IDNA2008 and Unicode 11.0.0
draft-faltstrom-unicodell-03

Abstract

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

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

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1. Introduction

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

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

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

Changing properties to already assigned code points might create problems if the change do result in the derived property value changes. This might make an earlier allowed code point (derived property value PVALID) not be allowed anymore (derived property value DISALLOWED). Or the other way around, a code point that was not allowed (and because of that blocked in some situations) suddenly end up being allowed.

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

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

Specifically, the Internet Architecture Board did issue a statement [IAB] which requested IETF to resolve the issues related to the code point ARABIC LETTER BEH WITH HAMZA ABOVE (U+08A1), introduced in Unicode 7.0.0 [Unicode-7.0.0]. This document resolves this issue and suggests IDNA2008 standard is to follow the Unicode Standard and not update RFC 5892 [RFC5892] or any other IDNA2008 RFCs.

2. Keywords for Requirement Levels

   The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [RFC2119].

3. Background

3.1. IDNA2008 Documents

   IDNA2008 consists of the following documents:
- A document, **RFC 5890** [RFC5890], containing definitions and other material that are needed for understanding other documents in the set. It is referred to informally in other documents in the set as "Defs" or "Definitions".

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

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

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

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

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

- A document, **RFC 6452** [RFC6452], that looks at some changes made to Unicode 6.0.0 [Unicode-6.0.0] that resulted in the derived property value change for the code points U+0CF1, U+0CF2 and U+19DA. The first two changed from DISALLOWED to PVALID, the last from PVALID to DISSALOWED. IETF came to the conclusion the changes where acceptable and **RFC 5892** [RFC5892] was not updated to make the derived property value not change for these code points.
3.2. Deployment

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

- IDNA2003 as specified in RFC 3490 [RFC3490] and RFC 3491 [RFC3491] which implies using a table within which it is said whether code points are allowed to be used or not, and this after doing the in IDNA2003 included normalization.

- A mix between IDNA2003 and IDNA2008 where code points assigned to Unicode after Unicode 3.2.0 [Unicode-3.2.0] have derived property value calculated according to the algorithm specified in IDNA2008.

- Strict IDNA2008 following IANA which implies stayed at Unicode 6.3.0 [Unicode-6.3.0] and treating later assigned code points as UNASSIGNED.

- The IDNA2008 algorithm applied to whatever version of Unicode Standard exists in the operating system and/or libraries used, regardless of whether the version is later than Unicode version 6.3.0 or not.

- A mix between IDNA2003 and IDNA2008 according to local interpretation of the Unicode Technical Standard #46 [UTS-46].

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

In practice, the Unicode Consortium creates a maximum set of code points by assigning code points in the Unicode Standard. The IDNA2008 rules based on the Unicode Standard create a subset of these by assigning the PVALID derived property value to them. Registries (and others dealing with Internationalized Domain Names) are supposed to create an even smaller subset that ultimately is the set of code points that can be used in a particular registry.

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

The complicated situation with deployment of IDNA2008 is discussed further in draft-klensin-idna-rfc5891bis.
4. Notable changes between Unicode 6.3.0 and 11.0.0

4.1. Changes to Unicode 7.0.0

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

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

The discussion in the IETF concluded that although it is possible to create "the same" character in multiple ways, the issue with U+08A1 is not unique. In the case of U+08A1, it can be represented with the sequence ARABIC LETTER BEH (U+0628) and ARABIC HAMZA ABOVE (U+0654). Just like LATIN SMALL LETTER A WITH DIAERESIS (U+00E4) can be represented via the sequence LATIN SMALL LETTER A (U+0061), and COMBINING DIAERESIS (U+0308). One difference between these sequences is how they are treated in the normalization forms specified by the Unicode Consortium.

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

4.2. Changes between Unicode 7.0.0 and 10.0.0

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

4.3. Changes to Unicode 11.0.0

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

- Entries were added for the 684 new characters, including letters, combining marks, digits, symbols, and punctuation marks.
o Georgian letters in the ranges U+10D0..U+10FA, U+10FD..U+10FF were changed from Lo to Ll, to reflect their status as the lowercase of new Georgian case pairs. Case mappings were also added.

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

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

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

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

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

o The Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF have existed since before IDNA2008 was created. Applying the IDNA2008 algorithm to the code points did assign the derived property value PVALID and that value is unchanged even if the underlying Unicode properties have changed.

o The U+111C9 SHARADA SANDHI MARK was added to Unicode 8.0.0 [Unicode-8.0.0]. Applying the IDNA2008 algorithm to the code point did assign the derived property value DISALLOWED. The changes in the underlying properties in the Unicode Standard Version 11.0.0 [Unicode-11.0.0] make the derived property value change to PVALID which is an acceptable change.

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

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

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

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

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

6. IANA Considerations

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

7. Security Considerations

This document makes recommendations regarding the use of the IDNA2008 algorithm for calculation of derived property values, based on the current Unicode version. It also recommends that registries (and others dealing with Internationalized Domain Names) explicitly select appropriate subsets of characters with the derived value of PVALID.

Not following these recommendations can lead to various security issues. Specifically, allowing confusable characters may lead to various phishing attacks.

8. Acknowledgements

Thanks to Martin Durst, Asmus Freytag, Ted Hardie, John Klensin, Michel Suignard, Andrew Sullivan and Suzanne Woolf for input to this document.
9. References

9.1. Normative References


9.2. Non-normative references

[Changes-11.0.0]

[I-D.freytag-troublesome-characters]

[I-D.klensin-idna-rfc5891bis]


[Unicode-10.0.0]

[Unicode-11.0.0]

[Unicode-3.2.0]

[Unicode-5.2.0]

[Unicode-6.0.0]

[Unicode-6.3.0]

[Unicode-7.0.0]

[Unicode-8.0.0]

[Unicode-9.0.0]

### Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0

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

<table>
<thead>
<tr>
<th>Code Point</th>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>037F</td>
<td>DISALLOWED</td>
<td>GREEK CAPITAL LETTER YOT</td>
</tr>
<tr>
<td>0528..052F</td>
<td>DISALLOWED</td>
<td>CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK</td>
</tr>
<tr>
<td>05BD..058E</td>
<td>DISALLOWED</td>
<td>RIGHT-FACING ARMENIAN ETERNITY SIGN...LEFT-FA</td>
</tr>
<tr>
<td>0605</td>
<td>DISALLOWED</td>
<td>ARABIC NUMBER MARK ABOVE</td>
</tr>
<tr>
<td>08A1</td>
<td>PVALID</td>
<td>ARABIC LETTER BEH WITH HAMZA ABOVE</td>
</tr>
<tr>
<td>08AD..08B2</td>
<td>PVALID</td>
<td>ARABIC LETTER LOW ALEF..ARABIC LETTER ZAIN W</td>
</tr>
<tr>
<td>08FF</td>
<td>PVALID</td>
<td>ARABIC MARK SIDEWAYS NOON GHUNNA</td>
</tr>
<tr>
<td>0978</td>
<td>PVALID</td>
<td>DEVANAGARI LETTER MARWARI DDA</td>
</tr>
<tr>
<td>0980</td>
<td>PVALID</td>
<td>BENGALI ANJI</td>
</tr>
<tr>
<td>0C00</td>
<td>PVALID</td>
<td>TELUGU SIGN COMBINING CANDRABINDU ABOVE</td>
</tr>
<tr>
<td>0C34</td>
<td>PVALID</td>
<td>TELUGU LETTER LLLA</td>
</tr>
<tr>
<td>0C81</td>
<td>PVALID</td>
<td>KANNADA SIGN CANDRABINDU</td>
</tr>
<tr>
<td>0D01</td>
<td>PVALID</td>
<td>MALAYALAM SIGN CANDRABINDU</td>
</tr>
<tr>
<td>0DE6..0DEF</td>
<td>PVALID</td>
<td>SINHALA LITH DIGIT ZERO..SINHALA LITH DIGIT</td>
</tr>
<tr>
<td>16F1..16F8</td>
<td>PVALID</td>
<td>RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A</td>
</tr>
<tr>
<td>191D..191E</td>
<td>PVALID</td>
<td>LIMBU LETTER GYAN..LIMBU LETTER TRA</td>
</tr>
<tr>
<td>1AB0..1ABE</td>
<td>PVALID</td>
<td>COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI</td>
</tr>
<tr>
<td>1CF8..1CF9</td>
<td>PVALID</td>
<td>VEDIC TONE RING ABOVE..VEDIC TONE DOUBLE RIN</td>
</tr>
<tr>
<td>1DE7..1DF5</td>
<td>PVALID</td>
<td>COMBINING LATIN SMALL LETTER ALPHA..COMBININ</td>
</tr>
<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>
</tr>
<tr>
<td>2B4D..2B4F</td>
<td>DISALLOWED</td>
<td>DOWNWARDS TRIANGLE-HEADED ZIGZAG ARROW..SHOR</td>
</tr>
<tr>
<td>2B5A..2B73</td>
<td>DISALLOWED</td>
<td>SLANTED NORTH ARROW WITH HOOKED HEAD..DOWNWA</td>
</tr>
<tr>
<td>2B76..2B95</td>
<td>DISALLOWED</td>
<td>NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG</td>
</tr>
<tr>
<td>2B98..2BB9</td>
<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>2BDA..2BD1</td>
<td>DISALLOWED</td>
<td>TOP HALF BLACK CIRCLE..UNCERTAINTY SIGN</td>
</tr>
<tr>
<td>5E3C..5E42</td>
<td>DISALLOWED</td>
<td>STENOGRAPHIC FULL STOP..DOUBLE LOW-REVERSED-</td>
</tr>
<tr>
<td>A69B..A69D</td>
<td>DISALLOWED</td>
<td>CYRILLIC CAPITAL LETTER DOUBLE O..MODIFIER L</td>
</tr>
<tr>
<td>A794..A79F</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER C WITH PALATAL HOOK..LATI</td>
</tr>
<tr>
<td>A7AB..A7AD</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER REVERSED OPEN E..LATIN</td>
</tr>
<tr>
<td>A7B0..A7B1</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL</td>
</tr>
<tr>
<td>A7F7</td>
<td>PVALID</td>
<td>LATIN EPIGRAPHIC LETTER SIDEWAYS I</td>
</tr>
<tr>
<td>A9E0..A9FE</td>
<td>PVALID</td>
<td>MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI</td>
</tr>
<tr>
<td>AA7C..AA7F</td>
<td>PVALID</td>
<td>MYANMAR SIGN TAI LAING TONE-2..MYANMAR LETTE</td>
</tr>
<tr>
<td>AB30..AB5F</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER BARED ALPHA..MODIFIER LE</td>
</tr>
<tr>
<td>AB64..AB65</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER INVERTED ALPHA..GREEK LET</td>
</tr>
<tr>
<td>FE27..FE2D</td>
<td>PVALID</td>
<td>COMBINING LIGATURE LEFT HALF BELOW..COMBININ</td>
</tr>
<tr>
<td>101B8..101B9C</td>
<td>DISALLOWED</td>
<td>GREEK ONE QUARTER SIGN..GREEK SINUSOID SIGN</td>
</tr>
<tr>
<td>101A0</td>
<td>DISALLOWED</td>
<td>GREEK SYMBOL TAU RHO</td>
</tr>
<tr>
<td>102E0..102FB</td>
<td>PVALID</td>
<td>COPTIC EPACT THOUSANDS MARK..COPTIC EPACT NU</td>
</tr>
<tr>
<td>1031F</td>
<td>PVALID</td>
<td>OLD ITALIC LETTER ESS</td>
</tr>
</tbody>
</table>
10350..1037A; PVALID  # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L
10500..10527; PVALID  # ELBASAN LETTER A..ELBASAN LETTER KHE
10530..10563; PVALID  # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
1056F; DISALLOWED  # CAUCASIAN ALBANIAN CITATION MARK
10600..10736; PVALID  # LINEAR A SIGN AB001..LINEAR A SIGN A664
10740..10755; PVALID  # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10760..10767; PVALID  # LINEAR A SIGN A800..LINEAR A SIGN A807
10860..1089E; PVALID  # PALMYRENE LETTER ALEPH..NABATAEAN LETTER TAW
108A7..108AF; DISALLOWED  # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
10A80..10A9F; PVALID  # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10AC0..10AE6; PVALID  # MANICHAEAN LETTER ALEPH..MANICHAEAN ABBREVIATION
10AF7..10AFAF; DISALLOWED  # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATION
1107F; PVALID  # BRAHMI NUMBER JOINER
111E1..111F4; DISALLOWED  # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
11200..11211; PVALID  # KOJIKI LETTER A..KOJIKI LETTER JJA
11213..1123D; PVALID  # KOJIKI LETTER NYA..KOJIKI ABBREVIATION SIGN
112B0..112EF; PVALID  # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
112F0..112F9; PVALID  # KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE
11301..1130C; PVALID  # GRANTHA SIGN CANDRABINDU..GRANTHA SIGN VISAR
11305..1130C; PVALID  # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130F..11310; PVALID  # GRANTHA LETTER EE..GRANTHA LETTER AI
11313..11328; PVALID  # GRANTHA LETTER SO..GRANTHA LETTER KA
1132A..11333; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11332..11333; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LL
11335..11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..1133F; PVALID  # GRANTHA SIGN NUKTA..GRANTHA VOWEL SIGN VOCAL
1133F..1134F; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
1134B..1134D; PVALID  # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
11357; PVALID  # GRANTHA AU LENGTH MARK
1135D..11363; PVALID  # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11366..1136C; PVALID  # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA DIGIT NINE
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHA LETTER HA
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 EE..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 CANTI CAPITAL LETTER NGAA..WARANG CANTI
118FF; PVALID  # WARANG CANTI OM
11AC0..11AF8; PVALID  # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
1236F..12398; PVALID  # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN U
12463..1246E; DISALLOWED # CUNEIFORM NUMERIC SIGN ONE QUARTER GUR..CUNE
12474 ; DISALLOWED # CUNEIFORM PUNCTUATION SIGN DIAGONAL QUADCOLUMN.
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
16AD0..16AED; PVALID # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16AF0..16AF5; PVALID # BASSA VAH COMBINING HIGH TONE..BASSA VAH FULL
16B00..16B45; PVALID # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG SIGN C
16B50..16B59; PVALID # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
16B60..16B61; DISALLOWED # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBERS
16B63..16B77; PVALID # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN
16B7D..16B8F; PVALID # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
16C00..16C6A; PVALID # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
16C70..16C7C; PVALID # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLOYAN
16C80..16C88; PVALID # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX H
16C90..16C99; PVALID # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
16C9C..16CA3; DISALLOWED # DUPLOYAN SIGN O WITH CROSS..SHORTHAND FORMAT
16E800..16E8C4; PVALID # MENDE IKAKUI SYLLABLE M001 KI..MENDE IKAKUI
16E8C7..16E8D6; DISALLOWED # MENDE IKAKUI DIGIT ONE..MENDE IKAKUI COMBINATIONS
1F0B4; DISALLOWED # PLAYING CARD RED JOKER
1F0E0..1F0F5; DISALLOWED # PLAYING CARD FOOL..PLAYING CARD TRUMP-21
1F10B..1F10C; DISALLOWED # DINGBATS CIRCLED SANS-SERIF DIGIT ZERO..DINGBATS
1F321..1F32C; DISALLOWED # THERMOMETER..WIND BLOWING FACE
1F336; DISALLOWED # HOT PEPPER
1F37D; DISALLOWED # FORK AND KNIFE WITH PLATE
1F394..1F39F; DISALLOWED # HEART WITH TIP ON THE LEFT..ADMISSION TICKET
1F3C5; DISALLOWED # SPORTS MEDAL
1F3CB..1F3CE; DISALLOWED # WEIGHT LIFTER..RACING CAR
1F3D4..1F3DF; DISALLOWED # SNOW CAPPED MOUNTAIN..STADIUM
1F3E0..1F3E6; DISALLOWED # WHITE PENNANT..LABEL
1F43F; DISALLOWED # CHIPMUNK
1F441; DISALLOWED # EYE
1F4F8; DISALLOWED # CAMERA WITH FLASH
1F541..1F54F; DISALLOWED # FILM PROJECTOR..PORTABLE STEREO
1F568..1F579; DISALLOWED # LOWER RIGHT SHADOWED WHITE CIRCLE..UPPER RIGHT
1F57B..1F5A3; DISALLOWED # LEFT HAND TELEPHONE RECEIVER..BLACK DOWN POI
1F641..1F642; DISALLOWED # SLIGHTLY FROWNING FACE..SLIGHTLY SMILING FACE
1F650..1F67F; DISALLOWED # NORTH WEST POINTING LEAF..REVERSE CHECKER BOARD
1F6C6..1F6CF; DISALLOWED # TRIANGLE WITH ROUNDED CORNERS..BED
1F6E0..1F6EC; DISALLOWED # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F6F0..1F6F3; DISALLOWED # SATELLITE..PASSenger SHIP
1F780..1F7D4; DISALLOWED # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F800..1F80B; DISALLOWED # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEAD
1F847; DISALLOWED # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F850..1F859; DISALLOWED # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SERIF
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
OC5A  ; PVALID      # TELUGU LETTER RRRA
0D5F  ; PVALID      # MALAYALAM LETTER ARCHAIC II
13F5  ; PVALID      # CHEROKEE LETTER MV
13F8..13FD  ; DISALLOWED  # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LETTER
20BE  ; DISALLOWED  # LARI SIGN
218A..218B  ; DISALLOWED  # TURNED DIGIT TWO..TURNED DIGIT THREE
2BEC..2BEF  ; DISALLOWED  # LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARR
9FCD..9FD5  ; PVALID      # <CJK Ideograph>..<CJK Ideograph>
A69E  ; PVALID      # COMBINING CYRILLIC LETTER EF
A78F  ; PVALID      # LATIN LETTER SINOLOGICAL DOT
A7B2..A7B7  ; DISALLOWED  # LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LA
A8FC..A8FD  ; PVALID      # DEVANAGARI SIGN SIDDHAM..DEVANAGARI JAIN OM
AB60..AB63  ; PVALID      # LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LETTER
AB70..ABBF  ; DISALLOWED  # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETTER
FE2E..FE2F  ; PVALID      # COMBINING CYRILLIC TITLO LEFT HALF..COMBINING CYRILLIC TITLO RIGHT HALF
108F0..108F2; PVALID      # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F4..108F5; PVALID      # HATRAN LETTER SHIN..HATRAN LETTER TAW
108FB..108FF; DISALLOWED  # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
109C0..109CF; DISALLOWED  # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIVE NUMBER ONE HUNDRED
10CC0..10CF2; PVALID      # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIAN CAPITAL LETTER A
10CF0..10CF2; PVALID      # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMBER ONE
110C9..111CC; DISALLOWED  # SHARADA SANDHI MARK..SHARADA SANDHI MARK
111DB..111DF; DISALLOWED  # SHARADA SIGN SIDDHAM..SHARADA SIGN SIDDHAM
112B0..112B6; PVALID      # MULTANI LETTER A..MULTANI LETTER GA
11288  ; PVALID      # MULTANI LETTER GHA
1128A..1128D; PVALID      # MULTANI LETTER CA..MULTANI LETTER JJA
1128F..1129D; PVALID      # MULTANI LETTER NYA..MULTANI LETTER BA
1129F..112A9; PVALID      # MULTANI LETTER BHA..MULTANI SECTION MARK
11300  ; PVALID      # GRANTHA SIGN COMBINING ANUSVARA ABOVE
11350  ; PVALID      # GRANTHA OM
115C9..115DF; DISALLOWED  # SIDDHAM SECTION MARK WITH TRIDENT AND U-SHAP
11700..11719; PVALID      # AHOM LETTER KA..AHOM LETTER JHA
1171D..1172B; PVALID      # AHOM CONSONANT SIGN MEDIAL LA..AHOM CONSONANT SIGN MEDIAL LA
11730..1173F; PVALID      # AHOM DIGIT ZERO..AHOM SYMBOL VI
12399  ; PVALID      # CUNEIFORM SIGN U U
12480..12543; PVALID  # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM
14400..14646; PVALID  # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGL
1D1DE..1D1E8; DISALLOWED # MUSICAL SYMBOL KIEVAN C CLEF..MUSICAL SYMBOL
1D800..1DA8B; DISALLOWED # SIGNWRITING HAND-FIST INDEX..SIGNWRITING PAR
1DA9B..1DA9F; PVALID   # SIGNWRITING FILL MODIFIER-2..SIGNWRITING FIL
1DAA1..1DAAF; PVALID   # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING
1F32D..1F32F; DISALLOWED # HOT DOG..BURRITO
1F37E..1F37F; DISALLOWED # BOTTLE WITH POPPING CORK..POPCORN
1F643..1F644; DISALLOWED # UPSIDE-DOWN FACE..FACE WITH ROLLING EYES
1F910..1F918; DISALLOWED # ZIPPER-MOUTH FACE..SIGN OF THE HORNS
1F980..1F984; DISALLOWED # CRAB..UNICORN FACE

Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

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

08B6..08BD ; PVALID  # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08D4..08E2 ; PVALID  # ARABIC SMALL HIGH WORD AR-RUB..ARABIC DISPUT
0C80 ; PVALID  # KANNADA SIGN SPACING CANDRABINDU
0D4F ; DISALLOWED # MALAYALAM SIGN PARA
0D56 ; PVALID  # MALAYALAM LETTER CHILLU M..MALAYALAM LETTER
0D58..0D5E ; DISALLOWED # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D76..0D78 ; DISALLOWED # MALAYALAM FRACTION ONE SIXTEENTH..MALAYALAM
1C80..1C88 ; DISALLOWED # CYRILLIC SMALL LETTER ROUNDED VE..CYRILLIC S
1DFB ; PVALID  # COMBINING DELETION MARK
23FB..23FE ; DISALLOWED # POWER SYMBOL..POWER SLEEP SYMBOL
2E43..2E44 ; DISALLOWED # DASH WITH LEFT UPTURN..DOUBLE SUSPENSION MAR
A7AE ; DISALLOWED # LATIN CAPITAL LETTER SMALL CAPITAL I
A8C5 ; PVALID  # SAURASHTRA SIGN CANDRABINDU
1018D..1018E; DISALLOWED # GREEK INDICTION SIGN..NOMisma SIGN
104B0..104D3; DISALLOWED # OSAge CAPITAL LETTER A..OsaGe CAPITAL LETTER
104D8..104FB; PVALID   # OSAge SMALL LETTER A..OsaGe SMALL LETTER ZHA
1123E ; PVALID  # KHOJKI SIGN SUKUN
1145B ; DISALLOWED # NEWA PLACEHOLDER MARK
1145D ; DISALLOWED # NEWA INSERTION SIGN
11660..1166C; DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
11C00..11C08; PVALID  # BHAiKSUKI LETTER A..BHAiKSUKI LETTER VOCALIC
11C0A..11C36; PVALID  # BHAiKSUKI LETTER E..BHAiKSUKI VOWEL SIGN VOC
11C38..11C45; PVALID  # BHAiKSUKI VOWEL SIGN E..BHAiKSUKI GAP FILLER
11C50..11C6C; PVALID  # BHAiKSUKI DIGIT ZERO..BHAiKSUKI HUNDREDS UNI
Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0

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

Changes from derived property value DISALLOWED to PVALID.

111C9 ; PVALID  # SHARADA SANDHI MARK

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

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0560  ; PVALID # ARMENIAN SMALL LETTER TURNED AYB
0588  ; PVALID # ARMENIAN SMALL LETTER YI WITH STROKE
05EF  ; PVALID # HEBREW YOD TRIANGLE
07FD..07FF  ; PVALID # NKO DANTAYALAN..NKO TAMAN SIGN
08D3  ; PVALID # ARABIC SMALL LOW WAW
09FE  ; PVALID # BENGALI SANDHI MARK
0A76  ; DISALLOWED # GURMUKHI ABBREVIATION SIGN
0C04  ; PVALID # TELUGU SIGN COMBINING ANUSVARA ABOVE
0C84  ; DISALLOWED # KANNADA SIGN SIDDHAM
1878  ; PVALID # MONGOLIAN LETTER CHA WITH TWO DOTS
1C90..1CBA  ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBD..1CBF  ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..GEORGI
2BDA..2BDC  ; DISALLOWED # OVERLAPPING WHITE SQUARES..OVERLAPPING BLACK
2BD3..2BEB  ; DISALLOWED # PLUTO FORM TWO..STAR WITH RIGHT HALF BLACK
2BF0..2BFE  ; DISALLOWED # ERIS FORM ONE..REVERSED RIGHT ANGLE
2E4A..2E4E  ; DISALLOWED # DOTTED SOLIDUS..PUNCTUS ELEVATUS MARK
312F  ; PVALID # BOPOMOFO LETTER NN
9FEB..9FEF  ; PVALID # <CJK Ideograph>..<CJK Ideograph>
A7AF  ; PVALID # LATIN LETTER SMALL CAPITAL Q
A7B8..A7B9  ; DISALLOWED # LATIN CAPITAL LETTER U WITH STROKE..LATIN SM
A8FE..A8FF  ; PVALID # DEVANAGARI LETTER AY..DEVANAGARI VOWEL SIGN
10A34..10A35; PVALID # KHAROSHTHI LETTER TTA..KHAROSHTHI LETTER VH
10A48  ; DISALLOWED # KHAROSHTHI FRACTION ONE HALF
10DD0..10D27; PVALID # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D30..10D39; PVALID # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA
10F00..10F27; PVALID # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LIGATU
10F30..10F59; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN PUNCTUATION HA
110CD  ; DISALLOWED # KAITHI NUMBER SIGN ABOVE
11144..11146; PVALID # CHAKMA LETTER LHAA..CHARMA VOWEL SIGN EI
1133B  ; PVALID # COMBINING BINDU BELOW
1145E  ; PVALID # NEWA SANDHI MARK
1171A  ; PVALID # AHOM LETTER ALTERNATE BA
11800..1183B; PVALID # DOGRA LETTER A..DOGRA ABBREVIATION SIGN
11A9D  ; PVALID # SOYOMO MARK PLUTA
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D67..11D68; PVALID # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
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
11DA0..11DA9; PVALID # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGI
11EE0..11EF8; PVALID # MAKASAR LETTER KA..MAKASAR END OF SECTION
16E40..16E9A; DISALLOWED # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN EX
187ED..187F1; PVALID # <Tangut Ideograph>..<Tangut Ideograph>
1D2E0..1D2F3; DISALLOWED # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D372..1D378; DISALLOWED # IDEOGRAPHIC TALLY MARK ONE..TALLY MARK FIVE
1EC71..1ECB4; DISALLOWED # INDIC SIYAQ NUMBER ONE..INDIC SIYAQ ALTERNAT
1F12F  ; DISALLOWED # COPYLEFT SYMBOL
1F6F9  ; DISALLOWED # SKATEBOARD

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Appendix F. Code points in Unicode Character Database (UCD) format for Unicode 11.0.0

