IDNA2008 and Unicode 11.0.0

draft-faltstrom-unicodell-00

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.

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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 2.1). 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).

Historically the IETF have accepted all implications on changes in the Unicode Standard even though the changes have resulted in problematic changes in the derived property value. Main reason have been that staying with the Unicode Standard have been viewed as important given the diversity in implications already existing in the wild.

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

2. Background

2.1. 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 DISALLOWED. IETF came to the conclusion the changes were acceptable and RFC 5892 [RFC5892] was not updated to make the derived property value not change for these code points.

2.2. Deployment

The deployment of IDNA2008 is unfortunately quite diverse. Implementations exists doing at least the following:

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.

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].

It is further complicated by having a very diverse implementation 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, Unicode Consortium set a maximum set of code points by assigning code points in the Unicode Standard. The IDNA2008 rules based on the Unicode Standard create a subset of these by assigning PVALID derived property value to them. The registries (and others dealing with Internationalized Domain Names) should then create an even smaller subset that ultimately is the set of code points that can be used.

It is also the case that when these subsets are calculated it is recommended to be conservative and use the inclusion principle, as 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 [I-D.klensin-idna-rfc5891bis] and draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters].

3. Notable changes between Unicode 6.3.0 and 11.0.0

3.1. Changes to Unicode 7.0.0

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

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

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

As specified in in draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters] it is not recommended to accept U+08A1 in the repertoire of characters permissible for registration.
and because of this it is accepted to allow the code point to have a derived property value of PVALID.

3.2. Changes to Unicode 11.0.0

In version 11.0.0 of the Unicode Standard have included a number of changes [Changes-11.0.0], specifically to UnicodeData.txt:

- Entries were added for the 684 new characters, including letters, combining marks, digits, symbols, and punctuation marks.
- Georgian letters in the ranges U+10D0..U+10FA, U+10FD..U+10FF were changed from Lo to Ll, to reflect their status as the lowercase of new Georgian case pairs. Case mappings were also added.
- U+111C9 SHARADA SANDHI MARK was changed from Po to Mn, and from bc=L to bc=NSM.
- U+11A07 ZANABAZAR SQUARE VOWEL SIGN AI and U+11A08 ZANABZAR SQUARE VOWEL SIGN AU were corrected from Mc to Mn.
- U+29A1 SPHERICAL ANGLE OPENING UP was changed to Bidi_M=N.

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

- The newly assigned 684 characters are to have a derived property value as of a result of applying the IDNA2008 algorithm.
- The Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF earlier had derived property value PVALID and continues to have so even if some properties changed.
- The U+111C9 SHARADA SANDHI MARK was added to the 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 properties in the Unicode Standard in version 11.0.0 make the derived property value change to PVALID which according to discussions in IETF is acceptable.
- 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] and applying IDNA2008 algorithm to their properties gave derived property value PVALID. This does not change even if some properties changes in the Unicode Standard for the code points in question for Unicode version 11.0.0.
4. Conclusion

Given the changes laid out in Section 3 the derived property values MUST be calculated according to the IDNA2008 specification for Unicode Version 11.0.0. The changes in code points, implications to normalization and changes in derived property values are acceptable.

All registries and others SHOULD calculate a repertoire 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].

5. IANA Considerations

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

6. Security Considerations

Not following the recommendations regarding explicitly deciding what subset of the by IDNA2008 algorithm applied to current Unicode version should be permissible can lead to various security issues related to specifically confusability, and that way various phishing attacks.

7. Acknowledgements

Thanks to John Klensin, Asmus Freytag, Andrew Sullivan and Michel Suignard for input to this document.

8. References

8.1. Normative References

[IAB] Internet Architecture Board, "IAB Statement on Identifiers and Unicode 7.0.0", IAB Statement on Identifiers and Unicode 7.0.0
8.2.  Non-normative references

[I-D.freytag-troublesome-characters]

[I-D.klensin-idna-rfc5891bis]


Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0

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

037F       ; DISALLOWED  # GREEK CAPITAL LETTER YOT
0528..052F ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK..C
058D..058E ; DISALLOWED  # RIGHT-FACING ARMENIAN ETERNITY SIGN..LEFT-FA
0605       ; DISALLOWED  # ARABIC NUMBER MARK ABOVE
10A80..10A9F; PVALID  # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10A0C..10AE6; PVALID  # MANICHAEAN LETTER ALEPH..MANICHAEAN ABBREVIATION
10AE8..10AF6; DISALLOWED  # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATION
10B80..10BB1; PVALID  # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAVI
10B99..10B9C; DISALLOWED  # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAVI
10BA9..10BAF; DISALLOWED  # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAVI
1107F; PVALID  # BRAHMI NUMBER JOINER
11150..11176; PVALID  # MAHAJANI LETTER A..MAHAJANI LIGATURE SHRI
111CD; DISALLOWED  # SHARADA SUTRA MARK
111DA; PVALID  # SHARADA EKAM
111E1..111F4; DISALLOWED  # SINGHALA ARCHAIC DIGIT ONE..SINGHALA ARCHAIC N
11200..11211; PVALID  # KHOJKI LETTER A..KHOJKI LETTER JJA
11213..1123D; PVALID  # KHOJKI LETTER NYA..KHOJKI ABBREVIATION SIGN
11280..112EA; PVALID  # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
112F0..112F9; PVALID  # KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE
11301..11303; PVALID  # GRANTHA SIGN CANDRABINDU..GRANTHA SIGN VISAR
11305..1130C; PVALID  # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130F..11310; PVALID  # GRANTHA LETTER EE..GRANTHA LETTER AI
11313..11328; PVALID  # GRANTHA LETTER OO..GRANTHA LETTER NA
1132A..11330; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11332..11333; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LLA
11335..11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..11344; PVALID  # GRANTHA SIGN NUKTA..GRANTHA VOWEL SIGN VOCAL
11347..11348; PVALID  # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
1134B..1134D; PVALID  # GRANTHA VOWEL SIGN OO..GRANTHA VOWEL SIGN VIRAMA
11357; PVALID  # GRANTHA AU LENGTH MARK
1135D..11363; PVALID  # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11366..1136C; PVALID  # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA DIGIT NINE
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHA LETTER N
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 VOCAL
115B8..115C9; PVALID  # SIDDHAM VOWEL SIGN E..SIDDHAM END OF TEXT MARK
11600..11644; PVALID  # MODI LETTER A..MODI SIGN HUVA
11650..11659; PVALID  # MODI DIGIT ZERO..MODI DIGIT NINE
118A0..118F2; DISALLOWED  # WARANG CITHAL CAPITAL LETTER NGAA..WARANG CITHAL
118FF; PVALID  # WARANG CITHAL OM
11AC0..11AE8; PVALID  # PAU CIN HAU LETTER PA..PAU CIN HAU HOLLOW S
1236F..12398; PVALID  # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN U
12463..1246E; DISALLOWED  # CUNEIFORM NUMERIC SIGN ONE QUARTER GUR..CUNEIFORM NUMERIC SIGN DIAGONAL QUADCOLO
12474; DISALLOWED  # CUNEIFORM NUMERIC SIGN ONE QUARTER GUR..CUNEIFORM NUMERIC SIGN DIAGONAL QUADCOLO
16A40..16A5E; PVALID  # MRO LETTER TA..MRO LETTER TEK
16A60..16A69; PVALID  # MRO DIGIT ZERO..MRO DIGIT NINE
16A6E..16A6F; DISALLOWED  # MRO DANDA..MRO DOUBLE DANDA
16A6D..16AED; PVALID  # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16AF0..16AF5; PVALID  # BASSA VAH COMBINING HIGH TONE..BASSA VAH FUL
16B00..16B45; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG SIGN C
16B50..16B59; PVALID  # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
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..ARABIC TURNED DAMMA BELOW
<table>
<thead>
<tr>
<th>Code Point</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0AF9</td>
<td>PVALID</td>
<td>GUJARATI LETTER ZHA</td>
</tr>
<tr>
<td>0C5A</td>
<td>PVALID</td>
<td>TELUGU LETTER RRRA</td>
</tr>
<tr>
<td>0D5F</td>
<td>PVALID</td>
<td>MALAYALAM LETTER ARCHAIC II</td>
</tr>
<tr>
<td>13F5</td>
<td>PVALID</td>
<td>CHEROKEE LETTER MV</td>
</tr>
<tr>
<td>13F8..13FD</td>
<td>DISALLOWED</td>
<td>CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET</td>
</tr>
<tr>
<td>20BE</td>
<td>DISALLOWED</td>
<td>LARI SIGN</td>
</tr>
<tr>
<td>218A..218B</td>
<td>DISALLOWED</td>
<td>TURNED DIGIT TWO..TURNED DIGIT THREE</td>
</tr>
<tr>
<td>2BEC..2BEF</td>
<td>DISALLOWED</td>
<td>LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARR</td>
</tr>
<tr>
<td>9FD5</td>
<td>PVALID</td>
<td>&lt;CJK Ideograph&gt;..&lt;CJK Ideograph&gt;</td>
</tr>
<tr>
<td>A69E</td>
<td>PVALID</td>
<td>COMBINING CYRILLIC LETTER EF</td>
</tr>
<tr>
<td>A78F</td>
<td>PVALID</td>
<td>LATIN LETTER SINOLOGICAL DOT</td>
</tr>
<tr>
<td>A7B2..A7B7</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LA</td>
</tr>
<tr>
<td>A8FC..A8FD</td>
<td>DISALLOWED</td>
<td>DEVANAGARI SIGN SIDDHAM..DEVANAGARI JAIN OM</td>
</tr>
<tr>
<td>A860..A863</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LE</td>
</tr>
<tr>
<td>AB70..ABBF</td>
<td>DISALLOWED</td>
<td>CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT</td>
</tr>
<tr>
<td>FE2E..FE2F</td>
<td>PVALID</td>
<td>COMBINING CYRILLIC TITLO LEFT HALF..COMBININ</td>
</tr>
<tr>
<td>10BE0..10BF2</td>
<td>PVALID</td>
<td>HATRAN LETTER ALEPH..HATRAN LETTER QOPH</td>
</tr>
<tr>
<td>10BF4..10BF5</td>
<td>PVALID</td>
<td>HATRAN LETTER SHIN..HATRAN LETTER TAW</td>
</tr>
<tr>
<td>10BF8..10BF</td>
<td>DISALLOWED</td>
<td>HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED</td>
</tr>
<tr>
<td>10BD6..10BD</td>
<td>DISALLOWED</td>
<td>MEROITIC CURSIVE FRACTION ELEVEN TWIN..M</td>
</tr>
<tr>
<td>109C0..109CF</td>
<td>DISALLOWED</td>
<td>MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIV</td>
</tr>
<tr>
<td>109D2..109DF</td>
<td>DISALLOWED</td>
<td>MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI</td>
</tr>
<tr>
<td>10C80..10CB2</td>
<td>DISALLOWED</td>
<td>OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA</td>
</tr>
<tr>
<td>10CC0..10CF2</td>
<td>PVALID</td>
<td>OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN</td>
</tr>
<tr>
<td>10CAFA..10CF</td>
<td>DISALLOWED</td>
<td>OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMB</td>
</tr>
<tr>
<td>111C9..111CC</td>
<td>DISALLOWED</td>
<td>SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW</td>
</tr>
<tr>
<td>111DB..111DF</td>
<td>DISALLOWED</td>
<td>SHARADA SIGN SIDDHAM..SHARADA SECTION MARK-2</td>
</tr>
<tr>
<td>11280..11286</td>
<td>PVALID</td>
<td>MULTANI LETTER A..MULTANI LETTER GA</td>
</tr>
<tr>
<td>11288</td>
<td>PVALID</td>
<td>MULTANI LETTER GHA</td>
</tr>
<tr>
<td>1128A..1128D</td>
<td>PVALID</td>
<td>MULTANI LETTER CA..MULTANI LETTER JJA</td>
</tr>
<tr>
<td>1128F..1129D</td>
<td>PVALID</td>
<td>MULTANI LETTER NYA..MULTANI LETTER BA</td>
</tr>
<tr>
<td>1129F..112A9</td>
<td>PVALID</td>
<td>MULTANI LETTER BHA..MULTANI SECTION MARK</td>
</tr>
<tr>
<td>11300</td>
<td>PVALID</td>
<td>GRANTHA SIGN COMBINING ANUSVARA ABOVE</td>
</tr>
<tr>
<td>11350</td>
<td>PVALID</td>
<td>GRANTHA OM</td>
</tr>
<tr>
<td>115CA..115DD</td>
<td>DISALLOWED</td>
<td>SIDDHAM SECTION MARK WITH TRIDENT AND U-SHAP</td>
</tr>
<tr>
<td>11700..11719</td>
<td>PVALID</td>
<td>AHOM LETTER KA..AHOM LETTER JHA</td>
</tr>
<tr>
<td>1171D..1172B</td>
<td>PVALID</td>
<td>AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KIL</td>
</tr>
<tr>
<td>11730..1173F</td>
<td>PVALID</td>
<td>AHOM DIGIT ZERO..AHOM SYMBOL VI</td>
</tr>
<tr>
<td>12399</td>
<td>PVALID</td>
<td>CUNEIFORM SIGN U U</td>
</tr>
<tr>
<td>12480..12543</td>
<td>PVALID</td>
<td>CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM</td>
</tr>
<tr>
<td>14400..14646</td>
<td>PVALID</td>
<td>ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGL</td>
</tr>
<tr>
<td>1D1DE..1D1E8</td>
<td>DISALLOWED</td>
<td>MUSICAL SYMBOL KIEVAN C CLEF..MUSICAL SYMBOL</td>
</tr>
<tr>
<td>1D800..1D8AB</td>
<td>DISALLOWED</td>
<td>SIGNWRITING HAND-FIST INDEX..SIGNWRITING PAR</td>
</tr>
<tr>
<td>1DA9B..1DA9F</td>
<td>PVALID</td>
<td>SIGNWRITING FILL MODIFIER-2..SIGNWRITING FIL</td>
</tr>
<tr>
<td>1DAAB..1DAAF</td>
<td>PVALID</td>
<td>SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING</td>
</tr>
<tr>
<td>1F32D..1F32F</td>
<td>DISALLOWED</td>
<td>HOT DOG..BURRITO</td>
</tr>
<tr>
<td>1F37E..1F37F</td>
<td>DISALLOWED</td>
<td>BOTTLE WITH POPPING CORK..POPCORN</td>
</tr>
<tr>
<td>1F3CF..1F3D3</td>
<td>DISALLOWED</td>
<td>CRICKET BAT AND BALL..TABLE TENNIS PADDLE AN</td>
</tr>
</tbody>
</table>
Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

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

08B6..08BD  ; PVALID      # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08D4..08E2  ; PVALID      # ARABIC SMALL HIGH WORD AR-RUB..ARABIC DISPUT
0C80        ; PVALID      # KANNADA SIGN SPACING CANDRABINDU
0D4F        ; DISALLOWED  # MALAYALAM SIGN PARA
0D54..0D56  ; PVALID      # MALAYALAM LETTER CHILLU M..MALAYALAM LETTER
0D58..0D5E  ; DISALLOWED  # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
0D76..0D78  ; DISALLOWED  # MALAYALAM FRACTION ONE SIXTEENTH..MALAYALAM
1C80..1C88  ; DISALLOWED  # CYRILLIC SMALL LETTER ROUNDED VE..CYRILLIC S
1DFB        ; PVALID      # COMBINING DELETION MARK
23FB..23FE  ; DISALLOWED  # POWER SYMBOL..POWER SLEEP SYMBOL
2E43..2E44  ; DISALLOWED  # DASH WITH LEFT UPTURN..DOUBLE SUSPENSION MAR
A7AE        ; DISALLOWED  # LATIN CAPITAL LETTER SMALL CAPITAL I
A8C5        ; PVALID      # SAURASHTRA SIGN CANDRABINDU
1018D..1018E; DISALLOWED  # GREEK INDICTION SIGN..NOMISMA SIGN
104B0..104D3; DISALLOWED  # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D8..104FB; PVALID      # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
1123E       ; PVALID      # KHOJIKI SIGN SUKUN
11400..11459; PVALID      # NEWA LETTER A..NEWA DIGIT NINE
1145B       ; DISALLOWED  # NEWA PLACEHOLDER MARK
1145D       ; DISALLOWED  # NEWA INSERTION SIGN
11660..1166C; DISALLOWED  # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
11C00..11C08; PVALID      # BHAIKSUKI LETTER A..BHAIKSUKI LETTER VOCALIC
11C4A..11C46; 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
11C70..11C8F; DISALLOWED  # MARCHEN HEAD MARK..MARCHEN LETTER A
11C92..11C97; PVALID      # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
11CA9..11CB6; PVALID      # MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA
16FE0       ; PVALID      # TANGUT ITERATION MARK
17000..187EC; PVALID      # <Tangut Ideograph>..<Tangut Ideograph>
18800..18AF2; PVALID      # TANGUT COMPONENT-001..TANGUT COMPONENT-755
1E000..1E006; PVALID      # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E008..1E018; PVALID      # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBININ
1E01B..1E021; PVALID      # COMBINING GLAGOLITIC LETTER SHTA..COMBINING
Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0

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

111C9 ; PVALID       # SHARADA SANDHI MARK

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.
0560 ; PVALID # ARMENIAN SMALL LETTER TURNED AYB
0588 ; PVALID # ARMENIAN SMALL LETTER YI WITH STROKE
05EF ; PVALID # HEBREW YOD TRIANGLE
07FD..07FF ; PVALID # NKO DANTAYALAN..NKO TAMAN SIGN
08D3 ; PVALID # ARABIC SMALL LOW WAW
09FE ; PVALID # BENGALI SANDHI MARK
0A76 ; DISALLOWED # GURMUKHI ABBREVIATION SIGN
0C04 ; PVALID # TELUGU SIGN COMBINING ANUSVARA ABOVE
0C84 ; DISALLOWED # KANNADA SIGN SIDDHAM
1878 ; PVALID # MONGOLIAN LETTER CHA WITH TWO DOTS
1C90..1CBA ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CB0..1CBF ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..GEORGI
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
10A48 ; DISALLOWED # KHAHOSHTHI FRACTION ONE HALF
10D00..10D27; PVALID # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D30..10D39; PVALID # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA
10F00..10F27; PVALID # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LIGATU
10F30..10F59; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN PUNCTUATION HA
110CD ; DISALLOWED # KAITHI NUMBER SIGN ABOVE
11144..11146; PVALID # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
1133B ; PVALID # COMBINING BINDU BELOW
1171A ; PVALID # NEWA SANDHI MARK
11800..1183B; PVALID # DOGRA LETTER A..DOGRA ABBREVIATION SIGN
11A9D ; PVALID # SOYOI MARK PLUTA
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D67..11D68; PVALID # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
11D6A..11DBE; 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
11E00..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
1F7D5..1F7D8; DISALLOWED # CIRCLED TRIANGLE..NEGATIVE CIRCLED SQUARE
1F94D..1F94F; DISALLOWED # LACROSSE STICK AND BALL..FLYING DISC
1F96C..1F970; DISALLOWED # LEAFY GREEN..SMILING FACE WITH SMILING EYES
1F973..1F976; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F97A ; DISALLOWED # FACE WITH PLEADING EYES
1F97C..1F97F; DISALLOWED # LAB COAT..FLAT SHOE
1F998..1F9A2; DISALLOWED # KANGAROO..SWAN
1F9B0..1F9B9; DISALLOWED # EMOJI COMPONENT RED HAIR..SUPERVILLAIN
1F9C1..1F9C2; DISALLOWED # CUPCAKE..SALT SHAKER
1F9E7..1F9FF; DISALLOWED # RED GIFT ENVELOPE..NAZAR AMULET

