA
0D5F        ; PVALID      # MALAYALAM LETTER ARCHAIC II
13F5        ; PVALID      # CHEROKEE LETTER MV
13F8..13FD  ; DISALLOWED # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET
20BE        ; DISALLOWED # LARI SIGN
218A..218B  ; DISALLOWED # TURNED DIGIT TWO..TURNED DIGIT THREE
2BEC..2BEF  ; DISALLOWED # LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARR
9FCD..9FDF  ; PVALID      # <CJK Ideograph>..<CJK Ideograph>
A69E        ; PVALID      # COMBINING CYRILLIC LETTER EF
A78F        ; PVALID      # LATIN LETTER SINOLOGICAL DOT
A7B2..A7B7  ; DISALLOWED # LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LA
A8FC..A8FD  ; DISALLOWED # DEVANAGARI SIGN SIDDHAM..DEVANAGARI JAIN OM
AB60..AB63  ; PVALID      # LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LE
AB70..ABBF  ; DISALLOWED # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT
Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

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

08B6..08BD ; PVALID  # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
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>
1032D..1032F; PVALID      # OLD ITALIC LETTER YE..OLD ITALIC LETTER SOUT
11A00..11A47; PVALID      # ZANABAZAR SQUARE LETTER A..ZANABAZAR SQUARE
11A50..11A83; PVALID      # SOYOMBO LETTER A..SOYOMBO LETTER KSSA
11A86..11A9C; PVALID      # SOYOMBO CLUSTER-INITIAL LETTER RA..SOYOMBO M
11A9E..11AA2; DISALLOWED  # SOYOMBO HEAD MARK WITH MONTH AND SUN AND TRIP
11D00..11D06; PVALID      # MASARAM GONDI LETTER A..MASARAM GONDI LETTER
11D08..11D09; PVALID      # MASARAM GONDI LETTER AI..MASARAM GONDI LETTE
11D0B..11D36; PVALID      # MASARAM GONDI LETTER AU..MASARAM GONDI VOWEL
11D3A;       ; PVALID      # MASARAM GONDI VOWEL SIGN E
11D3C..11D3D; PVALID      # MASARAM GONDI VOWEL SIGN AI..MASARAM GONDI V
11D3F..11D47; PVALID      # MASARAM GONDI VOWEL SIGN AU..MASARAM GONDI R
11D50..11D59; PVALID      # MASARAM GONDI DIGIT ZERO..MASARAM GONDI DIGI
16FE1;       ; PVALID      # NUSHU ITERATION MARK
1B002..1B11E; PVALID      # HENTAIAGANA LETTER A-1..HENTAIAGANA LETTER N-M
1B170..1B2FB; PVALID      # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1F260..1F265; DISALLOWED  # ROUND SYMBOL FOR FU..ROUND SYMBOL FOR CA
1F6D3..1F6D4; DISALLOWED  # STUPA..PAGODA
1F6F7..1F6F8; DISALLOWED  # SLED..FLYING SAUCER
1F900..1F90B; DISALLOWED  # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWAR
1F91F;       ; DISALLOWED  # I LOVE YOU HAND SIGN
1F928..1F92F; DISALLOWED  # FACE WITH ONE EYEBROW RAISED..SHOCKED FACE W
1F931..1F932; DISALLOWED  # BREAST-FEEDING..PALMS UP TOGETHER
1F94C;       ; DISALLOWED  # CURLING STONE
1F95F..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  # TELEGU SIGN COMBINING ANUSVARA ABOVE
0C84 ; DISALLOWED  # KANNADA SIGN SIDDHAM
1878 ; PVALID  # MONGOLIAN LETTER CHA WITH TWO DOTS
1C90..1CBA ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBD..1CBF ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AEN..GEORGI
2BBA..2BBC ; DISALLOWED  # OVERLAPPING WHITE SQUARES..OVERLAPPING BLACK
2BD3..2BEB ; DISALLOWED  # PLUTO FORM TWO..STAR WITH RIGHT HALF BLACK
2BF0..2BFE ; DISALLOWED  # ERIS FORM ONE..REVERSED RIGHT ANGLE
2E4A..2E4E ; DISALLOWED  # DOTTED SOLIDUS..PUNCTUS ELEVATUS MARK
312F ; PVALID  # BOPOMOFO LETTER NN
9FEB..9FEF ; PVALID  # <CJK Ideograph>..<CJK Ideograph>
A7AF ; PVALID  # LATIN LETTER SMALL CAPITAL Q
A7B8..A7B9 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH STROKE..LATIN SM
A8FE..A8FF ; PVALID  # DEVANAGARI LETTER AY..DEVANAGARI VOWEL SIGN
10A34..10A35; PVALID  # KHALASSHTHI LETTER TTTA..KHALASSHTHI LETTER VH
10A48 ; DISALLOWED  # KHALASSHTHI FRACTION ONE HALF
10D00..10D27; PVALID  # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D30..10D39; PVALID  # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA SI
10F00..10F27; PVALID  # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LIGATU
10F30..10F59; PVALID  # SOGDIAN LETTER ALEPH..SOGDIAN PUNCTUATION HA
110CD ; DISALLOWED  # KATHI 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
119AD ; 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
Appendix F.  Code points in Unicode Character Database (UCD) format for Unicode 11.0.0

0000..002C ; DISALLOWED # <control>..COMMA
002D ; PVALID # HYPHEN-MINUS
002E..002F ; DISALLOWED # FULL STOP..SOLIDUS
0030..0039 ; PVALID # DIGIT ZERO..DIGIT NINE
003A..0060 ; DISALLOWED # COLON..GRAVE ACCENT
0061..007A ; PVALID # LATIN SMALL LETTER A..LATIN SMALL LETTER Z
007B..00B6 ; DISALLOWED # LEFT CURLY BRACKET..PILCROW SIGN
00B7 ; CONTEXTO # MIDDLE DOT
00B8..00DE ; DISALLOWED # CEDILLA..LATIN CAPITAL LETTER THORN
00DF..00F6 ; PVALID # LATIN SMALL LETTER SHARP S..LATIN SMALL LETTER T
00F7 ; DISALLOWED # DIVISION SIGN
00F8..00FF ; PVALID # LATIN SMALL LETTER O WITH STROKE..LATIN SMALL LETTER O WITH STROKE
0100 ; DISALLOWED # LATIN CAPITAL LETTER A..LATIN CAPITAL LETTER Z
0101 ; PVALID # LATIN SMALL LETTER A..LATIN SMALL LETTER Z
0102 ; DISALLOWED # LATIN CAPITAL LETTER A..LATIN CAPITAL LETTER A
0103 ; DISALLOWED # LATIN SMALL LETTER A..LATIN SMALL LETTER A
0104 ; DISALLOWED # LATIN CAPITAL LETTER A..LATIN CAPITAL LETTER A
0105 ; DISALLOWED # LATIN SMALL LETTER A..LATIN SMALL LETTER A
0106 ; DISALLOWED # LATIN CAPITAL LETTER A..LATIN CAPITAL LETTER A
0107 ; DISALLOWED # LATIN SMALL LETTER A..LATIN SMALL LETTER A
0108 ; DISALLOWED # LATIN CAPITAL LETTER A..LATIN CAPITAL LETTER A
0109 ; DISALLOWED # LATIN SMALL LETTER A..LATIN SMALL LETTER A
010A ; DISALLOWED # LATIN CAPITAL LETTER A..LATIN CAPITAL LETTER A
010B ; PVALID # LATIN SMALL LETTER A..LATIN SMALL LETTER A
010C ; DISALLOWED # LATIN CAPITAL LETTER A..LATIN CAPITAL LETTER A
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
0142; PVALID  # LATIN SMALL LETTER L WITH STROKE
0143; DISALLOWED  # LATIN CAPITAL LETTER N WITH ACUTE
0144; PVALID  # LATIN SMALL LETTER N WITH ACUTE
0145; DISALLOWED  # LATIN CAPITAL LETTER N WITH CEDILLA
0146; PVALID  # LATIN SMALL LETTER N WITH CEDILLA
0147; DISALLOWED  # LATIN CAPITAL LETTER N WITH CARON
0148; PVALID  # LATIN SMALL LETTER N WITH CARON
0149..014A  ; DISALLOWED  # LATIN SMALL LETTER N PRECEDED BY APOSTROPHE.
014B; PVALID  # LATIN SMALL LETTER ENG
014C; DISALLOWED  # LATIN CAPITAL LETTER O WITH MACRON
014D; PVALID  # LATIN SMALL LETTER O WITH MACRON
014E; DISALLOWED  # LATIN CAPITAL LETTER O WITH BREVE
014F; PVALID  # LATIN SMALL LETTER O WITH BREVE
0150; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
0151; PVALID  # LATIN SMALL LETTER O WITH DOUBLE ACUTE
0152; DISALLOWED  # LATIN CAPITAL LIGATURE OE
0153; PVALID  # LATIN SMALL LIGATURE OE
0154; DISALLOWED  # LATIN CAPITAL LETTER R WITH ACUTE
0155; PVALID  # LATIN SMALL LETTER R WITH ACUTE
0156; DISALLOWED  # LATIN CAPITAL LETTER R WITH CEDILLA
0157; PVALID  # LATIN SMALL LETTER R WITH CEDILLA
0158; DISALLOWED  # LATIN CAPITAL LETTER R WITH CARON
0159; PVALID  # LATIN SMALL LETTER R WITH CARON
015A; DISALLOWED  # LATIN CAPITAL LETTER S WITH ACUTE
015B; PVALID  # LATIN SMALL LETTER S WITH ACUTE
015C; DISALLOWED  # LATIN CAPITAL LETTER S WITH CIRCUMFLEX
015D; PVALID  # LATIN SMALL LETTER S WITH CIRCUMFLEX
015E; DISALLOWED  # LATIN CAPITAL LETTER S WITH CEDILLA
015F; PVALID  # LATIN SMALL LETTER S WITH CEDILLA
0160; DISALLOWED  # LATIN CAPITAL LETTER S WITH CARON
0161; PVALID  # LATIN SMALL LETTER S WITH CARON
0162; DISALLOWED  # LATIN CAPITAL LETTER T WITH CEDILLA
0163; PVALID  # LATIN SMALL LETTER T WITH CEDILLA
0164; DISALLOWED  # LATIN CAPITAL LETTER T WITH CARON
0165; PVALID  # LATIN SMALL LETTER T WITH CARON
0166; DISALLOWED  # LATIN CAPITAL LETTER T WITH STROKE
0167; PVALID  # LATIN SMALL LETTER T WITH STROKE
0168; DISALLOWED  # LATIN CAPITAL LETTER U WITH TILDE
0169; PVALID  # LATIN SMALL LETTER U WITH TILDE
016A; DISALLOWED  # LATIN CAPITAL LETTER U WITH MACRON
016B; PVALID  # LATIN SMALL LETTER U WITH MACRON
016C; DISALLOWED  # LATIN CAPITAL LETTER U WITH BREVE
016D; PVALID  # LATIN SMALL LETTER U WITH BREVE
016E; DISALLOWED  # LATIN CAPITAL LETTER U WITH RING ABOVE
016F; PVALID  # LATIN SMALL LETTER U WITH RING ABOVE
0170; DISALLOWED  # LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
0171; PVALID  # LATIN SMALL LETTER U WITH DOUBLE ACUTE
0172; DISALLOWED  # LATIN CAPITAL LETTER U WITH OGONEK
0173  ; PVALID # LATIN SMALL LETTER U WITH OGONEK
0174  ; DISALLOWED # LATIN CAPITAL LETTER W WITH CIRCUMFLEX
0175  ; PVALID # LATIN SMALL LETTER W WITH CIRCUMFLEX
0176  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
0177  ; PVALID # LATIN SMALL LETTER Y WITH CIRCUMFLEX
0178-0179  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DIAERESIS..LATIN
017A  ; PVALID # LATIN SMALL LETTER Z WITH ACUTE
017B  ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DOT ABOVE
017C  ; PVALID # LATIN SMALL LETTER Z WITH DOT ABOVE
017D  ; DISALLOWED # LATIN CAPITAL LETTER Z WITH CARON
017E  ; PVALID # LATIN SMALL LETTER Z WITH CARON
017F  ; DISALLOWED # LATIN SMALL LETTER LONG S
0180  ; PVALID # LATIN SMALL LETTER B WITH STROKE
0181-0182  ; DISALLOWED # LATIN CAPITAL LETTER B WITH HOOK..LATIN CAPITAL
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
01A1  ; PVALID # LATIN SMALL LETTER O WITH HORN
01A2  ; DISALLOWED # LATIN CAPITAL LETTER OI
01A3  ; PVALID # LATIN SMALL LETTER OI
01A4  ; DISALLOWED # LATIN CAPITAL LETTER P WITH HOOK
01A5  ; PVALID # LATIN SMALL LETTER P WITH HOOK
01A6-01A7  ; DISALLOWED # LATIN LETTER YR..LATIN CAPITAL LETTER TONE T
01A8  ; PVALID # LATIN SMALL LETTER TONE TWO
01A9  ; DISALLOWED # LATIN CAPITAL LETTER ESH
01AA-01AB  ; PVALID # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL
01AC  ; DISALLOWED # LATIN CAPITAL LETTER T WITH HOOK
01AD  ; PVALID # LATIN SMALL LETTER T WITH HOOK
01AE-01AF  ; DISALLOWED # LATIN CAPITAL LETTER T WITH RETROFLEX HOOK..