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

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014C ; DISALLOWED # LATIN CAPITAL LETTER O WITH MACRON
014D ; PVALID # LATIN SMALL LETTER O WITH MACRON
014E ; DISALLOWED # LATIN CAPITAL LETTER O WITH BREVE
014F ; PVALID # LATIN SMALL LETTER O WITH BREVE
0150 ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
0151 ; PVALID # LATIN SMALL LETTER O WITH DOUBLE ACUTE
0152 ; DISALLOWED # LATIN CAPITAL LIGATURE OE
0153 ; PVALID # LATIN SMALL LIGATURE OE
0154 ; DISALLOWED # LATIN CAPITAL LETTER R WITH ACUTE
0155 ; PVALID # LATIN SMALL LETTER R WITH ACUTE
0156 ; DISALLOWED # LATIN CAPITAL LETTER R WITH CEDILLA
0157 ; PVALID # LATIN SMALL LETTER R WITH CEDILLA
0158 ; DISALLOWED # LATIN CAPITAL LETTER R WITH CARON
0159 ; PVALID # LATIN SMALL LETTER R WITH CARON
015A ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE
015B ; PVALID # LATIN SMALL LETTER S WITH ACUTE
015C ; DISALLOWED # LATIN CAPITAL LETTER S WITH CIRCUMFLEX
015D ; PVALID # LATIN SMALL LETTER S WITH CIRCUMFLEX
015E ; DISALLOWED # LATIN CAPITAL LETTER S WITH CEDILLA
015F ; PVALID # LATIN SMALL LETTER S WITH CEDILLA
0160 ; DISALLOWED # LATIN CAPITAL LETTER S WITH CARON
0161 ; PVALID # LATIN SMALL LETTER S WITH CARON
0162 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CEDILLA
0163 ; PVALID # LATIN SMALL LETTER T WITH CEDILLA
0164 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CARON
0165 ; PVALID # LATIN SMALL LETTER T WITH CARON
0166 ; DISALLOWED # LATIN CAPITAL LETTER T WITH STROKE
0167 ; PVALID # LATIN SMALL LETTER T WITH STROKE
0168 ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE
0169 ; PVALID # LATIN SMALL LETTER U WITH TILDE
016A ; DISALLOWED # LATIN CAPITAL LETTER U WITH MACRON
016B ; PVALID # LATIN SMALL LETTER U WITH MACRON
016C ; DISALLOWED # LATIN CAPITAL LETTER U WITH BREVE
016D ; PVALID # LATIN SMALL LETTER U WITH BREVE
016E ; DISALLOWED # LATIN CAPITAL LETTER U WITH RING ABOVE
016F ; PVALID # LATIN SMALL LETTER U WITH RING ABOVE
0170 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
0171 ; PVALID # LATIN SMALL LETTER U WITH DOUBLE ACUTE
0172 ; DISALLOWED # LATIN CAPITAL LETTER U WITH OGONEK
0173 ; PVALID # LATIN SMALL LETTER U WITH OGONEK
0174 ; DISALLOWED # LATIN CAPITAL LETTER W WITH CIRCUMFLEX
0175 ; PVALID # LATIN SMALL LETTER W WITH CIRCUMFLEX
0176 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
0177 ; PVALID # LATIN SMALL LETTER Y WITH CIRCUMFLEX
0178..0179 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DIAERESIS..LATIN
017A ; PVALID # LATIN SMALL LETTER Z WITH ACUTE
017B ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DOT ABOVE
017C ; PVALID # LATIN SMALL LETTER Z WITH DOT ABOVE
017D  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CARON
017E  ; PVALID       # LATIN SMALL LETTER Z WITH CARON
017F  ; DISALLOWED  # LATIN SMALL LETTER LONG S
0180  ; PVALID       # LATIN SMALL LETTER B WITH STROKE
0181..0182  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH HOOK..LATIN CAPITAL B WITH TOPBAR
0183  ; PVALID       # LATIN SMALL LETTER B WITH TOPBAR
0184  ; DISALLOWED  # LATIN CAPITAL LETTER TONE SIX
0185  ; PVALID       # LATIN SMALL LETTER TONE SIX
0186..0187  ; DISALLOWED  # LATIN CAPITAL LETTER OPEN O..LATIN CAPITAL LETTER C WITH HOOK
0188  ; PVALID       # LATIN SMALL LETTER C WITH HOOK
0189..018B  ; DISALLOWED  # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL LETTER AFRICAN D WITH TOPBAR..LATIN SMALL LETTER AFRICAN D WITH TOPBAR
018C..018D  ; PVALID       # LATIN SMALL LETTER D WITH TOPBAR..LATIN SMALL LETTER D WITH TOPBAR
018E..0191  ; DISALLOWED  # LATIN CAPITAL LETTER REVERSED E..LATIN CAPITAL LETTER REVERSED E
0192  ; PVALID       # LATIN SMALL LETTER F WITH HOOK
0193..0194  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPITAL LETTER G WITH HOOK
0195  ; PVALID       # LATIN SMALL LETTER HV
0196..0198  ; DISALLOWED  # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LETTER IOTA WITH TOPBAR
0199..019D  ; PVALID       # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL LETTER K WITH HOOK
019E..01A0  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL LETTER TURNED M WITH LONG RIGHT LEG
019A..01A2  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MIDDLE TILDE..LATIN CAPITAL LETTER O WITH MIDDLE TILDE
01A4  ; PVALID       # LATIN SMALL LETTER O WITH HORN
01A5..01A7  ; DISALLOWED  # LATIN CAPITAL LETTER P WITH HOOK..LATIN CAPITAL LETTER P WITH HOOK
01A8  ; PVALID       # LATIN SMALL LETTER P WITH HOOK
01A9  ; DISALLOWED  # LATIN CAPITAL LETTER ESH
01AA..01AB  ; PVALID       # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL LETTER REVERSED ESH LOOP
01AC  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH HOOK
01AD  ; PVALID       # LATIN SMALL LETTER T WITH HOOK
01AE..01AF  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH RETROFLEX HOOK..LATIN CAPITAL LETTER T WITH RETROFLEX HOOK
01B0  ; PVALID       # LATIN SMALL LETTER U WITH HORN
01B1..01B3  ; DISALLOWED  # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL LETTER UPSILON
01B4  ; PVALID       # LATIN SMALL LETTER Y WITH HOOK
01B5  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH STROKE
01B6  ; PVALID       # LATIN SMALL LETTER Z WITH STROKE
01B7..01B9  ; DISALLOWED  # LATIN CAPITAL LETTER EZH..LATIN CAPITAL LETTER EZH
01B9..01BB  ; PVALID       # LATIN SMALL LETTER EZH REVERSED..LATIN SMALL LETTER EZH REVERSED
01BC  ; DISALLOWED  # LATIN CAPITAL LETTER TONE FIVE
01BD..01C3  ; PVALID       # LATIN SMALL LETTER TONE FIVE..LATIN SMALL LETTER TONE FIVE
01C4..01CD  ; DISALLOWED  # LATIN CAPITAL LETTER DZ WITH CARON..LATIN CAPITAL LETTER DZ WITH CARON
01CE  ; PVALID       # LATIN SMALL LETTER A WITH CARON
01CF  ; DISALLOWED  # LATIN CAPITAL LETTER I WITH CARON
01D0  ; PVALID       # LATIN SMALL LETTER I WITH CARON
01D1  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CARON
01D2  ; PVALID       # LATIN SMALL LETTER O WITH CARON
01D3        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH CARON
01D4        ; PVALID      # LATIN SMALL LETTER U WITH CARON
01D5        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND MACR
01D6        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND MACR
01D7        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUT
01D8        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND ACUT
01D9        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND CARO
01DA        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND CARO
01DC..01DD  ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND GRAV
01DE        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DIAERESIS AND MACR
01DF        ; PVALID      # LATIN SMALL LETTER A WITH DIAERESIS AND MACR
01E0        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACR
01E1        ; PVALID      # LATIN SMALL LETTER A WITH DOT ABOVE AND MACR
01E2        ; DISALLOWED  # LATIN CAPITAL LETTER AE WITH MACRON
01E3        ; PVALID      # LATIN SMALL LETTER AE WITH MACRON
01E4        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH STROKE
01E5        ; PVALID      # LATIN SMALL LETTER G WITH STROKE
01E6        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH CARON
01E7        ; PVALID      # LATIN SMALL LETTER G WITH CARON
01E8        ; DISALLOWED  # LATIN CAPITAL LETTER K WITH CARON
01E9        ; PVALID      # LATIN SMALL LETTER K WITH CARON
01EA        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK
01EB        ; PVALID      # LATIN SMALL LETTER O WITH OGONEK
01EC        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK AND 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
01F1..01F4  ; DISALLOWED  # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTER
01F5        ; PVALID      # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  ; DISALLOWED  # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LETTER
01F9        ; PVALID      # LATIN SMALL LETTER N WITH GRAVE
01FA        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH RING ABOVE AND A
01FB        ; PVALID      # LATIN SMALL LETTER A WITH RING ABOVE AND ACU
01FC        ; DISALLOWED  # LATIN CAPITAL LETTER AE WITH ACUTE
01FD        ; PVALID      # LATIN SMALL LETTER AE WITH ACUTE
01FE        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
01FF        ; PVALID      # LATIN SMALL LETTER O WITH STROKE AND ACUTE
0200        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
0201        ; PVALID      # LATIN SMALL LETTER A WITH DOUBLE GRAVE
0202        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH INVERTED BREVE
0203        ; PVALID      # LATIN SMALL LETTER A WITH INVERTED BREVE
0204        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOUBLE GRAVE
0205        ; PVALID      # LATIN SMALL LETTER E WITH DOUBLE GRAVE
0206        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH INVERTED BREVE
0207        ; PVALID      # LATIN SMALL LETTER E WITH INVERTED BREVE
0208        ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
0209        ; PVALID      # LATIN SMALL LETTER I WITH DOUBLE GRAVE
020A        ; DISALLOWED  # LATIN CAPITAL LETTER I WITH INVERTED BREVE
020B        ; PVALID      # LATIN SMALL LETTER I WITH INVERTED BREVE
020C        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
020D        ; PVALID      # LATIN SMALL LETTER O WITH DOUBLE GRAVE
020E        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH INVERTED BREVE
020F        ; PVALID      # LATIN SMALL LETTER O WITH INVERTED BREVE
0210        ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOUBLE GRAVE
0211        ; PVALID      # LATIN SMALL LETTER R WITH DOUBLE GRAVE
0212        ; DISALLOWED  # LATIN CAPITAL LETTER R WITH INVERTED BREVE
0213        ; PVALID      # LATIN SMALL LETTER R WITH INVERTED BREVE
0214        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DOUBLE GRAVE
0215        ; PVALID      # LATIN SMALL LETTER U WITH DOUBLE GRAVE
0216        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH INVERTED BREVE
0217        ; PVALID      # LATIN SMALL LETTER U WITH INVERTED BREVE
0218        ; DISALLOWED  # LATIN CAPITAL LETTER S WITH COMMA BELOW
0219        ; PVALID      # LATIN SMALL LETTER S WITH COMMA BELOW
021A        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH COMMA BELOW
021B        ; PVALID      # LATIN SMALL LETTER T WITH COMMA BELOW
021C        ; DISALLOWED  # LATIN CAPITAL LETTER YOGH
021D        ; PVALID      # LATIN SMALL LETTER YOGH
021E        ; DISALLOWED  # LATIN CAPITAL LETTER H WITH CARON
021F        ; PVALID      # LATIN SMALL LETTER H WITH CARON
0220        ; DISALLOWED  # LATIN CAPITAL LETTER N WITH LONG RIGHT LEG
0221        ; PVALID      # LATIN SMALL LETTER D WITH CURL
0222        ; DISALLOWED  # LATIN CAPITAL LETTER OU
0223        ; PVALID      # LATIN SMALL LETTER OU
0224        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH HOOK
0225        ; PVALID      # LATIN SMALL LETTER Z WITH HOOK
0226        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT ABOVE
0227        ; PVALID      # LATIN SMALL LETTER A WITH DOT ABOVE
0228        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CEDILLA
0229        ; PVALID      # LATIN SMALL LETTER E WITH CEDILLA
022A        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DIAERESIS AND MACR
022B        ; PVALID      # LATIN SMALL LETTER O WITH DIAERESIS AND MACR
022C        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH TILDE AND MACRON
022D        ; PVALID      # LATIN SMALL LETTER O WITH TILDE AND MACRON
022E        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT ABOVE
022F        ; PVALID      # LATIN SMALL LETTER O WITH DOT ABOVE
0230        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT ABOVE AND MACR
0231        ; PVALID      # LATIN SMALL LETTER O WITH DOT ABOVE AND MACR
0232        ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH MACRON