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

0000..002C ; DISALLOWED # <control>..COMMA
002D ; PVALID # HYPHEN-MINUS
002E..002F ; DISALLOWED # FULL STOP..SOLIDUS
0030..0039 ; PVALID # DIGIT ZERO..DIGIT NINE
003A..0060 ; DISALLOWED # COLON..GRAVE ACCENT
0061..007A ; PVALID # LATIN SMALL LETTER A..LATIN SMALL LETTER Z
007B..00B6 ; DISALLOWED # LEFT CURLY BRACKET..PILCROW SIGN
00B7 ; CONTEXTO # MIDDLE DOT
00B8..00DE ; DISALLOWED # CEDILLA..LATIN CAPITAL LETTER THORN
00DF..00F6 ; PVALID # LATIN SMALL LETTER SHARP S..LATIN SMALL LETTER
00F7 ; DISALLOWED # DIVISION SIGN
00F8..00FF ; PVALID # LATIN SMALL LETTER O WITH STROKE..LATIN SMAL
0100 ; DISALLOWED # LATIN CAPITAL LETTER A WITH MACRON
0101 ; PVALID # LATIN SMALL LETTER A WITH MACRON
0102 ; DISALLOWED # LATIN CAPITAL LETTER A WITH BREVE
0103 ; PVALID # LATIN SMALL LETTER A WITH BREVE
0104 ; DISALLOWED # LATIN CAPITAL LETTER A WITH OGONEK
0105 ; PVALID # LATIN SMALL LETTER A WITH OGONEK
0106 ; DISALLOWED # LATIN CAPITAL LETTER C WITH ACUTE
0107 ; PVALID # LATIN SMALL LETTER C WITH ACUTE
0108 ; DISALLOWED # LATIN CAPITAL LETTER C WITH ACUTE
0109 ; PVALID # LATIN SMALL LETTER C WITH ACUTE
010A ; DISALLOWED # LATIN CAPITAL LETTER C WITH DOT ABOVE
010B ; PVALID # LATIN SMALL LETTER C WITH DOT ABOVE
010C ; DISALLOWED # LATIN CAPITAL LETTER C WITH CARON
010D ; PVALID # LATIN SMALL LETTER C WITH CARON
010E ; DISALLOWED # LATIN CAPITAL LETTER D WITH CARON
010F ; PVALID # LATIN SMALL LETTER D WITH CARON
0110 ; DISALLOWED # LATIN CAPITAL LETTER D WITH STROKE
0111 ; PVALID # LATIN SMALL LETTER D WITH STROKE
0112 ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON
0113 ; PVALID # LATIN SMALL LETTER E WITH MACRON
0114 ; DISALLOWED # LATIN CAPITAL LETTER E WITH BREVE
0115 ; PVALID # LATIN SMALL LETTER E WITH BREVE
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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
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015B ; PVALID # LATIN SMALL LETTER S WITH ACUTE
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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
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0176 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
0177 ; PVALID # LATIN SMALL LETTER Y WITH CIRCUMFLEX
0178..0179 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DIAERESIS..LATIN
017A ; PVALID # LATIN SMALL LETTER Z WITH ACUTE
017B ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DOT ABOVE
017C ; PVALID # LATIN SMALL LETTER Z WITH DOT ABOVE
017D        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CARON
017E        ; PVALID      # LATIN SMALL LETTER Z WITH CARON
017F        ; DISALLOWED  # LATIN SMALL LETTER LONG S
0180        ; PVALID      # LATIN SMALL LETTER B WITH STROKE
0181..0182  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH HOOK..LATIN CAPITAL
0183        ; PVALID      # LATIN SMALL LETTER B WITH TOPBAR
0184        ; DISALLOWED  # LATIN CAPITAL LETTER TONE SIX
0185        ; PVALID      # LATIN SMALL LETTER TONE SIX
0186..0187  ; DISALLOWED  # LATIN CAPITAL LETTER OPEN O..LATIN CAPITAL L
0188        ; PVALID      # LATIN SMALL LETTER C WITH HOOK
0189..018B  ; DISALLOWED  # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL
018C..018D  ; PVALID      # LATIN SMALL LETTER D WITH TOPBAR..LATIN SMALL
018E..0191  ; DISALLOWED  # LATIN CAPITAL LETTER REVERSED E..LATIN CAPITAL
0192        ; PVALID      # LATIN SMALL LETTER F WITH HOOK
0193..0194  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPITAL
0195        ; PVALID      # LATIN SMALL LETTER HV
0196..0198  ; DISALLOWED  # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LET
0199..019B  ; PVALID      # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL
019C..019D  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL
019E        ; PVALID      # LATIN SMALL LETTER N WITH LONG RIGHT LEG
019F..01A0  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MIDDLE TILDE..LA
01A1        ; PVALID      # LATIN SMALL LETTER O WITH HORN
01A2        ; DISALLOWED  # LATIN CAPITAL LETTER OI
01A3        ; PVALID      # LATIN SMALL LETTER OI
01A4        ; DISALLOWED  # LATIN CAPITAL LETTER P WITH HOOK
01A5        ; PVALID      # LATIN SMALL LETTER P WITH HOOK
01A6..01A7  ; DISALLOWED  # LATIN LETTER YR..LATIN CAPITAL LETTER TONE T
01A8        ; PVALID      # LATIN SMALL LETTER TONE TWO
01A9        ; DISALLOWED  # LATIN CAPITAL LETTER ESH
01AA..01AB  ; PVALID      # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL
01AC        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH HOOK
01AD        ; PVALID      # LATIN SMALL LETTER T WITH HOOK
01AE..01AF  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH RETROFLEX HOOK..
01B0        ; PVALID      # LATIN SMALL LETTER U WITH HORN
01B1..01B3  ; DISALLOWED  # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL
01B4        ; PVALID      # LATIN SMALL LETTER Y WITH HOOK
01B5        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH STROKE
01B6        ; PVALID      # LATIN SMALL LETTER Z WITH STROKE
01B7..01B8  ; DISALLOWED  # LATIN CAPITAL LETTER EZH..LATIN CAPITAL LET
01B9..01BB  ; PVALID      # LATIN SMALL LETTER EZH REVERSED..LATIN LETTE
01BC        ; DISALLOWED  # LATIN CAPITAL LETTER TONE FIVE
01BD..01C3  ; PVALID      # LATIN SMALL LETTER TONE FIVE..LATIN LETTER R
01C4..01CD  ; DISALLOWED  # LATIN CAPITAL LETTER DZ WITH CARON..LATIN CA
01CE        ; PVALID      # LATIN SMALL LETTER A WITH CARON
01CF        ; DISALLOWED  # LATIN CAPITAL LETTER I WITH CARON
01D0        ; PVALID      # LATIN SMALL LETTER I WITH CARON
01D1        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CARON
01D2        ; PVALID      # LATIN SMALL LETTER O WITH CARON
| \u01D3 | DISALLOWED # LATIN CAPITAL LETTER U WITH CARON |
| \u01D4 | PVALID   # LATIN SMALL LETTER U WITH CARON    |
| \u01D5 | DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND MACR |
| \u01D6 | PVALID   # LATIN SMALL LETTER U WITH DIAERESIS AND MACR |
| \u01D7 | DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUT |
| \u01D8 | PVALID   # LATIN SMALL LETTER U WITH DIAERESIS AND ACUT |
| \u01D9 | DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS AND CARO |
| \u01DA | PVALID   # LATIN SMALL LETTER U WITH DIAERESIS AND CARO |
| \u01DC..01DD | PVALID   # LATIN SMALL LETTER U WITH DIAERESIS AND GRAV |
| \u01DE | DISALLOWED # LATIN CAPITAL LETTER A WITH DIAERESIS AND MA |
| \u01DF | PVALID   # LATIN SMALL LETTER A WITH DIAERESIS AND MACR |
| \u01E0 | DISALLOWED # LATIN CAPITAL LETTER A WITH DOT ABOVE AND MA |
| \u01E1 | PVALID   # LATIN SMALL LETTER A WITH DOT ABOVE AND MACR |
| \u01E2 | DISALLOWED # LATIN CAPITAL LETTER AE WITH MACRON |
| \u01E3 | PVALID   # LATIN SMALL LETTER AE WITH MACRON |
| \u01E4 | DISALLOWED # LATIN CAPITAL LETTER G WITH STROKE |
| \u01E5 | PVALID   # LATIN SMALL LETTER G WITH STROKE |
| \u01E6 | DISALLOWED # LATIN CAPITAL LETTER G WITH CARON |
| \u01E7 | PVALID   # LATIN SMALL LETTER G WITH CARON |
| \u01E8 | DISALLOWED # LATIN CAPITAL LETTER K WITH CARON |
| \u01E9 | PVALID   # LATIN SMALL LETTER K WITH CARON |
| \u01EA | DISALLOWED # LATIN CAPITAL LETTER O WITH OGONEK |
| \u01EB | PVALID   # LATIN SMALL LETTER O WITH OGONEK |
| \u01EC | DISALLOWED # LATIN CAPITAL LETTER O WITH OGONEK AND MACRO |
| \u01ED | PVALID   # LATIN SMALL LETTER O WITH OGONEK AND MACRO |
| \u01EE | DISALLOWED # LATIN CAPITAL LETTER EZH WITH CARON |
| \u01EF..01F0 | PVALID   # LATIN SMALL LETTER EZH WITH CARON..LATIN SMALL LETTER EZH WITH CARON |
| \u01F1..01F4 | DISALLOWED # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTER EZH |
| \u01F5 | PVALID   # LATIN SMALL LETTER G WITH ACUTE |
| \u01F6..01F8 | DISALLOWED # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LETTER HWAIR |
| \u01F9 | PVALID   # LATIN SMALL LETTER N WITH GRAVE |
| \u01FA | DISALLOWED # LATIN CAPITAL LETTER A WITH Ring Above AND A |
| \u01FB | PVALID   # LATIN SMALL LETTER A WITH Ring Above AND A |
| \u01FC | DISALLOWED # LATIN CAPITAL LETTER AE WITH ACUTE |
| \u01FD | PVALID   # LATIN SMALL LETTER AE WITH ACUTE |
| \u01FE | DISALLOWED # LATIN CAPITAL LETTER O WITH STROKE AND ACUTE |
| \u01FF | PVALID   # LATIN SMALL LETTER O WITH STROKE AND ACUTE |
| \u0200 | DISALLOWED # LATIN CAPITAL LETTER A WITH DOUBLE GRAVE |
| \u0201 | PVALID   # LATIN SMALL LETTER A WITH DOUBLE GRAVE |
| \u0202 | DISALLOWED # LATIN CAPITAL LETTER A WITH INVERTED BREVE |
| \u0203 | PVALID   # LATIN SMALL LETTER A WITH INVERTED BREVE |
| \u0204 | DISALLOWED # LATIN CAPITAL LETTER E WITH DOUBLE GRAVE |
| \u0205 | PVALID   # LATIN SMALL LETTER E WITH DOUBLE GRAVE |
| \u0206 | DISALLOWED # LATIN CAPITAL LETTER E WITH INVERTED BREVE |
| \u0207 | PVALID   # LATIN SMALL LETTER E WITH INVERTED BREVE |
| \u0208 | DISALLOWED # LATIN CAPITAL LETTER I WITH DOUBLE GRAVE |
| \u0209 | 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 MA
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 MA
0231  ; PVALID    # LATIN SMALL LETTER O WITH DOT ABOVE AND MACR
0232  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH MACRON
0233..0239  ; PVALID    # LATIN SMALL LETTER Y WITH MACRON..LATIN SMALL 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 SMA
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 LET
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 APOSTROPE
02EF..02FF  ; DISALLOWED # MODIFIER LETTER LOW DOWN ARROWHEAD..MODIFIER
0300..033F  ; PVALID  # COMBINING GRAVE ACCENT..COMBINING DOUBLE OVE
0340..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 YPOGEGRAMMENI
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 OOMICRON WITH TONOS
038D        ; UNASSIGNED # <reserved>
038E..038F  ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH TONOS..GRE
0390        ; PVALID  # GREEK SMALL LETTER IOTA WITH DIALYTICA 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 OMEGA
03CF..03D6 ; DISALLOWED  # GREEK CAPITAL KAI SYMBOL..GREEK PI SYMBOL
03D7 ; PVALID  # GREEK KAI SYMBOL
03D8 ; DISALLOWED  # GREEK LETTER ARCHAIC KOPPA
03D9 ; PVALID  # GREEK SMALL LETTER ARCHAIC KOPPA
03DA ; DISALLOWED  # GREEK LETTER SIGMA
03DB ; PVALID  # GREEK SMALL LETTER SIGMA
03DC ; DISALLOWED  # GREEK LETTER DIGAMMA
03DD ; PVALID  # GREEK SMALL LETTER DIGAMMA
03DE ; DISALLOWED  # GREEK LETTER KOPPA
03DF ; PVALID  # GREEK SMALL LETTER KOPPA
03E0 ; DISALLOWED  # GREEK LETTER SAMPI
03E1 ; PVALID  # GREEK SMALL LETTER SAMPI
03E2 ; DISALLOWED  # COPTIC CAPITAL LETTER SHEI
03E3 ; PVALID  # COPTIC SMALL LETTER SHEI
03E4 ; DISALLOWED  # COPTIC CAPITAL LETTER FEI
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 LITTLE LETTER YAT
03F8 ; PVALID  # GREEK SMALL LETTER SHO
03F9..03FA ; DISALLOWED  # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAPITAL LITTLE LETTER YAT
03FB..03FC ; PVALID  # GREEK SMALL LETTER SAN..GREEK RHOS WITH STROKES
03FD..042F ; DISALLOWED  # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL
0430..045F ; PVALID  # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETTER E
0460 ; DISALLOWED  # CYRILLIC CAPITAL LETTER OMEGA
0461 ; PVALID  # CYRILLIC SMALL LETTER OMEGA
0462 ; DISALLOWED  # CYRILLIC CAPITAL LETTER YAT
0463 ; PVALID  # CYRILLIC SMALL LETTER YAT
0464 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED E
0465 ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED E
0466 ; DISALLOWED  # CYRILLIC CAPITAL LETTER LITTLE YUS
0467 ; PVALID  # CYRILLIC SMALL LETTER LITTLE YUS
0468 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
0469 ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
046A ; DISALLOWED  # CYRILLIC CAPITAL LETTER BIG YUS
046B ; PVALID  # CYRILLIC SMALL LETTER BIG YUS
046C ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
046D ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED BIG YUS
046E ; DISALLOWED  # CYRILLIC CAPITAL LETTER KSI
046F ; PVALID  # CYRILLIC SMALL LETTER KSI
0470 ; DISALLOWED  # CYRILLIC CAPITAL LETTER PSI
0471 ; PVALID  # CYRILLIC SMALL LETTER PSI
0472 ; DISALLOWED  # CYRILLIC CAPITAL LETTER FITA
0473 ; PVALID  # CYRILLIC SMALL LETTER FITA
0474 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IZHITSA
0475 ; PVALID  # CYRILLIC SMALL LETTER IZHITSA
0476 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE
0477 ; PVALID  # CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GR
0478 ; DISALLOWED  # CYRILLIC CAPITAL LETTER UK
0479 ; PVALID  # CYRILLIC SMALL LETTER UK
047A ; DISALLOWED  # CYRILLIC CAPITAL LETTER ROUND OMEGA
047B ; PVALID  # CYRILLIC SMALL LETTER ROUND OMEGA
047C ; DISALLOWED  # CYRILLIC CAPITAL LETTER OMEGA WITH TITLO
047D ; PVALID  # CYRILLIC SMALL LETTER OMEGA WITH TITLO
047E ; DISALLOWED  # CYRILLIC CAPITAL LETTER OT
047F ; PVALID  # CYRILLIC SMALL LETTER OT
0480 ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOPPA
0481 ; PVALID  # CYRILLIC SMALL LETTER KOPPA
0482 ; DISALLOWED  # CYRILLIC THOUSANDS SIGN
0483..0487 ; PVALID  # COMBINING CYRILLIC TITLO..COMBINING CYRILLIC
0488..048A ; DISALLOWED  # COMBINING CYRILLIC HUNDRED THOUSANDS SIGN..C
048B ; PVALID  # CYRILLIC SMALL LETTER SHORT I WITH TAIL
048C ; DISALLOWED  # CYRILLIC CAPITAL LETTER SEMISOFT SIGN
048D ; PVALID  # CYRILLIC SMALL LETTER SEMISOFT SIGN
048E ; DISALLOWED  # CYRILLIC CAPITAL LETTER ER WITH TICK
048F ; PVALID  # CYRILLIC SMALL LETTER ER WITH TICK
0490 ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH UPTURN
0491 ; PVALID  # CYRILLIC SMALL LETTER GHE WITH UPTURN
0492 ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH STROKE
0493 ; PVALID  # CYRILLIC SMALL LETTER GHE WITH STROKE
0494 ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
0495 ; PVALID  # CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
0496 ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
0497 ; PVALID  # CYRILLIC SMALL LETTER ZHE WITH DESCENDER
0498 ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
0499 ; PVALID  # CYRILLIC SMALL LETTER ZE WITH DESCENDER
049A ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH DESCENDER
049B ; PVALID  # CYRILLIC SMALL LETTER KA WITH DESCENDER
049C ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH VERTICAL STR
049D ; PVALID  # CYRILLIC SMALL LETTER KA WITH VERTICAL STROK
049E ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH STROKE
049F ; PVALID  # CYRILLIC SMALL LETTER KA WITH STROKE
04A0 ; DISALLOWED  # CYRILLIC CAPITAL LETTER BASHKIR KA
04A1 ; PVALID  # CYRILLIC SMALL LETTER BASHKIR KA
04A2 ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH DESCENDER