01B0  ; PVALID # LATIN SMALL LETTER U WITH HORN
01B1-01B3  ; DISALLOWED # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL
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 U
01BC  DISALLOWED # LATIN CAPITAL LETTER TONE FIVE
01BD..01C3  PVALID # LATIN SMALL LETTER TONE FIVE..LATIN LETTER R
01C4..01CD  DISALLOWED # LATIN CAPITAL LETTER DZ WITH CARON..LATIN CAPITAL LETTER A WITH CARON
01CE  PVALID # LATIN SMALL LETTER A WITH CARON
01CF  DISALLOWED # LATIN CAPITAL LETTER I WITH CARON
01D0  PVALID # LATIN SMALL LETTER I WITH CARON
01D1  DISALLOWED # LATIN CAPITAL LETTER O WITH CARON
01D2  PVALID # LATIN SMALL LETTER O WITH CARON
01D3  DISALLOWED # LATIN CAPITAL LETTER U WITH CARON
01D4  PVALID # LATIN SMALL LETTER U WITH CARON
01D5  DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON
01D6  PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND MACRON
01D7  DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE
01D8  PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE
01D9  DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON
01DA  PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND CARON
01DB  DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE
01DC..01DD  PVALID # LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE
01DE  DISALLOWED # LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON
01DF  PVALID # LATIN SMALL LETTER A WITH DIAERESIS AND MACRON
01E0  DISALLOWED # LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACRON
01E1  PVALID # LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON
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 MACRON
01ED  PVALID # LATIN SMALL LETTER O WITH OGONEK AND MACRON
01EE  DISALLOWED # LATIN CAPITAL LETTER EZH WITH CARON
01EF..01F0  PVALID # LATIN SMALL LETTER EZH WITH CARON..LATIN SMALL LETTER O
01F1..01F4  DISALLOWED # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTER E
01F5  PVALID # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  DISALLOWED # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LETTER U
01F9  PVALID # LATIN SMALL LETTER N WITH GRAVE
01FA  DISALLOWED # LATIN CAPITAL LETTER A WITH RING ABOVE AND A
01FB  PVALID # LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE
01FC  DISALLOWED # LATIN CAPITAL LETTER AE WITH ACUTE
01FD  PVALID # LATIN SMALL LETTER AE WITH ACUTE
01FE  DISALLOWED # LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
01FF  PVALID # LATIN SMALL LETTER O WITH STROKE AND ACUTE
0200  DISALLOWED # LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
0201 ; PVALID  # LATIN SMALL LETTER A WITH DOUBLE GRAVE
0202 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH INVERTED BREVE
0203 ; PVALID  # LATIN SMALL LETTER A WITH INVERTED BREVE
0204 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOUBLE GRAVE
0205 ; PVALID  # LATIN SMALL LETTER E WITH DOUBLE GRAVE
0206 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH INVERTED BREVE
0207 ; PVALID  # LATIN SMALL LETTER E WITH INVERTED BREVE
0208 ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
0209 ; PVALID  # LATIN SMALL LETTER I WITH DOUBLE GRAVE
020A ; DISALLOWED  # LATIN CAPITAL LETTER I WITH INVERTED BREVE
020B ; PVALID  # LATIN SMALL LETTER I WITH INVERTED BREVE
020C ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
020D ; PVALID  # LATIN SMALL LETTER O WITH DOUBLE GRAVE
020E ; DISALLOWED  # LATIN CAPITAL LETTER O WITH INVERTED BREVE
020F ; PVALID  # LATIN SMALL LETTER O WITH INVERTED BREVE
0210 ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOUBLE GRAVE
0211 ; PVALID  # LATIN SMALL LETTER R WITH DOUBLE GRAVE
0212 ; DISALLOWED  # LATIN CAPITAL LETTER R WITH INVERTED BREVE
0213 ; PVALID  # LATIN SMALL LETTER R WITH INVERTED BREVE
0214 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DOUBLE GRAVE
0215 ; PVALID  # LATIN SMALL LETTER U WITH DOUBLE GRAVE
0216 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH INVERTED BREVE
0217 ; PVALID  # LATIN SMALL LETTER U WITH INVERTED BREVE
0218 ; DISALLOWED  # LATIN CAPITAL LETTER S WITH COMMA BELOW
0219 ; PVALID  # LATIN SMALL LETTER S WITH COMMA BELOW
021A ; DISALLOWED  # LATIN CAPITAL LETTER T WITH COMMA BELOW
021B ; PVALID  # LATIN SMALL LETTER T WITH COMMA BELOW
021C ; DISALLOWED  # LATIN CAPITAL LETTER YOGH
021D ; PVALID  # LATIN SMALL LETTER YOGH
021E ; DISALLOWED  # LATIN CAPITAL LETTER H WITH CARON
021F ; PVALID  # LATIN SMALL LETTER H WITH CARON
0220 ; DISALLOWED  # LATIN CAPITAL LETTER N WITH LONG RIGHT LEG
0221 ; PVALID  # LATIN SMALL LETTER D WITH CURL
0222 ; DISALLOWED  # LATIN CAPITAL LETTER OU
0223 ; PVALID  # LATIN SMALL LETTER OU
0224 ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH HOOK
0225 ; PVALID  # LATIN SMALL LETTER Z WITH HOOK
0226 ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT ABOVE
0227 ; PVALID  # LATIN SMALL LETTER A WITH DOT ABOVE
0228 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CEDILLA
0229 ; PVALID  # LATIN SMALL LETTER E WITH CEDILLA
022A ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DIAERESIS AND MACR
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 TILDE ABOVE AND MA
0231 ; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE AND MACR
0232 ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH MACRON
0233..0239 ; PVALID  # LATIN SMALL LETTER Y WITH MACRON..LATIN SMALL
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 H
02B9..02C1 ; PVALID  # MODIFIER LETTER PRIME..MODIFIER LETTER REVERSED PRIME
02C2..02C5 ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LETTER REVERSED LEFT ARROWHEAD
02C6..02D1 ; PVALID  # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER LETTER CIRCUMFLEX ACCENT
02D2..02E1 ; 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 ACUTE ACCENT
0340..0341 ; DISALLOWED  # COMBINING GRAVE ACCENT..COMBINING ACUTE ACCENT
0342 ; PVALID  # COMBINING GREEK PERISPOMENI
0343..0345 ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK KORONIS
0346..034E ; PVALID  # COMBINING BRIDGE ABOVE..COMBINING UPWARDS ARROW WITH HOOK
034F ; DISALLOWED  # COMBINING GRAPEHE JOINER
0350..036F ; PVALID  # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING RIGHT ARROWHEAD ABOVE
0370 ; DISALLOWED  # GREEK CAPITAL LETTER ETA
0371 ; PVALID  # GREEK SMALL LETTER ETA
0372 ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI
0373 ; PVALID  # GREEK SMALL LETTER ARCHAIC SAMPI
0374 ; DISALLOWED  # GREEK NUMERAL SIGN
0375 ; CONTEXTO  # GREEK LOWER NUMERAL SIGN
0376 ; DISALLOWED  # GREEK CAPITAL LETTER PAMPHYLION DIGamma
0377 ; PVALID  # GREEK SMALL LETTER PAMPHYLION DIGamma
0378..037F ; UNASSIGNED  # <reserved>..<reserved>
037A ; DISALLOWED  # GREEK YPOGEGRAMENI
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 tau
0390        ; PVALID # GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS
0391..03A1  ; DISALLOWED # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LETTER SIGMA
03A2        ; UNASSIGNED # <reserved>
03A3..03AB  ; DISALLOWED # GREEK CAPITAL LETTER SIGMA..GREEK CAPITAL LETTER Kappa with diaeresis
03AC..03CE  ; PVALID # GREEK SMALL LETTER ALPHA WITH TONOS..GREEK SMALL LETTER UPSILON WITH 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
03E4        ; DISALLOWED # COPTIC CAPITAL LETTER FEI
03E5        ; PVALID # COPTIC SMALL LETTER FEI
03E6        ; DISALLOWED # COPTIC CAPITAL LETTER KHEI
03E7        ; PVALID # COPTIC SMALL LETTER KHEI
03E8        ; DISALLOWED # COPTIC CAPITAL LETTER Hori
03E9        ; PVALID # COPTIC SMALL LETTER Hori
03EA        ; DISALLOWED # COPTIC CAPITAL LETTER GANGIA
03EB        ; PVALID # COPTIC SMALL LETTER GANGIA
03EC        ; DISALLOWED # COPTIC CAPITAL LETTER SHIMA
03ED        ; PVALID # COPTIC SMALL LETTER SHIMA
03EE        ; DISALLOWED # COPTIC CAPITAL LETTER DEI
03EF        ; PVALID # COPTIC SMALL LETTER DEI
03F0..03F2  ; DISALLOWED # GREEK KAPPA SYMBOL..GREEK LUNATE SIGMA SYMBOL
03F3        ; PVALID # GREEK LETTER YOT
03F4..03F7  ; DISALLOWED # GREEK CAPITAL THETA SYMBOL..GREEK CAPITAL LETTER TAU
03F8        ; PVALID # GREEK SMALL LETTER SHO
03F9..03FA  ; DISALLOWED # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAPITAL LETTER SAMPI
03FB..03FC  ; PVALID # GREEK SMALL LETTER SAN..GREEK RHO WITH STROK
03FD..042F  ; DISALLOWED # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..GREEK SMALL LETTER SAMPI
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
0464;  DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED E
0465;  PVALID      # CYRILLIC SMALL LETTER IOTIFIED E
0466;  DISALLOWED  # CYRILLIC CAPITAL LETTER LITTLE YUS
0467;  PVALID      # CYRILLIC SMALL LETTER LITTLE YUS
0468;  DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
0469;  PVALID      # CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
046A;  DISALLOWED  # CYRILLIC CAPITAL LETTER BIG YUS
046B;  PVALID      # CYRILLIC SMALL LETTER BIG YUS
046C;  DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
046D;  PVALID      # CYRILLIC SMALL LETTER IOTIFIED BIG YUS
046E;  DISALLOWED  # CYRILLIC CAPITAL LETTER KSI
046F;  PVALID      # CYRILLIC SMALL LETTER KSI
0470;  DISALLOWED  # CYRILLIC CAPITAL LETTER PSI
0471;  PVALID      # CYRILLIC SMALL LETTER PSI
0472;  DISALLOWED  # CYRILLIC CAPITAL LETTER FITA
0473;  PVALID      # CYRILLIC SMALL LETTER FITA
0474;  DISALLOWED  # CYRILLIC CAPITAL LETTER IZHITSA
0475;  PVALID      # CYRILLIC SMALL LETTER IZHITSA
0476;  DISALLOWED  # CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE
0477;  PVALID      # CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GR
0478;  DISALLOWED  # CYRILLIC CAPITAL LETTER UK
0479;  PVALID      # CYRILLIC SMALL LETTER UK
047A;  DISALLOWED  # CYRILLIC CAPITAL LETTER ROUND OMEGA
047B;  PVALID      # CYRILLIC SMALL LETTER ROUND OMEGA
047C;  DISALLOWED  # CYRILLIC CAPITAL LETTER OMEGA WITH TITLO
047D;  PVALID      # CYRILLIC SMALL LETTER OMEGA WITH TITLO
047E;  DISALLOWED  # CYRILLIC CAPITAL LETTER OT
047F;  PVALID      # CYRILLIC SMALL LETTER OT
0480;  DISALLOWED  # CYRILLIC CAPITAL LETTER KOPPA
0481;  PVALID      # CYRILLIC SMALL LETTER KOPPA
0482;  DISALLOWED  # CYRILLIC THOUSANDS SIGN
0483..0487 ; PVALID      # COMBINING CYRILLIC TITLO..COMBINING CYRILLIC
0488..048A ; DISALLOWED  # COMBINING CYRILLIC HUNDRED THOUSANDS SIGN..C
048B;  PVALID      # CYRILLIC SMALL LETTER SHORT I WITH TAIL
048C;  DISALLOWED  # CYRILLIC CAPITAL LETTER SEMISOFT SIGN
048D;  PVALID      # CYRILLIC SMALL LETTER SEMISOFT SIGN
048E;  DISALLOWED  # CYRILLIC CAPITAL LETTER ER WITH TICK
048F;  PVALID      # CYRILLIC SMALL LETTER ER WITH TICK
0490;  DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH UPTURN
0491;  PVALID      # CYRILLIC SMALL LETTER GHE WITH UPTURN
0492;  DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH STROKE
0493;  PVALID      # CYRILLIC SMALL LETTER GHE WITH STROKE
0494;  DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
0495;  PVALID      # CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
0496;  DISALLOWED  # CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
0497;  PVALID      # CYRILLIC SMALL LETTER ZHE WITH DESCENDER
0498;  DISALLOWED  # CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
0499;  PVALID      # CYRILLIC SMALL LETTER ZE WITH DESCENDER
049A ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH DESCENDER
049B ; PVALID  # CYRILLIC SMALL LETTER KA WITH DESCENDER
049C ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH VERTICAL STR
049D ; PVALID  # CYRILLIC SMALL LETTER KA WITH VERTICAL STROK
049E ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH STROKE
049F ; PVALID  # CYRILLIC SMALL LETTER KA WITH STROKE
04A0 ; DISALLOWED # CYRILLIC CAPITAL LETTER BASHKIR KA
04A1 ; PVALID  # CYRILLIC SMALL LETTER BASHKIR KA
04A2 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH DESCENDER
04A3 ; PVALID  # CYRILLIC SMALL LETTER EN WITH DESCENDER
04A4 ; DISALLOWED # CYRILLIC CAPITAL LIGATURE EN GHE
04A5 ; PVALID  # CYRILLIC SMALL LIGATURE EN GHE
04A6 ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
04A7 ; PVALID  # CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
04A8 ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN HA
04A9 ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN HA
04AA ; DISALLOWED # CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB ; PVALID  # CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC ; DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD ; PVALID  # CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE ; DISALLOWED # CYRILLIC CAPITAL LETTER STRAIGHT U
04AF ; PVALID  # CYRILLIC SMALL LETTER STRAIGHT U
04B0 ; DISALLOWED # CYRILLIC CAPITAL LETTER STRAIGHT U WITH STRO
04B1 ; PVALID  # CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
04B2 ; DISALLOWED # CYRILLIC CAPITAL LETTER HA WITH DESCENDER
04B3 ; PVALID  # CYRILLIC SMALL LETTER HA WITH DESCENDER