0233..0239  ; PVALID      # LATIN SMALL LETTER Y WITH MACRON..LATIN SMALL LETTER Y WITH MACRON
023A..023B  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH STROKE..LATIN CAPITAL LETTER A WITH STROKE
023C        ; PVALID      # LATIN SMALL LETTER C WITH STROKE
023D..023E  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH BAR..LATIN CAPITAL LETTER L WITH BAR
023F..0240  ; PVALID      # LATIN SMALL LETTER S WITH SWASH TAIL..LATIN SMALL LETTER S WITH SWASH TAIL
0241        ; DISALLOWED  # LATIN CAPITAL LETTER GLOTTAL STOP
0242        ; PVALID      # LATIN SMALL LETTER GLOTTAL STOP
0243..0246  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH STROKE..LATIN CA
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 SMAL
02B0..02B8  ; DISALLOWED  # MODIFIER LETTER SMALL H..MODIFIER LETTER SMA
02B9..02C1  ; PVALID  # MODIFIER LETTER PRIME..MODIFIER LETTER REVER
02C2..02C5  ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LET
02C6..02D1  ; PVALID  # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER
02D2..02EB  ; DISALLOWED  # MODIFIER LETTER CENTRED RIGHT HALF RING..MOD
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
0300..033F  ; PVALID  # COMBINING GRAVE ACCENT..COMBINING DOUBLE OVE
0340..0341  ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING ACUTE T
0342   ; PVALID  # COMBINING GREEK PERISPOMENI
0343..0345  ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK YPO
0346..034E  ; PVALID  # COMBINING BRIDGE ABOVE..COMBINING UPWARDS AR
034F   ; DISALLOWED  # COMBINING GRAPHEME JOINER
0350..036F  ; PVALID  # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING L
0370   ; DISALLOWED  # GREEK CAPITAL LETTER HETA
0371   ; PVALID  # GREEK SMALL LETTER HETA
0372   ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI
0373   ; PVALID  # GREEK SMALL LETTER ARCHAIC SAMPI
0374   ; DISALLOWED  # GREEK NUMERAL SIGN
0375   ; CONTEXTO  # GREEK LOWER NUMERAL SIGN
0376   ; DISALLOWED  # GREEK CAPITAL LETTER PAMPHYLIAN DIGAMMA
0377   ; PVALID  # GREEK SMALL LETTER PAMPHYLIAN DIGAMMA
0378..0379  ; UNASSIGNED  # <reserved>..<reserved>
037A   ; DISALLOWED  # GREEK YPOEGRAMMENI
037B..037D  ; PVALID  # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GR
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
038B   ; UNASSIGNED  # <reserved>
038C   ; DISALLOWED  # GREEK CAPITAL LETTER OMICRON WITH TONOS
038D   ; UNASSIGNED  # <reserved>
038E..038F  ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH TONOS..GRE
0390   ; PVALID  # GREEK SMALL LETTER IOTA WITH DIALECTICA AND T
0391..03A1  ; DISALLOWED  # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LE
03A2   ; UNASSIGNED  # <reserved>
03A3..03AB  ; DISALLOWED  # GREEK CAPITAL LETTER SIGMA..GREEK CAPITAL LE
03AC..03CE  ; PVALID  # GREEK SMALL LETTER ALPHA WITH TONOS..GREEK SMALL LETTER GAMMA
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 Lunate SIGMA
03F8        ; PVALID  # GREEK SMALL LETTER SHO
03F9..03FA  ; DISALLOWED  # GREEK CAPITAL Lunate SIGMA SYMBOL..GREEK CAPITAL Rho With Strok
03FB..03FC  ; PVALID  # GREEK SMALL LETTER SAN..GREEK Rho With Strok
03FD..042F  ; DISALLOWED  # GREEK CAPITAL Reversed Lunate Sigma Symbol..GREEK SMALL LETTER SAN
0430..045F  ; PVALID  # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETTER OMEGA
0460        ; DISALLOWED  # CYRILLIC CAPITAL LETTER OMEGA
0461        ; PVALID  # CYRILLIC SMALL LETTER OMEGA
0462        ; DISALLOWED  # CYRILLIC CAPITAL LETTER YAT
0463        ; PVALID  # CYRILLIC SMALL LETTER YAT
0464        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED E
0465        ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED E
0466        ; DISALLOWED  # CYRILLIC CAPITAL LETTER LITTLE YUS
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
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049A        ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH DESCENDER
049B        ; PVALID      # CYRILLIC SMALL LETTER KA WITH DESCENDER
049C        ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH VERTICAL 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 BREVE
04C3 ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4 ; PVALID # CYRILLIC SMALL LETTER KA WITH HOOK
04C5 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6 ; PVALID # CYRILLIC SMALL LETTER EL WITH TAIL
04C7 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH TAIL
04C8 ; PVALID # CYRILLIC SMALL LETTER EN WITH TAIL
04C9 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH TAIL
04CA ; PVALID # CYRILLIC SMALL LETTER EN WITH TAIL
04CB ; DISALLOWED # CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC ; PVALID # CYRILLIC SMALL LETTER KHAKASSIAN CHE
04CD ; DISALLOWED # CYRILLIC CAPITAL LETTER EM WITH TAIL
04CE..04CF ; PVALID # CYRILLIC SMALL LETTER EM WITH TAIL..CYRILLIC
04D0 ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH BREVE
04D1 ; PVALID # CYRILLIC SMALL LETTER A WITH BREVE
04D2 ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH DIAERESIS
04D3 ; PVALID # CYRILLIC SMALL LETTER A WITH DIAERESIS
04D4 ; DISALLOWED # CYRILLIC CAPITAL LIGATURE A IE
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0529  ; PVALID       # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
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055A..055F  ; DISALLOWED  # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION M
0560..0586 ; PVALID # ARMENIAN SMALL LETTER TURNED AYB..ARMENIAN S
0587 ; DISALLOWED # ARMENIAN SMALL LIGATURE ECH YIWN
0588 ; PVALID # ARMENIAN SMALL LETTER YI WITH STROKE
0589..058A ; DISALLOWED # ARMENIAN FULL STOP..ARMENIAN HYPHEN
058B..058C ; UNASSIGNED # <reserved>..<reserved>
058D..058F ; DISALLOWED # RIGHT-FACING ARMENIAN ETERNITY SIGN..ARMENIA
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05BE ; DISALLOWED # HEBREW PUNCTUATION MAQAF
05BF ; PVALID # HEBREW POINT RAFE
05C0 ; DISALLOWED # HEBREW PUNCTUATION PASEQ
05C1..05C2 ; PVALID # HEBREW POINT SHIN DOT..HEBREW POINT SIN DOT
05C3 ; DISALLOWED # HEBREW PUNCTUATION SOF PASUQ
05C4..05C5 ; PVALID # HEBREW MARK UPPER DOT..HEBREW MARK LOWER DOT
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061B..061C ; DISALLOWED # ARABIC SEMICOLON..ARABIC LETTER MARK
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0640 ; DISALLOWED # ARABIC TATWEEL
0641..065F ; PVALID # ARABIC LETTER FEH..ARABIC WAVY HAMZA BELOW
0660..0669 ; CONTEXTO # ARABIC-INDIC DIGIT ZERO..ARABIC-INDIC DIGIT
066A..066D ; DISALLOWED # ARABIC PERCENT SIGN..ARABIC FIVE POINTED STA
066E..0674 ; PVALID # ARABIC LETTER DOTLESS BEH..ARABIC LETTER HIG
0675..0678 ; DISALLOWED # ARABIC LETTER HIGH HAMZA ALEF..ARABIC LETTER
0679..06D3 ; PVALID # ARABIC LETTER TTEH..ARABIC LETTER YEH BARREE
06D4 ; DISALLOWED # ARABIC FULL STOP
06D5..06DC ; PVALID # ARABIC LETTER AE..ARABIC SMALL HIGH SEEN
06DD..06DE ; DISALLOWED # ARABIC END OF AYAH..ARABIC START OF RUB EL H
06DF..06E8 ; DISALLOWED # ARABIC SMALL HIGH ROUNDED ZERO..ARABIC SMALL
06E9 ; DISALLOWED # ARABIC PLACE OF SAJDAH
06EA..06EF ; PVALID # ARABIC EMPTY CENTRE LOW STOP..ARABIC LETTER
06F0..06F9 ; CONTEXTO # EXTENDED ARABIC-INDIC DIGIT ZERO..EXTENDED A
06FA..06FF ; PVALID # ARABIC LETTER SHEEN WITH DOT BELOW..ARABIC L
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07F6..07FA ; DISALLOWED # NKO SYMBOL OO DENNEN..NKO LAJANYALAN
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07FE..07FF ; DISALLOWED # NKO DOROME SIGN..NKO TAMAN SIGN
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08C0..08C9 ; UNASSIGNED # <reserved>..<reserved>
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08E3..08EF ; PVALID # ARABIC TURNED DAMMA BELOW..DEVANAGARI VOWEL
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0A8F..0A91  ; PVALID  # GUJARATI LETTER E..GUJARATI VOWEL CANDRA O
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0AE6..0AEF  ; PVALID  # GUJARATI DIGIT ZERO..GUJARATI DIGIT NINE
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0B11..0B12  ; UNASSIGNED  # <reserved>..<reserved>
0B13..0B28  ; PVALID  # ORIYA LETTER O..ORIYA LETTER NA
0B29   ; UNASSIGNED  # <reserved>
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0B31   ; UNASSIGNED  # <reserved>
0B32..0B33  ; PVALID  # ORIYA LETTER LA..ORIYA LETTER LLA
0B34   ; UNASSIGNED  # <reserved>
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0B3A..0B3B  ; UNASSIGNED  # <reserved>..<reserved>
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0B45..0B46  ; UNASSIGNED  # <reserved>..<reserved>
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0B49..0B4A  ; UNASSIGNED # <reserved>..<reserved>
0B4B..0B4D  ; PVALID  # ORIYA VOWEL SIGN O..ORIYA SIGN VIRAMA
0B4E..0B55  ; UNASSIGNED # <reserved>..<reserved>
0B56..0B57  ; PVALID  # ORIYA AI LENGTH MARK..ORIYA AU LENGTH MARK
0B58..0B5B  ; UNASSIGNED # <reserved>..<reserved>
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0B5E       ; UNASSIGNED # <reserved>
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0B66..0B6F  ; PVALID  # ORIYA DIGIT ZERO..ORIYA DIGIT NINE
0B70       ; DISALLOWED # ORIYA ISSHAR
0B71       ; PVALID  # ORIYA LETTER WA
0B72..0B77  ; DISALLOWED # ORIYA FRACTION ONE QUARTER..ORIYA FRACTION T
0B78..0B81  ; UNASSIGNED # <reserved>..<reserved>
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0B8B..0B8D  ; UNASSIGNED # <reserved>..<reserved>
0B8E..0B90  ; PVALID  # TAMIL LETTER E..TAMIL LETTER AI
0B91       ; UNASSIGNED # <reserved>
0B92..0B95  ; PVALID  # TAMIL LETTER O..TAMIL LETTER KA
0B96..0B98  ; UNASSIGNED # <reserved>..<reserved>
0B99..0B9A  ; PVALID  # TAMIL LETTER NGA..TAMIL LETTER CA
0B9B       ; UNASSIGNED # <reserved>
0B9C       ; PVALID  # TAMIL LETTER JA
0B9D       ; PVALID  # <reserved>
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0BA0..0BA2  ; UNASSIGNED # <reserved>..<reserved>
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0BA8..0BAA  ; PVALID  # TAMIL LETTER NA..TAMIL LETTER PA
0BAA..0BAD  ; UNASSIGNED # <reserved>..<reserved>
0BAE..0BB9  ; PVALID  # TAMIL LETTER MA..TAMIL LETTER HA
0BBA..0BBD  ; UNASSIGNED # <reserved>..<reserved>
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0BC9       ; UNASSIGNED # <reserved>
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0BCE..0BCF  ; UNASSIGNED # <reserved>..<reserved>
0BD0       ; PVALID  # TAMIL OM
0BD1..0BD6  ; UNASSIGNED # <reserved>..<reserved>
0BD7       ; PVALID  # TAMIL AU LENGTH MARK
0BD8..0BE5  ; UNASSIGNED # <reserved>..<reserved>
0BE6..0BEF  ; PVALID  # TAMIL DIGIT ZERO..TAMIL DIGIT NINE
0BF0..0BFA  ; DISALLOWED # TAMIL NUMBER TEN..TAMIL NUMBER SIGN
0BF8..0BFF  ; UNASSIGNED # <reserved>..<reserved>
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0D46..0D48  ; PVALID  # MALAYALAM VOWEL SIGN O..MALAYALAM VOWEL SIGN
0D49  ; UNASSIGNED # <reserved>
0D4A..0D4E  ; PVALID  # MALAYALAM VOWEL SIGN O..MALAYALAM LETTER DOT
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0D58..0D5E  ; DISALLOWED # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D5F..0D63  ; PVALID  # MALAYALAM LETTER ARCHAIIC II..MALAYALAM VOWEL
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0D7A..0D7F  ; PVALID  # MALAYALAM LETTER CHILLU NN..MALAYALAM LETTER
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0DB2  ; UNASSIGNED # <reserved>
0DB3..0DBB  ; PVALID  # SINHALA LETTER SANYAKA DAYANNA..SINHALA LETT
0DBC  ; UNASSIGNED # <reserved>
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0DF4  ; DISALLOWED # SINHALA PUNCTUATION KUNDDALIYA
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0E33 ; DISALLOWED # THAI CHARACTER SARA AM
0E34..0E3A ; PVALID # THAI CHARACTER SARA I..THAI CHARACTER PHINTH
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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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0ECE..0ECF ; UNASSIGNED # <reserved>..<reserved>
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0EDE..0EED ; PVALID # LAO LETTER KHMU GO..LAO LETTER KHMU NYO
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0F01..0F0A  ; DISALLOWED # TIBETAN MARK GTER YIG MGO TRUNCATED A..TIBET