04A3  ; PVALID       # CYRILLIC SMALL LETTER EN WITH DESCENDER
04A4  ; DISALLOWED  # CYRILLIC CAPITAL LIGATURE EN GHE
04A5  ; PVALID       # CYRILLIC SMALL LIGATURE EN GHE
04A6  ; DISALLOWED  # CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
04A7  ; PVALID       # CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
04A8  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ABKhasian HA
04A9  ; PVALID       # CYRILLIC SMALL LETTER ABKhasian HA
04AA  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB  ; PVALID       # CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC  ; DISALLOWED  # CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD  ; PVALID       # CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE  ; DISALLOWED  # CYRILLIC CAPITAL LETTER STRAIGHT U
04AF  ; PVALID       # CYRILLIC SMALL LETTER STRAIGHT U
04B0  ; DISALLOWED  # CYRILLIC CAPITAL LETTER STRAIGHT U WITH STRO
04B1  ; PVALID       # CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
04B2  ; DISALLOWED  # CYRILLIC CAPITAL LETTER HA WITH DESCENDER
04B3  ; PVALID       # CYRILLIC SMALL LETTER HA WITH DESCENDER
04B4  ; DISALLOWED  # CYRILLIC CAPITAL LIGATURE TE TSE
04B5  ; PVALID       # CYRILLIC SMALL LIGATURE TE TSE
04B6  ; DISALLOWED  # CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
04B7  ; PVALID       # CYRILLIC SMALL LETTER CHE WITH DESCENDER
04B8  ; DISALLOWED  # CYRILLIC CAPITAL LETTER CHE WITH VERTICAL ST
04B9  ; PVALID       # CYRILLIC SMALL LETTER CHE WITH VERTICAL STRO
04BA  ; DISALLOWED  # CYRILLIC CAPITAL LETTER SHHA
04BB  ; PVALID       # CYRILLIC SMALL LETTER SHHA
04BC  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ABKhasian CHE
04BD  ; PVALID       # CYRILLIC SMALL LETTER ABKhasian CHE
04BE  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ABKhasian CHE WITH D
04BF  ; PVALID       # CYRILLIC SMALL LETTER ABKhasian CHE WITH DES
04C0  ; 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  ; PVALID       # CYRILLIC SMALL LETTER EM WITH TAIL,.CYRILLIC
04D0  ; DISALLOWED  # CYRILLIC CAPITAL LETTER A WITH BREVE
04D1  ; PVALID       # CYRILLIC SMALL LETTER A WITH BREVE
04D2  ; DISALLOWED  # CYRILLIC CAPITAL LETTER A WITH DIAERESIS
04D3  ; PVALID       # CYRILLIC SMALL LETTER A WITH DIAERESIS
04D4  ; DISALLOWED  # CYRILLIC CAPITAL LIGATURE A IE
04D5 ; PVALID  # CYRILLIC SMALL LIGATURE A IE
04D6 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IE WITH BREVE
04D7 ; PVALID  # CYRILLIC SMALL LETTER IE WITH BREVE
04D8 ; DISALLOWED  # CYRILLIC CAPITAL LETTER SCHWA
04D9 ; PVALID  # CYRILLIC SMALL LETTER SCHWA
04DA ; DISALLOWED  # CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS
04DB ; PVALID  # CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS
04DC ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS
04DD ; PVALID  # CYRILLIC SMALL LETTER ZHE WITH DIAERESIS
04DE ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS
04DF ; PVALID  # CYRILLIC SMALL LETTER ZE WITH DIAERESIS
04E0 ; DISALLOWED  # CYRILLIC CAPITAL LETTER ABKHASIAN DZE
04E1 ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN DZE
04E2 ; DISALLOWED  # CYRILLIC CAPITAL LETTER I WITH MACRON
04E3 ; PVALID  # CYRILLIC SMALL LETTER I WITH MACRON
04E4 ; DISALLOWED  # CYRILLIC CAPITAL LETTER I WITH DIAERESIS
04E5 ; PVALID  # CYRILLIC SMALL LETTER I WITH DIAERESIS
04E6 ; DISALLOWED  # CYRILLIC CAPITAL LETTER O WITH DIAERESIS
04E7 ; PVALID  # CYRILLIC SMALL LETTER O WITH DIAERESIS
04E8 ; DISALLOWED  # CYRILLIC CAPITAL LETTER BARRED O
04E9 ; PVALID  # CYRILLIC SMALL LETTER BARRED O
04EA ; DISALLOWED  # CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS
04EB ; PVALID  # CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS
04EC ; DISALLOWED  # CYRILLIC CAPITAL LETTER E WITH DIAERESIS
04ED ; PVALID  # CYRILLIC SMALL LETTER E WITH DIAERESIS
04EE ; DISALLOWED  # CYRILLIC CAPITAL LETTER U WITH MACRON
04EF ; PVALID  # CYRILLIC SMALL LETTER U WITH MACRON
04F0 ; DISALLOWED  # CYRILLIC CAPITAL LETTER U WITH DIAERESIS
04F1 ; PVALID  # CYRILLIC SMALL LETTER U WITH DIAERESIS
04F2 ; DISALLOWED  # CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
04F3 ; PVALID  # CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
04F4 ; DISALLOWED  # CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS
04F5 ; PVALID  # CYRILLIC SMALL LETTER CHE WITH DIAERESIS
04F6 ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
04F7 ; PVALID  # CYRILLIC SMALL LETTER GHE WITH DESCENDER
04F8 ; DISALLOWED  # CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS
04F9 ; PVALID  # CYRILLIC SMALL LETTER YERU WITH DIAERESIS
04FA ; DISALLOWED  # CYRILLIC CAPITAL LETTER GHE WITH STROKE AND
04FB ; PVALID  # CYRILLIC SMALL LETTER GHE WITH STROKE AND HO
04FC ; DISALLOWED  # CYRILLIC CAPITAL LETTER HA WITH HOOK
04FD ; PVALID  # CYRILLIC SMALL LETTER HA WITH HOOK
04FE ; DISALLOWED  # CYRILLIC CAPITAL LETTER HA WITH STROKE
04FF ; PVALID  # CYRILLIC SMALL LETTER HA WITH STROKE
0500 ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI DE
0501 ; PVALID  # CYRILLIC SMALL LETTER KOMI DE
0502 ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI DJE
0503 ; PVALID  # CYRILLIC SMALL LETTER KOMI DJE
0504 ; DISALLOWED  # CYRILLIC CAPITAL LETTER KOMI ZJE
0505 ; PVALID # CYRILLIC SMALL LETTER KOMI ZJE
0506 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DZJE
0507 ; PVALID # CYRILLIC SMALL LETTER KOMI DZJE
0508 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI LJE
0509 ; PVALID # CYRILLIC SMALL LETTER KOMI LJE
050A ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI NJE
050B ; PVALID # CYRILLIC SMALL LETTER KOMI NJE
050C ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI SJE
050D ; PVALID # CYRILLIC SMALL LETTER KOMI SJE
050E ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI TJE
050F ; PVALID # CYRILLIC SMALL LETTER KOMI TJE
0510 ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED ZE
0511 ; PVALID # CYRILLIC SMALL LETTER REVERSED ZE
0512 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH HOOK
0513 ; PVALID # CYRILLIC SMALL LETTER EL WITH HOOK
0514 ; DISALLOWED # CYRILLIC CAPITAL LETTER LHA
0515 ; PVALID # CYRILLIC SMALL LETTER LHA
0516 ; DISALLOWED # CYRILLIC CAPITAL LETTER RHA
0517 ; PVALID # CYRILLIC SMALL LETTER RHA
0518 ; DISALLOWED # CYRILLIC CAPITAL LETTER YAE
0519 ; PVALID # CYRILLIC SMALL LETTER YAE
051A ; DISALLOWED # CYRILLIC CAPITAL LETTER QA
051B ; PVALID # CYRILLIC SMALL LETTER QA
051C ; DISALLOWED # CYRILLIC CAPITAL LETTER WE
051D ; PVALID # CYRILLIC SMALL LETTER WE
051E ; DISALLOWED # CYRILLIC CAPITAL LETTER ALEUT KA
051F ; PVALID # CYRILLIC SMALL LETTER ALEUT KA
0520 ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521 ; PVALID # CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK
0522 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523 ; PVALID # CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK
0524 ; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH DESCENDER
0525 ; PVALID # CYRILLIC SMALL LETTER PE WITH DESCENDER
0526 ; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527 ; PVALID # CYRILLIC SMALL LETTER SHHA WITH DESCENDER
0528 ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK
0529 ; PVALID # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
052A ; DISALLOWED # CYRILLIC CAPITAL LETTER DZZHE
052B ; PVALID # CYRILLIC SMALL LETTER DZZHE
052C ; DISALLOWED # CYRILLIC CAPITAL LETTER DCHE
052D ; PVALID # CYRILLIC SMALL LETTER DCHE
052E ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH DESCENDER
052F ; PVALID # CYRILLIC SMALL LETTER EL WITH DESCENDER
0530 ; UNASSIGNED # <reserved>
0531..0556 ; DISALLOWED # ARMENIAN CAPITAL LETTER AYB..ARMENIAN CAPITAL
0557..0558 ; UNASSIGNED # <reserved>..<reserved>
0559 ; PVALID # ARMENIAN MODIFY LETTER LEFT HALF RING
055A..055F ; DISALLOWED # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION M
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<td>DISALLOWED</td>
<td>RIGHT-FACING ARMENIAN ETERNITY SIGN..ARMENIA</td>
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0F0C..0F17 ; DISALLOWED # TIBETAN MARK DELIMITER TSHEG BSTAR..TIBETAN
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0F36 ; DISALLOWED # TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN
0F37 ; PVALID # TIBETAN MARK NGAS BZUNG SGOR RTAGS
0F38 ; DISALLOWED # TIBETAN MARK CHE MGO
0F39 ; PVALID # TIBETAN MARK TSA -PHRU
0F3A..0F3D ; DISALLOWED # TIBETAN MARK GUG RTAGS GYON..TIBETAN MARK AN
0F3E..0F42 ; PVALID # TIBETAN SIGN YAR TSHES..TIBETAN LETTER GA
0F43 ; DISALLOWED # TIBETAN LETTER GHA
0F44..0F47 ; PVALID # TIBETAN LETTER NGA..TIBETAN LETTER JA
0F48 ; UNASSIGNED # <reserved>
0F49..0F4C ; PVALID # TIBETAN LETTER NYA..TIBETAN LETTER DDA
0F4D ; DISALLOWED # TIBETAN LETTER DDHA
0F4E..0F51 ; PVALID # TIBETAN LETTER NNA..TIBETAN LETTER DA
0F52 ; DISALLOWED # TIBETAN LETTER DHA
0F53..0F56 ; PVALID # TIBETAN LETTER NA..TIBETAN LETTER BA
0F57 ; DISALLOWED # TIBETAN LETTER BHA
0F58..0F5B ; PVALID # TIBETAN LETTER MA..TIBETAN LETTER DZA
0F5C ; DISALLOWED # TIBETAN LETTER DZA
0F5D..0F68 ; PVALID # TIBETAN LETTER WA..TIBETAN LETTER A
0F69 ; DISALLOWED # TIBETAN LETTER KSSA
0F6A..0F6C ; PVALID # TIBETAN LETTER FIXED-FORM RA..TIBETAN LETTER
0F6D..0F70 ; UNASSIGNED # <reserved>..<reserved>
0F71..0F72 ; PVALID # TIBETAN VOWEL SIGN AA..TIBETAN VOWEL SIGN I
0F73 ; DISALLOWED # TIBETAN VOWEL SIGN II
0F74 ; PVALID # TIBETAN VOWEL SIGN U
0F75..0F79 ; DISALLOWED # TIBETAN VOWEL SIGN UU..TIBETAN VOWEL SIGN VO
0F7A..0F80 ; PVALID # TIBETAN VOWEL SIGN E..TIBETAN VOWEL SIGN REV
0F81 ; DISALLOWED # TIBETAN VOWEL SIGN REVERSED II
0F82..0F84 ; PVALID # TIBETAN SIGN NYI ZLA NAA DA..TIBETAN MARK HA
0F85 ; DISALLOWED # TIBETAN MARK PALUTA
0F86..0F92 ; PVALID # TIBETAN SIGN LCI RTAGS..TIBETAN SUBJOINED LE
0F93 ; DISALLOWED # TIBETAN SUBJOINED LETTER GHA
0F94..0F97 ; PVALID # TIBETAN SUBJOINED LETTER NGA..TIBETAN SUBJOI
0F98 ; UNASSIGNED # <reserved>
0F99..0F9C ; PVALID # TIBETAN SUBJOINED LETTER NYA..TIBETAN SUBJOI
0F9D ; DISALLOWED # TIBETAN SUBJOINED LETTER DDHA
0FA0..0FA1 ; PVALID # TIBETAN SUBJOINED LETTER NNA..TIBETAN SUBJOI
0FA2 ; DISALLOWED # TIBETAN SUBJOINED LETTER DHA
0FA3..0FA6 ; PVALID # TIBETAN SUBJOINED LETTER NA..TIBETAN SUBJOIN
0FA7 ; DISALLOWED # TIBETAN SUBJOINED LETTER BHA
0FA8..0FAB ; PVALID # TIBETAN SUBJOINED LETTER MA..TIBETAN SUBJOIN
0FAC ; DISALLOWED # TIBETAN SUBJOINED LETTER DZA
0FAD..0FB8 ; PVALID # TIBETAN SUBJOINED LETTER WA..TIBETAN SUBJOIN
0FBD ; DISALLOWED # TIBETAN SUBJOINED LETTER KSSA
0FBA..0FBC ; PVALID # TIBETAN SUBJOINED LETTER FIXED-FORM WA..TIBETAN SUBJOIN
0FBD ; UNASSIGNED # <reserved>
0FBE..0FC5 ; DISALLOWED # TIBETAN SYMBOL RDO RJE
0FC6 ; PVALID # TIBETAN SYMBO 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..104F ; PVALID # MYANMAR LETTER KA..MYANMAR DIGIT NINE
104A..104F ; DISALLOWED # MYANMAR SIGN LITTLE SECTION..MYANMAR SYMBOL
1050..109D ; PVALID # MYANMAR LETTER SHA..MYANMAR VOWEL SIGN AITON
109E..10C5 ; DISALLOWED # MYANMAR SYMBOL SHAN ONE..GEORGIAN CAPITAL LE
10C6 ; UNASSIGNED # <reserved>
10C7 ; DISALLOWED # GEORGIAN CAPITAL LETTER YN
10CA..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 # GEORGIAN PARAGRAPH SEPARATOR..MODIFIER LETTE
10FD..10FF ; PVALID # GEORGIAN LETTER AEN..GEORGIAN LETTER LABIAL
1100..11FF ; DISALLOWED # HANGUL CHOSEONG KIYEOK..HANGUL JONGSEONG SSA
1200..124F ; PVALID # ETHIOPIAN SYLLABLE HA..ETHIOPIAN SYLLABLE QWA
1249 ; UNASSIGNED # <reserved>
124A..124F ; PVALID # ETHIOPIAN SYLLABLE QWI..ETHIOPIAN SYLLABLE QWE
1250..1256 ; PVALID # ETHIOPIAN SYLLABLE QWA..ETHIOPIAN SYLLABLE QHO
1257 ; UNASSIGNED # <reserved>
1258 ; PVALID # ETHIOPIAN SYLLABLE QHWA
1259 ; UNASSIGNED # <reserved>
125A..125F ; PVALID # ETHIOPIAN SYLLABLE QWI..ETHIOPIAN SYLLABLE QH
1260..1288 ; PVALID # ETHIOPIAN SYLLABLE BA..ETHIOPIAN SYLLABLE XWA
1289 ; UNASSIGNED # <reserved>
128A..128F ; PVALID # ETHIOPIAN SYLLABLE KWI..ETHIOPIAN SYLLABLE KWE
1290..12BF ; PVALID # ETHIOPIAN SYLLABLE NA..ETHIOPIAN SYLLABLE KWA
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12B2..12BF ; PVALID # ETHIOPIAN SYLLABLE KWI..ETHIOPIAN SYLLABLE KWE
12B6..12BF ; UNASSIGNED # <reserved>..<reserved>
12B8..12BF ; PVALID # ETHIOPIAN SYLLABLE KXA..ETHIOPIAN SYLLABLE KXO
12BF ; UNASSIGNED # <reserved>
12C0 ; PVALID # ETHIOPIAN SYLLABLE KXWA
12C1 ; UNASSIGNED # <reserved>
12C2..12C5  ; PVALID  # ETHIOPIC SYLLABLE KXWI..ETHIOPIC SYLLABLE KX
12C6..12C7  ; UNASSIGNED  # <reserved>..<reserved>
12C8..12D6  ; PVALID  # ETHIOPIC SYLLABLE WA..ETHIOPIC SYLLABLE PHAR
12D7  ; UNASSIGNED  # <reserved>
12D8..1310  ; PVALID  # ETHIOPIC SYLLABLE ZA..ETHIOPIC SYLLABLE GWA
1311  ; UNASSIGNED  # <reserved>
1312..1315  ; PVALID  # ETHIOPIC SYLLABLE GWI..ETHIOPIC SYLLABLE GWE
1316..1317  ; UNASSIGNED  # <reserved>..<reserved>
1318..135A  ; PVALID  # ETHIOPIC SYLLABLE GGA..ETHIOPIC SYLLABLE FYA
135B..135C  ; UNASSIGNED  # <reserved>..<reserved>
135D..135F  ; PVALID  # ETHIOPIC COMBINING GEMINATION AND VOWEL LENG
1360..138F  ; PVALID  # ETHIOPIC SYLLABLE SEBATBEIT MWA..ETHIOPIC SYLLABLE FYA
1390..139F  ; DISALLOWED  # ETHIOPIC SECTION MARK..ETHIOPIC NUMBER TEN T
13A0..13F5  ; PVALID  # CHEROKEE LETTER A..CHEROKEE LETTER MV
13F6..13F7  ; UNASSIGNED  # <reserved>..<reserved>
13F8..13F9  ; DISALLOWED  # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET
13FE..13FF  ; UNASSIGNED  # <reserved>..<reserved>
1400  ; DISALLOWED  # CANADIAN SYLLABICS HYPHEN
1401..166C  ; PVALID  # CANADIAN SYLLABICS E..CANADIAN SYLLABICS CAR
166D..166E  ; DISALLOWED  # CANADIAN SYLLABICS CHI SIGN..CANADIAN SYLLAB
166F..167F  ; PVALID  # CANADIAN SYLLABICS QA..CANADIAN SYLLABICS B
1680  ; DISALLOWED  # OGHAM SPACE MARK
1681..169A  ; PVALID  # OGHAM LETTER BEITH..OGHAM LETTER PEITH
169B..169C  ; DISALLOWED  # OGHAM FEATHER MARK..OGHAM REVERSED FEATHER M
169D..169F  ; UNASSIGNED  # <reserved>..<reserved>
16A0..16EA  ; PVALID  # RUNIC LETTER FEHU FEOH FE F..RUNIC LETTER X
16EB..16F0  ; DISALLOWED  # RUNIC SINGLE PUNCTUATION..RUNIC BELGTHOR SYM
16F1..16F8  ; PVALID  # RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A
16F9..16FF  ; UNASSIGNED  # <reserved>..<reserved>
1700..170C  ; PVALID  # TAGALOG LETTER A..TAGALOG LETTER YA
170D  ; UNASSIGNED  # <reserved>
170E..1714  ; PVALID  # TAGALOG LETTER LA..TAGALOG SIGN VIRAMA
1715..171F  ; UNASSIGNED  # <reserved>..<reserved>
1720..1734  ; PVALID  # HANUNOO LETTER A..HANUNOO SIGN PAMUPOD
1735..1736  ; DISALLOWED  # PHILIPPINE SINGLE PUNCTUATION..PHILIPPINE DO
1737..173F  ; UNASSIGNED  # <reserved>..<reserved>