04B4 ; DISALLOWED # CYRILLIC CAPITAL LIGATURE TE TSE
04B5 ; PVALID  # CYRILLIC SMALL LIGATURE TE TSE
04B6 ; DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
04B7 ; PVALID  # CYRILLIC SMALL LETTER CHE WITH DESCENDER
04B8 ; DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH VERTICAL ST
04B9 ; PVALID  # CYRILLIC SMALL LETTER CHE WITH VERTICAL STRO
04BA ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA
04BB ; PVALID  # CYRILLIC SMALL LETTER SHHA
04BC ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN CHE
04BD ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN CHE
04BE ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH D
04BF ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DES
04C0..04C1 ; DISALLOWED # CYRILLIC LETTER PALOCHKA..CYRILLIC CAPITAL L
04C2 ; PVALID  # CYRILLIC SMALL LETTER ZHE WITH BREV
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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04CB  ; DISALLOWED # CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC  ; PVALID  # CYRILLIC SMALL LETTER KHARASSIAN CHE
04CD  ; DISALLOWED # CYRILLIC CAPITAL LETTER EM WITH TAIL
04CE..04CF ; PVALID  # CYRILLIC SMALL LETTER EM WITH TAIL, CYRILLIC
04D0  ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH BREVE
04D1  ; PVALID  # CYRILLIC SMALL LETTER A WITH BREVE
04D2  ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH DIAERESIS
04D3  ; PVALID  # CYRILLIC SMALL LETTER A WITH DIAERESIS
04D4  ; DISALLOWED # CYRILLIC CAPITAL LIGATURE A IE
04D5  ; PVALID  # CYRILLIC SMALL LIGATURE A IE
04D6  ; DISALLOWED # CYRILLIC CAPITAL LETTER IE WITH BREVE
04D7  ; PVALID  # CYRILLIC SMALL LETTER IE WITH BREVE
04D8  ; DISALLOWED # CYRILLIC CAPITAL LETTER SCHWA
04D9  ; PVALID  # CYRILLIC SMALL LETTER SCHWA
04DA  ; DISALLOWED # CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS
04DB  ; PVALID  # CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS
04DC  ; DISALLOWED # CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS
04DD  ; PVALID  # CYRILLIC SMALL LETTER ZHE WITH DIAERESIS
04DE  ; DISALLOWED # CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS
04DF  ; PVALID  # CYRILLIC SMALL LETTER ZE WITH DIAERESIS
04E0  ; DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN DZE
04E1  ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN DZE
04E2  ; DISALLOWED # CYRILLIC CAPITAL LETTER I WITH MACRON
04E3  ; PVALID  # CYRILLIC SMALL LETTER I WITH MACRON
04E4  ; DISALLOWED # CYRILLIC CAPITAL LETTER I WITH DIAERESIS
04E5  ; PVALID  # CYRILLIC SMALL LETTER I WITH DIAERESIS
04E6  ; DISALLOWED # CYRILLIC CAPITAL LETTER O WITH DIAERESIS
04E7  ; PVALID  # CYRILLIC SMALL LETTER O WITH DIAERESIS
04E8  ; DISALLOWED # CYRILLIC CAPITAL LETTER BARRED O
04E9  ; PVALID  # CYRILLIC SMALL LETTER BARRED O
04EA  ; DISALLOWED # CYRILLIC CAPITAL LETTER BARRED O WITH DIAERE
04EB  ; PVALID  # CYRILLIC SMALL LETTER BARRED O WITH DIAERESI
04EC  ; DISALLOWED # CYRILLIC CAPITAL LETTER E WITH DIAERESIS
04ED  ; PVALID  # CYRILLIC SMALL LETTER E WITH DIAERESIS
04EE  ; DISALLOWED # CYRILLIC CAPITAL LETTER U WITH MACRON
04EF  ; PVALID  # CYRILLIC SMALL LETTER U WITH MACRON
04F0  ; DISALLOWED # CYRILLIC CAPITAL LETTER U WITH DIAERESIS
04F1  ; PVALID  # CYRILLIC SMALL LETTER U WITH DIAERESIS
04F2  ; DISALLOWED # CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
04F3  ; PVALID  # CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
04F4  ; DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS
04F5  ; PVALID  # CYRILLIC SMALL LETTER CHE WITH DIAERESIS
04F6  ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
04F7  ; PVALID  # CYRILLIC SMALL LETTER GHE WITH DESCENDER
04F8  ; DISALLOWED # CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS
04F9  ; PVALID  # CYRILLIC SMALL LETTER YERU WITH DIAERESIS
04FA  ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH STROKE AND
04FB  ; PVALID  # CYRILLIC SMALL LETTER GHE WITH STROKE AND HO
04FC  ; DISALLOWED  # CYRILLIC CAPITAL LETTER HA WITH HOOK
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
0505  ; PVALID      # CYRILLIC SMALL LETTER KOMI ZJE
0506  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI DZJE
0507  ; PVALID      # CYRILLIC SMALL LETTER KOMI DZJE
0508  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI LJJE
0509  ; PVALID      # CYRILLIC SMALL LETTER KOMI LJJE
050A  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI NJJE
050B  ; PVALID      # CYRILLIC SMALL LETTER KOMI NJJE
050C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI SJJE
050D  ; PVALID      # CYRILLIC SMALL LETTER KOMI SJJE
050E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI TJJE
050F  ; PVALID      # CYRILLIC SMALL LETTER KOMI TJJE
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
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0515  ; PVALID      # CYRILLIC SMALL LETTER LHA
0516  ; DISALLOWED  # CYRILLIC CAPITAL LETTER RHA
0517  ; PVALID      # CYRILLIC SMALL LETTER RHA
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051B  ; PVALID      # CYRILLIC SMALL LETTER QA
051C  ; DISALLOWED  # CYRILLIC CAPITAL LETTER WE
051D  ; PVALID      # CYRILLIC SMALL LETTER WE
051E  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ALEUT KA
051F  ; PVALID      # CYRILLIC SMALL LETTER ALEUT KA
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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
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0525  ; PVALID      # CYRILLIC SMALL LETTER PE WITH DESCENDER
0526  ; DISALLOWED  # CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527  ; PVALID      # CYRILLIC SMALL LETTER SHHA WITH DESCENDER
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06EA..06EF  ; PVALID # ARABIC EMPTY CENTRE LOW STOP..ARABIC LETTER
06F0..06F9  ; CONTEXTO # EXTENDED ARABIC-INDIC DIGIT ZERO..EXTENDED A
06FA..06FF  ; PVALID # ARABIC LETTER SHEEN WITH DOT BELOW..ARABIC L
0700..070D  ; DISALLOWED # SYRIAC END OF PARAGRAPH..SYRIAC HARKLEAN AST
070E  ; UNASSIGNED # <reserved>
070F  ; DISALLOWED # SYRIAC ABBREVIATION MARK
0710..074A  ; PVALID # SYRIAC LETTER ALAPH..SYRIAC BARREKH
074B..074C  ; UNASSIGNED # <reserved>..<reserved>
074D..074F  ; PVALID # SYRIAC LETTER SOGDIAN ZHAIN..THAANA LETTER N
0750..075F  ; UNASSIGNED # <reserved>..<reserved>
0760..07B1  ; PVALID # SYRIAC LETTER SOGDIAN ZHAIN..THAANA LETTER N
07B2..07BF  ; UNASSIGNED # <reserved>..<reserved>
07C0..07F5  ; PVALID # NKO DIGIT ZERO..NKO LOW TONE APOSTROPHE
07F6..07FA  ; DISALLOWED # NKO SYMBOL OO DUNNEN..NKO LAJANYALAN
07FB..07FC  ; UNASSIGNED # <reserved>..<reserved>
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07FE..07FF  ; DISALLOWED # NKO DOROME SIGN..NKO TAMAN SIGN
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085C..085D  ; UNASSIGNED # <reserved>..<reserved>
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086D..08BD  ; PVALID # ARABIC LETTER BEH WITH SMALL V BELOW..ARABIC
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08B6..08BD  ; PVALID # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08BE..08B2  ; UNASSIGNED # <reserved>..<reserved>
08B3..08E1  ; PVALID # ARABIC SMALL LOW WAW..ARABIC SMALL HIGH SIGN
08E2  ; DISALLOWED # ARABIC DISPUTED END OF AYAH
08E3..0957  ; PVALID # ARABIC TURNED DAMMA BELOW..DEVANAGARI VOWEL
0958..095F  ; DISALLOWED # DEVANAGARI LETTER QA..DEVANAGARI LETTER YYA
0960..0963  ; PVALID # DEVANAGARI LETTER VOCALIC RR..DEVANAGARI VOW
0964..0965  ; DISALLOWED # DEVANAGARI DANDA..DEVANAGARI DOUBLE DANDA
0966..096F  ; PVALID # DEVANAGARI DIGIT ZERO..DEVANAGARI DIGIT NINE
0970  ; DISALLOWED # DEVANAGARI ABBREVIATION SIGN
0971..0983  ; PVALID # DEVANAGARI SIGN HIGH SPACING DOT..BENGALI SI
0984  ; UNASSIGNED # <reserved>
0985..098C  ; PVALID # BENGALI LETTER A..BENGALI LETTER VOCALIC L
098D..098E  ; UNASSIGNED # <reserved>..<reserved>
098F..0990  ; PVALID # BENGALI LETTER E..BENGALI LETTER AI
0991..0992  ; UNASSIGNED # <reserved>..<reserved>
0993..09A8  ; PVALID # BENGALI LETTER O..BENGALI LETTER NA
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0A5C ; PVALID # GURMUKHI LETTER RRA
0A5D ; UNASSIGNED # <reserved>
0A5E ; DISALLOWED # GURMUKHI LETTER FA
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0A76 ; DISALLOWED # GURMUKHI ABBREVIATION SIGN
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0A85..0A8D ; PVALID # GUJARATI LETTER A..GUJARATI VOWEL CANDRA E
0A8E ; UNASSIGNED # <reserved>
0A8F..0A91 ; PVALID # GUJARATI LETTER E..GUJARATI VOWEL CANDRA O
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0A99 ; UNASSIGNED # <reserved>
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0AB1 ; UNASSIGNED # <reserved>
0AB2..0AB3 ; PVALID # GUJARATI LETTER LA..GUJARATI LETTER LLA
0AB4 ; UNASSIGNED # <reserved>
0AB5..0AB9 ; PVALID # GUJARATI LETTER VA..GUJARATI LETTER HA
0ABA..0ABB ; UNASSIGNED # <reserved>..<reserved>
0ABC..0AC5 ; PVALID # GUJARATI SIGN NUKTA..GUJARATI VOWEL SIGN CAN
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0AC7..0AC9 ; PVALID # GUJARATI VOWEL SIGN E..GUJARATI VOWEL SIGN C
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0AF0..0AF1 ; DISALLOWED # GUJARATI ABBREVIATION SIGN..GUJARATI RUPEE S
0AF2..0AF8 ; UNASSIGNED # <reserved>..<reserved>
0AF9..0AFF ; PVALID # GUJARATI LETTER ZHA..GUJARATI SIGN TWO-CIRCL
0B00 ; UNASSIGNED # <reserved>
0B01..0B03 ; PVALID # ORIYA SIGN CANDRABINDU..ORIYA SIGN VISARGA
0B04 ; UNASSIGNED # <reserved>
0B05..0B0C ; PVALID # ORIYA LETTER A..ORIYA LETTER VOCALIC L
0B0D..0B0E ; UNASSIGNED # <reserved>..<reserved>
0B0F..0B10 ; PVALID # ORIYA LETTER E..ORIYA LETTER AI
0B11..0B12 ; UNASSIGNED # <reserved>..<reserved>
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0C3A..0C3C ; UNASSIGNED # <reserved>..<reserved>
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0C55..0C56 ; PVALID # TELUGU LENGTH MARK..TELUGU AI LENGTH MARK
0C57 ; UNASSIGNED # <reserved>
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0C5B..0C5F ; UNASSIGNED # <reserved>..<reserved>
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0C80..0C83 ; PVALID # KANNADA SIGN SPACING CANDRABINDU..KANNADA SI
0C84 ; DISALLOWED # KANNADA SIGN SIDDHAM
0C85..0C8C ; PVALID # KANNADA LETTER A..KANNADA LETTER VOCALIC L
0C8D ; UNASSIGNED # <reserved>
0C8E..0C90 ; PVALID # KANNADA LETTER E..KANNADA LETTER AI
0C91 ; UNASSIGNED # <reserved>
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0CB4 ; UNASSIGNED # <reserved>
0CB5..0CB9 ; PVALID # KANNADA LETTER VA..KANNADA LETTER HA
0CB8..0CBB ; UNASSIGNED # <reserved>..<reserved>
0CBC..0CC4 ; PVALID # KANNADA SIGN NUKTA..KANNADA VOWEL SIGN VOCAL
0CC5 ; UNASSIGNED # <reserved>
0CC6..0CC8 ; PVALID # KANNADA VOWEL SIGN E..KANNADA VOWEL SIGN AI
0CC9 ; UNASSIGNED # <reserved>
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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 ANGKHANKHU..THAI CHARACTER KH
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0E83        ; UNASSIGNED  # <reserved>
0E84        ; PVALID      # LAO LETTER KHO TAM
0E85..0E86  ; UNASSIGNED  # <reserved>..<reserved>
0E87..0E88  ; PVALID      # LAO LETTER NGO..LAO LETTER CO
0E89        ; UNASSIGNED  # <reserved>
0E8A        ; PVALID      # LAO LETTER SO TAM
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0E99..0E9F  ; PVALID      # LAO LETTER NO..LAO LETTER FO SUNG
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0EAD..0EAC  ; UNASSIGNED  # <reserved>
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0EAF        ; UNASSIGNED  # <reserved>
0EA7        ; PVALID      # LAO LETTER WO
0EAD..0EA9  ; UNASSIGNED  # <reserved>..<reserved>
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0EB3        ; DISALLOWED # LAO VOWEL SIGN AM
0EB4..0EB9  ; PVALID      # LAO VOWEL SIGN I..LAO VOWEL SIGN UU
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0F94..0F97  ; PVALID  # TIBETAN SUBJOINED LETTER NGA..TIBETAN SUBJOI
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0F9E..0FA1  ; PVALID  # TIBETAN SUBJOINED LETTER NNA..TIBETAN SUBJOI
0FA2  ; DISALLOWED  # TIBETAN SUBJOINED LETTER DHA
0FA3..0FA6  ; PVALID  # TIBETAN SUBJOINED LETTER NA..TIBETAN SUBJOIN
0FA7  ; DISALLOWED  # TIBETAN SUBJOINED LETTER BHA
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0FC6  ; PVALID  # TIBETAN SYMBOL PADMA GDAN
0FC7..0FCF  ; DISALLOWED  # TIBETAN SYMBOL RDO RJE RGYA GRAM..TIBETAN SY
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104A..104F  ; DISALLOWED  # MYANMAR SIGN LITTLE SECTION..MYANMAR SYMBOL
1050..105F  ; PVALID  # MYANMAR LETTER SHA..MYANMAR VOWEL SIGN AITON
109E..10C5  ; DISALLOWED  # MYANMAR SYMBOL SHAN ONE..GEORGIAN CAPITAL LE
10C6  ; UNASSIGNED  # <reserved>
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<td># &lt;reserved&gt;&lt;reserved&gt;</td>
</tr>
<tr>
<td>13F8..13FD</td>
<td>DISALLOWED</td>