0F0B  ; PVALID # TIBETAN MARK INTERSYLLABIC TSHEG
0F0C..0F17  ; DISALLOWED # TIBETAN MARK DELIMITER TSHEG BSTAR..TIBETAN
0F18..0F19  ; PVALID # TIBETAN ASTROLOGICAL SIGN -KHYUD PA..TIBETAN
0F1A..0F1F  ; DISALLOWED # TIBETAN SIGN RDEL DKAR GCIG..TIBETAN SIGN RD
0F20..0F29  ; PVALID # TIBETAN DIGIT ZERO..TIBETAN DIGIT NINE
0F2A..0F34  ; DISALLOWED # TIBETAN DIGIT HALF ONE..TIBETAN MARK BSDUS R
0F35  ; PVALID # TIBETAN MARK NGAS BZUNG NYI ZLA
0F36  ; DISALLOWED # TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN
0F37  ; PVALID # TIBETAN MARK NGAS BZUNG SGOR RTAGS
0F38  ; DISALLOWED # TIBETAN MARK CHE MGO
0F39  ; PVALID # TIBETAN MARK TSA -PHRU
0F3A..0F3D  ; DISALLOWED # TIBETAN MARK GUG RTAGS GYON..TIBETAN MARK AN
0F3E..0F42  ; PVALID # TIBETAN SIGN YAR TSHES..TIBETAN LETTER GA
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0F5C  ; DISALLOWED # TIBETAN LETTER DZH
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0F69  ; DISALLOWED # TIBETAN LETTER KSSA
0F6A..0F6C  ; PVALID # TIBETAN LETTER FIXED-FORM RA..TIBETAN LETTER
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0F74  ; PVALID # TIBETAN VOWEL SIGN U
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0F81  ; DISALLOWED # TIBETAN VOWEL SIGN REVERSED II
0F82..0F84  ; PVALID # TIBETAN SIGN NYI ZLA NAA DA..TIBETAN MARK HA
0F85  ; DISALLOWED # TIBETAN MARK PALUTA
0F86..0F92  ; PVALID # TIBETAN SIGN LCI RTAGS..TIBETAN SUBJOINED LE
0F93  ; DISALLOWED # TIBETAN SUBJOINED LETTER GHA
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0FA3..0FA6  ; PVALID # TIBETAN SUBJOINED LETTER NA..TIBETAN SUBJOIN
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0FA8..0FAB  ; PVALID   # TIBETAN SUBJOINED LETTER MA..TIBETAN SUBJOIN
0FAC        ; DISALLOWED  # TIBETAN SUBJOINED LETTER DZHA
0FAD..0FB8  ; PVALID   # TIBETAN SUBJOINED LETTER WA..TIBETAN SUBJOIN
0FB9        ; DISALLOWED  # TIBETAN SUBJOINED LETTER KSSA
0FBA..0FBC  ; PVALID   # TIBETAN SUBJOINED LETTER FIXED-FORM WA..TIBETAN SUBJOIN
0FBD        ; UNASSIGNED  # <reserved>
0FBE..0FC5  ; DISALLOWED  # TIBETAN KU RU KHA..TIBETAN SYMBOL RDO RJE
0FC6        ; PVALID   # TIBETAN SYMBOL PADMA GDAN
0FC7..0FCC  ; DISALLOWED  # TIBETAN SYMBOL RDO RJE RGYA GRAM..TIBETAN SY
0FCD        ; UNASSIGNED  # <reserved>
0FCE..0FDA  ; DISALLOWED  # TIBETAN SIGN RDEL NAG RDEL DKAR..TIBETAN MAR
0FDB..0FFF  ; UNASSIGNED  # <reserved>..<reserved>
1000..1049  ; PVALID   # MYANMAR LETTER KA..MYANMAR DIGIT NINE
104A..104F  ; DISALLOWED  # MYANMAR SIGN LITTLE SECTION..MYANMAR SYMBOL
1050..105D  ; PVALID   # MYANMAR LETTER SHA..MYANMAR VOWEL SIGN AITON
105E..10C5  ; DISALLOWED  # MYANMAR SYMBOL SHAN ONE..GEORGIAN CAPITAL LE
106C        ; UNASSIGNED  # <reserved>
1067        ; DISALLOWED  # GEORGIAN CAPITAL LETTER YN
1068..10CC  ; UNASSIGNED  # <reserved>..<reserved>
10CD        ; DISALLOWED  # GEORGIAN CAPITAL LETTER AEN
10CE..10CF  ; UNASSIGNED  # <reserved>..<reserved>
10D0..10FA  ; PVALID   # GEORGIAN LETTER AN..GEORGIAN LETTER AIN
10FB..10FC  ; DISALLOWED  # HANGUL CHOSEONG KIYEOK..HANGUL JONGSEONG SSA
1200..1248  ; PVALID   # ETHIOPIAN SYLLABLE BA..ETHIOPIAN SYLLABLE QWA
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124A..124D  ; PVALID   # ETHIOPIAN SYLLABLE QWI..ETHIOPIAN SYLLABLE QWE
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12BB..12BE  ; PVALID   # ETHIOPIAN SYLLABLE KXA..ETHIOPIAN SYLLABLE KXO
12BF        ; UNASSIGNED  # <reserved>
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1D2F  ; PVALID # MODIFIER LETTER CAPITAL BARRED B
1D30..1D3A  ; DISALLOWED # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B  ; PVALID # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D  ; DISALLOWED # MODIFIER LETTER CAPITAL O..MODIFIER LETTER S
1D4E  ; PVALID # MODIFIER LETTER SMALL TURNED I
1D4F..1D6A  ; DISALLOWED # MODIFIER LETTER SMALL K..GREEK SUBSCRIPT SMA
1D6B..1D77  ; PVALID # LATIN SMALL LETTER UE..LATIN SMALL LETTER TU
1D78  ; DISALLOWED # MODIFIER LETTER CYRILLIC EN
1D79..1D9A  ; PVALID  # LATIN SMALL LETTER INSULAR G..LATIN SMALL LE
1D9B..1DBF ; DISALLOWED # MODIFIER LETTER SMALL TURNED ALPHA..MODIFIER
1DC0..1DF9 ; PVALID  # COMBINING DOTTED GRAVE ACCENT..COMBINING WID
1DFA        ; UNASSIGNED # <reserved>
1DFB..1DFF  ; PVALID  # COMBINING DELETION MARK..COMBINING RIGHT ARR
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1E01        ; PVALID  # LATIN SMALL LETTER A WITH RING BELOW
1E02        ; DISALLOWED # LATIN CAPITAL LETTER B WITH DOT ABOVE
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1E07        ; PVALID  # LATIN SMALL LETTER B WITH LINE BELOW
1E08        ; DISALLOWED # LATIN CAPITAL LETTER C WITH CEDILLA AND ACUT
1E09        ; PVALID  # LATIN SMALL LETTER C WITH CEDILLA AND ACUTE
1E0A        ; DISALLOWED # LATIN CAPITAL LETTER D WITH DOT ABOVE
1E0B        ; PVALID  # LATIN SMALL LETTER D WITH DOT ABOVE
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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
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1E1B        ; PVALID  # LATIN SMALL LETTER E WITH TILDE BELOW
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1E9C..1E9D ; PVALID # LATIN SMALL LETTER LONG S WITH DIAGONAL STRO
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<td>PVALID</td>
<td>GREEK SMALL LETTER IOTA WITH PERISPOMENI..GR</td>
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<td>DISALLOWED</td>
<td>GREEK CAPITAL LETTER IOTA WITH VRACHY..GREEK</td>
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<td>DISALLOWED</td>
<td>GREEK DASIA AND VARIA..GREEK DASIA AND PERIS</td>
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<td>PVALID</td>
<td>GREEK SMALL LETTER UPSILON WITH VRACHY..GREE</td>
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<td>1FE3</td>
<td>DISALLOWED</td>
<td>GREEK SMALL LETTER UPSILON WITH DIALYTIKA AN</td>
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<td>1FE4..1FE7</td>
<td>PVALID</td>
<td>GREEK SMALL LETTER RHO WITH PSILI..GREEK SMA</td>
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<td>GREEK CAPITAL LETTER UPSILON WITH VRACHY..GR</td>
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<td>GREEK SMALL LETTER OMECROT WITH VARIA AND YPOG</td>
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<td>PVALID</td>
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<td>GREEK SMALL LETTER OMECROT WITH PERISPOMENI AN</td>
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<td>2000..200B</td>
<td>DISALLOWED</td>
<td>EN QUAD..ZERO WIDTH SPACE</td>
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<td>200C..200D</td>
<td>CONTEXTJ</td>
<td>ZERO WIDTH NON-JOINER..ZERO WIDTH JOINER</td>
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<td>200E..2064</td>
<td>DISALLOWED</td>
<td>LEFT-TO-RIGHT MARK..INVISIBLE PLUS</td>
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<td>LEFT-TO-RIGHT ISOLATE..SUPERSCRIPT LATIN SMA</td>
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<td>2074..208E</td>
<td>DISALLOWED</td>
<td>SUPERSCRIPT FOUR..SUBSCRIPT RIGHT PARENTHESI</td>
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<td>20A0..20BF</td>
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<td>EURO-CURRENCY SIGN..BITCOIN SIGN</td>
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<td>20D0..20F0</td>
<td>DISALLOWED</td>
<td>COMBINING LEFT HARPOON ABOVE..COMBINING ASTE</td>
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<td>20F1..20FF</td>
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<td>&lt;reserved&gt;..&lt;reserved&gt;</td>
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<td>2100..214D</td>
<td>DISALLOWED</td>
<td>ACCOUNT OF..AKTIESLSKAB</td>
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<td>214E</td>
<td>PVALID</td>
<td>TURNED SMALL F</td>
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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..2194  ; DISALLOWED  # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
2197..219F  ; UNASSIGNED  # <reserved>..<reserved>
21A0..21A7  ; DISALLOWED  # OCR HOOK..OCR DOUBLE BACKSLASH
21A8..21A9  ; UNASSIGNED  # <reserved>..<reserved>
21B0..21B7  ; DISALLOWED  # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
21B8..21B9  ; UNASSIGNED  # <reserved>..<reserved>
21C0..21C5  ; DISALLOWED  # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
21C6..21C7  ; UNASSIGNED  # <reserved>..<reserved>
21C8..21D0  ; DISALLOWED  # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
21D1..21D7  ; UNASSIGNED  # <reserved>..<reserved>
21D8..21DB  ; DISALLOWED  # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
21DC..21DF  ; UNASSIGNED  # <reserved>..<reserved>
2200..220E  ; DISALLOWED  # GLAGOLITIC CAPITAL LETTER AZU..GLAGOLITIC CA
220F..2210  ; UNASSIGNED  # <reserved>..<reserved>
2211..221C  ; DISALLOWED  # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMAL
221D..221E  ; PVALID  # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMAL
221F..2220  ; UNASSIGNED  # <reserved>..<reserved>
2221..2225  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOUBLE BAR
2226..2228  ; PVALID  # LATIN SMALL LETTER L WITH DOUBLE BAR
2229..222D  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LA
222E..2232  ; PVALID  # LATIN SMALL LETTER A WITH STROKE..LATIN SMAL
2233..2237  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DESCENDER
2238..223C  ; PVALID  # LATIN SMALL LETTER H WITH DESCENDER
223D..223F  ; DISALLOWED  # LATIN CAPITAL LETTER K WITH DESCENDER
2240..2244  ; PVALID  # LATIN SMALL LETTER K WITH DESCENDER
2245..2247  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DESCENDER
2248..224A  ; PVALID  # LATIN SMALL LETTER Z WITH DESCENDER
224B..224E  ; DISALLOWED  # LATIN CAPITAL LETTER ALPHA..LATIN CAPITAL LE
224F..2251  ; PVALID  # LATIN SMALL LETTER V WITH RIGHT HOOK
2252..2254  ; DISALLOWED  # LATIN CAPITAL LETTER W WITH HOOK
2255..2256  ; PVALID  # LATIN SMALL LETTER W WITH HOOK..LATIN SMALL
2257..2258  ; DISALLOWED  # LATIN CAPITAL LETTER HALF H
2259..225A  ; PVALID  # LATIN SMALL LETTER HALF H..LATIN LETTER SMAL
225B..225C  ; DISALLOWED  # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPIT
225D..225F  ; PVALID  # COPTIC SMALL LETTER ALFA
2260..2262  ; DISALLOWED  # COPTIC CAPITAL LETTER VIDA
2263..2265  ; PVALID  # COPTIC SMALL LETTER VIDA
2266..2268  ; DISALLOWED  # COPTIC CAPITAL LETTER GAMMA
2269..226B  ; PVALID  # COPTIC SMALL LETTER GAMMA
226C..226E  ; DISALLOWED  # COPTIC CAPITAL LETTER DALDA
226F..2271  ; PVALID  # COPTIC SMALL LETTER DALDA
2272..2273  ; DISALLOWED  # COPTIC CAPITAL LETTER EIE
2274..2276  ; PVALID  # COPTIC SMALL LETTER EIE
2277..2279  ; DISALLOWED  # COPTIC CAPITAL LETTER SOU
227A..227C  ; PVALID  # COPTIC SMALL LETTER SOU
2C8C ; DISALLOWED # COPTIC CAPITAL LETTER ZATA
2C8D ; PVALID # COPTIC SMALL LETTER ZATA
2C8E ; DISALLOWED # COPTIC CAPITAL LETTER HATE
2C8F ; PVALID # COPTIC SMALL LETTER HATE
2C90 ; DISALLOWED # COPTIC CAPITAL LETTER THETHE
2C91 ; PVALID # COPTIC SMALL LETTER THETHE
2C92 ; DISALLOWED # COPTIC CAPITAL LETTER IAUDA
2C93 ; PVALID # COPTIC SMALL LETTER IAUDA
2C94 ; DISALLOWED # COPTIC CAPITAL LETTER KAPA
2C95 ; PVALID # COPTIC SMALL LETTER KAPA
2C96 ; DISALLOWED # COPTIC CAPITAL LETTER LAULA
2C97 ; PVALID # COPTIC SMALL LETTER LAULA
2C98 ; DISALLOWED # COPTIC CAPITAL LETTER MI
2C99 ; PVALID # COPTIC SMALL LETTER MI
2C9A ; DISALLOWED # COPTIC CAPITAL LETTER NI
2C9B ; PVALID # COPTIC SMALL LETTER NI
2C9C ; DISALLOWED # COPTIC CAPITAL LETTER KSI
2C9D ; PVALID # COPTIC SMALL LETTER KSI
2C9E ; DISALLOWED # COPTIC CAPITAL LETTER O
2C9F ; PVALID # COPTIC SMALL LETTER O
2CA0 ; DISALLOWED # COPTIC CAPITAL LETTER PI
2CA1 ; PVALID # COPTIC SMALL LETTER PI
2CA2 ; DISALLOWED # COPTIC CAPITAL LETTER RO
2CA3 ; PVALID # COPTIC SMALL LETTER RO
2CA4 ; DISALLOWED # COPTIC CAPITAL LETTER SIMA
2CA5 ; PVALID # COPTIC SMALL LETTER SIMA
2CA6 ; DISALLOWED # COPTIC CAPITAL LETTER TAU