1740..1753  ; PVALID  # BUHID LETTER A..BUHID VOWEL SIGN U
1754..175F  ; UNASSIGNED  # <reserved>..<reserved>
1760..176C  ; PVALID  # TAGBANWA LETTER A..TAGBANWA LETTER YA
176D  ; UNASSIGNED  # <reserved>
176E..1770  ; PVALID  # TAGBANWA LETTER LA..TAGBANWA LETTER SA
1771  ; UNASSIGNED  # <reserved>
1772..1773  ; PVALID  # TAGBANWA VOWEL SIGN I..TAGBANWA VOWEL SIGN U
1774..177F  ; UNASSIGNED  # <reserved>..<reserved>
1780..17B3  ; PVALID  # KHMER LETTER KA..KHMER INDEPENDENT VOWEL QAU
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<td># KHMER VOWEL INHERENT AQ..KHMER VOWEL INHERENT</td>
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<td># LIMBU VOWEL-CARRIER LETTER..LIMBU LETTER TRA</td>
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<td># LIMBU VOWEL SIGN A..LIMBU SUBJOINED LETTER W</td>
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<td>PVALID</td>
<td># LIMBU SMALL LETTER KA..LIMBU SIGN SA-I</td>
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<td># LIMBU DIGIT ZERO..TAI LE LETTER AI</td>
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<td># NEW TAI LUE VOWEL SIGN VOWEL SHORTENER..NEW TAI LUE VOWEL SHORTENER</td>
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<td># TAI THAM LETTER HIGH KA..TAI THAM CONSONANT</td>
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<td># TAI THAM SIGN SAKOT..TAI THAM SIGN KHUEN-LUE</td>
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1A7F..1A89 : PVALID # TAI THAM COMBINING CRYPTOGRAMMIC DOT..TAI TH
1A8A..1A8F : UNASSIGNED # <reserved>..<reserved>
1A90..1A99 : PVALID # TAI THAM DIGIT ZERO..TAI THAM DIGI
1A9A..1A9F : UNASSIGNED # <reserved>..<reserved>
1AA0..1AA6 : DISALLOWED # TAI THAM SIGN WIANG..TAI THAM SIGN REVERSED
1AA7 : PVALID # TAI THAM SIGN MAI YAMOK
1AA8..1AAD : DISALLOWED # TAI THAM SIGN KAAN..TAI THAM SIGN CAANG
1AAE..1AFAF : UNASSIGNED # <reserved>..<reserved>
1AB0..1ABD : PVALID # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
1ABE : DISALLOWED # COMBINING PARENTHESES OVERLAY
1AAB..1AFF : UNASSIGNED # <reserved>..<reserved>
1B00..1B4B : PVALID # BALINESE SIGN ULU RICEM..BALINESE LETTER ASY
1B4C..1B4F : UNASSIGNED # <reserved>..<reserved>
1B50..1B59 : PVALID # BALINESE DIGIT ZERO..BALINESE DIGIT NINE
1B5A..1B6A : DISALLOWED # BALINESE PANTI..BALINESE MUSICAL SYMBOL DANG
1B6B..1B6F : PVALID # BALINESE MUSICAL SYMBOL COMBINING TEGEH..BAL
1B74..1B7C : DISALLOWED # BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG.
1B7D..1B7F : UNASSIGNED # <reserved>..<reserved>
1B80..1B83 : PVALID # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
1BF4..1BFF : UNASSIGNED # <reserved>..<reserved>
1BFC..1BFD : DISALLOWED # BATAK Symbol BINDU NA METEK..BATAK SYMBOL BI
1C00..1C3F : PVALID # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C38..1C3F : UNASSIGNED # <reserved>..<reserved>
1C3B..1C3F : DISALLOWED # LEPCHA PUNCTUATION TA-ROL..LEPCHA PUNCTUATION
1C40..1C49 : PVALID # LEPCHA DIGIT ZERO..LEPCHA DIGIT NINE
1C4A..1C4C : UNASSIGNED # <reserved>..<reserved>
1C4D..1C7F : PVALID # LEPCHA LETTER TTA..OL CHIKI AHAD
1C7E..1C88 : DISALLOWED # OL CHIKI PUNCTUATION MUCAAD..CYRILLIC SMALL
1C89..1C8F : UNASSIGNED # <reserved>..<reserved>
1C90..1CBB : DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBB..1CBC : UNASSIGNED # <reserved>..<reserved>
1CBD..1CCF : DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CC8..1CCF : UNASSIGNED # <reserved>..<reserved>
1CD0..1C7D : PVALID # VEDIC TONE KARSHANA..VEDIC TONE PRENKHA
1CD3..1C7D : DISALLOWED # VEDIC SIGN NIHSHVASA
1CD4..1CF9 : PVALID # VEDIC SIGN YAJURVEDIC MIDLINE SVARITA..VEDIC
1CFA..1CFF : UNASSIGNED # <reserved>..<reserved>
1D00..1D2B : PVALID # LATIN LETTER SMALL CAPITAL A..CYRILLIC LETTE
1D2C..1D2E : DISALLOWED # MODIFIER LETTER CAPITAL A..MODIFIER LETTER C
1D2F : PVALID # MODIFIER LETTER CAPITAL BARRED B
1D30..1D3A : DISALLOWED # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B : PVALID # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D : DISALLOWED # MODIFIER LETTER CAPITAL O..MODIFIER LETTER S
1D4E : PVALID # MODIFIER LETTER SMALL TURNE B C
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 # MODIFYER 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
1E00 ; DISALLOWED # LATIN CAPITAL LETTER A WITH RING BELOW
1E01 ; PVALID # LATIN SMALL LETTER A WITH RING BELOW
1E02 ; DISALLOWED # LATIN CAPITAL LETTER B WITH DOT ABOVE
1E03 ; PVALID # LATIN SMALL LETTER B WITH DOT ABOVE
1E04 ; DISALLOWED # LATIN CAPITAL LETTER B WITH DOT BELOW
1E05 ; PVALID # LATIN SMALL LETTER B WITH DOT BELOW
1E06 ; DISALLOWED # LATIN CAPITAL LETTER B WITH LINE BELOW
1E07 ; PVALID # LATIN SMALL LETTER B WITH LINE BELOW
1E08 ; DISALLOWED # LATIN CAPITAL LETTER C WITH CEDILLA AND 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
1E0C ; DISALLOWED # LATIN CAPITAL LETTER D WITH DOT BELOW
1E0D ; PVALID # LATIN SMALL LETTER D WITH DOT BELOW
1E0E ; DISALLOWED # LATIN CAPITAL LETTER D WITH LINE BELOW
1E0F ; PVALID # LATIN SMALL LETTER D WITH LINE BELOW
1E10 ; DISALLOWED # LATIN CAPITAL LETTER D WITH CEDILLA
1E11 ; PVALID # LATIN SMALL LETTER D WITH CEDILLA
1E12 ; DISALLOWED # LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW
1E13 ; PVALID # LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW
1E14 ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON AND GRAVE
1E15 ; PVALID # LATIN SMALL LETTER E WITH MACRON AND GRAVE
1E16 ; DISALLOWED # LATIN CAPITAL LETTER E WITH MACRON AND ACUTE
1E17 ; PVALID # LATIN SMALL LETTER E WITH MACRON AND ACUTE
1E18 ; DISALLOWED # LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW
1E19 ; PVALID # LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW
1E1A ; DISALLOWED # LATIN CAPITAL LETTER E WITH TILDE BELOW
1E1B ; PVALID # LATIN SMALL LETTER E WITH TILDE BELOW
1E1C ; DISALLOWED # LATIN CAPITAL LETTER E WITH CEDILLA AND BREV
1E1D ; PVALID # LATIN SMALL LETTER E WITH CEDILLA AND BREVE
1E1E ; DISALLOWED # LATIN CAPITAL LETTER F WITH DOT ABOVE
1E1F ; PVALID # LATIN SMALL LETTER F WITH DOT ABOVE
1E20 ; DISALLOWED # LATIN CAPITAL LETTER G WITH MACRON
1E21 ; PVALID # LATIN SMALL LETTER G WITH MACRON
1E22 ; DISALLOWED # LATIN CAPITAL LETTER H WITH DOT ABOVE
1E23 ; PVALID # LATIN SMALL LETTER H WITH DOT ABOVE
1E24 ; DISALLOWED # LATIN CAPITAL LETTER H WITH DOT BELOW
1E25 ; PVALID # LATIN SMALL LETTER H WITH DOT BELOW
1E26 ; DISALLOWED # LATIN CAPITAL LETTER H WITH DIAERESIS
1E27 ; PVALID # LATIN SMALL LETTER H WITH DIAERESIS
1E28 ; DISALLOWED # LATIN CAPITAL LETTER H WITH CEDILLA
1E29 ; PVALID # LATIN SMALL LETTER H WITH CEDILLA
1E2A ; DISALLOWED # LATIN CAPITAL LETTER H WITH BREVE BELOW
1E2B  ; PVALID  # LATIN SMALL LETTER H WITH BREVE BELOW
1E2C  ; DISALLOWED  # LATIN CAPITAL LETTER I WITH TILDE BELOW
1E2D  ; PVALID  # LATIN SMALL LETTER I WITH TILDE BELOW
1E2E  ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DIAERESIS AND AC
1E2F  ; PVALID  # LATIN SMALL LETTER I WITH DIAERESIS AND ACUT
1E30  ; DISALLOWED  # LATIN CAPITAL LETTER K WITH ACUTE
1E31  ; PVALID  # LATIN SMALL LETTER K WITH ACUTE
1E32  ; DISALLOWED  # LATIN CAPITAL LETTER K WITH DOT BELOW
1E33  ; PVALID  # LATIN SMALL LETTER K WITH DOT BELOW
1E34  ; DISALLOWED  # LATIN CAPITAL LETTER K WITH LINE BELOW
1E35  ; PVALID  # LATIN SMALL LETTER K WITH LINE BELOW
1E36  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOT BELOW
1E37  ; PVALID  # LATIN SMALL LETTER L WITH DOT BELOW
1E38  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOT BELOW AND MACR
1E39  ; PVALID  # LATIN SMALL LETTER L WITH LINE BELOW
1E3A  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW
1E3B  ; PVALID  # LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW
1E3C  ; DISALLOWED  # LATIN CAPITAL LETTER M WITH ACUTE
1E3D  ; PVALID  # LATIN SMALL LETTER M WITH ACUTE
1E3E  ; DISALLOWED  # LATIN CAPITAL LETTER M WITH DOT ABOVE
1E3F  ; PVALID  # LATIN SMALL LETTER M WITH DOT ABOVE
1E40  ; DISALLOWED  # LATIN CAPITAL LETTER M WITH DOT BELOW
1E41  ; PVALID  # LATIN SMALL LETTER M WITH DOT BELOW
1E42  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH DOT ABOVE
1E43  ; PVALID  # LATIN SMALL LETTER N WITH DOT ABOVE
1E44  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH DOT BELOW
1E45  ; PVALID  # LATIN SMALL LETTER N WITH DOT BELOW
1E46  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH LINE BELOW
1E47  ; PVALID  # LATIN SMALL LETTER N WITH LINE BELOW
1E48  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW
1E49  ; PVALID  # LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW
1E4A  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH TILDE AND ACUTE
1E4B  ; PVALID  # LATIN SMALL LETTER O WITH TILDE AND ACUTE
1E4C  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH TILDE AND DIAER
1E4D  ; PVALID  # LATIN SMALL LETTER O WITH TILDE AND DIAERESI
1E4E  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MACRON AND GRAVE
1E4F  ; PVALID  # LATIN SMALL LETTER O WITH MACRON AND GRAVE
1E50  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MACRON AND ACUTE
1E51  ; PVALID  # LATIN SMALL LETTER O WITH MACRON AND ACUTE
1E52  ; DISALLOWED  # LATIN CAPITAL LETTER P WITH ACUTE
1E53  ; PVALID  # LATIN SMALL LETTER P WITH ACUTE
1E54  ; DISALLOWED  # LATIN CAPITAL LETTER P WITH DOT ABOVE
1E55  ; PVALID  # LATIN SMALL LETTER P WITH DOT ABOVE
1E56  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOT ABOVE
1E57  ; PVALID  # LATIN SMALL LETTER R WITH DOT ABOVE
1E58  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOT BELOW
1E59  ; PVALID  # LATIN SMALL LETTER R WITH DOT BELOW
1E5A  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOT BELOW
1E5B        ; PVALID      # LATIN SMALL LETTER R WITH DOT BELOW
1E5C        ; DISALLOWED  # LATIN CAPITAL LETTER R WITH DOT BELOW AND MA
1E5D        ; PVALID      # LATIN SMALL LETTER R WITH DOT BELOW AND MACR
1E5E        ; DISALLOWED  # LATIN CAPITAL LETTER R WITH LINE BELOW
1E5F        ; PVALID      # LATIN SMALL LETTER R WITH LINE BELOW
1E60        ; DISALLOWED  # LATIN CAPITAL LETTER S WITH DOT ABOVE
1E61        ; PVALID      # LATIN SMALL LETTER S WITH DOT ABOVE
1E62        ; DISALLOWED  # LATIN CAPITAL LETTER S WITH DOT BELOW
1E63        ; PVALID      # LATIN SMALL LETTER S WITH DOT BELOW
1E64        ; DISALLOWED  # LATIN CAPITAL LETTER S WITH ACUTE AND DOT AB
1E65        ; PVALID      # LATIN SMALL LETTER S WITH ACUTE AND DOT ABOV
1E66        ; DISALLOWED  # LATIN CAPITAL LETTER S WITH CARON AND DOT AB
1E67        ; PVALID      # LATIN SMALL LETTER S WITH CARON AND DOT ABOV
1E68        ; DISALLOWED  # LATIN CAPITAL LETTER S WITH DOT BELOW AND DO
1E69        ; PVALID      # LATIN SMALL LETTER S WITH DOT BELOW AND DOT
1E6A        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH DOT ABOVE
1E6B        ; PVALID      # LATIN SMALL LETTER T WITH DOT ABOVE
1E6C        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH DOT BELOW
1E6D        ; PVALID      # LATIN SMALL LETTER T WITH DOT BELOW
1E6E        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH LINE BELOW
1E6F        ; PVALID      # LATIN SMALL LETTER T WITH LINE BELOW
1E70        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW
1E71        ; PVALID      # LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW
1E72        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS BELOW
1E73        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS BELOW
1E74        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH TILDE BELOW
1E75        ; PVALID      # LATIN SMALL LETTER U WITH TILDE BELOW
1E76        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW
1E77        ; PVALID      # LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW
1E78        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH TILDE AND ACUTE
1E79        ; PVALID      # LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E7A        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH MACRON AND DIAER
1E7B        ; PVALID      # LATIN SMALL LETTER U WITH MACRON AND DIAERES
1E7C        ; DISALLOWED  # LATIN CAPITAL LETTER V WITH TILDE
1E7D        ; PVALID      # LATIN SMALL LETTER V WITH TILDE
1E7E        ; DISALLOWED  # LATIN CAPITAL LETTER V WITH DOT BELOW
1E7F        ; PVALID      # LATIN SMALL LETTER V WITH DOT BELOW
1E80        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH GRAVE
1E81        ; PVALID      # LATIN SMALL LETTER W WITH GRAVE
1E82        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH ACUTE
1E83        ; PVALID      # LATIN SMALL LETTER W WITH ACUTE
1E84        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH DIAERESIS
1E85        ; PVALID      # LATIN SMALL LETTER W WITH DIAERESIS
1E86        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH DOT ABOVE
1E87        ; PVALID      # LATIN SMALL LETTER W WITH DOT ABOVE
1E88        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH DOT BELOW
1E89        ; PVALID      # LATIN SMALL LETTER W WITH DOT BELOW
1E8A        ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DOT ABOVE
1E8B  ; PVALID  # LATIN SMALL LETTER X WITH DOT ABOVE
1E8C  ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DIAERESIS
1E8D  ; PVALID  # LATIN SMALL LETTER X WITH DIAERESIS
1E8E  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E8F  ; PVALID  # LATIN SMALL LETTER Y WITH DOT ABOVE
1E90  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
1E91  ; PVALID  # LATIN SMALL LETTER Z WITH CIRCUMFLEX
1E92  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DOT BELOW
1E93  ; PVALID  # LATIN SMALL LETTER Z WITH DOT BELOW
1E94  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH LINE BELOW
1E95..1E99  ; PVALID  # LATIN SMALL LETTER Z WITH LINE BELOW..LATIN
1E9A..1E9B  ; DISALLOWED  # LATIN SMALL LETTER A WITH RIGHT HALF RING..L
1E9C..1E9D  ; PVALID  # LATIN SMALL LETTER LONG S WITH DIAGONAL STRO
1E9E  ; DISALLOWED  # LATIN CAPITAL LETTER SHARP S
1E9F  ; PVALID  # LATIN SMALL LETTER DELTA
1EA0  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT BELOW
1EA1  ; PVALID  # LATIN SMALL LETTER A WITH DOT BELOW
1EA2  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH HOOK ABOVE
1EA3  ; PVALID  # LATIN SMALL LETTER A WITH HOOK ABOVE
1EA4  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND A
1EA5  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACU
1EA6  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND G
1EA7  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRA
1EA8  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND H