<td># CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LETTER YE</td>
</tr>
<tr>
<td>13FE..13FF</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;</td>
</tr>
<tr>
<td>1400</td>
<td>DISALLOWED</td>
<td># CANADIAN SYLLABICS HYPHEN</td>
</tr>
<tr>
<td>1401..166C</td>
<td>PVALID</td>
<td># CANADIAN SYLLABICS E..CANADIAN SYLLABICS CAR</td>
</tr>
<tr>
<td>166D..166E</td>
<td>DISALLOWED</td>
<td># CANADIAN SYLLABICS CHI SIGN..CANADIAN SYLLAB</td>
</tr>
<tr>
<td>166F..167F</td>
<td>PVALID</td>
<td># CANADIAN SYLLABICS QAI..CANADIAN SYLLAB B</td>
</tr>
<tr>
<td>1680</td>
<td>DISALLOWED</td>
<td># OGHAM SPACE MARK</td>
</tr>
<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>
</tr>
<tr>
<td>16A0..16EA</td>
<td>PVALID</td>
<td># RUNIC LETTER FEHU FEKU 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>
<tr>
<td>16F9..16FF</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;&lt;reserved&gt;</td>
</tr>
<tr>
<td>1700..170C</td>
<td>PVALID</td>
<td># TAGALOG LETTER A..TAGALOG LETTER YA</td>
</tr>
<tr>
<td>170D</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;</td>
</tr>
<tr>
<td>170E..1714</td>
<td>PVALID</td>
<td># TAGALOG LETTER LA..TAGALOG SIGN VIRAMA</td>
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<tr>
<td>1715..171F</td>
<td>UNASSIGNED</td>
<td># &lt;reserved&gt;&lt;reserved&gt;</td>
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<tr>
<td>1720..1734</td>
<td>PVALID</td>
<td># HANUNOO LETTER A..HANUNOO SIGN PAMUDPOD</td>
</tr>
<tr>
<td>1735..1736</td>
<td>DISALLOWED</td>
<td># PHILIPPINE SINGLE PUNCTUATION..PHILIPPINE DO</td>
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<tr>
<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..1777  ; UNASSIGNED  # <reserved>..<reserved>
1780..1783  ; 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..17DD  ; DISALLOWED  # KHMER SIGN BEYYAL..KHMER CURRENCY SYMBOL RIE
17DC..17DD  ; PVALID  # KHMER SIGN AVAKRAHASANYA..KHMER SIGN ATHACA
17DE..17DF  ; UNASSIGNED  # <reserved>..<reserved>
17E0..17E9  ; PVALID  # KHMER DIGIT ZERO..KHMER DIGIT NINE
17EA..17EF  ; UNASSIGNED  # <reserved>..<reserved>
17F0..17F9  ; DISALLOWED  # KHMER SYMBOL LEK ATTAK SON..KHMER SYMBOL LEK
17FA..17FF  ; UNASSIGNED  # <reserved>..<reserved>
1800..180E  ; DISALLOWED  # MONGOLIAN BIRGA..MONGOLIAN VOWEL SEPARATOR
180F  ; UNASSIGNED  # <reserved>
1810..1819  ; PVALID  # MONGOLIAN DIGIT ZERO..MONGOLIAN DIGIT NINE
181A..181F  ; UNASSIGNED  # <reserved>..<reserved>
1820..1878  ; PVALID  # MONGOLIAN LETTER A..MONGOLIAN LETTER CHA WIT
1879..187F  ; UNASSIGNED  # <reserved>..<reserved>
1880..18AA  ; PVALID  # MONGOLIAN LETTER ALI GALI ANUSVARA ONE..MONG
18AB..18AF  ; UNASSIGNED  # <reserved>..<reserved>
18B0..18F5  ; PVALID  # CANADIAN SYLLABICS OY..CANADIAN SYLLABICS CA
18F6..18FF  ; UNASSIGNED  # <reserved>..<reserved>
1900..191E  ; PVALID  # LIMBU VOWEL-CARRIER LETTER..LIMBU LETTER TRA
191F  ; UNASSIGNED  # <reserved>
1920..192B  ; PVALID  # LIMBU VOWEL SIGN A..LIMBU SUBJOINED LETTER W
192C..192F  ; UNASSIGNED  # <reserved>..<reserved>
1930..193B  ; PVALID  # LIMBU SMALL LETTER KA..LIMBU SIGN SA-I
193C..193F  ; UNASSIGNED  # <reserved>..<reserved>
1940  ; DISALLOWED  # LIMBU SIGN LOO
1941..1943  ; UNASSIGNED  # <reserved>..<reserved>
1944..1945  ; DISALLOWED  # LIMBU EXCLAMATION MARK..LIMBU QUESTION MARK
1946..196D  ; PVALID  # LIMBU DIGIT ZERO..TAI LE LETTER AI
196E..196F  ; UNASSIGNED  # <reserved>..<reserved>
1970..1974  ; PVALID  # TAI LE LETTER TONE-2..TAI LE LETTER TONE-6
1975..197F  ; UNASSIGNED  # <reserved>..<reserved>
1980..19AB  ; PVALID  # NEW TAI LUE LETTER HIGH QA..NEW TAI LUE LETT
19AC..19AF  ; UNASSIGNED  # <reserved>..<reserved>
19B0..19C9  ; PVALID  # NEW TAI LUE VOWEL SIGN VOWEL SHORTENER..NEW
19CA..19CF  ; UNASSIGNED  # <reserved>..<reserved>
19D0..19D9  ; PVALID  # NEW TAI LUE DIGIT ZERO..NEW TAI LUE DIGIT NI
19DA  ; DISALLOWED  # NEW TAI LUE THAM DIGIT ONE
19DB..19DD  ; UNASSIGNED  # <reserved>..<reserved>
19DE..19FF  ; DISALLOWED  # NEW TAI LUE SIGN LAE..KHMER SYMBOL DAP-PRAM
1A00..1A1B  ; PVALID  # BUGINESE LETTER KA..BUGINESE VOWEL SIGN AE
1A1C..1A1D  ; UNASSIGNED  # <reserved>..<reserved>
1A1E..1A1F  ; DISALLOWED  # BUGINESE PALLAWA..BUGINESE END OF SECTION
1A20..1A5E  ; PVALID  # TAI THAM LETTER HIGH KA..TAI THAM CONSONANT
1A5F  ; UNASSIGNED  # <reserved>
1A60..1A7C  ; PVALID  # TAI THAM SIGN SAKOT..TAI THAM SIGN KHUEN-LUE
1A7D..1A7E  ; UNASSIGNED  # <reserved>..<reserved>
1A7F..1A89  ; PVALID  # TAI THAM COMBINING CRYPTOGRAMMIC DOT..TAI TH
1A90..1A99  ; PVALID  # TAI THAM DIGIT ZERO..TAI THAM DIGIT
1AA0..1AA6  ; DISALLOWED  # TAI THAM SIGN WIANG..TAI THAM SIGN REVERSED
1AA7  ; PVALID  # TAI THAM SIGN MAI YAMOK
1AA8..1AAD  ; DISALLOWED  # TAI THAM SIGN KAAN..TAI THAM SIGN CAANG
1AAE..1A9F  ; UNASSIGNED  # <reserved>..<reserved>
1AB0..1ABD  ; PVALID  # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINING
1ABE  ; DISALLOWED  # COMBINING PARENTHESES OVERLAY
1ABF..1AFF  ; UNASSIGNED  # <reserved>..<reserved>
1B00..1B4B  ; PVALID  # BALINESE SIGN ULU RICEM..BALINESE LETTER ASY
1B4C..1B4F  ; UNASSIGNED  # <reserved>..<reserved>
1B50..1B59  ; PVALID  # BALINESE DIGIT ZERO..BALINESE DIGIT NINE
1B5A..1B6A  ; DISALLOWED  # BALINESE PANTI..BALINESE MUSICAL SYMBOL DANG
1B6B..1B73  ; PVALID  # BALINESE MUSICAL SYMBOL COMBINING TEGEH..BAL
1B74..1B7C  ; DISALLOWED  # BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG.
1B7D..1B7F  ; UNASSIGNED  # <reserved>..<reserved>
1B80..1B83  ; PVALID  # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
1B84..1B86  ; UNASSIGNED  # <reserved>..<reserved>
1B8C..1B8F  ; DISALLOWED  # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1C00..1C37  ; PVALID  # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C38..1C3A  ; UNASSIGNED  # <reserved>..<reserved>
1C3B..1C3F  ; DISALLOWED  # LEPCHA PUNCTUATION TA-ROL..LEPCHA PUNCTUATION
1C40..1C49  ; PVALID  # LEPCHA DIGIT ZERO..LEPCHA DIGIT NINE
1C4A..1C4C  ; UNASSIGNED  # <reserved>..<reserved>
1C4D..1C7D  ; PVALID  # LEPCHA LETTER TTA..OL CHIKI AHAD
1C7E..1C88  ; DISALLOWED  # OL CHIKI PUNCTUATION MUCAAD..CYRILLIC SMALL
1C89..1C8F  ; UNASSIGNED  # <reserved>..<reserved>
1C90..1C9A  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBB..1CBC  ; UNASSIGNED  # <reserved>..<reserved>
1CBB..1CC7  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CC8..1CCF  ; UNASSIGNED  # <reserved>..<reserved>
1CDD..1CD2  ; PVALID  # VEDIC TONE KARSHANA..VEDIC TONE PRENKHA
1CD3  ; DISALLOWED  # VEDIC SIGN NIHSHVASA
1CD4..1CF9  ; PVALID  # VEDIC SIGN YAJURVEDIC MIDLINE SVARITA..VEDIC
1CFA..1CFF  ; UNASSIGNED  # <reserved>..<reserved>
1D00..1D2B  ; PVALID  # LATIN LETTER SMALL CAPITAL A..CYRILLIC LETTE
1D2C..1D2E  ; DISALLOWED # MODIFIER LETTER CAPITAL A..MODIFIER LETTER C
1D2F  ; PVALID # MODIFIER LETTER CAPITAL BARRED B
1D30..1D3A  ; DISALLOWED # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B  ; PVALID # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D  ; DISALLOWED # MODIFIER LETTER CAPITAL O..MODIFIER LETTER S
1D4E  ; PVALID # MODIFIER LETTER SMALL TURNED I
1D4F..1D6A  ; DISALLOWED # MODIFIER LETTER SMALL K..GREEK SUBSCRIPT OMEGA
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 YU
1D9B..1DBF  ; DISALLOWED # MODIFIER LETTER SMALL TURNED ALPHA..MODIFIER LETTER SMALL TURNED OMEGA
1DC0..1DF9  ; PVALID # COMBINING DOTTED GRAVE ACCENT..COMBINING WIDE BAR
1DFA  ; UNASSIGNED # <reserved>
1DFB..1DFF  ; PVALID # COMBINING DELETION MARK..COMBINING RIGHT ARROW ABOVE
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 DIAERESIS
1E4F ; PVALID # LATIN SMALL LETTER O WITH TILDE AND DIAERESIS
1E50 ; DISALLOWED # LATIN CAPITAL LETTER O WITH MACRON AND MACRON
1E51 ; PVALID # LATIN SMALL LETTER O WITH MACRON AND MACRON
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 MACR
1E5D ; PVALID  # LATIN SMALL LETTER R WITH DOT BELOW AND MACR
1E5E ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE AND DOT ABOVE
1E5F ; PVALID  # LATIN SMALL LETTER S WITH ACUTE AND DOT ABOVE
1E60 ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT ABOVE
1E61 ; PVALID  # LATIN SMALL LETTER T WITH DOT ABOVE
1E62 ; DISALLOWED # LATIN SMALL LETTER T WITH DOT BELOW
1E63 ; PVALID  # LATIN SMALL LETTER T WITH DOT BELOW
1E64 ; DISALLOWED # LATIN SMALL LETTER T WITH DOT BELOW AND DOT ABOVE
1E65 ; PVALID  # LATIN SMALL LETTER T WITH DOT BELOW AND DOT ABOVE
1E66 ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E67 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E68 ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E69 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E6A ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E6B ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E6C ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E6D ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E6E ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E6F ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E70 ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E71 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E72 ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E73 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E74 ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E75 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E76 ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E77 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E78 ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E79 ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E7A ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E7B ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E7C ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E7D ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E7E ; DISALLOWED # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E7F ; PVALID  # LATIN SMALL LETTER U WITH TILDE AND MACRON
1E80 ; DISALLOWED # LATIN SMALL 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
1E8F        ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E90        ; PVALID  # LATIN SMALL LETTER Y WITH DOT ABOVE
1E91        ; DISALLOWED # LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
1E92        ; PVALID  # LATIN SMALL LETTER Z WITH CIRCUMFLEX
1E93        ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DOT BELOW
1E94        ; PVALID  # LATIN SMALL LETTER Z WITH DOT 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
1EAA        ; DISALLOWED # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND T
1EAB        ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND TIL
1EAC        ; DISALLOWED # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND D
1EAD        ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT
1EAE        ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
1EAF        ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND ACUTE
1EB0        ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
1EB1        ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND GRAVE
1EB2        ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE AND HOOK A
1EB3        ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND HOOK ABO
1EB4        ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE AND TILDE
1EB5        ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND TILDE
1EB6        ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE AND DOT BE
1EB7        ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND DOT BELO
1EB8  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOT BELOW
1EB9  ; PVALID   # LATIN SMALL LETTER E WITH DOT BELOW
1EBA  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH HOOK ABOVE
1EBB  ; PVALID   # LATIN SMALL LETTER E WITH HOOK ABOVE
1EBC  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE
1EBD  ; PVALID   # LATIN SMALL LETTER E WITH TILDE
1EBE  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND A
1EBF  ; PVALID   # LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACU
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1EC1  ; PVALID   # LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRA
1EC2  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND H
1EC3  ; PVALID   # LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOO
1EC4  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND T
1EC5  ; PVALID   # LATIN SMALL LETTER E WITH CIRCUMFLEX AND TIL
1EC6  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT
1EC7  ; PVALID   # LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOO
1EC8  ; DISALLOWED  # LATIN CAPITAL LETTER I WITH HOOK ABOVE
1EC9  ; PVALID   # LATIN SMALL LETTER I WITH HOOK ABOVE
1ECA  ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DOT BELOW
1ECB  ; PVALID   # LATIN SMALL LETTER I WITH DOT BELOW