2CA7 ; PVALID # COPTIC SMALL LETTER TAU
2CA8 ; DISALLOWED # COPTIC CAPITAL LETTER UA
2CA9 ; PVALID # COPTIC SMALL LETTER UA
2CAA ; DISALLOWED # COPTIC CAPITAL LETTER FI
2CAB ; PVALID # COPTIC SMALL LETTER FI
2CAC ; DISALLOWED # COPTIC CAPITAL LETTER KHI
2CAD ; PVALID # COPTIC SMALL LETTER KHI
2CAE ; DISALLOWED # COPTIC CAPITAL LETTER PSI
2CAF ; PVALID # COPTIC SMALL LETTER PSI
2CB0 ; DISALLOWED # COPTIC CAPITAL LETTER OOU
2CB1 ; PVALID # COPTIC SMALL LETTER OOU
2CB2 ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P ALEF
2CB3 ; PVALID # COPTIC SMALL LETTER DIALECT-P ALEF
2CB4 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC AIN
2CB5 ; PVALID # COPTIC SMALL LETTER OLD COPTIC AIN
2CB6 ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC EIE
2CB7 ; PVALID # COPTIC SMALL LETTER CRYPTOGRAMMIC EIE
2CB8 ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P KAPA
2CB9 ; PVALID # COPTIC SMALL LETTER DIALECT-P KAPA
2CBA ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P NI
2CBB ; PVALID # COPTIC SMALL LETTER DIALECT-P NI
2CBC  ; DISALLOWED  # COPTIC CAPITAL LETTER CRYPTOGRAMMIC NI
2CBD  ; PVALID    # COPTIC SMALL LETTER CRYPTOGRAMMIC NI
2CBE  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC OOU
2CBF  ; PVALID    # COPTIC SMALL LETTER OLD COPTIC OOU
2CC0  ; DISALLOWED  # COPTIC CAPITAL LETTER SAMPI
2CC1  ; PVALID    # COPTIC SMALL LETTER SAMPI
2CC2  ; DISALLOWED  # COPTIC CAPITAL LETTER CROSSED SHEI
2CC3  ; PVALID    # COPTIC SMALL LETTER CROSSED SHEI
2CC4  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC SHEI
2CC5  ; PVALID    # COPTIC SMALL LETTER OLD COPTIC SHEI
2CC6  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC ESH
2CC7  ; PVALID    # COPTIC SMALL LETTER OLD COPTIC ESH
2CC8  ; DISALLOWED  # COPTIC CAPITAL LETTER AKHMIMIC KHEI
2CC9  ; PVALID    # COPTIC SMALL LETTER AKHMIMIC KHEI
2CA   ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P HORI
2CB   ; PVALID    # COPTIC SMALL LETTER DIALECT-P HORI
2CC   ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HORI
2CD   ; PVALID    # COPTIC SMALL LETTER OLD COPTIC HORI
2CE   ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HA
2CF   ; PVALID    # COPTIC SMALL LETTER OLD COPTIC HA
2CD   ; DISALLOWED  # COPTIC CAPITAL LETTER L-SHAPED HA
2CD   ; PVALID    # COPTIC SMALL LETTER L-SHAPED HA
2CD   ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HEI
2CD   ; PVALID    # COPTIC SMALL LETTER OLD COPTIC HEI
2CD   ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC HAT
2CD   ; PVALID    # COPTIC SMALL LETTER OLD COPTIC HAT
2CD   ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC GANGIA
2CD   ; PVALID    # COPTIC SMALL LETTER OLD COPTIC GANGIA
2CD   ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC DJA
2CD   ; PVALID    # COPTIC SMALL LETTER OLD COPTIC DJA
2CDA  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC SHIMA
2CDB  ; PVALID    # COPTIC SMALL LETTER OLD COPTIC SHIMA
2CDC  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD NUBIAN SHIMA
2CDD  ; PVALID    # COPTIC SMALL LETTER OLD NUBIAN SHIMA
2CDE  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD NUBIAN NGI
2CDF  ; PVALID    # COPTIC SMALL LETTER OLD NUBIAN NGI
2CE0  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD NUBIAN NYI
2CE1  ; PVALID    # COPTIC SMALL LETTER OLD NUBIAN NYI
2CE2  ; DISALLOWED  # COPTIC CAPITAL LETTER OLD NUBIAN WAU
2CE3..2CE4  ; PVALID  # COPTIC SMALL LETTER OLD NUBIAN WAU..COPTIC S
2CE5..2CEB  ; DISALLOWED  # COPTIC SYMBOL MI RO..COPTIC CAPITAL LETTER C
2CEC  ; PVALID    # COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CED  ; DISALLOWED  # COPTIC CAPITAL LETTER CRYPTOGRAMMIC GANGIA
2CEE..2CF1  ; PVALID  # COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA..CO
2CF2  ; DISALLOWED  # COPTIC CAPITAL LETTER BOHAIRIC KHEI
2CF3  ; PVALID    # COPTIC SMALL LETTER BOHAIRIC KHEI
2CF4..2CF8  ; UNASSIGNED  # <reserved>..<reserved>
2CF9..2CFF  ; DISALLOWED  # COPTIC OLD NUBIAN FULL STOP..COPTIC MORPHOLO
3040 ; UNASSIGNED # <reserved>
3041..3096 ; PVALID # HIRAGANA LETTER SMALL A..HIRAGANA LETTER SMA
3097..3098 ; UNASSIGNED # <reserved>..<reserved>
3099..309A ; PVALID # COMBINING KATAKANA–HIRAGANA VOICED SOUND MAR
309B..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
3100..3104 ; UNASSIGNED # <reserved>..<reserved>
3105..312F ; PVALID # BOPOMOFO LETTER B..BOPOMOFO LETTER NN
3130 ; UNASSIGNED # <reserved>
3131..318E ; DISALLOWED # HANGUL LETTER KIYEOK..HANGUL LETTER ARAEAE
318F ; UNASSIGNED # <reserved>
3190..319F ; DISALLOWED # IDEOGRAPHIC ANNOTATION LINKING MARK..IDEOGRA
31A0..31BA ; PVALID # BOPOMOFO LETTER BU..BOPOMOFO LETTER ZY
31BB..31BF ; UNASSIGNED # <reserved>..<reserved>
31C0..31E3 ; DISALLOWED # CJK STROKE T..CJK STROKE Q
31F0..31FF ; UNASSIGNED # <reserved>..<reserved>
3200..321E ; DISALLOWED # PARENTHESESIZED HANGUL KIYEOK..PARENTHESESIZED K
321F ; UNASSIGNED # <reserved>
3220..32FE ; DISALLOWED # PARENTHESESIZED IDEOGRAPH ONE..CIRCLED KATAKAN
3300..33FF ; DISALLOWED # SQUARE APAATO..SQUARE GAL
3400..4DB5 ; PVALID # <CJK Ideograph Extension A>..<CJK Ideograph
4DB6..4DBF ; UNASSIGNED # <reserved>..<reserved>
4DC0..4DFF ; DISALLOWED # HEXAGRAM FOR THE CREATIVE HEAVEN..HEXAGRAM F
4E00..9FFF ; PVALID # <CJK Ideograph>..<CJK Ideograph>
A000..A48C ; PVALID # YI SYLLABLE IT..YI SYLLABLE YR
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
A684        ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZHWE
A685        ; PVALID   # CYRILLIC SMALL LETTER ZHWE
A686        ; DISALLOWED # CYRILLIC CAPITAL LETTER CCHE
A687        ; PVALID   # CYRILLIC SMALL LETTER CCHE
A688        ; DISALLOWED # CYRILLIC CAPITAL LETTER DZZE
A689        ; PVALID   # CYRILLIC SMALL LETTER DZZE
A68A        ; DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH MIDDLE HOOK
A68B        ; PVALID   # CYRILLIC SMALL LETTER TE WITH MIDDLE HOOK
A68C        ; DISALLOWED # CYRILLIC CAPITAL LETTER TWE
A68D        ; PVALID   # CYRILLIC SMALL LETTER TWE
A68E        ; DISALLOWED # CYRILLIC CAPITAL LETTER TSWE
A68F        ; PVALID   # CYRILLIC SMALL LETTER TSWE
A690        ; DISALLOWED # CYRILLIC CAPITAL LETTER TSSE
A691        ; PVALID   # CYRILLIC SMALL LETTER TSSE
A692        ; DISALLOWED # CYRILLIC CAPITAL LETTER TCHE
A693        ; PVALID   # CYRILLIC SMALL LETTER TCHE
A694        ; DISALLOWED # CYRILLIC CAPITAL LETTER HWE
A695        ; PVALID   # CYRILLIC SMALL LETTER HWE
A696        ; DISALLOWED # CYRILLIC CAPITAL LETTER SHWE
A697        ; PVALID   # CYRILLIC SMALL LETTER SHWE
A698        ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE O
A699        ; PVALID   # CYRILLIC SMALL LETTER DOUBLE O
A69A        ; DISALLOWED # CYRILLIC CAPITAL LETTER CROSSED O
A69B        ; PVALID   # CYRILLIC SMALL LETTER CROSSED O
A69C..A69D  ; DISALLOWED # MODIFIER LETTER CYRILLIC HARD SIGN..MODIFIER
A69E..A6E5  ; PVALID   # COMBINING CYRILLIC LETTER EF..BAMUM LETTER K
A6E6..A6EF  ; DISALLOWED # BAMUM LETTER MO..BAMUM LETTER KOGHOM
A6F0..A6F1  ; PVALID   # BAMUM COMBINING MARK KOQNDON..BAMUM COMBININ
A6F2..A6F7  ; DISALLOWED # BAMUM NJAEMLI..BAMUM QUESTION MARK
A6F8..A6FF  ; UNASSIGNED # <reserved>..<reserved>
A700..A71F  ; DISALLOWED # MODIFIER LETTER CHINESE TONE YIN PING..MODIFIER
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 DIAGONAL STROKE
A745 ; PVALID # LATIN SMALL LETTER K WITH STROKE AND DIAGONAL STROKE
A746 ; DISALLOWED # LATIN CAPITAL LETTER BROKEN L
A747 ; PVALID # LATIN SMALL LETTER BROKEN L
A748 ; DISALLOWED # LATIN CAPITAL LETTER L WITH HIGH STROKE
A749 ; PVALID # LATIN SMALL LETTER L WITH HIGH STROKE
A74A ; DISALLOWED # LATIN CAPITAL LETTER O WITH LONG STROKE OVER
A74B ; PVALID # LATIN SMALL LETTER O WITH LONG STROKE OVER
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
A77F  ; PVALID   # LATIN SMALL LETTER TURNED INSULAR G
A780  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED L
A781  ; PVALID   # LATIN SMALL LETTER TURNED L
A782  ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR R
A783  ; PVALID   # LATIN SMALL LETTER INSULAR R
A784  ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR S
A785  ; PVALID   # LATIN SMALL LETTER INSULAR S
A786  ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR T
A787..A788 ; PVALID   # LATIN SMALL LETTER INSULAR T..MODIFIER LETTER
A789..A78B ; DISALLOWED  # MODIFIER LETTER COLON..LATIN CAPITAL LETTER
A78C  ; PVALID   # LATIN SMALL LETTER SALTILLO
A78D  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED H
A78E..A78F ; PVALID   # LATIN SMALL LETTER L WITH RETROFLEX HOOK AND
A790  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH DESCENDER
A791  ; PVALID   # LATIN SMALL LETTER N WITH DESCENDER
A792  ; DISALLOWED  # LATIN CAPITAL LETTER C WITH BAR
A793..A795 ; PVALID   # LATIN SMALL LETTER C WITH BAR..LATIN SMALL L
A796  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH FLORISH
A797  ; PVALID   # LATIN SMALL LETTER B WITH FLORISH
A798  ; DISALLOWED  # LATIN CAPITAL LETTER F WITH STROKE
A799  ; PVALID   # LATIN SMALL LETTER F WITH STROKE
A79A  ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK AE
A79B  ; PVALID   # LATIN SMALL LETTER VOLAPUK AE
A79C  ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK OE
A79D  ; PVALID   # LATIN SMALL LETTER VOLAPUK OE
A79E  ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK UE
A79F  ; PVALID   # LATIN SMALL LETTER VOLAPUK UE
A7A0  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH OBLIQUE STROKE
A7A1  ; PVALID   # LATIN SMALL LETTER G WITH OBLIQUE STROKE
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A7A2        ; DISALLOWED  # LATIN CAPITAL LETTER K WITH OBLIQUE STROKE
A7A3        ; PVALID    # LATIN SMALL LETTER K WITH OBLIQUE STROKE
A7A4        ; DISALLOWED  # LATIN CAPITAL LETTER N WITH OBLIQUE STROKE
A7A5        ; PVALID    # LATIN SMALL LETTER N WITH OBLIQUE STROKE
A7A6        ; DISALLOWED  # LATIN CAPITAL LETTER R WITH OBLIQUE STROKE
A7A7        ; PVALID    # LATIN SMALL LETTER R WITH OBLIQUE STROKE
A7A8        ; DISALLOWED  # LATIN CAPITAL LETTER S WITH OBLIQUE STROKE
A7A9        ; PVALID    # LATIN SMALL LETTER S WITH OBLIQUE STROKE
A7AA..A7AE  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH HOOK..LATIN CAPITAL
A7AF        ; PVALID    # LATIN LETTER SMALL CAPITAL Q
A7B0..A7B4  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL
A7B5        ; PVALID    # LATIN SMALL LETTER BETA
A7B6        ; DISALLOWED  # LATIN CAPITAL LETTER OMEGA
A7B7        ; PVALID    # LATIN SMALL LETTER OMEGA
A7B8        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH STROKE
A7B9        ; PVALID    # LATIN SMALL LETTER U WITH STROKE
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A7F7        ; PVALID    # LATIN EPIGRAPHIC LETTER SIDEWAYS I
A7F8..A7F9  ; DISALLOWED  # MODIFIER LETTER CAPITAL H WITH STROKE..MODIF
A7FA..A827  ; PVALID    # LATIN LETTER SMALL CAPITAL TURNED M..SYLOTI
A828..A82B  ; DISALLOWED  # SYLOTI NAGRI POETRY MARK-1..SYLOTI NAGRI POE
A82C..A82F  ; UNASSIGNED  # <reserved>..<reserved>
A830..A839  ; DISALLOWED  # NORTH INDIC FRACTION ONE QUARTER..NORTH INDI
A83A..A83F  ; UNASSIGNED  # <reserved>..<reserved>
A840..A873  ; PVALID    # PHAGS-PA LETTER KA..PHAGS-PA LETTER CANDRABI
A874..A877  ; DISALLOWED  # PHAGS-PA SINGLE HEAD MARK..PHAGS-PA MARK DOU
A878..A87F  ; UNASSIGNED  # <reserved>..<reserved>
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A8C6..A8CD  ; UNASSIGNED  # <reserved>..<reserved>
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A8F8..A8FA  ; DISALLOWED  # DEVANAGARI SIGN PUSHPIKA..DEVANAGARI CARET
A8FB        ; PVALID    # DEVANAGARI HEADSTROKE
A8FC        ; DISALLOWED  # DEVANAGARI SIGN SIDDHAM
A8FD..A92D  ; PVALID    # DEVANAGARI JAIN OM..KAYAH LI TONE CALYA PLOP
A92E..A92F  ; DISALLOWED  # KAYAH LI SIGN CWI..KAYAH LI SIGN SHYA
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A9C1..A9C9  ; DISALLOWED  # JAVANESE LEFT REERENGGA..JAVANESE TURNED PAD
A9CE        ; UNASSIGNED  # <reserved>
A9CF..A9D9  ; PVALID    # JAVANESE PANGRANGKEP..JAVANESE DIGIT NINE