1EA9  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOO
1EAA  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND T
1EAB  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND TIL
1EAC  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND D
1EAD  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT
1EAE  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
1EAF  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND ACUTE
1EB0  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
1EB1  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND GRAVE
1EB2  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND HOOK A
1EB3  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND HOOK ABO
1EB4  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND TILDE
1EB5  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND TILDE
1EB6  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND DOT BELOW
1EB7  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND DOT BELOW
1EB8  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOT BELOW
1EB9  ; PVALID  # LATIN SMALL LETTER E WITH DOT BELOW
1EBA  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH HOOK ABOVE
1EBB  ; PVALID  # LATIN SMALL LETTER E WITH HOOK ABOVE
1EBC  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE
1EBD  ; PVALID  # LATIN SMALL LETTER E WITH TILDE
1EBE  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND A
1EBF  ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACU
1EC0  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND G
1EC1 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRA
1EC2 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND H
1EC3 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOO
1EC4 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND T
1EC5 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND TIL
1EC6 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND D
1EC7 ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT
1EC8 ; DISALLOWED  # LATIN CAPITAL LETTER I WITH HOOK ABOVE
1EC9 ; PVALID  # LATIN SMALL LETTER I WITH HOOK ABOVE
1ECA ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DOT BELOW
1ECB ; PVALID  # LATIN SMALL LETTER I WITH DOT BELOW
1ECC ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT BELOW
1ECD ; PVALID  # LATIN SMALL LETTER O WITH DOT BELOW
1ECE ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HOOK ABOVE
1ECF ; PVALID  # LATIN SMALL LETTER O WITH HOOK ABOVE
1ED0 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND A
1ED1 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACU
1ED2 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND G
1ED3 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRA
1ED4 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND H
1ED5 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOO
1ED6 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND T
1ED7 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND TIL
1ED8 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND D
1ED9 ; PVALID  # LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT
1EDA ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND ACUTE
1EDB ; PVALID  # LATIN SMALL LETTER O WITH HORN AND ACUTE
1ECD ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND GRAVE
1EDE ; PVALID  # LATIN SMALL LETTER O WITH HORN AND GRAVE
1EDF ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND HOOK AB
1EE0 ; PVALID  # LATIN SMALL LETTER O WITH HORN AND HOOK ABOV
1EE1 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND TILDE
1EE2 ; PVALID  # LATIN SMALL LETTER O WITH HORN AND TILDE
1EE3 ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND DOT BEL
1EE4 ; PVALID  # LATIN SMALL LETTER O WITH HORN AND DOT BELOW
1EE5 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DOT BELOW
1EE6 ; PVALID  # LATIN SMALL LETTER U WITH DOT BELOW
1EE7 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HOOK ABOVE
1EE8 ; PVALID  # LATIN SMALL LETTER U WITH HOOK ABOVE
1EE9 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND ACUTE
1EAA ; PVALID  # LATIN SMALL LETTER U WITH HORN AND ACUTE
1EEB ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND GRAVE
1EEC ; PVALID  # LATIN SMALL LETTER U WITH HORN AND GRAVE
1EEE ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND TILDE
1EEF ; PVALID  # LATIN SMALL LETTER U WITH HORN AND TILDE
1EF0 ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HORN AND DOT BEL
1EF1  ; PVALID  # LATIN SMALL LETTER U WITH HORN AND DOT BELOW
1EF2  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH GRAVE
1EF3  ; PVALID  # LATIN SMALL LETTER Y WITH GRAVE
1EF4  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH DOT BELOW
1EF5  ; PVALID  # LATIN SMALL LETTER Y WITH DOT BELOW
1EF6  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH HOOK ABOVE
1EF7  ; PVALID  # LATIN SMALL LETTER Y WITH HOOK ABOVE
1EF8  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH TILDE
1EF9  ; PVALID  # LATIN SMALL LETTER Y WITH TILDE
1EFA  ; DISALLOWED # LATIN CAPITAL LETTER MIDDLE-WELSH LL
1EFB  ; PVALID  # LATIN SMALL LETTER MIDDLE-WELSH LL
1EFC  ; DISALLOWED # LATIN CAPITAL LETTER MIDDLE-WELSH V
1EFD  ; PVALID  # LATIN SMALL LETTER MIDDLE-WELSH V
1EEF  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH LOOP
1EFF..1F07  ; PVALID  # LATIN SMALL LETTER Y WITH LOOP..GREEK SMALL
1F08..1F0F  ; DISALLOWED # GREEK CAPITAL LETTER ALPHA WITH PSILI..GREEK
1F10..1F15  ; PVALID  # GREEK SMALL LETTER EPSILON WITH PSILI..GREEK
1F16..1F17  ; UNASSIGNED # <reserved>..<reserved>
1F18..1F1D  ; DISALLOWED # GREEK CAPITAL LETTER EPSILON WITH PSILI..GREEK
1F1E..1F1F  ; UNASSIGNED # <reserved>..<reserved>
1F20..1F27  ; PVALID  # GREEK SMALL LETTER ETA WITH PSILI..GREEK
1F28..1F2F  ; DISALLOWED # GREEK CAPITAL LETTER ETA WITH PSILI..GREEK C
1F30..1F37  ; PVALID  # GREEK SMALL LETTER IOTA WITH PSILI..GREEK
1F38..1F3F  ; DISALLOWED # GREEK CAPITAL LETTER IOTA WITH PSILI..GREEK
1F40..1F45  ; PVALID  # GREEK SMALL LETTER OMICRON WITH PSILI..GREEK
1F46..1F47  ; UNASSIGNED # <reserved>..<reserved>
1F48..1F4D  ; DISALLOWED # GREEK CAPITAL LETTER OMICRON WITH PSILI..GREEK
1F4E..1F4F  ; UNASSIGNED # <reserved>..<reserved>
1F50..1F57  ; PVALID  # GREEK SMALL LETTER UPSILON WITH PSILI..GREEK
1F58  ; UNASSIGNED # <reserved>
1F59  ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH DASIA
1F5A  ; UNASSIGNED # <reserved>
1F5B  ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH DASIA AND
1F5C  ; UNASSIGNED # <reserved>
1F5D  ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH DASIA AND
1F5E  ; UNASSIGNED # <reserved>
1F5F  ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH DASIA AND
1F60..1F67  ; PVALID  # GREEK SMALL LETTER OMEGA WITH PSILI..GREEK
1F68..1F6F  ; DISALLOWED # GREEK CAPITAL LETTER OMEGA WITH PSILI..GREEK
1F70  ; PVALID  # GREEK SMALL LETTER ALPHA WITH VARIA
1F71  ; DISALLOWED # GREEK SMALL LETTER ALPHA WITH OXIA
1F72  ; PVALID  # GREEK SMALL LETTER EPSILON WITH VARIA
1F73  ; DISALLOWED # GREEK SMALL LETTER EPSILON WITH OXIA
1F74  ; PVALID  # GREEK SMALL LETTER ETA WITH VARIA
1F75  ; DISALLOWED # GREEK SMALL LETTER ETA WITH OXIA
1F76  ; PVALID  # GREEK SMALL LETTER IOTA WITH VARIA
1F77  ; DISALLOWED # GREEK SMALL LETTER IOTA WITH OXIA
1F78  ; PVALID  # GREEK SMALL LETTER OMEGAMICRON WITH VARIA
> 1F7A  ;  PVALID  #  GREEK SMALL LETTER UPSILON WITH VARIA
> 1F7B  ;  DISALLOWED  #  GREEK SMALL LETTER UPSILON WITH OXIA
> 1F7C  ;  PVALID  #  GREEK SMALL LETTER OMEGA WITH VARIA
> 1F7D  ;  DISALLOWED  #  GREEK SMALL LETTER OMEGA WITH OXIA
> 1F7E..1F7F  ;  UNASSIGNED  #  <reserved>..<reserved>
> 1F80..1FAF  ;  DISALLOWED  #  GREEK SMALL LETTER ALPHA WITH PSILI AND YPOG
> 1FB0..1FB1  ;  PVALID  #  GREEK SMALL LETTER ALPHA WITH VRACHY..GREEK
> 1FB2..1FB4  ;  DISALLOWED  #  GREEK SMALL LETTER ALPHA WITH VARIA AND YPOG
> 1FB5  ;  UNASSIGNED  #  <reserved>
> 1FB6  ;  PVALID  #  GREEK SMALL LETTER ALPHA WITH PERISPOMENI
> 1FB7..1FC4  ;  DISALLOWED  #  GREEK SMALL LETTER ALPHA WITH PERISPOMENI AN
> 1FC5  ;  UNASSIGNED  #  <reserved>
> 1FC6  ;  PVALID  #  GREEK SMALL LETTER ETA WITH PERISPOMENI
> 1FC7..1FCF  ;  DISALLOWED  #  GREEK SMALL LETTER ETA WITH PERISPOMENI AND
> 1FD0..1FD2  ;  PVALID  #  GREEK SMALL LETTER IOTA WITH VRACHY..GREEK S
> 1FD3  ;  DISALLOWED  #  GREEK SMALL LETTER IOTA WITH DIALYTIAK AND O
> 1FD4..1FD5  ;  UNASSIGNED  #  <reserved>..<reserved>
> 1FD6..1FD7  ;  PVALID  #  GREEK SMALL LETTER IOTA WITH PERISPOMENI..GR
> 1FD8..1FDB  ;  DISALLOWED  #  GREEK CAPITAL LETTER IOTA WITH VRACHY..GREEK
> 1FDC  ;  UNASSIGNED  #  <reserved>
> 1FDD..1FDF  ;  DISALLOWED  #  GREEK DASIA AND VARIA..GREEK DASIA AND PERIS
> 1FE0..1FE2  ;  PVALID  #  GREEK SMALL LETTER UPSILON WITH VRACHY..GREE
> 1FE3  ;  DISALLOWED  #  GREEK SMALL LETTER UPSILON WITH DIALYTIAK AN
> 1FE4..1FE7  ;  PVALID  #  GREEK SMALL LETTER RHO WITH PSILI..GREEK SMA
> 1FE8..1FEF  ;  DISALLOWED  #  GREEK CAPITAL LETTER UPSILON WITH VRACHY..GR
> 1FF0..1FFF  ;  UNASSIGNED  #  <reserved>
> 2000..200B  ;  DISALLOWED  #  EN QUAD..ZERO WIDTH SPACE
> 200C..200D  ;  CONTEXTJ  #  ZERO WIDTH NON-JOINER..ZERO WIDTH JOINER
> 200E..2064  ;  DISALLOWED  #  LEFT-TO-RIGHT MARK..INVISIBLE PLUS
> 2065  ;  UNASSIGNED  #  <reserved>
> 2066..2071  ;  DISALLOWED  #  LEFT-TO-RIGHT ISOLATE..SUPERSCRIPT LATIN SMA
> 2072..2073  ;  UNASSIGNED  #  <reserved>..<reserved>
> 2074..208E  ;  DISALLOWED  #  SUPERSCRIPT FOUR..SUBSCRIPT RIGHT PARENTHESI
> 208F  ;  UNASSIGNED  #  <reserved>
> 2090..209F  ;  DISALLOWED  #  LATIN SUBSCRIPT SMALL LETTER A..LATIN SUBSCR
> 20A0..20BF  ;  DISALLOWED  #  EURO-CURRENCY SIGN..BITCOIN SIGN
> 20C0..20CF  ;  UNASSIGNED  #  <reserved>..<reserved>
> 20D0..20FF  ;  DISALLOWED  #  COMBINING LEFT HARPOON ABOVE..COMBINING ASTE
> 20F1..20FF  ;  UNASSIGNED  #  <reserved>..<reserved>
> 2100..214D  ;  DISALLOWED  #  ACCOUNT OF..AKTIESELSKAB
> 214E  ;  PVALID  #  TURNED SMALL F
214F..2183 ; DISALLOWED # SYMBOL FOR SAMARITAN SOURCE..ROMAN NUMERAL R
2184 ; PVALID # LATIN SMALL LETTER REVERSED C
2185..218B ; DISALLOWED # ROMAN NUMERAL SIX LATE FORM..TURNED DIGIT TH
218C..218F ; UNASSIGNED # <reserved>..<reserved>
2190..219F ; DISALLOWED # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
21C7..21CF ; UNASSIGNED # <reserved>..<reserved>
2400..241F ; DISALLOWED # OCR HOOK..OCR DOUBLE BACKSLASH
244F..245F ; UNASSIGNED # <reserved>..<reserved>
2460..246F ; DISALLOWED # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
2472..247F ; UNASSIGNED # <reserved>..<reserved>
2476..247E ; DISALLOWED # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
2496..249F ; UNASSIGNED # <reserved>..<reserved>
2498..24A8 ; DISALLOWED # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
24B9..24BC ; UNASSIGNED # <reserved>..<reserved>
24CA..24EF ; DISALLOWED # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
2500..250F ; PVALID # GLAGOLITIC CAPITAL LETTER AZU..GLAGOLITIC CA
252F ; UNASSIGNED # <reserved>
2530..253F ; PVALID # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMAL
254F ; UNASSIGNED # <reserved>
2560 ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOUBLE BAR
2561 ; PVALID # LATIN SMALL LETTER L WITH DOUBLE BAR
2562..257F ; DISALLOWED # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LA
2570..257F ; PVALID # LATIN SMALL LETTER A WITH STROKE..LATIN SMAL
2580..258F ; DISALLOWED # LATIN CAPITAL LETTER A WITH DESCENDER
2580..258F ; PVALID # LATIN SMALL LETTER A WITH DESCENDER
2590..259F ; DISALLOWED # LATIN CAPITAL LETTER K WITH DESCENDER
2590..259F ; PVALID # LATIN SMALL LETTER K WITH DESCENDER
25A0..25A3 ; DISALLOWED # LATIN CAPITAL LETTER Z WITH DESCENDER
25A0..25A3 ; PVALID # LATIN SMALL LETTER Z WITH DESCENDER
25A6..25B7 ; DISALLOWED # LATIN CAPITAL LETTER ALPHA..LATIN CAPITAL LE
25B1 ; PVALID # LATIN SMALL LETTER V WITH RIGHT HOOK
25B2 ; DISALLOWED # LATIN CAPITAL LETTER W WITH HOOK
25B3..25B4 ; PVALID # LATIN SMALL LETTER W WITH HOOK..LATIN SMALL
25C5 ; DISALLOWED # LATIN CAPITAL LETTER HALF H
25C6..25C7 ; PVALID # LATIN SMALL LETTER HALF H..LATIN LETTER SMAL
25C8..25C9 ; DISALLOWED # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPIT
25CA ; PVALID # COPTIC SMALL LETTER ALFA
25CC..25D0 ; DISALLOWED # COPTIC CAPITAL LETTER VIDA
25D1 ; PVALID # COPTIC SMALL LETTER VIDA
25D2..25D3 ; DISALLOWED # COPTIC CAPITAL LETTER GAMMA
25D4..25D5 ; PVALID # COPTIC SMALL LETTER GAMMA
25D6..25D7 ; DISALLOWED # COPTIC CAPITAL LETTER DALDA
25D8..25D9 ; PVALID # COPTIC SMALL LETTER DALDA
25DA..25DB ; DISALLOWED # COPTIC CAPITAL LETTER EIE
25DB..25DC ; PVALID # COPTIC SMALL LETTER EIE
25DD..25DF ; DISALLOWED # COPTIC CAPITAL LETTER SOU
25E0..25E1 ; 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
2CD2 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HEI
2CD3 ; PVALID   # COPTIC SMALL LETTER OLD COPTIC HEI
2CD4 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HAT
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2CD6 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC GANGIA
2CD7 ; PVALID   # COPTIC SMALL LETTER OLD COPTIC GANGIA
2CD8 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC DJA
2CD9 ; PVALID   # COPTIC SMALL LETTER OLD COPTIC DJA
2CDA ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC SHIMA
2CDB ; PVALID   # COPTIC SMALL LETTER OLD COPTIC SHIMA
2CDC ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN SHIMA
2CDD ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN SHIMA
2CDE ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NGI
2CDF ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN NGI
2CE0 ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NYI
2CE1 ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN NYI
2CE2 ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN WAU
2CE3..2CE4 ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN WAU..COPTIC S
2CE5..2CEB ; DISALLOWED # COPTIC SYMBOL MI RO..COPTIC CAPITAL LETTER C
2CCE ; PVALID   # COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CED ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC GANGIA
2CEE..2CF1 ; PVALID   # COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA..COPTIC S
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
2D00..2D25  ; PVALID      # GEORGIAN SMALL LETTER AN..GEORGIAN SMALL LET
2D26        ; UNASSIGNED  # <reserved>
2D27        ; PVALID      # GEORGIAN SMALL LETTER YN
2D28..2D2C  ; UNASSIGNED  # <reserved>..<reserved>
2D2D        ; PVALID      # GEORGIAN SMALL LETTER AEN
2D2E..2D2F  ; UNASSIGNED  # <reserved>..<reserved>