1ECC  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT BELOW
1ECD  ; PVALID   # LATIN SMALL LETTER O WITH DOT BELOW
1ECF  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HOOK ABOVE
1ED0  ; DISALLOWED  # LATIN SMALL LETTER O WITH HOOK ABOVE
1ED1  ; PVALID   # LATIN SMALL LETTER O WITH CIRCUMFLEX AND A
1ED2  ; DISALLOWED  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACU
1ED3  ; PVALID   # LATIN SMALL LETTER O WITH CIRCUMFLEX AND G
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1ED8  ; DISALLOWED  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT
1ED9  ; PVALID   # LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOO
1EDA  ; DISALLOWED  # LATIN SMALL LETTER O WITH HORN AND ACUTE
1EDB  ; PVALID   # LATIN SMALL LETTER O WITH HORN AND ACUTE
1EDC  ; DISALLOWED  # LATIN SMALL LETTER O WITH HORN AND GRAVE
1EDD  ; PVALID   # LATIN SMALL LETTER O WITH HORN AND GRAVE
1EDE  ; DISALLOWED  # LATIN SMALL LETTER O WITH HORN AND HOOK AB
1EDF  ; PVALID   # LATIN SMALL LETTER O WITH HORN AND HOOK ABOV
1EE0  ; DISALLOWED  # LATIN SMALL LETTER O WITH HORN AND TILDE
1EE1  ; PVALID   # LATIN SMALL LETTER O WITH HORN AND TILDE
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1EE5  ; PVALID   # LATIN SMALL LETTER U WITH DOT BELOW
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1EE7  ; PVALID   # LATIN SMALL LETTER U WITH HOOK ABOVE
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1EE9        ; PVALID    # LATIN SMALL LETTER U WITH HORN AND ACUTE
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1EEB        ; PVALID    # LATIN SMALL LETTER U WITH HORN AND GRAVE
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1EED        ; PVALID    # LATIN SMALL LETTER U WITH HORN AND HOOK ABOV
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1EFF8       ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH TILDE
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1EFFC       ; DISALLOWED  # LATIN CAPITAL LETTER MIDDLE-WELSH V
1EFFD       ; PVALID    # LATIN SMALL LETTER MIDDLE-WELSH V
1EEFE       ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH LOOP
1EEFF..1F07  ; PVALID    # LATIN SMALL LETTER Y WITH LOOP..GREEK SMALL
1F08..1F0F  ; DISALLOWED  # GREEK CAPITAL LETTER ALPHA WITH PSILI..GREEK
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1F28..1F2F  ; DISALLOWED  # GREEK CAPITAL LETTER ETA WITH PSILI..GREEK C
1F30..1F37  ; PVALID    # GREEK SMALL LETTER IOTA WITH PSILI..GREEK SM
1F38..1F3F  ; DISALLOWED  # GREEK CAPITAL LETTER IOTA WITH PSILI..GREEK
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1F60..1F67  ; PVALID    # GREEK SMALL LETTER OMEGA WITH PSILI..GREEK S
1F68..1F6F  ; DISALLOWED  # GREEK CAPITAL LETTER OMEGA WITH PSILI..GREEK
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20A0..20BF  ; DISALLOWED # EURO-CURRENCY SIGN..BITCOIN SIGN
20C0..20CF  ; UNASSIGNED # <reserved>..<reserved>
20D0..20F0  ; DISALLOWED # COMBINING LEFT HARPOON ABOVE..COMBINING ASTERISK ABOVE RIGHT SUBSCRIPT
20F1..20FF  ; UNASSIGNED # <reserved>..<reserved>
2100..214D  ; DISALLOWED # ACCOUNT OF..AKTIESELSKAB
214E        ; PVALID # TURNED SMALL F
214F..2183  ; DISALLOWED # SYMBOL FOR SAMARITAN SOURCE..ROMAN NUMERAL R
2184        ; PVALID # LATIN SMALL LETTER REVERSED C
2185..218B  ; DISALLOWED # ROMAN NUMERAL SIX LATE FORM..TURNED DIGIT TH
218C..218F  ; UNASSIGNED # <reserved>..<reserved>
2190..219F  ; DISALLOWED # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
2247..224F  ; UNASSIGNED # <reserved>..<reserved>
224A..224F  ; DISALLOWED # OCR HOOK..OCR DOUBLE BACKSLASH
224B..225F  ; UNASSIGNED # <reserved>..<reserved>
2260..2B73  ; DISALLOWED # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
2B74..2B75  ; UNASSIGNED # <reserved>..<reserved>
2B76..2B95  ; DISALLOWED # NORTH EAST TRIANGLE-HEADED ARROW TO BAR..RIGHT ARROW WITH BENDING HOOK
2B96..2B97  ; UNASSIGNED # <reserved>..<reserved>
2B98..2BC8  ; DISALLOWED # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL ARROW..THREE-D Top-Light E
2BC9        ; UNASSIGNED # <reserved>
2BCA..2BFE  ; DISALLOWED # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
2BFF        ; UNASSIGNED # <reserved>
2C00..2C2E  ; DISALLOWED # GLAGOLITIC CAPITAL LETTER AZU..GLAGOLITIC CAPITAL LETTER Y
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2C5F        ; UNASSIGNED # <reserved>
2C60..2C61  ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOUBLE BAR..LATIN SMALL LETTER L WITH DOUBLE BAR
2C62..2C70  ; DISALLOWED # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LATIN CAPITAL LETTER K WITH DESCENDER
2C71..2C72  ; DISALLOWED # LATIN SMALL LETTER V WITH RIGHT HOOK..LATIN SMALL LETTER W WITH HOOK
2C73..2C74  ; PVALID # LATIN SMALL LETTER W WITH HOOK..LATIN SMALL LETTER W WITH HOOK
2C75..2C76  ; DISALLOWED # LATIN CAPITAL LETTER HALF H..LATIN SMALL LETTER SMAL
2C77..2C7B  ; PVALID # LATIN SMALL LETTER HALF H..LATIN LETTER K
2C7C..2C80  ; DISALLOWED # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPITAL LETTER K
2C81..2C82  ; PVALID # COPTIC SMALL LETTER ALFA..COPTIC CAPITAL LETTER ALFA
2C83        ; PVALID   # COPTIC SMALL LETTER VIDA
2C84        ; DISALLOWED # COPTIC CAPITAL LETTER GAMMA
2C85        ; PVALID   # COPTIC SMALL LETTER GAMMA
2C86        ; DISALLOWED # COPTIC CAPITAL LETTER DALDA
2C87        ; PVALID   # COPTIC SMALL LETTER DALDA
2C88        ; DISALLOWED # COPTIC CAPITAL LETTER EIE
2C89        ; PVALID   # COPTIC SMALL LETTER EIE
2C8A        ; DISALLOWED # COPTIC CAPITAL LETTER SOU
2C8B        ; PVALID   # COPTIC SMALL LETTER SOU
2C8C        ; DISALLOWED # COPTIC CAPITAL LETTER ZATA
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2C8E        ; DISALLOWED # COPTIC CAPITAL LETTER HATE
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2CBB ; PVALID  # COPTIC SMALL LETTER DIALECT-P NI
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2CBF ; PVALID  # COPTIC SMALL LETTER OLD COPTIC OOU
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2CE2 ; DISALLOWED  # COPTIC CAPITAL LETTER OLD NUBIAN WAU
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<td>COMBINING CYRILLIC LETTER BE..COMBINING CYRI</td>
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<td>RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QU</td>
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<td>RING POINT..PUNCTUS ELEVATUS MARK</td>
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3000..3004  ; DISALLOWED  # IDEOGRAPHIC SPACE..JAPANESE INDUSTRIAL STAND
3005..3007  ; PVALID  # IDEOGRAPHIC ITERATION MARK..IDEOGRAPHIC NUMB
3008..3029  ; DISALLOWED  # LEFT ANGLE BRACKET..HANGZHOU NUMERAL NINE
302A..302D  ; PVALID  # IDEOGRAPHIC LEVEL TONE MARK..IDEOGRAPHIC ENT
302E..303B  ; DISALLOWED  # HANGUL SINGLE DOT TONE MARK..VERTICAL IDEOGRAPH
303C  ; PVALID  # MASU MARK
303D..303F  ; DISALLOWED  # PART ALTERNATION MARK..IDEOGRAPHIC HALF FILL
3040  ; UNASSIGNED  # <reserved>
3041..3096  ; PVALID  # HIRAGANA LETTER SMALL A..HIRAGANA LETTER SMA
3097..3098  ; UNASSIGNED  # <reserved>..<reserved>
3099..309C  ; DISALLOWED  # KATAKANA-HIRAGANA VOICED SOUND MARK..KATAKAN
309D..309E  ; PVALID  # HIRAGANA ITERATION MARK..HIRAGANA VOICED ITE
309F..30A0  ; DISALLOWED  # HIRAGANA DIGRAPH YORI..KATAKANA-HIRAGANA DOU
30A1..30FA  ; PVALID  # KATAKANA LETTER SMALL A..KATAKANA LETTER VO
30FB  ; CONTEXTO  # KATAKANA MIDDLE DOT
30FC..30FE  ; PVALID  # KATAKANA-HIRAGANA PROLONGED SOUND MARK..KATA
30FF  ; DISALLOWED  # KATAKANA DIGRAPH KOTO
3100..3104  ; UNASSIGNED  # <reserved>..<reserved>
3105..312F  ; DISALLOWED  # HANGUL LETTER KIYEOK..HANGUL LETTER ARAEAE
3130  ; UNASSIGNED  # <reserved>
3131..318E  ; DISALLOWED  # IDEOGRAPHIC ANNOTATION LINKING MARK..IDEOGRA
318F  ; UNASSIGNED  # <reserved>
3190..319F  ; DISALLOWED  # IDEOGRAPHIC EXTENSION MARK..IDEOGRAPH
31A0..31A9  ; PVALID  # BOPOMOFO LETTER BU..BOPOMOFO LETTER ZY
31B0..31BF  ; UNASSIGNED  # <reserved>..<reserved>
31C0..31CE  ; DISALLOWED  # CJK STROKE T..CJK STROKE Q
31D0..31DF  ; UNASSIGNED  # <reserved>..<reserved>
31E0..31E9  ; DISALLOWED  # KATAKANA LETTER SMALL KU..KATAKANA LETTER SM
31FF  ; DISALLOWED  # KATAKANA DIGRAPH KOTO
3200..321E  ; DISALLOWED  # PARENTHESESIZED HANGUL KIYEOK..PARENTHESESIZED K
321F  ; UNASSIGNED  # <reserved>
3220..323F  ; DISALLOWED  # PARENTHESESIZED IDEOGRAPH ONE..CIRCLED KATAKAN
324F  ; UNASSIGNED  # <reserved>
3300..33FF  ; DISALLOWED  # SQUARE APAATO..SQUARE GAL
3400..340F  ; PVALID  # <CJK Ideograph Extension A>..<CJK Ideograph
4DB6..4DBF  ; UNASSIGNED  # <reserved>..<reserved>
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4E00..4EFF  ; PVALID  # <CJK Ideograph>..<CJK Ideograph>
9FF0..9FFF  ; UNASSIGNED  # <reserved>..<reserved>
A000..A48C  ; PVALID  # YI SYLLABLE IT..YI SYLLABLE YYR
A48D..A48F  ; UNASSIGNED  # <reserved>..<reserved>
A490..A4C6  ; DISALLOWED  # YI RADICAL QOT..YI RADICAL KE
A4C7..A4CF  ; UNASSIGNED  # <reserved>..<reserved>
A4D0..A4FD  ; PVALID  # LISU LETTER BA..LISU LETTER TONE MYA JEU
A4FE..A4FF  ; DISALLOWED  # LISU PUNCTUATION COMMA..LISU PUNCTUATION FUL
A500..A60C  ; PVALID  # VAI SYLLABLE EE..VAI SYLLABLE LENGTHENER
A60D..A60F  ; DISALLOWED  # VAI COMMA..VAI QUESTION MARK
A610..A62B  ; PVALID     # VAI SYLLABLE NDOLE FA..VAI SYLLABLE NDOLE DO
A62C..A63F  ; UNASSIGNED # <reserved>..<reserved>
A640        ; DISALLOWED # CYRILLIC CAPITAL LETTER ZEMLYA
A641        ; PVALID     # CYRILLIC SMALL LETTER ZEMLYA
A642        ; DISALLOWED # CYRILLIC CAPITAL LETTER DZEO
A643        ; PVALID     # CYRILLIC SMALL LETTER DZEO
A644        ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED DZE
A645        ; PVALID     # CYRILLIC SMALL LETTER REVERSED DZE
A646        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTA
A647        ; PVALID     # CYRILLIC SMALL LETTER IOTA
A648        ; DISALLOWED # CYRILLIC CAPITAL LETTER DJERV
A649        ; PVALID     # CYRILLIC SMALL LETTER DJERV
A64A        ; DISALLOWED # CYRILLIC CAPITAL LETTER MONOGRAPH UK
A64B        ; PVALID     # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C        ; DISALLOWED # CYRILLIC CAPITAL LETTER BROAD OMEGA
A64D        ; PVALID     # CYRILLIC SMALL LETTER BROAD OMEGA
A64E        ; DISALLOWED # CYRILLIC CAPITAL LETTER NEUTRAL YER
A64F        ; PVALID     # CYRILLIC SMALL LETTER NEUTRAL YER
A650        ; DISALLOWED # CYRILLIC CAPITAL LETTER YERU WITH BACK YER
A651        ; PVALID     # CYRILLIC SMALL LETTER YERU WITH BACK YER
A652        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED YAT
A653        ; PVALID     # CYRILLIC SMALL LETTER IOTIFIED YAT
A654        ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED YU
A655        ; PVALID     # CYRILLIC SMALL LETTER REVERSED YU
A656        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED A
A657        ; PVALID     # CYRILLIC SMALL LETTER IOTIFIED A
A658        ; DISALLOWED # CYRILLIC CAPITAL LETTER CLOSED LITTLE YUS
A659        ; PVALID     # CYRILLIC SMALL LETTER CLOSED LITTLE YUS
A65A        ; DISALLOWED # CYRILLIC CAPITAL LETTER BLENDED YUS
A65B        ; PVALID     # CYRILLIC SMALL LETTER BLENDED YUS
A65C        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED CLOSED LITT
A65D        ; PVALID     # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
A65E        ; DISALLOWED # CYRILLIC CAPITAL LETTER YN
A65F        ; PVALID     # CYRILLIC SMALL LETTER YN
A660        ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED TSE
A661        ; PVALID     # CYRILLIC SMALL LETTER REVERSED TSE
A662        ; DISALLOWED # CYRILLIC CAPITAL LETTER SOFT DE
A663        ; PVALID     # CYRILLIC SMALL LETTER SOFT DE
A664        ; DISALLOWED # CYRILLIC CAPITAL LETTER SOFT EL
A665        ; PVALID     # CYRILLIC SMALL LETTER SOFT EL
A666        ; DISALLOWED # CYRILLIC CAPITAL LETTER SOFT EM
A667        ; PVALID     # CYRILLIC SMALL LETTER SOFT EM
A668        ; DISALLOWED # CYRILLIC CAPITAL LETTER MONOCULAR O
A669        ; PVALID     # CYRILLIC SMALL LETTER MONOCULAR O
A66A        ; DISALLOWED # CYRILLIC CAPITAL LETTER BINOCULAR O
A66B        ; PVALID     # CYRILLIC SMALL LETTER BINOCULAR O
A66C        ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F  ; PVALID # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673  ; DISALLOWED # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D  ; PVALID # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E        ; DISALLOWED # CYRILLIC KAVYKA
A67F        ; PVALID # CYRILLIC PAYEROK
A680        ; DISALLOWED # CYRILLIC CAPITAL LETTER DWE
A681        ; PVALID # CYRILLIC SMALL LETTER DWE
A682        ; DISALLOWED # CYRILLIC CAPITAL LETTER DZWE
A683        ; PVALID # CYRILLIC SMALL LETTER DZWE
A684        ; DISALLOWED # CYRILLIC CAPITAL LETTER ZHWE
A685        ; PVALID # CYRILLIC SMALL LETTER ZHWE
A686        ; DISALLOWED # CYRILLIC CAPITAL LETTER CCHE