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A9DE..A9DF  ; DISALLOWED  # JAVANESE PADA TIRTA TUMETES..JAVANESE PADA I
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FA13..FA14 ; PVALID   # CJK COMPATIBILITY IDEOGRAPH-FA13..CJK COMPAT
FA15..FA1E ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA15..CJK COMPAT
FA1F ; PVALID   # CJK COMPATIBILITY IDEOGRAPH-FA1F
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FA22 ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA22
FA23..FA24 ; PVALID   # CJK COMPATIBILITY IDEOGRAPH-FA23..CJK COMPAT
FA25..FA26 ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA25..CJK COMPAT
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FACC..FACD ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FACC..CJK COMPAT
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FE6C..FE6F  ; UNASSIGNED # <reserved>..<reserved>
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FE73        ; PVALID   # ARABIC TAIL FRAGMENT
FE74        ; DISALLOWED # ARABIC KASRATAN ISOLATED FORM
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10134..10136; UNASSIGNED # <reserved>..<reserved>
10137..1018E; DISALLOWED # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
1018F        ; UNASSIGNED # <reserved>
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10F1D..10F26; DISALLOWED # OLD SOGDIAN NUMBER ONE..OLD SOGDIAN FRACTION
10F27; PVALID # OLD SOGDIAN LIGATURE AYIN-DALETH
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10F40..10F49; DISALLOWED # OLD SOGDIAN LIGATURE AYIN-DALETH
10F4A..10F4F; UNASSIGNED # <reserved>..<reserved>
10F50..10F6C; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN LETTER ALEPH
10F6D..10F75; DISALLOWED # SOGDIAN NUMBER ONE..SOGDIAN PUNCTUATION HALF
10F76..10F7E; PVALID # SOGDIAN DIGIT ZERO..SOGDIAN DIGIT NINE
10F7F..10F8F; UNASSIGNED # <reserved>..<reserved>
10F90..10F9F; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN LETTER ALEPH
10FA0..10FAF; UNASSIGNED # <reserved>..<reserved>
11000..11046; PVALID # BRAHMI SIGN CANDRABINDU..BRAHMI VIRAMA
11047..1104D; DISALLOWED # BRAHMI NUMBER ONE..BRAHMI NUMBER ONE THOUSAN
11052..11065; DISALLOWED # BRAHMI NUMBER ONE..BRAHMI NUMBER ONE THOUSAN
11066..1106F; PVALID # BRAHMI DIGIT ZERO..BRAHMI DIGIT NINE
11070..1107E; UNASSIGNED # <reserved>..<reserved>
1107F..1108A; PVALID # BRAHMI NUMBER JOINER..BRAHMI NUMBER JOINER
1108B..110C1; DISALLOWED # KAITHI ABBREVIATION SIGN..KAITHI DOUBLE DAND
110C2..110CC; UNASSIGNED # <reserved>..<reserved>
110CD; DISALLOWED # KAITHI NUMBER SIGN ABOVE
110CE..110FF; UNASSIGNED # <reserved>..<reserved>
110D0..110D7; PVALID # SORA SOMPENG LETTER SAH..SORA SOMPENG LETTER
110D8..110FF; UNASSIGNED # <reserved>..<reserved>
110F0..110F9; PVALID # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT
110FA..110FF; UNASSIGNED # <reserved>..<reserved>
11100..11134; PVALID # CHAKMA SIGN CANDRABINDU..CHAKMA MAAYYAA
11135; UNASSIGNED # <reserved>
11136..1113F; PVALID # CHAKMA DIGIT ZERO..CHAKMA DIGIT NINE
11140..11143; DISALLOWED # CHAKMA SECTION MARK..CHAKMA QUESTION MARK
11144..1114F; PVALID # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
11147..1114F; UNASSIGNED # <reserved>..<reserved>
11150..11173; PVALID # MAHAJANI LETTER A..MAHAJANI SIGN NUKTA
11174..11175; DISALLOWED # MAHAJANI ABBREVIATION SIGN..MAHAJANI SECTION
11176; PVALID # MAHAJANI LIGATURE SHRI
11177..1117F; UNASSIGNED # <reserved>..<reserved>
11180..111C4; PVALID # SHARADA SIGN CANDRABINDU..SHARADA OM
111C5..111C8; DISALLOWED # SHARADA DANDA..SHARADA SEPARATOR
111C9..111CC; PVALID # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
111CD; DISALLOWED # SHARADA SUTRA MARK
111CE..111CF; UNASSIGNED # <reserved>..<reserved>
111DD..111DF; DISALLOWED # SHARADA CONTINUATION SIGN..SHARADA SECTION M
111E0; UNASSIGNED # <reserved>
111F1..111F4; DISALLOWED # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
111F5..111FF; UNASSIGNED # <reserved>..<reserved>
11200..11211; PVALID # KHOJKI LETTER A..KHOJKI LETTER JJA
11212; UNASSIGNED # <reserved>
11213..11237; PVALID  # KHOJKI LETTER NYA..KHOJKI SIGN SHADDA
11238..1123D; DISALLOWED  # KHOJKI DANDA..KHOJKI ABBREVIATION SIGN
1123E; PVALID  # KHOJKI SIGN SUKUN
1123F..1127F; UNASSIGNED  # <reserved>..<reserved>
11280..11286; PVALID  # MULTANI LETTER A..MULTANI LETTER GA
11287; UNASSIGNED  # <reserved>
11288; PVALID  # MULTANI LETTER GHA
11289; UNASSIGNED  # <reserved>
1128A..1128D; PVALID  # MULTANI LETTER CA..MULTANI LETTER JJA
1128E; UNASSIGNED  # <reserved>
1128F..1129D; PVALID  # MULTANI LETTER NYA..MULTANI LETTER BA
1129E; UNASSIGNED  # <reserved>
1129F..112A8; PVALID  # MULTANI LETTER BHA..MULTANI LETTER RHA
112A9; DISALLOWED  # MULTANI SECTION MARK
112AA..112AF; UNASSIGNED  # <reserved>..<reserved>
112B0..112EA; PVALID  # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
112EB..112EF; UNASSIGNED  # <reserved>..<reserved>
112F0..112F9; PVALID  # KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE
112FA..112FF; UNASSIGNED  # <reserved>..<reserved>
11300..11303; PVALID  # GRANTHA SIGN COMBINING ANUSVARA ABOVE..GRANT
11304; UNASSIGNED  # <reserved>
11305..1130C; PVALID  # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130D..1130E; UNASSIGNED  # <reserved>..<reserved>
1130F..11310; PVALID  # GRANTHA LETTER EE..GRANTHA LETTER AI
11311..11312; UNASSIGNED  # <reserved>..<reserved>
11313..1132B; PVALID  # GRANTHA LETTER OO..GRANTHA LETTER NA
11329; UNASSIGNED  # <reserved>
1132A..11330; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11331; UNASSIGNED  # <reserved>
11332..11333; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LLA
11334; UNASSIGNED  # <reserved>
11335..11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
1133A; UNASSIGNED  # <reserved>
1133B..11344; PVALID  # COMBINING BINDU BELOW..GRANTHA VOWEL SIGN VO
11345..11346; UNASSIGNED  # <reserved>..<reserved>
11347..1134B; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
1134C..1134D; UNASSIGNED  # <reserved>..<reserved>
1134E..1134F; UNASSIGNED  # <reserved>..<reserved>
11350; PVALID  # GRANTHA OM
11351..11356; UNASSIGNED  # <reserved>..<reserved>
11357; PVALID  # GRANTHA AU LENGTH MARK
11358..1135C; UNASSIGNED  # <reserved>..<reserved>
1135D..1135E; PVALID  # GRANTHA SIGN PLU..GRANTHA VOWEL SIGN VOCAL
11364..11365; UNASSIGNED  # <reserved>..<reserved>
11366..1136C; PVALID  # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA DIGIT ONE
1136D..1136F; UNASSIGNED  # <reserved>..<reserved>
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHA LETTER U
11375..113FF; UNASSIGNED # <reserved>..<reserved>
11400..1144A; PVALID # NEWA LETTER A..NEWA SIDDHI
1144B..1144F; DISALLOWED # NEWA DANDA..NEWA ABBREVIATION SIGN
11450..11459; PVALID # NEWA DIGIT ZERO..NEWA DIGIT NINE
1145A; UNASSIGNED # <reserved>
1145B; DISALLOWED # NEWA PLACEHOLDER MARK
1145C; UNASSIGNED # <reserved>
1145D; DISALLOWED # NEWA INSERTION SIGN
1145E; PVALID # NEWA SANDHI MARK
1145F..11477; UNASSIGNED # <reserved>..<reserved>
11480..114C5; PVALID # TIRHUTA ANJI..TIRHUTA GVANG
114C6; DISALLOWED # TIRHUTA ABBREVIATION SIGN
114C7; PVALID # TIRHUTA OM
114C8..114CF; UNASSIGNED # <reserved>..<reserved>
114D0..114D9; PVALID # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
114DA..114F7; UNASSIGNED # <reserved>..<reserved>
11580..115B5; PVALID # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B6..115B7; UNASSIGNED # <reserved>..<reserved>
115B8..115C0; PVALID # SIDDHAM VOWEL SIGN E..SIDDHAM SIGN NUKTA
115C1..115D7; DISALLOWED # SIDDHAM SIGN SIDDHAM..SIDDHAM SECTION MARK W
115D8..115D9; PVALID # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SID
115DE..115FF; UNASSIGNED # <reserved>..<reserved>
11600..11640; PVALID # MODI LETTER A..MODI SIGN ARDHACANDRA
11641..11643; DISALLOWED # MODI DANDA..MODI ABBREVIATION SIGN
11644; PVALID # MODI SIGN HUVA
11645..1164F; UNASSIGNED # <reserved>..<reserved>
11650..11659; PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
1165A..1165F; UNASSIGNED # <reserved>..<reserved>
11660..1166C; DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
1166D..1166F; UNASSIGNED # <reserved>..<reserved>
11670..1167B; PVALID # TAKRI LETTER A..TAKRI SIGN NUKTA
11680..1168F; UNASSIGNED # <reserved>..<reserved>
11690..1169F; PVALID # TAKRI DIGIT ZERO..TAKRI DIGIT NINE
116A0..116F7; UNASSIGNED # <reserved>..<reserved>
11700..1171A; PVALID # AHOM LETTER KA..AHOM LETTER ALTERNATE BA
1171B..1171C; UNASSIGNED # <reserved>..<reserved>
1171D..1172B; PVALID # AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KIL
1172C..1172F; UNASSIGNED # <reserved>..<reserved>
11730..11739; PVALID # AHOM DIGIT ZERO..AHOM DIGIT NINE
1173A..1173F; DISALLOWED # AHOM NUMBER TEN..AHOM SYMBOL VI
11740..1177F; UNASSIGNED # <reserved>..<reserved>
11800..1183A; PVALID # DOGRA LETTER A..DOGRA SIGN NUKTA
1183B; DISALLOWED # DOGRA ABBREVIATION SIGN
1183C..1183F; UNASSIGNED # <reserved>..<reserved>
11840..1186F; DISALLOWED # WARANG Citi CAPITAL LETTER NGAA..WARANG Citi
11880..11889; PVALID # WARANG Citi SMALL LETTER NGAA..WARANG Citi D
118EA..118F2; DISALLOWED # WARANG Citi NUMBER TEN..WARANG Citi NUMBER N
118F3..118F6; UNASSIGNED # <reserved>..<reserved>
118FF ; PVALID # WARANG CITI OM
11900..119FF; UNASSIGNED # <reserved>..<reserved>
11A00..11A3E; PVALID # ZANABAZAR SQUARE LETTER A..ZANABAZAR SQUARE
11A3F..11A46; DISALLOWED # ZANABAZAR SQUARE INITIAL HEAD MARK..ZANABAZA
11A47 ; PVALID # ZANABAZAR SQUARE SUBJOINER
11A48..11A4F; UNASSIGNED # <reserved>..<reserved>
11A50..11A83; PVALID # SOYOMBO LETTER A..SOYOMBO LETTER KSSA
11A84..11A85; UNASSIGNED # <reserved>..<reserved>
11A86..11A99; PVALID # SOYOMBO CLUSTER-INITIAL LETTER RA..SOYOMBO S
11A9A..11A9C; DISALLOWED # SOYOMBO MARK TSHEG..SOYOMBO MARK DOUBLE SHAD
11A9D ; PVALID # SOYOMBO MARK PLUTA
11A9E..11AA2; DISALLOWED # SOYOMBO HEAD MARK WITH MOON AND SUN AND TRIP
11AA3..11ABF; UNASSIGNED # <reserved>..<reserved>
11AC0..11AF8; PVALID # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
11AF9..11BFF; UNASSIGNED # <reserved>..<reserved>
11C00..11C08; PVALID # BHAIKSUKI LETTER A..BHAIKSUKI LETTER VOCALIC
11C09 ; UNASSIGNED # <reserved>
11C0A..11C36; PVALID # BHAIKSUKI LETTER E..BHAIKSUKI VOWEL SIGN VOC
11C37 ; UNASSIGNED # <reserved>
11C38..11C40; PVALID # BHAIKSUKI VOWEL SIGN E..BHAIKSUKI SIGN AVAGR
11C41..11C45; DISALLOWED # BHAIKSUKI DANDA..BHAIKSUKI GAP FILLER-2
11C46..11C4F; UNASSIGNED # <reserved>..<reserved>
11C50..11C59; PVALID # BHAIKSUKI DIGIT ZERO..BHAIKSUKI DIGIT NINE
11C5A..11C6C; DISALLOWED # BHAIKSUKI NUMBER ONE..BHAIKSUKI HUNDREDS UNI
11C6D..11C6F; UNASSIGNED # <reserved>..<reserved>
11C70..11C71; DISALLOWED # MARCHEN HEAD MARK..MARCHEN MARK SHAD
11C72..11C8F; PVALID # MARCHEN LETTER KA..MARCHEN LETTER A
11C90..11C91; UNASSIGNED # <reserved>..<reserved>
11C92..11CA7; PVALID # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
11CA8 ; UNASSIGNED # <reserved>
11CA9..11CB6; PVALID # MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA
11CB7..11CFF; UNASSIGNED # <reserved>..<reserved>
11D00..11D06; PVALID # MASARAM GONDI LETTER A..MASARAM GONDI LETTER
11D07 ; UNASSIGNED # <reserved>
11D08..11D09; PVALID # MASARAM GONDI LETTER AI..MASARAM GONDI LETTE
11D0A ; UNASSIGNED # <reserved>
11D0B..11D36; PVALID # MASARAM GONDI LETTER AU..MASARAM GONDI VOWEL
11D37..11D39; UNASSIGNED # <reserved>..<reserved>
11D3A ; PVALID # MASARAM GONDI VOWEL SIGN E
11D3B ; UNASSIGNED # <reserved>
11D3C..11D3D; PVALID # MASARAM GONDI VOWEL SIGN AI..MASARAM GONDI V
11D3E ; UNASSIGNED # <reserved>
11D3F..11D47; PVALID # MASARAM GONDI VOWEL SIGN AU..MASARAM GONDI R
11D48..11D4F; UNASSIGNED # <reserved>..<reserved>
11D50..11D59; PVALID # MASARAM GONDI DIGIT ZERO..MASARAM GONDI DIGI
11D5A..11D5F; UNASSIGNED # <reserved>..<reserved>
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D66 ; UNASSIGNED # <reserved>
11D67..11D68; PVALID # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
11D69; UNASSIGNED # <reserved>