2D30..2D67  ; PVALID      # TIFINAGH LETTER YA..TIFINAGH LETTER YO
2D68..2D6E  ; UNASSIGNED  # <reserved>..<reserved>
2D6F..2D70  ; DISALLOWED  # TIFINAGH MODIFIER LETTER LABIALIZATION MARK.
2D71..2D7E  ; UNASSIGNED  # <reserved>..<reserved>
2D7F..2D96  ; PVALID      # TIFINAGH CONSONANT JOINER..ETHIOPIC SYLLABLE
2D97..2D9F  ; UNASSIGNED  # <reserved>..<reserved>
2DA0..2DA6  ; PVALID      # ETHIOPIC SYLLABLE SSA..ETHIOPIC SYLLABLE SSO
2DA7        ; UNASSIGNED  # <reserved>
2DA8..2DAE  ; PVALID      # ETHIOPIC SYLLABLE CCA..ETHIOPIC SYLLABLE CCO
2DAF        ; UNASSIGNED  # <reserved>
2DB0..2DB6  ; PVALID      # ETHIOPIC SYLLABLE ZZA..ETHIOPIC SYLLABLE ZZO
2DB7        ; UNASSIGNED  # <reserved>
2DB8..2DBE  ; PVALID      # ETHIOPIC SYLLABLE CCHA..ETHIOPIC SYLLABLE CC
2DBF        ; UNASSIGNED  # <reserved>
2DC0..2DC6  ; PVALID      # ETHIOPIC SYLLABLE QYA..ETHIOPIC SYLLABLE QYO
2DC7        ; UNASSIGNED  # <reserved>
2DC8..2DCE  ; PVALID      # ETHIOPIC SYLLABLE KYA..ETHIOPIC SYLLABLE KYO
2DCF        ; UNASSIGNED  # <reserved>
2DD0..2DD6  ; PVALID      # ETHIOPIC SYLLABLE XYA..ETHIOPIC SYLLABLE XYO
2DD7        ; UNASSIGNED  # <reserved>
2DD8..2DDE  ; PVALID      # ETHIOPIC SYLLABLE GYA..ETHIOPIC SYLLABLE GYO
2DDF        ; UNASSIGNED  # <reserved>
2DE0..2DFF  ; PVALID      # COMBINING CYRILLIC LETTER BE..COMBINING CYRI
2E00..2E2E  ; DISALLOWED  # RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QU
2E2F        ; PVALID      # VERTICAL TILDE
2E30..2E4E  ; DISALLOWED  # RING POINT..PUNCTUS ELEVATUS MARK
2E4F..2E7F  ; UNASSIGNED  # <reserved>..<reserved>
2E80..2E99  ; DISALLOWED  # CJK RADICAL REPEAT..CJK RADICAL RAP
2E9A        ; UNASSIGNED  # <reserved>
2E9B..2EF3  ; DISALLOWED  # CJK RADICAL CHOKE..CJK RADICAL C-SIMPLIFIED
2EFE..2EFF  ; UNASSIGNED  # <reserved>..<reserved>
2F00..2FD5  ; DISALLOWED  # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2F6D..2FEF  ; UNASSIGNED  # <reserved>..<reserved>
2FF0..2FFB  ; DISALLOWED  # IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RI
2FFC..2FFF  ; UNASSIGNED  # <reserved>..<reserved>
3000..3004  ; DISALLOWED  # IDEOGRAPHIC SPACE..JAPANESE INDUSTRIAL STAND
3005..3007  ; PVALID      # IDEOGRAPHIC ITERATION MARK..IDEOGRAPHIC NUMB
3008..3029  ; DISALLOWED  # LEFT ANGLE BRACKET..HANGZHOU NUMERAL NINE
302A..302D  ; PVALID      # IDEOGRAPHIC LEVEL TONE MARK..IDEOGRAPHIC ENT
302E..303B  ; DISALLOWED  # HANGUL SINGLE DOT TONE MARK..VERTICAL IDEOGRAPH
303C        ; PVALID      # MASU MARK
303D..303F  ; DISALLOWED  # PART ALTERNATION MARK..IDEOGRAPHIC HALF FILL
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 MAK
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..31B9  ; PVALID  # BOPOMOFO LETTER BU..BOPOMOFO LETTER ZY
31BB..31BF  ; UNASSIGNED  # <reserved>..<reserved>
31C0..31E3  ; DISALLOWED  # CJK STROKE T..CJK STROKE Q
31E4..31EF  ; UNASSIGNED  # <reserved>..<reserved>
31F0..31FF  ; PVALID  # KATAKANA LETTER SMALL KU..KATAKANA LETTER SM
3200..321E  ; DISALLOWED  # PARENTHESIZED HANGUL KIYEOK..PARENTHESIZED K
321F  ; UNASSIGNED  # <reserved>
3220..327E  ; DISALLOWED  # PARENTHESIZED IDEOGRAPH ONE..CIRCLED KATAKAN
32FF  ; UNASSIGNED  # <reserved>
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>
9FF0..9FFF  ; UNASSIGNED  # <reserved>..<reserved>
A000..A48C  ; PVALID  # YI SYLLABLE IT..YI SYLLABLE YYR
A48D..A48F  ; UNASSIGNED  # <reserved>..<reserved>
A490..A4C6  ; DISALLOWED  # YI RADICAL QOT..YI RADICAL KE
A4C7..A4CF  ; UNASSIGNED  # <reserved>..<reserved>
A4D0..A4FD  ; PVALID  # LISU LETTER BA..LISU LETTER TONE MYA JEU
A4FE..A4FF  ; DISALLOWED  # LISU PUNCTUATION COMMA..LISU PUNCTUATION FUL
A500..A60C  ; PVALID  # VAI SYLLABLE EE..VAI SYLLABLE LENGTHENER
A60D..A60F  ; DISALLOWED  # VAI COMMA..VAI QUESTION MARK
A610..A62B  ; PVALID  # VAI SYLLABLE NDÖLE FA..VAI SYLLABLE NDÖLE DO
A62C..A63F  ; UNASSIGNED  # <reserved>..<reserved>
A640  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ZEMLYA
A641  ; PVALID  # CYRILLIC SMALL LETTER ZEMLYA
A642  ; DISALLOWED  # CYRILLIC CAPITAL LETTER DZELO
A643  ; PVALID  # CYRILLIC SMALL LETTER DZELO
A644  ; DISALLOWED  # CYRILLIC CAPITAL LETTER REVERSED DZE
A645  ; PVALID  # CYRILLIC SMALL LETTER REVERSED DZE
A646 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTA
A647 ; PVALID  # CYRILLIC SMALL LETTER IOTA
A648 ; DISALLOWED  # CYRILLIC CAPITAL LETTER DJERV
A649 ; PVALID  # CYRILLIC SMALL LETTER DJERV
A64A ; DISALLOWED  # CYRILLIC CAPITAL LETTER MONOGRAPH UK
A64B ; PVALID  # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C ; DISALLOWED  # CYRILLIC CAPITAL LETTER BROAD OMEGA
A64D ; PVALID  # CYRILLIC SMALL LETTER BROAD OMEGA
A64E ; DISALLOWED  # CYRILLIC CAPITAL LETTER NEUTRAL YER
A64F ; PVALID  # CYRILLIC SMALL LETTER NEUTRAL YER
A650 ; DISALLOWED  # CYRILLIC CAPITAL LETTER YERU WITH BACK YER
A651 ; PVALID  # CYRILLIC SMALL LETTER YERU WITH BACK YER
A652 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED YAT
A653 ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED YAT
A654 ; DISALLOWED  # CYRILLIC CAPITAL LETTER REVERSED YU
A655 ; PVALID  # CYRILLIC SMALL LETTER REVERSED YU
A656 ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED A
A657 ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED A
A658 ; DISALLOWED  # CYRILLIC CAPITAL LETTER CLOSED LITTLE YUS
A659 ; PVALID  # CYRILLIC SMALL LETTER CLOSED LITTLE YUS
A65A ; DISALLOWED  # CYRILLIC CAPITAL LETTER BLENDED YUS
A65B ; PVALID  # CYRILLIC SMALL LETTER BLENDED YUS
A65C ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED CLOSED LITT
A65D ; PVALID  # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
A65E ; DISALLOWED  # CYRILLIC CAPITAL LETTER YN
A65F ; PVALID  # CYRILLIC SMALL LETTER YN
A660 ; DISALLOWED  # CYRILLIC CAPITAL LETTER REVERSED TSE
A661 ; PVALID  # CYRILLIC SMALL LETTER REVERSED TSE
A662 ; DISALLOWED  # CYRILLIC CAPITAL LETTER SOFT DE
A663 ; PVALID  # CYRILLIC SMALL LETTER SOFT DE
A664 ; DISALLOWED  # CYRILLIC CAPITAL LETTER SOFT EL
A665 ; PVALID  # CYRILLIC SMALL LETTER SOFT EL
A666 ; DISALLOWED  # CYRILLIC CAPITAL LETTER SOFT EM
A667 ; PVALID  # CYRILLIC SMALL LETTER SOFT EM
A668 ; DISALLOWED  # CYRILLIC CAPITAL LETTER MONOCULAR O
A669 ; PVALID  # CYRILLIC SMALL LETTER MONOCULAR O
A66A ; DISALLOWED  # CYRILLIC CAPITAL LETTER BINOCULAR O
A66B ; PVALID  # CYRILLIC SMALL LETTER BINOCULAR O
A66C ; DISALLOWED  # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F ; PVALID  # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673 ; DISALLOWED  # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D ; PVALID  # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E ; DISALLOWED  # CYRILLIC KAVYKA
A67F ; PVALID  # CYRILLIC PAYEROK
A680 ; DISALLOWED  # CYRILLIC CAPITAL LETTER DWE
A681 ; PVALID  # CYRILLIC SMALL LETTER DWE
A682 ; DISALLOWED  # CYRILLIC CAPITAL LETTER D2WE
A683 ; PVALID  # CYRILLIC SMALL LETTER D2WE
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 KQONDON..BAMUM COMBINING MARK KQONDON
A6F2..A6F7  ; DISALLOWED  # BAMUM NJAEMLI..BAMUM QUESTION MARK
A6F8..A6FF  ; UNASSIGNED  # <reserved>..<reserved>
A700..A716  ; 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
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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
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A76E ; DISALLOWED # LATIN CAPITAL LETTER CON
A76F ; PVALID  # LATIN SMALL LETTER CON
A770 ; DISALLOWED # MODIFIER LETTER US
A771..A778 ; PVALID  # LATIN SMALL LETTER DUM..LATIN SMALL LETTER U
A779 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR D
A77A ; PVALID  # LATIN SMALL LETTER INSULAR D
A77B ; DISALLOWED # LATIN CAPITAL LETTER INSULAR F
A77C ; PVALID  # LATIN SMALL LETTER INSULAR F
A77D..A77E ; DISALLOWED # LATIN CAPITAL LETTER INSULAR G..LATIN CAPITAL LETTER INSULAR H
A77F ; PVALID  # LATIN SMALL LETTER TURNED INSULAR G
A780 ; DISALLOWED # LATIN CAPITAL LETTER TURNED L
A781 ; PVALID  # LATIN SMALL LETTER TURNED L
A782 ; DISALLOWED # LATIN CAPITAL LETTER INSULAR R
A783 ; PVALID  # LATIN SMALL LETTER INSULAR R
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A785 ; PVALID  # LATIN SMALL LETTER INSULAR S
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A787..A788 ; PVALID  # LATIN SMALL LETTER INSULAR T..MODIFIER LETTER SALTILLO
A789..A78B ; DISALLOWED # MODIFIER LETTER COLON..LATIN CAPITAL LETTER SALTILLO
A78C ; PVALID  # LATIN SMALL LETTER SALTILLO
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A78E..A78F ; PVALID  # LATIN SMALL LETTER L WITH RETROFLEX HOOK AND consequent LATIN SMALL LETTER
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 LETTER D
A796 ; DISALLOWED # LATIN CAPITAL LETTER B WITH FLOURISH
A797 ; PVALID  # LATIN SMALL LETTER B WITH FLOURISH
A798 ; DISALLOWED # LATIN CAPITAL LETTER F WITH STROKE
A799 ; PVALID  # LATIN SMALL LETTER F WITH STROKE
A79A ; DISALLOWED # LATIN CAPITAL LETTER VOLAPUK AE
A79B ; PVALID  # LATIN SMALL LETTER VOLAPUK AE
A79C ; DISALLOWED # LATIN CAPITAL LETTER VOLAPUK OE
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A79F ; PVALID  # LATIN SMALL LETTER VOLAPUK UE
A7A0 ; DISALLOWED # LATIN CAPITAL LETTER G WITH OBLIQUE STROKE
A7A1 ; PVALID  # LATIN SMALL LETTER G WITH OBLIQUE STROKE
A7A2  ; DISALLOWED # LATIN CAPITAL LETTER K WITH OBLIQUE STROKE
A7A3  ; PVVALID # LATIN SMALL LETTER K WITH OBLIQUE STROKE
A7A4  ; DISALLOWED # LATIN CAPITAL LETTER N WITH OBLIQUE STROKE
A7A5  ; PVVALID # LATIN SMALL LETTER N WITH OBLIQUE STROKE
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A7A7  ; PVVALID # LATIN SMALL LETTER R WITH OBLIQUE STROKE
A7A8  ; DISALLOWED # LATIN CAPITAL LETTER S WITH OBLIQUE STROKE
A7A9  ; PVVALID # LATIN SMALL LETTER S WITH OBLIQUE STROKE
A7AA..A7AE  ; DISALLOWED # LATIN CAPITAL LETTER H WITH HOOK..LATIN CAPITAL
A7AF  ; PVVALID # LATIN LETTER SMALL CAPITAL Q
A7B0..A7B4  ; DISALLOWED # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL
A7B5  ; PVVALID # LATIN SMALL LETTER BETA
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A7BA..A7F6  ; UNASSIGNED # <reserved>..<reserved>
A7F7  ; PVVALID # LATIN EPIGRAPHIC LETTER SIDEWAYS I
A7F8..A7F9  ; DISALLOWED # MODIFIER LETTER CAPITAL H WITH STROKE..MODIF
A7FA..A827  ; PVVALID # 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  ; PVVALID # 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>
A880..A8C5  ; PVVALID # SAURASHTRA SIGN ANUSVARA..SAURASHTRA SIGN CA
A8C6..A8CD  ; UNASSIGNED # <reserved>..<reserved>
A8CE..A8CF  ; DISALLOWED # SAURASHTRA DANDA..SAURASHTRA DOUBLE DANDA
A8D0..A8D9  ; PVVALID # SAURASHTRA DIGIT ZERO..SAURASHTRA DIGIT NINE
A8DA..A8DF  ; UNASSIGNED # <reserved>..<reserved>
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A8F8..A8FA  ; DISALLOWED # DEVANAGARI SIGN PUSHPIKA..DEVANAGARI CARET
A8FB  ; PVVALID # DEVANAGARI HEADSTROKE
A8FC  ; DISALLOWED # DEVANAGARI SIGN SIDDHAM
A8FD..A92D  ; PVVALID # DEVANAGARI JAIN OM..KAYAH LI TONE CALYA PLOP
A92E..A92F  ; DISALLOWED # KAYAH LI SIGN CWI..KAYAH LI SIGN SHYA
A930..A953  ; PVVALID # REJANG LETTER KA..REJANG VIRAMA
A954..A95E  ; UNASSIGNED # <reserved>..<reserved>
A95F..A97C  ; DISALLOWED # REJANG SECTION MARK..HANGUL CHOSEONG SSANGYE
A97D..A97F  ; UNASSIGNED # <reserved>..<reserved>
A980..A9C0  ; PVVALID # JAVANESE SIGN PANYANGGA..JAVANESE PANGKON
A9C1..A9CD  ; DISALLOWED # JAVANESE LEFT REERINGGAN..JAVANESE TURNED PAD
A9CE  ; UNASSIGNED # <reserved>
A9CF..A9D9  ; PVVALID # JAVANESE PANGRANGKEP..JAVANESE DIGIT NINE
A9DA..A9DD  ; UNASSIGNED # <reserved>..<reserved>
A9DE..A9DF  ; DISALLOWED # JAVANESE PADA TIRTA TUMETES..JAVANESE PADA I
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FA12       ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA12
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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
FA27..FA29 ; PVALID    # CJK COMPATIBILITY IDEOGRAPH-FA27..CJK COMPAT
FA2A..FA2B ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA2A..CJK COMPAT
FA6E..FA6F ; UNASSIGNED # <reserved>..<reserved>
FA70..FA79 ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA70..CJK COMPAT
FADA..FAFF ; UNASSIGNED # <reserved>..<reserved>
FB00..FB06 ; DISALLOWED # LATIN SMALL LIGATURE FF..LATIN SMALL LIGATURE
FB07..FB12 ; UNASSIGNED # <reserved>..<reserved>
FB13..FB17 ; DISALLOWED # ARMENIAN SMALL LIGATURE MEN NOW..ARMENIAN SM
FB18..FB1C ; UNASSIGNED # <reserved>..<reserved>
FB1D       ; DISALLOWED # HEbrew LETTER YOD WITH HIRIQ
FB1E       ; PVALID    # HEbrew POINT JUDeo-Spanish VARiKA
FB1F..FB36 ; DISALLOWED # HEbrew LIGATURE YIDDiSH YOD YOD PATAH..HEBRE
FB37       ; UNASSIGNED # <reserved>
FB38..FB3C ; DISALLOWED # HEbrew LETTER TET WITH DAGESH..HEBREW LETTER
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FB3E       ; DISALLOWED # HEbrew LETTER MEM WITH DAGESH
FB3F       ; UNASSIGNED # <reserved>
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FB42       ; UNASSIGNED # <reserved>
FB43..FB44 ; DISALLOWED # HEbrew LETTER FINAl PE WITH DAGESH..HEBREW L
FB45       ; UNASSIGNED # <reserved>
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FBC2..FBCD ; UNASSIGNED # <reserved>..<reserved>
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FD40..FD4F ; UNASSIGNED # <reserved>..<reserved>
FD50..FD8F ; DISALLOWED # ARABIC LIGATURE TEH WITH JEEM WITH MEEM INIT
FD90..FD91 ; UNASSIGNED # <reserved>..<reserved>
FD92..FDCF ; UNASSIGNED # ARABIC LIGATURE MEEM WITH JEEM WITH KHAT INI
FDCH..FDFF ; UNASSIGNED # <reserved>..<reserved>
FE00..FE19 ; DISALLOWED # Variation SELECToR-1..PRESENTATION FORM FOR
FE1A..FE1F ; UNASSIGNED # <reserved>..<reserved>
FE20..FE2F ; PVALID    # COMBINING LIGATURE LEFT HALF..COMBINING CYRI
FE30..FE52 ; DISALLOWED # PRESENTATION FORM FOR VERTICAL TWO DOT LEADE
FE53       ; UNASSIGNED # <reserved>
FE54..FE66 ; DISALLOWED # SMALL SEMICOLON..SMALL EQUALS SIGN
FE67        ; UNASSIGNED  # <reserved>
FE68..FE6B  ; DISALLOWED  # SMALL REVERSE SOLIDUS..SMALL COMMERCIAL AT
FE6C..FE6F  ; UNASSIGNED  # <reserved>..<reserved>
FE70..FE72  ; DISALLOWED  # ARABIC FATHATAN ISOLATED FORM..ARABIC DAMMAT
FE73        ; PVALID      # ARABIC TAIL FRAGMENT
FE74        ; DISALLOWED  # ARABIC KASRATAN ISOLATED FORM
FE75        ; UNASSIGNED  # <reserved>
FE76..FEFC  ; DISALLOWED  # ARABIC FATHA ISOLATED FORM..ARABIC LIGATURE
FEFD..FEFE  ; UNASSIGNED  # <reserved>..<reserved>
FEFF        ; DISALLOWED  # ZERO WIDTH NO-BREAK SPACE
FF00        ; UNASSIGNED  # <reserved>
FF01..FFBE  ; DISALLOWED  # FULLWIDTH EXCLAMATION MARK..HALFWIDTH HANGUL