A687        ; PVALID # CYRILLIC SMALL LETTER CCHE
A688        ; DISALLOWED # CYRILLIC CAPITAL LETTER DZSE
A689        ; PVALID # CYRILLIC SMALL LETTER DZSE
A68A        ; DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH MIDDLE HOOK
A68B        ; PVALID # CYRILLIC SMALL LETTER TE WITH MIDDLE HOOK
A68C        ; DISALLOWED # CYRILLIC CAPITAL LETTER TWE
A68D        ; PVALID # CYRILLIC SMALL LETTER TWE
A68E        ; DISALLOWED # CYRILLIC CAPITAL LETTER TSWE
A68F        ; PVALID # CYRILLIC SMALL LETTER TSWE
A690        ; DISALLOWED # CYRILLIC CAPITAL LETTER TSSE
A691        ; PVALID # CYRILLIC SMALL LETTER TSSE
A692        ; DISALLOWED # CYRILLIC CAPITAL LETTER TCHE
A693        ; PVALID # CYRILLIC SMALL LETTER TCHE
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A697        ; PVALID # CYRILLIC SMALL LETTER SHWE
A698        ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE O
A699        ; PVALID # CYRILLIC SMALL LETTER DOUBLE O
A69A        ; DISALLOWED # CYRILLIC CAPITAL LETTER CROSSED O
A69B        ; PVALID # CYRILLIC SMALL LETTER CROSSED O
A69C..A69D  ; DISALLOWED # MODIFIER LETTER CYRILLIC HARD SIGN..MODIFIER
A69E..A6E5  ; PVALID # COMBINING CYRILLIC LETTER EF..BAMUM LETTER K
A6E6..A6EF  ; DISALLOWED # BAMUM LETTER MO..BAMUM LETTER KOGHOM
A6F0..A6F1  ; PVALID # BAMUM COMBINING MARK KOQNDON..BAMUM COMBINING
A6F2..A6F7  ; DISALLOWED # BAMUM NJAEMLI..BAMUM QUESTION MARK
A6F8..A6FF  ; UNASSIGNED # <reserved>..<reserved>
A700..A716  ; DISALLOWED # MODIFIER LETTER CHINESE TONE YIN PING..MODIF
A717..A71F  ; PVALID # MODIFIER LETTER DOT VERTICAL BAR..MODIFIER L
A720..A722  ; DISALLOWED # MODIFIER LETTER STRESS AND HIGH TONE..LATIN
A723        ; PVALID # LATIN SMALL LETTER EGYPTOLOGICAL ALEF
A724        ; DISALLOWED # LATIN CAPITAL LETTER EGYPTOLOGICAL AIN
A725        ; PVALID # LATIN SMALL LETTER EGYPTOLOGICAL AIN
A726        ; DISALLOWED # LATIN CAPITAL LETTER HENG
A727        ; PVALID # LATIN SMALL LETTER HENG
A728        ; DISALLOWED # LATIN CAPITAL LETTER TZ
A729    ; PVALID      # LATIN SMALL LETTER TZ
A72A    ; DISALLOWED # LATIN CAPITAL LETTER TRESILLO
A72B    ; PVALID      # LATIN SMALL LETTER TRESILLO
A72C    ; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO
A72D    ; PVALID      # LATIN SMALL LETTER CUATRILLO
A72E    ; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO WITH COMMA
A72F..A731 ; PVALID      # LATIN SMALL LETTER CUATRILLO WITH COMMA..LAT
A732    ; DISALLOWED # LATIN CAPITAL LETTER AA
A733    ; PVALID      # LATIN SMALL LETTER AA
A734    ; DISALLOWED # LATIN CAPITAL LETTER AO
A735    ; PVALID      # LATIN SMALL LETTER AO
A736    ; DISALLOWED # LATIN CAPITAL LETTER AU
A737    ; PVALID      # LATIN SMALL LETTER AU
A738    ; DISALLOWED # LATIN CAPITAL LETTER AV
A739    ; PVALID      # LATIN SMALL LETTER AV
A73A    ; DISALLOWED # LATIN CAPITAL LETTER AV WITH HORIZONTAL BAR
A73B    ; PVALID      # LATIN SMALL LETTER AV WITH HORIZONTAL BAR
A73C    ; DISALLOWED # LATIN CAPITAL LETTER AY
A73D    ; PVALID      # LATIN SMALL LETTER AY
A73E    ; DISALLOWED # LATIN CAPITAL LETTER REVERSED C WITH DOT
A73F    ; PVALID      # LATIN SMALL LETTER REVERSED C WITH DOT
A740    ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE
A741    ; PVALID      # LATIN SMALL LETTER K WITH STROKE
A742    ; DISALLOWED # LATIN CAPITAL LETTER K WITH DIAGONAL STROKE
A743    ; PVALID      # LATIN SMALL LETTER K WITH DIAGONAL STROKE
A744    ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE AND DIAGO
A745    ; PVALID      # LATIN SMALL LETTER K WITH STROKE AND 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
A757    ; PVALID      # LATIN SMALL LETTER Q WITH STROKE THROUGH DES
A758    ; DISALLOWED # LATIN CAPITAL LETTER Q WITH DIAGONAL STROKE
A759    ; PVALID      # LATIN SMALL LETTER Q WITH DIAGONAL STROKE
A75A    ; DISALLOWED # LATIN CAPITAL LETTER R ROTUNDA
A75B ; PVALID # LATIN SMALL LETTER R ROTUNDA
A75C ; DISALLOWED # LATIN CAPITAL LETTER RUM ROTUNDA
A75D ; PVALID # LATIN SMALL LETTER RUM ROTUNDA
A75E ; DISALLOWED # LATIN CAPITAL LETTER V WITH DIAGONAL STROKE
A75F ; PVALID # LATIN SMALL LETTER V WITH DIAGONAL STROKE
A760 ; DISALLOWED # LATIN CAPITAL LETTER VY
A761 ; PVALID # LATIN SMALL LETTER VY
A762 ; DISALLOWED # LATIN CAPITAL LETTER VISIGOTHIC Z
A763 ; PVALID # LATIN SMALL LETTER VISIGOTHIC Z
A764 ; DISALLOWED # LATIN CAPITAL LETTER THORN WITH STROKE
A765 ; PVALID # LATIN SMALL LETTER THORN WITH STROKE
A766 ; DISALLOWED # LATIN CAPITAL LETTER THORN WITH STROKE THROUGH
A767 ; PVALID # LATIN SMALL LETTER THORN WITH STROKE THROUGH
A768 ; DISALLOWED # LATIN CAPITAL LETTER VEND
A769 ; PVALID # LATIN SMALL LETTER VEND
A76A ; DISALLOWED # LATIN CAPITAL LETTER ET
A76B ; PVALID # LATIN SMALL LETTER ET
A76C ; DISALLOWED # LATIN CAPITAL LETTER IS
A76D ; PVALID # LATIN SMALL LETTER IS
A76E ; DISALLOWED # LATIN CAPITAL LETTER CON
A76F ; PVALID # LATIN SMALL LETTER CON
A770 ; DISALLOWED # MODIFIER LETTER US
A771..A778 ; PVALID # LATIN SMALL LETTER DUM..LATIN SMALL LETTER U
A779 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR D
A77A ; PVALID # LATIN SMALL LETTER INSULAR D
A77B ; DISALLOWED # LATIN CAPITAL LETTER INSULAR F
A77C ; PVALID # LATIN SMALL LETTER INSULAR F
A77D..A77E ; DISALLOWED # LATIN CAPITAL LETTER INSULAR G..LATIN CAPITAL LETTER INSULAR G
A77F ; PVALID # LATIN SMALL LETTER TURNED INSULAR G
A780 ; DISALLOWED # LATIN CAPITAL LETTER TURNED L
A781 ; PVALID # LATIN SMALL LETTER TURNED L
A782 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR R
A783 ; PVALID # LATIN SMALL LETTER INSULAR R
A784 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR S
A785 ; PVALID # LATIN SMALL LETTER INSULAR S
A786 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR T
A787..A788 ; PVALID # LATIN SMALL LETTER INSULAR T..MODIFIER LETTER US
A789..A78B ; DISALLOWED # MODIFIER LETTER COLON..LATIN CAPITAL LETTER
A78C ; PVALID # LATIN SMALL LETTER SALTILLO
A78D ; DISALLOWED # LATIN CAPITAL LETTER TURNED H
A78E..A78F ; PVALID # LATIN SMALL LETTER L WITH RETROFLEX HOOK AND TAIL
A790 ; DISALLOWED # LATIN CAPITAL LETTER N WITH DESCENDER
A791 ; PVALID # LATIN SMALL LETTER N WITH DESCENDER
A792 ; DISALLOWED # LATIN CAPITAL LETTER C WITH BAR
A793..A795 ; PVALID # LATIN SMALL LETTER C WITH BAR..LATIN SMALL L
A796 ; DISALLOWED # LATIN CAPITAL LETTER B WITH FLOURISH
A797 ; PVALID # LATIN SMALL LETTER B WITH FLOURISH
A798 ; DISALLOWED # LATIN CAPITAL LETTER F WITH STROKE
A799; PVALID # LATIN SMALL LETTER F WITH STROKE
A79A; DISALLOWED # LATIN CAPITAL LETTER VOLAPUK AE
A79B; PVALID # LATIN SMALL LETTER VOLAPUK AE
A79C; DISALLOWED # LATIN CAPITAL LETTER VOLAPUK OE
A79D; PVALID # LATIN SMALL LETTER VOLAPUK OE
A79E; DISALLOWED # LATIN CAPITAL LETTER VOLAPUK UE
A79F; PVALID # LATIN SMALL LETTER VOLAPUK UE
A7A0; DISALLOWED # LATIN CAPITAL LETTER G WITH OBLIQUE STROKE
A7A1; PVALID # LATIN SMALL LETTER G WITH OBLIQUE STROKE
A7A2; DISALLOWED # LATIN CAPITAL LETTER K WITH OBLIQUE STROKE
A7A3; PVALID # LATIN SMALL LETTER K WITH OBLIQUE STROKE
A7A4; DISALLOWED # LATIN CAPITAL LETTER N WITH OBLIQUE STROKE
A7A5; PVALID # LATIN SMALL LETTER N WITH OBLIQUE STROKE
A7A6; DISALLOWED # LATIN CAPITAL LETTER R WITH OBLIQUE STROKE
A7A7; PVALID # LATIN SMALL LETTER R WITH OBLIQUE STROKE
A7A8; DISALLOWED # LATIN CAPITAL LETTER S WITH OBLIQUE STROKE
A7A9; PVALID # LATIN SMALL LETTER S WITH OBLIQUE STROKE
A7AA..A7AE; DISALLOWED # LATIN CAPITAL LETTER H WITH HOOK..LATIN CAPITAL H WITH HOOK
A7AF; PVALID # LATIN LETTER SMALL CAPITAL Q
A7B0..A7B4; DISALLOWED # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL TURNED K
A7B5; PVALID # LATIN SMALL LETTER BETA
A7B6; DISALLOWED # LATIN CAPITAL LETTER OMEGA
A7B7; PVALID # LATIN SMALL LETTER OMEGA
A7B8; DISALLOWED # LATIN CAPITAL LETTER U WITH STROKE
A7B9; PVALID # LATIN SMALL LETTER U WITH STROKE
A7BA..A7F6; UNASSIGNED # <reserved>..<reserved>
A7F7; PVALID # LATIN EPITRIGRAPHIC LETTER SIDEWAYS I
A7F8..A7F9; DISALLOWED # MODIFIER LETTER CAPITAL H WITH STROKE.. MODIFIER LETTER CAPITAL H WITH STROKE
A7FA..A827; PVALID # LATIN LETTER SMALL CAPITAL TURNED M..SYLOTI NAGRI POETRY MARK-1..SYLOTI NAGRI POETRY MARK-1
A828..A82B; DISALLOWED # SYLOTI NAGRI POETRY MARK-1..SYLOTI NAGRI POETRY MARK-1
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A830..A839; DISALLOWED # NORTH INDIC FRACTION ONE QUARTER..NORTH INDIC FRACTION ONE QUARTER
A83A..A83F; UNASSIGNED # <reserved>..<reserved>
A840..A873; PVALID # PHAGS-PA LETTER KA..PHAGS-PA LETTER CANDRABI
A874..A877; DISALLOWED # PHAGS-PA SINGLE HEAD MARK..PHAGS-PA SINGLE HEAD MARK
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A8C6..A8CD; UNASSIGNED # <reserved>..<reserved>
A8CE..A8CF; DISALLOWED # SAURASHTRA DANDA..SAURASHTRA DOUBLE DANDA
A8D0..A8D9; PVALID # SAURASHTRA DIGIT ZERO..SAURASHTRA DIGIT ZERO
A8DA..A8DF; UNASSIGNED # <reserved>..<reserved>
A8E0..A8F7; PVALID # COMBINING DEVANAGARI DIGIT ZERO..DEVANAGARI DIGIT ZERO
A8F8..A8FA; DISALLOWED # DEVANAGARI SIGN PUSHPIKA..DEVANAGARI SIGN PUSHPIKA
A8FB..A8FC; PVALID # DEVANAGARI HEADSTROKE
A8FD..A92D; DISALLOWED # DEVANAGARI SIGN SIDDHAM
A92E..A92F; DISALLOWED # KAYAH LI SIGN CWI..KAYAH LI SIGN CWI
A930..A953; PVALID # REJANG LETTER KA..REJANG LETTER KA
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| A95F..A97C | DISALLOWED | # REJANG SECTION MARK...HANGUL CHOSEONG SSANGYE |
| A97D..A97F | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| A980..A9C0 | PVALID | # JAVANESE SIGN PANYANGGA..JAVANESE PANGKON |
| A9C1..A9CD | DISALLOWED | # JAVANESE LEFT RERENGGAN..JAVANESE TURNED PAD |
| A9CE | UNASSIGNED | # &lt;reserved&gt; |
| A9CF..A9D9 | PVALID | # JAVANESE PANGRANGKEP..JAVANESE DIGIT NINE |
| A9DA..A9DD | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| A9DE..A9DF | DISALLOWED | # JAVANESE PADA TIRTA TUMETES..JAVANESE PADA I |
| A9E0..A9FE | PVALID | # MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI |
| A9FF | UNASSIGNED | # &lt;reserved&gt; |
| AA00..AA36 | PVALID | # CHAM LETTER A..CHAM CONSONANT SIGN WA |
| AA37..AA3F | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AA40..AA4D | PVALID | # CHAM LETTER FINAL K..CHAM CONSONANT SIGN FIN |
| AA4E..AA4F | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AA50..AA59 | PVALID | # CHAM DIGIT ZERO..CHAM DIGIT NINE |
| AA5A..AA5B | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AA5C..AA5F | DISALLOWED | # CHAM PUNCTUATION SPIRAL..CHAM PUNCTUATION TR |
| AA60..AA76 | PVALID | # MYANMAR LETTER KHAMTI GA..MYANMAR LOGOGRAM K |
| AA77..AA79 | DISALLOWED | # MYANMAR SYMBOL AITON EXCLAMATION..MYANMAR SY |
| AA7A..AAC2 | PVALID | # MYANMAR LETTER AITON RA..TAI VIET TONE MAI S |
| AAC3..AAD4 | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AADB..ADD9 | PVALID | # TAI VIET SYMBOL KON..TAI VIET SYMBOL SAM |
| AADF..AAE0 | DISALLOWED | # TAI VIET SYMBOL HO HOI..TAI VIET SYMBOL KOI |
| AAEF..AAF1 | PVALID | # MEETEI MAYEK LETTER E..MEETEI MAYEK VOWEL SI |
| AAF2..AAF6 | DISALLOWED | # MEETEI MAYEK ANJI..MEETEI MAYEK VIRAMA |
| AAF7..AB00 | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AB01..AB06 | PVALID | # ETHIOPIC SYLLABLE TTHU..ETHIOPIC SYLLABLE TT |
| AB07..AB08 | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AB09..AB0E | PVALID | # ETHIOPIC SYLLABLE DDHU..ETHIOPIC SYLLABLE DD |
| AB0F..AB10 | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AB11..AB16 | PVALID | # ETHIOPIC SYLLABLE DZU..ETHIOPIC SYLLABLE DZO |
| AB17..AB1F | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AB20..AB26 | PVALID | # ETHIOPIC SYLLABLE CCHHA..ETHIOPIC SYLLABLE C |
| AB27 | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AB28..AB2E | PVALID | # ETHIOPIC SYLLABLE BBA..ETHIOPIC SYLLABLE BBO |
| AB2F | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AB30..AB5A | PVALID | # LATIN SMALL LETTER BARRED ALPHA..LATIN SMALL |
| AB5B..AB5F | DISALLOWED | # MODIFIER BREVE WITH INVERTED BREVE..MODIFIER |
| AB60..AB65 | PVALID | # LATIN SMALL LETTER SAKHA YAT..GREEK LETTER S |
| AB66..AB6F | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| AB70..ABBF | DISALLOWED | # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT |
| ABC0..ABEA | PVALID | # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL |
| AEBE | DISALLOWED | # MEETEI MAYEK CHEIKHEI |
| ABEF..ABED | PVALID | # MEETEI MAYEK LUM IYEK..MEETEI MAYEK APUN IYE |
| ABEE..ABEF | UNASSIGNED | # &lt;reserved&gt;..&lt;reserved&gt; |
| ABF0..ABF9 | PVALID | # MEETEI MAYEK DIGIT ZERO..MEETEI MAYEK DIGIT |</p>
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10134..10136; UNASSIGNED # <reserved>..<reserved>
10137..10138; DISALLOWED # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
1018F; UNASSIGNED # <reserved>
10190..1019B; DISALLOWED # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN
1019C..1019F; UNASSIGNED # <reserved>..<reserved>