11D6A..11D6E; PVALID # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D8F; UNASSIGNED # <reserved>
11D90..11D91; PVALID # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI VOWEL SIGN OO
11D92; UNASSIGNED # <reserved>
11D93..11D98; PVALID # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI DIGIT ZERO
11D99..11D9E; UNASSIGNED # <reserved>..<reserved>
11DA1..11DAE; PVALID # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGIT NINE
11DAE; UNASSIGNED # <reserved>
11D99..11DAE; UNASSIGNED # <reserved>..<reserved>
11EE0..11EF6; PVALID # MAKASAR LETTER KA..MAKASAR VOWEL SIGN O
11EF7..11EF8; DISALLOWED # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11E99..11FF; UNASSIGNED # <reserved>..<reserved>
12000..12399; PVALID # CUNEIFORM SIGN A..CUNEIFORM SIGN U U
1239A..123FF; UNASSIGNED # <reserved>..<reserved>
12400..1246E; DISALLOWED # CUNEIFORM NUMERIC SIGN TWO ASH..CUNEIFORM NUMERIC SIGN FIVE
1246F; UNASSIGNED # <reserved>
12470..12474; DISALLOWED # CUNEIFORM PUNCTUATION SIGN OLD ASSYRIAN WORD
12475..1247F; UNASSIGNED # <reserved>..<reserved>
12480..12487; DISALLOWED # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM SIGN AB TIMES NUN TUV
12488..1248F; UNASSIGNED # <reserved>..<reserved>
13000..1342E; PVALID # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYPH A02E
1342F..1343F; UNASSIGNED # <reserved>..<reserved>
14400..14646; PVALID # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGLYPH A03C
14647..1466F; UNASSIGNED # <reserved>..<reserved>
16800..16A3F; PVALID # BAMUM LETTER PHASE-A NGKUE MFON..BAMUM LETTER TEK
16A40..16A6F; 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..16A89; PVALID # BASSA VAH LETTER ENNI..BASSA VAH LETTER TEK
16A8E..16A9F; UNASSIGNED # <reserved>..<reserved>
16A90..16A9F; PVALID # BASSA VAH COMBINING HIGH TONE..BASSA VAH COMBINING HIGH TONE
16A5F; DISALLOWED # BASSA VAH FULL STOP
16AF6..16AFF; UNASSIGNED # <reserved>..<reserved>
16B00..16B3E; PVALID # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG MARK C
16B37..16B3F; DISALLOWED # PAHAWH HMONG SIGN VOS THOM..PAHAWH HMONG SIGN VOS THOM
16B40..16B43; PVALID # PAHAWH HMONG SIGN VOS SEEV..PAHAWH HMONG SIGN VOS SEEV
16B44..16B45; DISALLOWED # PAHAWH HMONG SIGN XAUS..PAHAWH HMONG SIGN XAUS
16B46..16B4F; UNASSIGNED # <reserved>..<reserved>
16B50..16B59; PVALID # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
16B5A; UNASSIGNED # <reserved>
16B5B..16B61; DISALLOWED # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBE
16B62; UNASSIGNED # <reserved>
16B63..16B77; PVALID # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN...
16B78..16B7C; UNASSIGNED # <reserved>..<reserved>
16B7D..16B8F; PVALID # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
16B90..16E3F; UNASSIGNED # <reserved>..<reserved>
16E40..16E5F; DISALLOWED # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN CA
16E60..16E77; PVALID # MEDEFAIDRIN SMALL LETTER M..MEDEFAIDRIN SMAL
16E80..16E9A; DISALLOWED # MEDEFAIDRIN DIGIT ZERO..MEDEFAIDRIN EXCLAMAT
16E9B..16EFC; UNASSIGNED # <reserved>..<reserved>
16F00..16F44; PVALID # MIAO LETTER PA..MIAO LETTER HHA
16F45..16F4F; UNASSIGNED # <reserved>..<reserved>
16F50..16F77; PVALID # MIAO LETTER NASALIZATION..MIAO VOWEL SIGN NG
16F80..16F8F; UNASSIGNED # <reserved>..<reserved>
16F90..16F9F; PVALID # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
16FA0..16FAF; UNASSIGNED # <reserved>..<reserved>
17000..17071; PVALID # TANGUT ITERATION MARK..NUSHU ITERATION MARK
17072..170FF; UNASSIGNED # <reserved>..<reserved>
18800..188A1; PVALID # TANGUT COMPONENT-001..TANGUT COMPONENT-755
18AF3..1A9FF; UNASSIGNED # <reserved>..<reserved>
1B000..1B10F; PVALID # KATAKANA LETTER ARCHAIC E..HENTAIGANA LETTER
1B11F..1B16F; UNASSIGNED # <reserved>..<reserved>
1B170..1B2FB; PVALID # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1B2FC..1B3FF; UNASSIGNED # <reserved>..<reserved>
1BC00..1BC7C; PVALID # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC7D..1BC7F; UNASSIGNED # <reserved>..<reserved>
1BC80..1BC8F; PVALID # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLO
1BC90..1BC99; PVALID # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
1BC9A..1BC9B; UNASSIGNED # <reserved>..<reserved>
1BC9C ; DISALLOWED # DUPLOYAN SIGN O WITH CROSS
1BC9D..1BC9F; PVALID # DUPLOYAN THICK LETTER SELECTOR..DUPLOYAN DOU
1BC9F..1BCA3; DISALLOWED # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..SHOR
1BCA4..1BCFF; UNASSIGNED # <reserved>..<reserved>
1D000..1D05F; DISALLOWED # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE MU
1D0F6..1D0FF; UNASSIGNED # <reserved>..<reserved>
1D100..1D126; DISALLOWED # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMBO
1D127..1D128; UNASSIGNED # <reserved>..<reserved>
1D129..1D13F; DISALLOWED # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICA
1D1E9..1D1FF; UNASSIGNED # <reserved>..<reserved>
1D200..1D245; DISALLOWED # GREEK VOCAL NOTATION SYMBOL-1..GREEK MUSICAL
1D246..1D2DD; UNASSIGNED # <reserved>..<reserved>
1D2E0..1D2F3; DISALLOWED # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D2F4..1D2FF; UNASSIGNED # <reserved>..<reserved>
1D300..1D35F; DISALLOWED # MONOGRAM FOR EARTH..TETRAGRAM FOR FOSTERING
1D357..1D35F; UNASSIGNED # <reserved>..<reserved>
1D360..1D378; DISALLOWED # COUNTING ROD UNIT DIGIT ONE..TALLY MARK FIVE
1D379..1D3FF; UNASSIGNED # <reserved>..<reserved>
1D400..1D454; DISALLOWED # MATHEMATICAL BOLD CAPITAL A..MATHEMATICAL IT
1D455; UNASSIGNED # <reserved>
1D456..1D49C; DISALLOWED # MATHEMATICAL ITALIC SMALL I..MATHEMATICAL SC
1D49D; UNASSIGNED # <reserved>
1D49E..1D49F; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL C..MATHEMATICAL
1D4A0..1D4A1; UNASSIGNED # <reserved>..<reserved>
1D4A2; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL G
1D4A3..1D4A4; UNASSIGNED # <reserved>..<reserved>
1D4A5..1D4A6; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL J..MATHEMATICAL
1D4A7..1D4A8; UNASSIGNED # <reserved>..<reserved>
1D4A9..1D4AC; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL N..MATHEMATICAL
1D4AD; UNASSIGNED # <reserved>
1D4AE..1D4B9; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL
1D4BA; UNASSIGNED # <reserved>
1D4BB; DISALLOWED # MATHEMATICAL SCRIPT SMALL F
1D4BC; UNASSIGNED # <reserved>
1D4BD..1D4C3; DISALLOWED # MATHEMATICAL SCRIPT SMALL H..MATHEMATICAL SC
1D4C4; UNASSIGNED # <reserved>
1D4C5..1D505; DISALLOWED # MATHEMATICAL SCRIPT SMALL P..MATHEMATICAL FR
1D506; UNASSIGNED # <reserved>
1D507..1D50A; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL D..MATHEMATICAL
1D50B..1D50C; UNASSIGNED # <reserved>..<reserved>
1D50D..1D514; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL J..MATHEMATICAL
1D515; UNASSIGNED # <reserved>
1D516..1D51C; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL S..MATHEMATICAL
1D51D; UNASSIGNED # <reserved>
1D51E..1D539; DISALLOWED # MATHEMATICAL FRAKTUR SMALL A..MATHEMATICAL D
1D53A; UNASSIGNED # <reserved>
1D53B..1D53E; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL D..MATHEM
1D53F; UNASSIGNED # <reserved>
1D540..1D544; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL I..MATHEM
1D545; UNASSIGNED # <reserved>
1D546; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL O
1D547..1D549; UNASSIGNED # <reserved>..<reserved>
1D54A..1D550; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL S..MATHEM
1D551; UNASSIGNED # <reserved>
1D552..1D6A5; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK SMALL A..MATHEMAT
1D6A6..1D6A7; UNASSIGNED # <reserved>..<reserved>
1D6A8..1D7CB; DISALLOWED # MATHEMATICAL BOLD CAPITAL ALPHA..MATHEMATICA
1D7CC..1D7CD; UNASSIGNED # <reserved>..<reserved>
1D7CE..1D9FF; DISALLOWED # MATHEMATICAL BOLD DIGIT ZERO..SIGNWRITING HE
1DA00..1DA36; PVALID # SIGNWRITING HEAD RIM..SIGNWRITING AIR SUCKIN
1DA37..1DA3A; DISALLOWED # SIGNWRITING AIR BLOW SMALL ROTATIONS..SIGNWR
1DA3B..1DA6C; PVALID # SIGNWRITING MOUTH CLOSED NEUTRAL..SIGNWRITIN
1DA6D..1DA74; DISALLOWED # SIGNWRITING SHOULDER HIP SPINE..SIGNWRITING
1DA75; PVALID # SIGNWRITING UPPER BODY TILTING FROM HIP JOIN
1DA76..1DA83; DISALLOWED # SIGNWRITING LIMB COMBINATION..SIGNWRITING LO
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1EE43..1EE46; UNASSIGNED # <reserved>..<reserved>
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1EE51..1EE52; DISALLOWED # ARABIC MATHEMATICAL TAILED SAD..ARABIC MATHE
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1EE74..1EE77; DISALLOWED # ARABIC MATHEMATICAL STRETCHED SHEEN..ARABIC
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1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
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1F02C..1F02F; UNASSIGNED  # <reserved>..<reserved>
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1F0A0..1F0AE; DISALLOWED  # PLAYING CARD BACK..PLAYING CARD KING OF SPA
1F0AF..1F0BF; UNASSIGNED  # <reserved>..<reserved>
1F0B1..1F0BF; DISALLOWED  # PLAYING CARD ACE OF HEARTS..PLAYING CARD RED
1F0C0 ; UNASSIGNED  # <reserved>
1F0C1..1F0CF; DISALLOWED  # PLAYING CARD ACE OF DIAMONDS..PLAYING CARD B
1F0D0 ; UNASSIGNED  # <reserved>
1F0D1..1F0F5; DISALLOWED  # PLAYING CARD ACE OF CLUBS..PLAYING CARD TRUM
1F0F6..1F0FF; UNASSIGNED  # <reserved>..<reserved>
1F100..1F10C; DISALLOWED  # DIGIT ZERO FULL STOP..DINGBAT NEGATIVE CIRCL
1F10D..1F10F; UNASSIGNED  # <reserved>..<reserved>
1F110..1F116; DISALLOWED  # PARENTHESESIZED LATIN CAPITAL LETTER A..RAISED
1F116C..1F116F; UNASSIGNED  # <reserved>..<reserved>
1F1170..1F117C; DISALLOWED  # NEGATIVE SQUARED LATIN CAPITAL LETTER A..SQU
1F11AD..1F11E5; UNASSIGNED  # <reserved>..<reserved>
1F11E6..1F1202; DISALLOWED  # REGIONAL INDICATOR SYMBOL LETTER A..SQUAR
1F203..1F20F; UNASSIGNED  # <reserved>..<reserved>
1F210..1F23B; DISALLOWED  # SQUARE CJK UNIFIED IDEOGRAPH-624B..SQUAR
1F23C..1F23F; UNASSIGNED  # <reserved>..<reserved>
1F240..1F24B; DISALLOWED  # TORTOISE SHELL BRACKETED CJK UNIFIED IDEOGRAPH
1F24C..1F24F; UNASSIGNED  # <reserved>..<reserved>
1F250..1F251; DISALLOWED  # CIRCLED IDEOGRAPH ADVANTAGE..CIRCLED IDEOGRAPH
1F252..1F25F; UNASSIGNED  # <reserved>..<reserved>
1F260..1F265; DISALLOWED  # ROUNDED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F266..1F27F; UNASSIGNED  # <reserved>..<reserved>
1F300..1F31D; DISALLOWED  # CYCLONE..PAGODA
1F600..1F606; UNASSIGNED  # <reserved>..<reserved>
1F61E..1F61E; DISALLOWED  # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F61F..1F624; UNASSIGNED  # <reserved>..<reserved>
1F626..1F62A; DISALLOWED  # SATELLITE..SKATEBOARD
1F62B..1F62F; UNASSIGNED  # <reserved>..<reserved>
1F700..1F773; DISALLOWED  # ALCHEMICAL SYMBOL FOR QUINTESSENCE..ALCHEMIC
1F774..1F777; UNASSIGNED  # <reserved>..<reserved>
1F780..1F78B; DISALLOWED  # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F78D..1F79F; UNASSIGNED  # <reserved>..<reserved>
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1F80C..1F80F; UNASSIGNED  # <reserved>..<reserved>
1F810..1F847; DISALLOWED  # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
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1F85A..1F85F; UNASSIGNED  # <reserved>..<reserved>
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1F90C..1F90F; UNASSIGNED # <reserved>..<reserved>
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1F93F ; UNASSIGNED # <reserved>
1F940..1F972; DISALLOWED # WILTED FLOWER..SMILING FACE WITH SMILING EYE
1F973..1F976; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F977..1F979; UNASSIGNED # <reserved>..<reserved>
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1F97B ; UNASSIGNED # <reserved>
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1F9C3..1F9C5; UNASSIGNED # <reserved>..<reserved>
1F9D0..1F9DF; DISALLOWED # FACE WITH MONOCLE..NAZAR AMULET
1FA00..1FA5F; UNASSIGNED # <reserved>..<reserved>
1FA60..1FA6D; DISALLOWED # XIANGQI RED GENERAL..XIANGQI BLACK SOLDIER
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E0020..E007F; DISALLOWED # TAG SPACE..CANCEL TAG
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