FFBF..FFC1  ; UNASSIGNED  # <reserved>..<reserved>
FFC2..FFC7  ; DISALLOWED  # HALFWIDTH HANGUL LETTER A..HALFWIDTH HANGUL
FFC8..FFC9  ; UNASSIGNED  # <reserved>..<reserved>
FFC..FFC9  ; UNASSIGNED  # <reserved>..<reserved>
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FFD8..FFD9  ; UNASSIGNED  # <reserved>..<reserved>
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FFDD..FFDF  ; UNASSIGNED  # <reserved>..<reserved>
FEE0..FEE6  ; DISALLOWED  # FULLWIDTH CENT SIGN..FULLWIDTH WON SIGN
FEE7        ; UNASSIGNED  # <reserved>
FEE8..FEEE  ; DISALLOWED  # HALFWIDTH FORMS LIGHT VERTICAL..HALFWIDTH WH
FEEF..FF00  ; UNASSIGNED  # <reserved>..<reserved>
FF01        ; UNASSIGNED  # <reserved>
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1000C       ; UNASSIGNED  # <reserved>
1000D..10026; PVALID      # LINEAR B SYLLABLE B036 JO..LINEAR B SYLLABLE
10027       ; UNASSIGNED  # <reserved>
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1003C..1003D; PVALID      # LINEAR B SYLLABLE B017 ZA..LINEAR B SYLLABLE
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1003F..1004D; PVALID      # LINEAR B SYLLABLE B020 ZO..LINEAR B SYLLABLE
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10050..1005D; PVALID      # LINEAR B SYMBOL B018..LINEAR B SYMBOL B089
1005E..1007F; UNASSIGNED  # <reserved>..<reserved>
10080..100FA; PVALID      # LINEAR B IDEOGRAPH B100 MAN..LINEAR B IDEOGRAPH
100FB..100FF; UNASSIGNED  # <reserved>..<reserved>
10100..10102; DISALLOWED  # AEGEAN WORD SEPARATOR LINE..AEGEAN CHECK MAR
10103..10106; UNASSIGNED  # <reserved>..<reserved>
10107..10133; DISALLOWED  # AEGEAN NUMBER ONE..AEGEAN NUMBER NINETY THOU
10134..10136; UNASSIGNED  # <reserved>..<reserved>
10137..1018E; DISALLOWED  # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
1018F       ; UNASSIGNED  # <reserved>
10190..1019B; DISALLOWED  # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN
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10809  ; UNASSIGNED  # <reserved>
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10836  ; UNASSIGNED  # <reserved>
10837..10838; PVALID  # CYPRIOT SYLLABLE XA..CYPRIOT SYLLABLE XE
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1083C  ; PVALID  # CYPRIOT SYLLABLE ZA
1083D..1083F; UNASSIGNED  # <reserved>..<reserved>
1083F..10855; PVALID  # CYPRIOT SYLLABLE ZO..IMPERIAL ARAMAIC LETTER
10856  ; UNASSIGNED  # <reserved>
10857..1085F; DISALLOWED  # IMPERIAL ARAMAIC SECTION SIGN..IMPERIAL ARAM
10860..10867; PVALID  # PALMYRENE LETTER ALEPH..PALMYRENE LETTER TAW
10877..1087F; DISALLOWED  # PALMYRENE LEFT-POINTING FLEURON..PALMYRENE N
10880..1088E; PVALID  # NABATAEAN LETTER FINAL ALEPH..NABATAEAN LETTER
10897..108A6; UNASSIGNED  # <reserved>..<reserved>
108A7..108AF; DISALLOWED  # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
108B0..108DF; UNASSIGNED  # <reserved>..<reserved>
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108F3  ; UNASSIGNED  # <reserved>
108F4..108F5; PVALID  # HATRAN LETTER SHIN..HATRAN LETTER TAW
108F6..108FA; UNASSIGNED  # <reserved>..<reserved>
108FB..108FF; DISALLOWED  # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
10900..10915; PVALID  # PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU
10916..10920; DISALLOWED  # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR
10921..10923; UNASSIGNED  # <reserved>..<reserved>
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10930..10939; PVALID  # LYDIAN LETTER A..LYDIAN LETTER C
1093A..1093F; UNASSIGNED  # <reserved>..<reserved>
1093F  ; DISALLOWED  # LYDIAN TRIANGULAR MARK
10940..10946; UNASSIGNED  # <reserved>..<reserved>
109B8..109BB; PVALID  # MEROITIC HIEROGLYPHIC LETTER A..MEROITIC CUR
109BC..109BD; DISALLOWED  # MEROITIC Cursive Fraction Eleven Twelfths..M
109BE..109BF; PVALID  # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
109C0..109CF; DISALLOWED  # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIV
109D0..109D1; UNASSIGNED  # <reserved>..<reserved>
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10A04  ; UNASSIGNED  # <reserved>
10A05..10A06; PVALID  # KHAROSHTHI VOWEL SIGN E..KHAROSHTHI VOWEL SI
10A07..10A0B; UNASSIGNED  # <reserved>..<reserved>
10A0C..10A13; PVALID  # KHAROSHTHI VOWEL LENGTH MARK..KHAROSHTHI LET
10A14  ; UNASSIGNED  # <reserved>
10A15..10A17; PVALID   # KHAROSHTHI LETTER CA..KHAROSHTHI LETTER JA
10A18; UNASSIGNED      # <reserved>
10A19..10A35; PVALID   # KHAROSHTHI LETTER NYA..KHAROSHTHI LETTER VHA
10A36..10A37; UNASSIGNED # <reserved>..<reserved>
10A38..10A3A; PVALID   # KHAROSHTHI SIGN BAR ABOVE..KHAROSHTHI SIGN D
10A3B..10A3E; UNASSIGNED # <reserved>..<reserved>
10A3F; PVALID          # KHAROSHTHI VIRAMA
10A40..10A48; DISALLOWED # KHAROSHTHI DIGIT ONE..KHAROSHTHI FRACTION ON
10A49..10A4F; UNASSIGNED # <reserved>..<reserved>
10A50..10A58; DISALLOWED # KHAROSHTHI PUNCTUATION DOT..KHAROSHTHI PUNCT
10A59..10A5F; UNASSIGNED # <reserved>..<reserved>
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10A7D..10A7F; DISALLOWED # OLD SOUTH ARABIAN NUMBER ONE..OLD SOUTH ARAB
10A80..10A9C; PVALID   # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARAB
10A9D..10A9F; DISALLOWED # OLD NORTH ARABIAN NUMBER ONE..OLD NORTH ARAB
10AA0..10AAB; UNASSIGNED # <reserved>..<reserved>
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10AC8; DISALLOWED      # MANICHAEAN SIGN UD
10AC9..10AE6; PVALID   # MANICHAEAN LETTER ZAYIN..MANICHAEAN ABBREVI
10AE7..10AE9; UNASSIGNED # <reserved>..<reserved>
10AFB..10AFF; DISALLOWED # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATIO
10AFC7..10AFF; UNASSIGNED # <reserved>..<reserved>
10B00..10B35; PVALID   # AVESTAN LETTER A..AVESTAN LETTER HE
10B36..10B38; UNASSIGNED # <reserved>..<reserved>
10B39..10B3F; DISALLOWED # AVESTAN ABBREVIATION MARK..LARGE ONE RING OV
10B40..10B55; PVALID   # INSCRIPTIONAL PARTHIAN LETTER ALEPH..INSCRIP
10B56..10B57; UNASSIGNED # <reserved>..<reserved>
10B58..10B5F; DISALLOWED # INSCRIPTIONAL PARTHIAN NUMBER ONE..INSCRIPTI
10B60..10B72; PVALID   # INSCRIPTIONAL PAHLAVI LETTER ALEPH..INSCRIPT
10B73..10B77; UNASSIGNED # <reserved>..<reserved>
10B78..10B7F; DISALLOWED # INSCRIPTIONAL PAHLAVI NUMBER ONE..INSCRIPTIO
10B80..10B91; PVALID   # PSALTER PAHLAVI LETTER ALEPH..PSALTER PAHLAV
10B92..10B9F; UNASSIGNED # <reserved>..<reserved>
10BB9..10BBF; DISALLOWED # PSALTER PAHLAVI SECTION MARK..PSALTER PAHLAV
10B9D..10BAC; UNASSIGNED # <reserved>..<reserved>
10B9F..10BAC; DISALLOWED # PSALTER PAHLAVI NUMBER ONE..PSALTER PAHLAV
10BB0..10BBF; UNASSIGNED # <reserved>..<reserved>
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10C49..10C7F; UNASSIGNED # <reserved>..<reserved>
10C80..10C8F; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
10CB3..10CBF; UNASSIGNED # <reserved>..<reserved>
10CC0..10CF2; PVALID   # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CF3..10CF9; UNASSIGNED # <reserved>..<reserved>
10CFB..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUM
10D00..10D27; PVALID   # HANIFI ROHINGYA LETTER A..HANIFI ROHINGYA SI
10D28..10D2F; UNASSIGNED # <reserved>..<reserved>
10D30..10D39; PVALID   # HANIFI ROHINGYA DIGIT ZERO..HANIFI ROHINGYA
10D3A..10E5F; UNASSIGNED # <reserved>..<reserved>
10E60..10E7E; DISALLOWED # RUMI DIGIT ONE..RUMI FRACTION TWO THIRDS
10E7F..10EFF; UNASSIGNED # <reserved>..<reserved>
10F00..10F1C; PVALID # OLD SOGDIAN LETTER ALEPH..OLD SOGDIAN LETTER
10F1D..10F26; DISALLOWED # OLD SOGDIAN NUMBER ONE..OLD SOGDIAN FRACTION
10F27 ; PVALID # OLD SOGDIAN LIGATURE AYIN-DALETH
10F28..10F2F; UNASSIGNED # <reserved>..<reserved>
10F30..10F50; PVALID # SOGDIAN LETTER ALEPH..SOGDIAN COMBINING STRO
10F51..10F59; DISALLOWED # SOGDIAN NUMBER ONE..SOGDIAN PUNCTUATION HALF
10F5A..10FF; UNASSIGNED # <reserved>..<reserved>
11000..11046; PVALID # BRAHMI SIGN CANDRABINDU..BRAHMI VIRAMA
11047..1104D; DISALLOWED # BRAHMI DANDA..BRAHMI PUNCTUATION LOTUS
1104E..11051; UNASSIGNED # <reserved>..<reserved>
11052..11065; DISALLOWED # BRAHMI NUMBER ONE..BRAHMI NUMBER ONE THOUSAN
11066..1106F; PVALID # BRAHMI DIGIT ZERO..BRAHMI DIGIT NINE
11070..1107E; UNASSIGNED # <reserved>..<reserved>
1107F..110BA; PVALID # BRAHMI NUMBER JOINER..KAITHI SIGN NUKTA
110BB..110C1; DISALLOWED # KAITHI ABBREVIATION SIGN..KAITHI DOUBLE DAND
110C2..110CC; UNASSIGNED # <reserved>..<reserved>
110CD ; DISALLOWED # KAITHI NUMBER SIGN ABOVE
110CE..110CF; UNASSIGNED # <reserved>..<reserved>
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110E9..110EF; UNASSIGNED # <reserved>..<reserved>
110F0..110F9; PVALID # SORA SOMPENG DIGIT ZERO..SORA SOMPENG DIGIT
110FA..110FF; UNASSIGNED # <reserved>..<reserved>
11100..11134; PVALID # CHAKMA SIGN CANDRABINDU..CHAKMA MAAYYAA
11135 ; UNASSIGNED # <reserved>
11136..1113F; PVALID # CHAKMA DIGIT ZERO..CHAKMA DIGIT NINE
11140..11143; DISALLOWED # CHAKMA SECTION MARK..CHAKMA QUESTION MARK
11144..11146; PVALID # CHAKMA LETTER LHAA..CHAKMA VOWEL SIGN EI
11147..1114F; UNASSIGNED # <reserved>..<reserved>
11150..11173; PVALID # MAHAJANI LETTER A..MAHAJANI SIGN NUKTA
11174..11175; DISALLOWED # MAHAJANI ABBREVIATION SIGN..MAHAJANI SECTION
11176 ; PVALID # MAHAJANI LIGATURE SHRI
11177..1117F; UNASSIGNED # <reserved>..<reserved>
11180..111C4; PVALID # SHARADA SIGN CANDRABINDU..SHARADA OM
111C5..111C8; DISALLOWED # SHARADA DANDA..SHARADA SEPARATOR
111C9..111CC; PVALID # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
111CD ; DISALLOWED # SHARADA SUTRA MARK
111CE..111CF; UNASSIGNED # <reserved>..<reserved>
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111DB ; DISALLOWED # SHARADA SIGN SIDDHAM
111DC ; PVALID # SHARADA HEADSTROKE
111DD..111DF; DISALLOWED # SHARADA CONTINUATION SIGN..SHARADA SECTION M
111E0 ; UNASSIGNED # <reserved>
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111F5..111FF; UNASSIGNED # <reserved>..<reserved>
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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>
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11287; UNASSIGNED # <reserved>
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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..11328; PVALID # GRANTHA LETTER OO..GRANTHA LETTER NA
11329; UNASSIGNED # <reserved>
1132A..11330; PVALID # GRANTHA LETTER PA..GRANTHA LETTER RA
11331; UNASSIGNED # <reserved>
11332..11333; PVALID # GRANTHA LETTER LA..GRANTHA LETTER LLA
11334; UNASSIGNED # <reserved>
11335..11339; PVALID # GRANTHA LETTER VA..GRANTHA LETTER HA
1133A; UNASSIGNED # <reserved>
1133B..11344; PVALID # COMBINING BINDU BELOW..GRANTHA VOWEL SIGN VO
11345..11346; UNASSIGNED # <reserved>..<reserved>
11347..11348; PVALID # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
11349..1134A; UNASSIGNED # <reserved>..<reserved>
1134B..1134D; PVALID # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
1134E..1134F; UNASSIGNED # <reserved>..<reserved>
11350; PVALID # GRANTHA OM
11351..11356; UNASSIGNED # <reserved>..<reserved>
11357; PVALID # GRANTHA AU LENGTH MARK
11358..1135C; UNASSIGNED # <reserved>..<reserved>
1135D..11363; PVALID # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11364..11365; UNASSIGNED # <reserved>..<reserved>
11366..1136C; PVALID # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTH
1136D..1136F; UNASSIGNED # <reserved>..<reserved>
11370..11374; PVALID # COMBINING GRANTHA LETTER A..COMBINING GRANTH
11375..113FF: UNASSIGNED # <reserved>..<reserved>
11400..1144A: PVALID # NEWA LETTER A..NEWA SIDDHI
1144B..1144F: DISALLOWED # NEWA DANDA..NEWA ABBREVIATION SIGN
11450..11459: PVALID # NEWA DIGIT ZERO..NEWA DIGIT NINE
1145A ; UNASSIGNED # <reserved>
1145B ; DISALLOWED # NEWA PLACEHOLDER MARK
1145C ; UNASSIGNED # <reserved>
1145D ; DISALLOWED # NEWA INSERTION SIGN
1145E ; PVALID # NEWA SANDHI MARK
1145F..1147F: UNASSIGNED # <reserved>..<reserved>
11480..114C5: PVALID # TIRHUTA ANJI..TIRHUTA GVANG
114C6 ; DISALLOWED # TIRHUTA ABBREVIATION SIGN
114C7 ; PVALID # TIRHUTA OM
114C8..114CF: UNASSIGNED # <reserved>..<reserved>
114D0..114D9: PVALID # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
114DA..1157F: UNASSIGNED # <reserved>..<reserved>
11580..115B7: PVALID # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B8..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..SIDD
115DE..115FF: UNASSIGNED # <reserved>..<reserved>
11600..11640: PVALID # MODI LETTER A..MODI SIGN ARDHACANDRA
11641..11643: DISALLOWED # MODI DANDA..MODI ABBREVIATION SIGN
11644 ; PVALID # MODI SIGN HUVA
11645..1164F: UNASSIGNED # <reserved>..<reserved>
11650..11659: PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
1165A..1165F: UNASSIGNED # <reserved>..<reserved>
11660..1166C: DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
1166D..1167F: UNASSIGNED # <reserved>..<reserved>
11680..116B7: PVALID # TAKRI LETTER A..TAKRI SIGN NUKTA
116B8..116BF: UNASSIGNED # <reserved>..<reserved>
116C0..116C9: PVALID # TAKRI DIGIT ZERO..TAKRI DIGIT NINE
116CA..116FF: UNASSIGNED # <reserved>..<reserved>
11700..1171A: PVALID # AHOM LETTER KA..AHOM LETTER ALTERNATE BA
1171B..1171C: UNASSIGNED # <reserved>..<reserved>
1171D..1172B: PVALID # AHOM CONSONANT SIGN MEDIAL LA..AHOM SIGN KIL
1172C..1172F: UNASSIGNED # <reserved>..<reserved>
11730..11739: PVALID # AHOM DIGIT ZERO..AHOM DIGIT NINE
1173A..1173F: DISALLOWED # AHOM NUMBER TEN..AHOM SYMBOL VI
11740..117FF: UNASSIGNED # <reserved>..<reserved>
11800..1183A: PVALID # DOGRA LETTER A..DOGRA SIGN NUKTA
1183B ; DISALLOWED # DOGRA ABBREVIATION SIGN
1183C..1189F: UNASSIGNED # <reserved>..<reserved>
118A0..118BF: DISALLOWED # WARGANG CITI CAPITAL LETTER NGAA..WARGANG CITI
118C0..118E9: PVALID # WARGANG CITI SMALL LETTER NGAA..WARGANG CITI D
118EA..118F2; DISALLOWED # WARGANG CITI NUMBER TEN..WARGANG CITI NUMBER N
118F3..118FE; UNASSIGNED # <reserved>..<reserved>
118FF ; PVALID # WARANG CITI OM
11900..119FF; UNASSIGNED # <reserved>..<reserved>
11A00..11A3E; PVALID # ZANABAZAR SQUARE LETTER A..ZANABAZAR SQUARE
11A3F..11A46; DISALLOWED # ZANABAZAR SQUARE INITIAL HEAD MARK..ZANABAZA
11A47 ; PVALID # ZANABAZAR SQUARE SUBJOINER
11A48..11A4F; UNASSIGNED # <reserved>..<reserved>
11A50..11A83; PVALID # SOYOMBO LETTER A..SOYOMBO LETTER KSSA
11A84..11A85; UNASSIGNED # <reserved>..<reserved>
11A86..11A99; PVALID # SOYOMBO CLUSTER-INITIAL LETTER RA..SOYOMBO S
11A9A..11A9C; DISALLOWED # SOYOMBO MARK TSHEG..SOYOMBO MARK DOUBLE SHAD
11A9D ; PVALID # SOYOMBO MARK PLUTA
11A9E..11AA2; DISALLOWED # SOYOMBO HEAD MARK WITH MOON AND SUN AND TRIP
11AA3..11ABF; UNASSIGNED # <reserved>..<reserved>