101A0; DISALLOWED # GREEK SYMBOL TAU RHO
101A1..101CF; UNASSIGNED # <reserved>..<reserved>
101D0..101FC; DISALLOWED # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC
101FD; PVALID # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE
101FE..1027F; UNASSIGNED # <reserved>..<reserved>
10280..1029C; PVALID # LYCIAN LETTER A..LYCIAN LETTER X
1029D..1029F; UNASSIGNED # <reserved>..<reserved>
102A0..102D0; PVALID # CARIAN LETTER A..CARIAN LETTER UUU3
102D1..102DF; UNASSIGNED # <reserved>..<reserved>
102E0; PVALID # COPTIC EPACT THOUSANDS MARK
102E1..102F8; DISALLOWED # COPTIC EPACT DIGIT ONE..COPTIC EPACT NUMBER
102FC..102FF; UNASSIGNED # <reserved>..<reserved>
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10320..1032D; DISALLOWED # OLD ITALIC NUMERAL ONE..OLD ITALIC NUMERAL F
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1032D..10340; PVALID # OLD ITALIC LETTER YE..GOTHIC LETTER PAIRTHRA
10341; DISALLOWED # GOTHIC LETTER NINETY
10342..10349; PVALID # GOTHIC LETTER RAID..GOTHIC LETTER OTHAL
1034A; DISALLOWED # GOTHIC LETTER NINE HUNDRED
1034B..1034F; UNASSIGNED # <reserved>..<reserved>
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1037B..1037F; UNASSIGNED # <reserved>..<reserved>
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1039E; UNASSIGNED # <reserved>
1039F; DISALLOWED # UGARITIC WORD DIVIDER
103A0..103C3; PVALID # OLD PERSIAN SIGN A..OLD PERSIAN SIGN HA
103C4..103C7; UNASSIGNED # <reserved>..<reserved>
103C8..103CF; PVALID # OLD PERSIAN SIGN AURAMAZDA..OLD PERSIAN SIG
103D0..103D5; DISALLOWED # OLD PERSIAN WORD DIVIDER..OLD PERSIAN NUMBER
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10428..1049D; PVALID # DESERET SMALL LETTER LONG I..OSMANYA LETTER
1049E..1049F; UNASSIGNED # <reserved>..<reserved>
104A0..104A9; PVALID # OSMANYA DIGIT ZERO..OSMANYA DIGIT NINE
104AA..104AF; UNASSIGNED # <reserved>..<reserved>
104B0..104D3; DISALLOWED # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D4..104D7; UNASSIGNED # <reserved>..<reserved>
104D8..104FB; PVALID # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
104FC..104FF; UNASSIGNED # <reserved>..<reserved>
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10808; PVALID # CYPRIOI SYLLABLE JO
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10836; UNASSIGNED # <reserved>
10837..1083F; PVALID # CYPRIOI SYLLABLE XA..CYPRIOI SYLLABLE XE
10839..1083F; UNASSIGNED # <reserved>..<reserved>
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1083D..1083F; UNASSIGNED # <reserved>..<reserved>
1083F..10855; PVALID # CYPRIOI 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
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108A7..108AF; DISALLOWED # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
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108F3; UNASSIGNED # <reserved>
108F4..108F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
108F6..108F6; UNASSIGNED # <reserved>..<reserved>
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10900..10915; PVALID # PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU
10916..1091B; DISALLOWED # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR
1091C..1091E; UNASSIGNED # <reserved>..<reserved>
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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
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10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMBER F
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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>
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10F1D..10F26; DISALLOWED # OLD SOGDIAN NUMBER ONE..OLD SOGDIAN NUMBER NINE
10F27 ; PVALID # OLD SOGDIAN LIGATURE AYIN-DALETH
10F28..10F2F; UNASSIGNED # <reserved>..<reserved>
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10F51..10F59; DISALLOWED # SOGDIAN NUMBER ONE..SOGDIAN PUNCTUATION HALF
10F5A..10FFF; UNASSIGNED # <reserved>..<reserved>
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11047..1104D; DISALLOWED # BRAHMI DANDA..BRAHMI PUNCTUATION LOTUS
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1108B..110C1; DISALLOWED # KAITHI ABBREVIATION SIGN..KAITHI DOUBLE DAND
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110E9..110EF; UNASSIGNED # <reserved>..<reserved>
110F0..110F9; PVALID # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT NINE
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11135 ; UNASSIGNED # <reserved>
11136..1113F; PVALID # CHAKMA DIGIT ZERO..CHAKMA DIGIT NINE
11140..11143; DISALLOWED # CHAKMA SECTION MARK..CHAKMA QUESTION MARK
11144..11146; PVALID # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
11147..1114F; UNASSIGNED # <reserved>..<reserved>
11150..11173; PVALID # MAHAJANI LETTER A..MAHAJANI SIGN NUKTA
11174..1117F; DISALLOWED # MAHAJANI ABBREVIATION SIGN..MAHAJANI SECTION SIGN
11176 ; PVALID # MAHAJANI LIGATURE SHRI
11177..1117F; UNASSIGNED # <reserved>..<reserved>
11180..111C4; PVALID # SHARADA SIGN CANDRABINDU..SHARADA OM
111C5..111C8; DISALLOWED # SHARADA DANDA..SHARADA SEPARATOR
111C9..111CC; PVALID # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
111CD ; SHARADA SUTRA MARK
111CE..111CF; UNASSIGNED # <reserved>..<reserved>
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111D0..111DA; PVALID  # SHARADA DIGIT ZERO..SHARADA EKAM
111DB  ; DISALLOWED  # SHARADA SIGN SIDDHAM
111DC  ; PVALID  # SHARADA HEADSTROKE
111DD..111DF; DISALLOWED  # SHARADA CONTINUATION SIGN..SHARADA SECTION M
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11213..11237; PVALID  # KOJIKI LETTER NYA..KOJIKI SIGN SHADDA
11238..1123D; DISALLOWED  # KOJIKI DANDA..KOJIKI ABBREVIATION SIGN
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1128F..1129D; PVALID  # MULTANI LETTER BHA..MULTANI LETTER RHA
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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
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11DAA..11EDF; UNASSIGNED # <reserved>..<reserved>
11EE0..11EFF; PVALID # MAKASAR LETTER KA..MAKASAR VOWEL SIGN O
11EFF7..11EFF8; DISALLOWED # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11EFF9..11FFF; UNASSIGNED # <reserved>...<reserved>
12000..12399; PVALID # CUNEIFORM SIGN A..CUNEIFORM SIGN U U
1239A..123FF; UNASSIGNED # <reserved>...<reserved>
12400..1246E; DISALLOWED # CUNEIFORM NUMERIC SIGN TWO ASH..CUNEIFORM NU
1246F       ; UNASSIGNED # <reserved>
12470..12474; DISALLOWED # CUNEIFORM PUNCTUATION SIGN OLD ASSYRIAN WORD
12475..1247F; UNASSIGNED # <reserved>...<reserved>
12480..12543; PVALID # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM
12544..125FF; UNASSIGNED # <reserved>...<reserved>
13000..1342E; PVALID # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYP
1342F..1343F; UNASSIGNED # <reserved>...<reserved>
14400..14646; PVALID # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGL
14647..146FF; UNASSIGNED # <reserved>...<reserved>
16800..16A38; PVALID # BAMUM LETTER PHASE-A NGKUE MFON..BAMUM LETTE
16A39..16A3F; UNASSIGNED # <reserved>...<reserved>
16A40..16A5E; PVALID # MRO LETTER TA..MRO LETTER TEK
16A5F       ; UNASSIGNED # <reserved>
16A60..16A69; PVALID # MRO DIGIT ZERO..MRO DIGIT NINE
16A6A..16A6D; UNASSIGNED # <reserved>...<reserved>
16A6E..16A6F; DISALLOWED # MRO DANDA..MRO DOUBLE DANDA
16A70..16A7F; UNASSIGNED # <reserved>...<reserved>
16A80..16A9D; PVALID # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16AAE..16AEF; UNASSIGNED # <reserved>...<reserved>
16AF0..16AF4; PVALID # BASSA VAH COMBINING HIGH TONE..BASSA VAH COM
16AF5       ; DISALLOWED # BASSA VAH FULL STOP
16AF6..16AFF; UNASSIGNED # <reserved>...<reserved>
16B00..16B36; PVALID # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG MARK C
16B37..16B3F; DISALLOWED  # PAHAWH HMONG SIGN VOS THOM..PAHAWH HMONG SIG
16B40..16B43; PVALID  # PAHAWH HMONG SIGN VOS SEEV..PAHAWH HMONG SIG
16B44..16B45; DISALLOWED  # PAHAWH HMONG SIGN XAUS..PAHAWH HMONG SIGN CI
16B46..16B4F; UNASSIGNED  # <reserved>..<reserved>
16B50..16B59; PVALID  # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
16B5A; UNASSIGNED  # <reserved>
16B5B..16B61; DISALLOWED  # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBE
16B62; UNASSIGNED  # <reserved>
16B63..16B77; PVALID  # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN
16B78..16B7C; UNASSIGNED  # <reserved>..<reserved>
16B7D..16B8F; PVALID  # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
16B90..16B93; PVALID  # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN CA
16B94..16B95; DISALLOWED  # MEDEFAIDRIN SMALL LETTER M..MEDEFAIDRIN SMAL
16B98..16B99; DISALLOWED  # MEDEFAIDRIN DIGIT ZERO..MEDEFAIDRIN EXCLAMAT
16B9A..16B9F; UNASSIGNED  # <reserved>..<reserved>
16FA0..16FA4; PVALID  # MIAO LETTER PA..MIAO LETTER HHA
16FA5..16FAF; UNASSIGNED  # <reserved>..<reserved>
16FBA..16FEE; PVALID  # TANGUT ITERATION MARK..NUSHU ITERATION MARK
16FED..16FE1; PVALID  # TANGUT IDEOGRAPHS..<Tangut Ideograph>
17000..170FF; PVALID  # <Tangut Ideograph>..<Tangut Ideograph>
18800..188AF; PVALID  # TANGUT COMPONENT-001..TANGUT COMPONENT-755
18A83..18AFF; UNASSIGNED  # <reserved>..<reserved>
1B000..1B01E; PVALID  # KATAKANA LETTER ARCHAIC E..HENTAIGANA LETTER
1B01F..1B06F; UNASSIGNED  # <reserved>..<reserved>
1B170..1B2FB; PVALID  # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1B2FC..1BBFF; UNASSIGNED  # <reserved>..<reserved>
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC6B..1BC6F; UNASSIGNED  # <reserved>..<reserved>
1BC70..1BC7C; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLO
1BC7D..1BC7F; UNASSIGNED  # <reserved>..<reserved>
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HI
1BC89..1BC8F; UNASSIGNED  # <reserved>..<reserved>
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
1BC9A..1BC9B; UNASSIGNED  # <reserved>..<reserved>
1BC9C; DISALLOWED  # DUPLOYAN SIGN O WITH CROSS
1BC9D..1BC9F; PVALID  # DUPLOYAN THICK LETTER SELECTOR..DUPLOYAN DOUN
1BC9F..1BCA3; DISALLOWED  # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..SHOR
1BCA4..1CFF; UNASSIGNED  # <reserved>..<reserved>
1D000..1D0F5; DISALLOWED  # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE M
1D0F6..1D0FF; UNASSIGNED  # <reserved>..<reserved>
1D100..1D126; DISALLOWED  # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMO
1D127..1D128; UNASSIGNED  # <reserved>..<reserved>
1D129..1D1E8; DISALLOWED  # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICAL MEASURE
1D1E9..1D1FF; UNASSIGNED  # <reserved>..<reserved>
1D200..1D245; DISALLOWED  # GREEK VOCAL NOTATION SYMBOL-1..GREEK MUSICAL NOTATION
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 SCRIPT CAPITAL H
1D4A0..1D4A1; UNASSIGNED  # <reserved>..<reserved>
1D4A2  ; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL G
1D4A3..1D4A4; UNASSIGNED  # <reserved>..<reserved>
1D4A5..1D4A6; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL J..MATHEMATICAL SCRIPT CAPITAL N
1D4A7..1D4A8; UNASSIGNED  # <reserved>..<reserved>
1D4A9..1D4AC; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL SCRIPT SMALL F
1D4AD  ; UNASSIGNED  # <reserved>
1D4AE..1D4B9; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL SCRIPT SMALL F
1D4BA  ; UNASSIGNED  # <reserved>
1D4BB  ; DISALLOWED  # MATHEMATICAL SCRIPT SMALL F
1D4BC  ; UNASSIGNED  # <reserved>
1D4BD..1D4C3; DISALLOWED  # MATHEMATICAL SCRIPT SMALL H..MATHEMATICAL SCRIPT SMALL H
1D4C4  ; UNASSIGNED  # <reserved>
1D4C5..1D505; DISALLOWED  # MATHEMATICAL SCRIPT SMALL P..MATHEMATICAL SMALL P
1D506  ; UNASSIGNED  # <reserved>
1D507..1D50A; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL D..MATHEMATICAL FRAKTUR CAPITAL J
1D50B..1D50C; UNASSIGNED  # <reserved>..<reserved>
1D50D..1D51C; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL J..MATHEMATICAL FRAKTUR CAPITAL V
1D515  ; UNASSIGNED  # <reserved>
1D516..1D51C; DISALLOWED  # MATHEMATICAL FRAKTUR CAPITAL S..MATHEMATICAL FRAKTUR CAPITAL S
1D51D  ; UNASSIGNED  # <reserved>
1D51E..1D539; DISALLOWED  # MATHEMATICAL FRAKTUR SMALL A..MATHEMATICAL FRAKTUR SMALL A
1D53A  ; UNASSIGNED  # <reserved>
1D53B..1D53E; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL D..MATHEMATICAL DOUBLE-STRUCK CAPITAL D
1D53F  ; UNASSIGNED  # <reserved>
1D540..1D544; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL I..MATHEMATICAL DOUBLE-STRUCK CAPITAL I
1D545  ; UNASSIGNED  # <reserved>
1D546  ; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL O
1D547..1D549; UNASSIGNED  # <reserved>..<reserved>
1D54A..1D550; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK CAPITAL S..MATHEMATICAL DOUBLE-STRUCK CAPITAL S
1D551  ; UNASSIGNED  # <reserved>
1D552..1D6A7; DISALLOWED  # MATHEMATICAL DOUBLE-STRUCK SMALL A..MATHEMATICAL DOUBLE-STRUCK SMALL A
1D6A6..1D6A7; UNASSIGNED  # <reserved>..
1EE27  ; DISALLOWED # ARABIC MATHEMATICAL INITIAL HAH
1EE28  ; UNASSIGNED # <reserved>
1EE29..1EE32; DISALLOWED # ARABIC MATHEMATICAL INITIAL YEH..ARABIC MATH
1EE33  ; UNASSIGNED # <reserved>
1EE34..1EE37; DISALLOWED # ARABIC MATHEMATICAL INITIAL SHEEN..ARABIC MA
1EE38  ; UNASSIGNED # <reserved>
1EE39  ; DISALLOWED # ARABIC MATHEMATICAL INITIAL DAD
1EE3A  ; UNASSIGNED # <reserved>
1EE3B  ; DISALLOWED # ARABIC MATHEMATICAL INITIAL GHAIN
1EE3C..1EE41; UNASSIGNED # <reserved>..<reserved>
1EE42  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED JEEM
1EE43..1EE46; UNASSIGNED # <reserved>..<reserved>
1EE47  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED HAH
1EE48  ; UNASSIGNED # <reserved>
1EE49  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED YEH
1EE4A  ; UNASSIGNED # <reserved>
1EE4B  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED LAM
1EE4C  ; UNASSIGNED # <reserved>
1EE4D..1EE4F; DISALLOWED # ARABIC MATHEMATICAL TAIRED NOON..ARABIC MATH
1EE50  ; UNASSIGNED # <reserved>
1EE51..1EE52; DISALLOWED # ARABIC MATHEMATICAL TAIRED SAD..ARABIC MATHE
1EE53  ; UNASSIGNED # <reserved>
1EE54  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED SHEEN
1EE55..1EE56; UNASSIGNED # <reserved>..<reserved>
1EE57  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED KHAH
1EE58  ; UNASSIGNED # <reserved>
1EE59  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED DAD
1EE5A  ; UNASSIGNED # <reserved>
1EE5B  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED GHAIN
1EE5C  ; UNASSIGNED # <reserved>
1EE5D  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED DOTLESS NOON
1EE5E  ; UNASSIGNED # <reserved>
1EE5F  ; DISALLOWED # ARABIC MATHEMATICAL TAIRED DOTLESS QAF
1EE60  ; UNASSIGNED # <reserved>
1EE61..1EE62; DISALLOWED # ARABIC MATHEMATICAL STRETCHED BEH..ARABIC MA
1EE63  ; UNASSIGNED # <reserved>
1EE64  ; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HEH
1EE65..1EE66; UNASSIGNED # <reserved>..<reserved>
1EE67..1EE6A; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HAH..ARABIC MA
1EE6B  ; UNASSIGNED # <reserved>
1EE6C..1EE72; DISALLOWED # ARABIC MATHEMATICAL STRETCHED MEEM..ARABIC M
1EE73  ; UNASSIGNED # <reserved>
1EE74..1EE77; DISALLOWED # ARABIC MATHEMATICAL STRETCHED SHEEN..ARABIC
1EE78  ; UNASSIGNED # <reserved>
1EE79..1EE7C; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DAD..ARABIC MA
1EE7D  ; UNASSIGNED # <reserved>
1EE7E  ; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DOTLESS FEH
1EE7F  ; UNASSIGNED # <reserved>
1EE80..1EE89; DISALLOWED  # ARABIC MATHEMATICAL LOOPED ALEF..ARABIC MATH
1EE8A; UNASSIGNED  # <reserved>
1EE8B..1EE9B; DISALLOWED  # ARABIC MATHEMATICAL LOOPED LAM..ARABIC MATHE
1EE9C..1EEA0; UNASSIGNED  # <reserved>..
1EEA1..1EEA3; DISALLOWED  # ARABIC MATHEMATICAL DOUBLE-STRUCK BEH..ARABI
1EEA4; UNASSIGNED  # <reserved>
1EEA5..1EEA9; DISALLOWED  # ARABIC MATHEMATICAL DOUBLE-STRUCK WAW..ARABI
1EEAA; UNASSIGNED  # <reserved>
1EEAB..1EEBB; DISALLOWED  # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
1EEBC..1EEEF; UNASSIGNED  # <reserved>..
1EEF0..1EEF1; DISALLOWED  # ARABIC MATHEMATICAL OPERATOR MEEM WITH HAH W
1EEF2..1EEF5; UNASSIGNED  # <reserved>..
1F000..1F02B; DISALLOWED  # MAHJONG TILE EAST WIND..MAHJONG TILE BACK
1F02C..1F02F; UNASSIGNED  # <reserved>..
1F030..1F093; DISALLOWED  # DOMINO TILE HORIZONTAL BACK..DOMINO TILE VER
1F094..1F09F; UNASSIGNED  # <reserved>..
1F0A0..1F0AE; DISALLOWED  # PLAYING CARD BACK..PLAYING CARD KING OF SPADE
1F0AF..1FOB0; UNASSIGNED  # <reserved>..
1FOB1..1FOBF; DISALLOWED  # PLAYING CARD ACE OF HEARTS..PLAYING CARD RED
1FOC0; UNASSIGNED  # <reserved>
1FOC1..1FOCF; DISALLOWED  # PLAYING CARD ACE OF DIAMONDS..PLAYING CARD B
1FOD0; UNASSIGNED  # <reserved>
1FOD1..1F0F5; DISALLOWED  # PLAYING CARD ACE OF CLUBS..PLAYING CARD TRUMP
1F0F6..1FOFF; UNASSIGNED  # <reserved>..
1F100..1F10C; DISALLOWED  # DIGIT ZERO FULL STOP..DINGBAT NEGATIVE CIRCLE
1F10D..1F10F; UNASSIGNED  # <reserved>..
1F110..1F16B; DISALLOWED  # PARENTHESED LATIN CAPITAL LETTER A..RAISED
1F16C..1F16F; UNASSIGNED  # <reserved>..
1F170..1F17C; DISALLOWED  # NEGATIVE SQUARED LATIN CAPITAL LETTER A..SQUARD
1F17D..1F17F; UNASSIGNED  # <reserved>..
1F180..1F19F; DISALLOWED  # REGIONAL INDICATOR SYMBOL LETTER A..SQUARED
1F1A0..1F1AA; UNASSIGNED  # <reserved>..
1F1B0..1F1BF; DISALLOWED  # SQUARED CJK UNIFIED IDEOGRAPH-624B..SQUARED
1F1C0..1F1C5; UNASSIGNED  # <reserved>..
1F1C6..1F1C8; DISALLOWED  # TORTOISE SHELL BRACKETED CJK UNIFIED IDEOGRAPH
1F1C9..1F1C9; UNASSIGNED  # <reserved>..
1F1D0..1F1D1; DISALLOWED  # CIRCLED IDEOGRAPH ADVANTAGE..CIRCLED IDEOGRAPH
1F1D2..1F1D3; UNASSIGNED  # <reserved>..
1F1E0..1F1F5; DISALLOWED  # ROUNDED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F1F6..1F1FF; UNASSIGNED  # <reserved>..
1F200..1F20D; DISALLOWED  # CYCLONE..PAGODA
1F20E..1F21F; UNASSIGNED  # <reserved>..
1F220..1F22F; DISALLOWED  # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F230..1F23F; UNASSIGNED  # <reserved>..
1F240..1F24B; DISALLOWED  # SATELLITE..SKATEBOARD
1F24C..1F24F; UNASSIGNED  # <reserved>..
1F250..1F255; DISALLOWED  # ALCHEMY SYMBOL FOR QUINTESSENCE..ALCHEMY
1F780..1F7D8; DISALLOWED  # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F7D9..1F7FF; UNASSIGNED  # <reserved>..<reserved>
1F800..1F80B; DISALLOWED  # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEAD
1F80C..1F80F; UNASSIGNED  # <reserved>..<reserved>
1F810..1F847; DISALLOWED  # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F848..1F84F; UNASSIGNED  # <reserved>..<reserved>
1F850..1F859; DISALLOWED  # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SERIF
1F85A..1F85F; UNASSIGNED  # <reserved>..<reserved>
1F860..1F887; DISALLOWED  # WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE
1F888..1F88F; UNASSIGNED  # <reserved>..<reserved>
1F890..1F89D; DISALLOWED  # LEFTWARDS TRIANGLE ARROWHEAD..WHITE ARROW SHIELD
1F8AE..1F8FF; UNASSIGNED  # <reserved>..<reserved>
1F900..1F90B; DISALLOWED  # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWARD SKIN TONE
1F90C..1F90F; UNASSIGNED  # <reserved>..<reserved>
1F910..1F93E; DISALLOWED  # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F940..1F94F; UNASSIGNED  # FACE WITH PLEADING EYES
1F950..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>
1FFE0..1FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
20000..2A6D6; PVALID  # <CJK Ideograph Extension B>..<CJK Ideograph Extension D>
2A6D7..2A6F6; UNASSIGNED  # <reserved>..<reserved>
2A700..2B734; PVALID  # <CJK Ideograph Extension C>..<CJK Ideograph Extension D>
2B735..2B73F; UNASSIGNED  # <reserved>..<reserved>
2B740..2B81D; PVALID  # <CJK Ideograph Extension E>..<CJK Ideograph Extension F>
2B81E..2B81F; UNASSIGNED  # <reserved>..<reserved>
2B820..2C4AF; PVALID  # <CJK Ideograph Extension F>..<CJK Ideograph Extension G>
2C4B0..2C8E0; PVALID  # <noncharacter>..<noncharacter>
2C8E1..2F7FF; UNASSIGNED  # <noncharacter>..<noncharacter>
2F800..2FA1D; DISALLOWED  # CJK COMPATIBILITY IDEOGRAPH-2F800..CJK COMPATIBILITY IDEOGRAPH-2FA1D
2FA1E..2FFFF; UNASSIGNED  # <reserved>..<reserved>
2FFFF..3FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
40000..4FFFD; UNASSIGNED # <reserved>..<reserved>
4FFFE.4FFFF; DISALLOWED # <noncharacter>..<noncharacter>
50000..5FFFD; UNASSIGNED # <reserved>..<reserved>
5FFFE.5FFFF; DISALLOWED # <noncharacter>..<noncharacter>
60000..6FFFD; UNASSIGNED # <reserved>..<reserved>
6FFFE.6FFFF; DISALLOWED # <noncharacter>..<noncharacter>
70000..7FFFD; UNASSIGNED # <reserved>..<reserved>
7FFFE.7FFFF; DISALLOWED # <noncharacter>..<noncharacter>
80000..8FFFD; UNASSIGNED # <reserved>..<reserved>
8FFFE.8FFFF; DISALLOWED # <noncharacter>..<noncharacter>
90000..9FFFD; UNASSIGNED # <reserved>..<reserved>
9FFFE.9FFFF; DISALLOWED # <noncharacter>..<noncharacter>
A0000..AFFFD; UNASSIGNED # <reserved>..<reserved>
AFFFE.AFFFF; DISALLOWED # <noncharacter>..<noncharacter>
B0000..BFFFD; UNASSIGNED # <reserved>..<reserved>
BFFFE.BFFFF; DISALLOWED # <noncharacter>..<noncharacter>
C0000..CFFFD; UNASSIGNED # <reserved>..<reserved>
CFFFE.CFFFF; DISALLOWED # <noncharacter>..<noncharacter>
D0000..DFFFD; UNASSIGNED # <reserved>..<reserved>
DFFFE.DFFFF; DISALLOWED # <noncharacter>..<noncharacter>
E0000 ; UNASSIGNED # <reserved>
E0001 ; DISALLOWED # LANGUAGE TAG
E0002..E001F; UNASSIGNED # <reserved>..<reserved>
E0020..E007F; DISALLOWED # TAG SPACE..CANCEL TAG
E0080..E00FF; UNASSIGNED # <reserved>..<reserved>
E0100..E01EF; DISALLOWED # VARIATION SELECTOR-17..VARIATION SELECTOR-25
E01F0..EFFFD; UNASSIGNED # <reserved>..<reserved>
EFFFE..10FFFF; DISALLOWED # <noncharacter>..<noncharacter>

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