11AC0..11AF8; PVALID # PUA CIN HAU LETTER PA..PUA CIN HAU GLOTTAL S
11AF9..11BFF; UNASSIGNED # <reserved>..<reserved>
11C00..11C08; PVALID # BHAIKSUKI LETTER A..BHAIKSUKI INITIAL HEAD MARK
11C09 ; UNASSIGNED # <reserved>
11C0A..11C36; PVALID # BHAIKSUKI LETTER E..BHAIKSUKI VOWEL SIGN VOC
11C37 ; UNASSIGNED # <reserved>
11C38..11C40; PVALID # BHAIKSUKI VOWEL SIGN E..BHAIKSUKI VOWEL SIGN AE
11C41..11C45; DISALLOWED # BHAIKSUKI VOWEL SIGN E..BHAIKSUKI VOWEL SIGN AE
11C46..11C4F; UNASSIGNED # <reserved>..<reserved>
11C50..11C59; PVALID # BHAIKSUKI DIGIT ZERO..BHAIKSUKI DIGIT NINE
11C5A..11C6C; DISALLOWED # BHAIKSUKI NUMBER ONE..BHAIKSUKI NUMBER TEN
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
11C98 ; UNASSIGNED # <reserved>
11CA9..11CB6; PVALID # MARCHEN SUBJOINED LETTER YA..MARCHEN SUBJOIN
11CB7..11CFF; UNASSIGNED # <reserved>..<reserved>
11D00..11D06; PVALID # MASARAM GONDI LETTER A..MASARAM GONDI LETTER A
11D07 ; UNASSIGNED # <reserved>
11D08..11D09; PVALID # MASARAM GONDI LETTER AI..MASARAM GONDI LETTER AI
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 VOWEL SIGN AI
11D3E ; UNASSIGNED # <reserved>
11D3F..11D47; PVALID # MASARAM GONDI VOWEL SIGN AU..MASARAM GONDI VOWEL SIGN AU
11D48..11D4F; UNASSIGNED # <reserved>..<reserved>
11D50..11D59; PVALID # MASARAM GONDI DIGIT ZERO..MASARAM GONDI DIGIT ZERO
11D5A..11D5F; UNASSIGNED # <reserved>..<reserved>
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER A
11D66 ; UNASSIGNED # <reserved>
11D67..11D68; PVALID  # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER EE
11D69; UNASSIGNED  # <reserved>
11D6A..11D6E; PVALID  # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D6F; UNASSIGNED  # <reserved>
11D90..11D91; PVALID  # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI VOWEL SIGN EE
11D92; UNASSIGNED  # <reserved>
11D93..11D98; PVALID  # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI VOWEL SIGN OO
11D99..11DA9; PVALID  # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGIT ZERO
11DAA..11E6F; UNASSIGNED  # <reserved>..<reserved>
11EE0..11EE6; PVALID  # MAKASAR LETTER KA..MAKASAR LETTER KA
11EF7..11EF8; DISALLOWED  # MAKASAR PASSIMBANG..MAKASAR PASSIMBANG
11E9F..11EFF; UNASSIGNED  # <reserved>..<reserved>
12000..12399; PVALID  # CUNEIFORM SIGN A..CUNEIFORM SIGN U
1239A..123FF; UNASSIGNED  # <reserved>..<reserved>
12400..1246E; DISALLOWED  # CUNEIFORM NUMERIC SIGN TWO ASH..CUNEIFORM NUMERIC SIGN TWO ASH
1246F; UNASSIGNED  # <reserved>
12470..12474; DISALLOWED  # CUNEIFORM PUNCTUATION SIGN OLD ASSYRIAN WORD
12475..1247F; UNASSIGNED  # <reserved>..<reserved>
12480..12543; PVALID  # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM SIGN AB TIMES NUN TENU
12544..12FFF; UNASSIGNED  # <reserved>..<reserved>
13000..1342E; PVALID  # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYPH A001
1342F..1343F; UNASSIGNED  # <reserved>..<reserved>
14400..14646; PVALID  # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGLYPH A001
14647..1467F; UNASSIGNED  # <reserved>..<reserved>
16800..16A39; PVALID  # BAMUM LETTER PHASE-A NGKUE MFON..BAMUM LETTER PHASE-A NGKUE MFON
16A3A..16A3F; UNASSIGNED  # <reserved>..<reserved>
16A40..16A5F; PVALID  # MRO LETTER TA..MRO LETTER TEK
16A5G; UNASSIGNED  # <reserved>
16A60..16A69; PVALID  # MRO DIGIT ZERO..MRO DIGIT NINE
16A6A..16A6D; UNASSIGNED  # <reserved>..<reserved>
16A6E..16A6F; DISALLOWED  # MRO DANDA..MRO DOUBLE DANDA
16A70..16A7F; UNASSIGNED  # <reserved>..<reserved>
16A80..16A9D; PVALID  # BASSA VAH LETTER ENNI..BASSA VAH LETTER ENNI
16A9E..16AAF; UNASSIGNED  # <reserved>..<reserved>
16AB0..16ABF; PVALID  # BASSA VAH COMBINING HIGH TONE..BASSA VAH COMBINING HIGH TONE
16AC5; DISALLOWED  # BASSA VAH FULL STOP
16AC6..16ACF; UNASSIGNED  # <reserved>..<reserved>
16AD0..16ADD; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG VOWEL KEEB
16B00..16B36; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG VOWEL KEEB
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 NUMBER TENS
16B62; UNASSIGNED  # <reserved>
16B63..16B77; PVALID  # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN VOS LUB
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..16EFF; UNASSIGNED # <reserved>..<reserved>
16F00..16F4F; PVALID # MIAO LETTER PA..MIAO LETTER HHA
16F45..16F4F; UNASSIGNED # <reserved>..<reserved>
16F50..16F7F; PVALID # MIAO LETTER NASALIZATION..MIAO VOWEL SIGN NG
16F7F..16F8F; UNASSIGNED # <reserved>..<reserved>
16F9F..16F9F; PVALID # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
16FA0..16FDF; UNASSIGNED # <reserved>..<reserved>
17000..187F1; PVALID # TANGUT ITERATION MARK..NUSHU ITERATION MARK
187F2..187FF; UNASSIGNED # <reserved>..<reserved>
18800..18AF2; PVALID # TANGUT COMPONENT-001..TANGUT COMPONENT-755
18AF3..1AFFF; UNASSIGNED # <reserved>..<reserved>
1B000..1B11E; PVALID # KATAKANA LETTER ARCHAIC E..HENTAIGANA LETTER
1B11F..1B16F; UNASSIGNED # <reserved>..<reserved>
1B170..1B2FB; PVALID # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1B2FC..1B2FF; UNASSIGNED # <reserved>..<reserved>
1BC00..1BC6A; PVALID # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC6B..1BC6F; UNASSIGNED # <reserved>..<reserved>
1BC70..1BC7C; PVALID # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLO
1BC7D..1BC7F; UNASSIGNED # <reserved>..<reserved>
1BC80..1BC88; PVALID # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HI
1BC89..1BC8F; UNASSIGNED # <reserved>..<reserved>
1BC90..1BC99; PVALID # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
1BC9A..1BC9B; UNASSIGNED # <reserved>..<reserved>
1BC9C ; DISALLOWED # DUPLOYAN SIGN O WITH CROSS
1BC9D..1BC9F; PVALID # DUPLOYAN THICK LETTER SELECTOR..DUPLOYAN DOU
1BC9F..1BCA3; DISALLOWED # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..SHOR
1BCA4..1CFFF; UNASSIGNED # <reserved>..<reserved>
1D000..1D0F5; DISALLOWED # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE MU
1D0F6..1D0FF; UNASSIGNED # <reserved>..<reserved>
1D100..1D126; DISALLOWED # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMBO
1D127..1D128; UNASSIGNED # <reserved>..<reserved>
1D129..1D1E8; DISALLOWED # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICA
1D1E9..1D1FF; UNASSIGNED # <reserved>..<reserved>
1D200..1D245; DISALLOWED # GREEK VOCAL NOTATION SYMBOL-1..GREEK MUSICAL
1D246..1D2DF; UNASSIGNED # <reserved>..<reserved>
1D2E0..1D2F3; DISALLOWED # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D2F4..1D2FF; UNASSIGNED # <reserved>..<reserved>
1D300..1D356; DISALLOWED # MONOGRAM FOR EARTH..TETRAGRAM FOR FOSTERING
1D357..1D35F; UNASSIGNED # <reserved>..<reserved>
1D360..1D378; DISALLOWED # COUNTING ROD UNIT DIGIT ONE..TALLY MARK FIVE
1D379..1D3FF; UNASSIGNED # <reserved>..<reserved>
1D400..1D454; DISALLOWED # MATHEMATICAL BOLD CAPITAL A..MATHEMATICAL IT
1D455; UNASSIGNED # <reserved>
1D456..1D49C; DISALLOWED # MATHEMATICAL ITALIC SMALL I..MATHEMATICAL SC
1D49D; UNASSIGNED # <reserved>
1D49E..1D49F; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL C..MATHEMATICAL
1D4A0..1D4A1; UNASSIGNED # <reserved>..<reserved>
1D4A2; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL G
1D4A3..1D4A4; UNASSIGNED # <reserved>..<reserved>
1D4A5..1D4A6; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL J..MATHEMATICAL
1D4A7..1D4A8; UNASSIGNED # <reserved>..<reserved>
1D4A9..1D4AC; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL N..MATHEMATICAL
1D4AD; UNASSIGNED # <reserved>
1D4AE..1D4B9; DISALLOWED # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL
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..1D54F; 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..1D56F; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK SMALL A..MATHEMAT
1D6A6..1D6A7; UNASSIGNED # <reserved>..<reserved>
1D6A8..1D7C; DISALLOWED # MATHEMATICAL BOLD CAPITAL ALPHA..MATHEMATICA
1D7CC..1D7CD; UNASSIGNED # <reserved>..<reserved>
1D7CE..1D9FF; DISALLOWED # MATHEMATICAL BOLD DIGIT ZERO..SIGNWR
1DA00..1DA36; PVALID # SIGNWR HEAD RIM..SIGNWR AIR SUCKIN
1DA37..1DA3A; DISALLOWED # SIGNWR AIR BLOW SMALL ROTATIONS..SIGNWR
1DA3B..1DA6C; PVALID # SIGNWR MOUTH CLOSED NEUTRAL..SIGNWR
1DA6D..1DA74; DISALLOWED # SIGNWR SHOULDER HIP SPINE..SIGNWR
1DA75; PVALID # SIGNWR UPPER BODY TILTING FROM HIP JOIN
1DA76..1DA83; DISALLOWED # SIGNWR LIMB COMBINATION..SIGNWR
1DA84 ; PVALID # SIGNWRITING LOCATION HEAD NECK
1DA85..1DA8B; DISALLOWED # SIGNWRITING LOCATION TORSO..SIGNWRITING PARE
1DA8C..1DA9A; UNASSIGNED # <reserved>..<reserved>
1DA9B..1DA9F; PVALID # SIGNWRITING FILL MODIFIER-2..SIGNWRITING FIL
1DA90 ; UNASSIGNED # <reserved>
1DA91..1DA9F; PVALID # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING
1DB0..1DBFF; UNASSIGNED # <reserved>..<reserved>
1E000..1E006; PVALID # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E007 ; UNASSIGNED # <reserved>
1E008..1E01B; PVALID # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBINING
1E019..1E01A; UNASSIGNED # <reserved>..<reserved>
1E01B..1E021; PVALID # COMBINING GLAGOLITIC LETTER SHTA..COMBINING
1E022 ; UNASSIGNED # <reserved>
1E023..1E024; PVALID # COMBINING GLAGOLITIC LETTER YU..COMBINING GL
1E025 ; UNASSIGNED # <reserved>
1E026..1E02A; PVALID # COMBINING GLAGOLITIC LETTER YO..COMBINING GL
1E02B..1E7FF; UNASSIGNED # <reserved>..<reserved>
1E800..1E8C4; PVALID # MENDE KIKAKUI SYLLABLE M001 KI..MENDE KIKAKU
1E8C5..1E8C6; UNASSIGNED # <reserved>..<reserved>
1E8C7..1E8CF; DISALLOWED # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI DIGIT
1E8D0..1E8D6; PVALID # MENDE KIKAKUI COMBINING NUMBER TEENS..MENDE
1E8D7..1E8FF; UNASSIGNED # <reserved>..<reserved>
1E900..1E921; DISALLOWED # ADLAM CAPITAL LETTER ALIF..ADLAM CAPITAL LET
1E922..1E94A; PVALID # ADLAM SMALL LETTER ALIF..ADLAM NUKTA
1E94B..1E94F; UNASSIGNED # <reserved>..<reserved>
1E950..1E959; PVALID # ADLAM DIGIT ZERO..ADLAM DIGIT NINE
1E95A..1E95D; UNASSIGNED # <reserved>..<reserved>
1E95E..1E95F; DISALLOWED # ADLAM INITIAL EXCLAMATION MARK..ADLAM INITIA
1E960..1ECB4; DISALLOWED # INDIC SIYAQ NUMBER ONE..INDIC SIYAQ ALTERNAT
1E971..1EDFF; UNASSIGNED # <reserved>..<reserved>
1EE00..1EE03; DISALLOWED # ARABIC MATHEMATICAL ALEF..ARABIC MATHEMATICA
1EE04 ; UNASSIGNED # <reserved>
1EE05..1EE1F; DISALLOWED # ARABIC MATHEMATICAL WAW..ARABIC MATHEMATICAL
1EE20 ; UNASSIGNED # <reserved>
1EE21..1EE22; DISALLOWED # ARABIC MATHEMATICAL INITIAL BEH..ARABIC MATH
1EE23 ; UNASSIGNED # <reserved>
1EE24 ; DISALLOWED # ARABIC MATHEMATICAL INITIAL HEH
1EE25..1EE26; UNASSIGNED # <reserved>..<reserved>
1EE27 ; DISALLOWED # ARABIC MATHEMATICAL INITIAL HAH
1EE28 ; UNASSIGNED # <reserved>
1EE29..1EE32; DISALLOWED # ARABIC MATHEMATICAL INITIAL YEH..ARABIC MATH
1EE33 ; UNASSIGNED # <reserved>
1EE34..1EE37; DISALLOWED # ARABIC MATHEMATICAL INITIAL SHEEN..ARABIC MA
1EE38 ; UNASSIGNED # <reserved>
1EE39 ; DISALLOWED # ARABIC MATHEMATICAL INITIAL DAD
1EE3A ; UNASSIGNED # <reserved>
1EE3B; DISALLOWED # ARABIC MATHEMATICAL INITIAL GHAIN
1EE3C..1EE41; UNASSIGNED # <reserved>..<reserved>
1EE42; DISALLOWED # ARABIC MATHEMATICAL TAILED JEEM
1EE43..1EE46; UNASSIGNED # <reserved>..<reserved>
1EE47; DISALLOWED # ARABIC MATHEMATICAL TAILED HAH
1EE48; UNASSIGNED # <reserved>
1EE49; DISALLOWED # ARABIC MATHEMATICAL TAILED YEH
1EE4A; UNASSIGNED # <reserved>
1EE4B; DISALLOWED # ARABIC MATHEMATICAL TAILED LAM
1EE4C; UNASSIGNED # <reserved>
1EE4D..1EE4F; DISALLOWED # ARABIC MATHEMATICAL TAILED NOON..ARABIC MATH
1EE50; UNASSIGNED # <reserved>
1EE51..1EE52; DISALLOWED # ARABIC MATHEMATICAL TAILED SAD..ARABIC MATHE
1EE53; UNASSIGNED # <reserved>
1EE54; DISALLOWED # ARABIC MATHEMATICAL TAILED SHEEN
1EE55..1EE56; UNASSIGNED # <reserved>..<reserved>
1EE57; DISALLOWED # ARABIC MATHEMATICAL TAILED KHAH
1EE58; UNASSIGNED # <reserved>
1EE59; DISALLOWED # ARABIC MATHEMATICAL TAILED DAD
1EE5A; UNASSIGNED # <reserved>
1EE5B; DISALLOWED # ARABIC MATHEMATICAL TAILED GHAIN
1EE5C; UNASSIGNED # <reserved>
1EE5D; DISALLOWED # ARABIC MATHEMATICAL TAILED DOTLESS NOON
1EE5E; UNASSIGNED # <reserved>
1EE5F; DISALLOWED # ARABIC MATHEMATICAL TAILED DOTLESS QAF
1EE60; UNASSIGNED # <reserved>
1EE61..1EE62; DISALLOWED # ARABIC MATHEMATICAL STRETCHED BEH..ARABIC MA
1EE63; UNASSIGNED # <reserved>
1EE64; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HEH
1EE65..1EE66; UNASSIGNED # <reserved>..<reserved>
1EE67..1EE6A; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HAH..ARABIC MA
1EE6B; UNASSIGNED # <reserved>
1EE6C..1EE72; DISALLOWED # ARABIC MATHEMATICAL STRETCHED MEEM..ARABIC M
1EE73; UNASSIGNED # <reserved>
1EE74..1EE77; DISALLOWED # ARABIC MATHEMATICAL STRETCHED SHEEN..ARABIC
1EE78; UNASSIGNED # <reserved>
1EE79..1EE7C; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DAD..ARABIC MA
1EE7D; UNASSIGNED # <reserved>
1EE7E; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DOTLESS FEH
1EE7F; UNASSIGNED # <reserved>
1EE80..1EE89; DISALLOWED # ARABIC MATHEMATICAL LOOPED ALEF..ARABIC MATH
1EE8A; UNASSIGNED # <reserved>
1EE8B..1EE98; DISALLOWED # ARABIC MATHEMATICAL LOOPED LAM..ARABIC MATHE
1EE9C..1EEA0; UNASSIGNED # <reserved>..<reserved>
1EEA1..1EEA3; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK BEH..ARABI
1EEA4; UNASSIGNED # <reserved>
1EEA5..1EEA9; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK WAW..ARABI
1EEAA; UNASSIGNED # <reserved>
1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
1EEBC..1EEF; UNASSIGNED # <reserved>..<reserved>
1EEF0..1EEF1; DISALLOWED # ARABIC MATHEMATICAL OPERATOR MEEM WITH HAH W
1EEF2..1EEF3; UNASSIGNED # <reserved>..<reserved>
1F000..1F02B; DISALLOWED # MAHJONG TILE EAST WIND..MAHJONG TILE BACK
1F02C..1F02F; UNASSIGNED # <reserved>..<reserved>
1F030..1F093; DISALLOWED # DOMINO TILE HORIZONTAL BACK..DOMINO TILE VER
1F094..1F09F; UNASSIGNED # <reserved>..<reserved>
1F0A0..1F0A6; DISALLOWED # PLAYING CARD BACK..PLAYING CARD KING OF SPADE
1F0A7..1F0B0; UNASSIGNED # <reserved>..<reserved>
1F0B1..1F0BF; DISALLOWED # PLAYING CARD ACE OF HEARTS..PLAYING CARD RED
1F0C0 ; UNASSIGNED # <reserved>
1F0C1..1F0CF; DISALLOWED # PLAYING CARD ACE OF DIAMONDS..PLAYING CARD B
1F0D0 ; UNASSIGNED # <reserved>
1F0D1..1F0F5; DISALLOWED # PLAYING CARD ACE OF CLUBS..PLAYING CARD TRUM
1F0F6..1F0FF; UNASSIGNED # <reserved>..<reserved>
1F100..1F10C; DISALLOWED # DIGIT ZERO FULL STOP..DINGBAT NEGATIVE CIRC
1F10D..1F10F; UNASSIGNED # <reserved>..<reserved>
1F110..1F11B; DISALLOWED # PARENTHESESIZED LATIN CAPITAL LETTER A..RAISE
1F11C..1F11F; UNASSIGNED # <reserved>..<reserved>
1F120..1F13C; DISALLOWED # NEGATIVE SQUARED LATIN CAPITAL LETTER A..SQU
1F13D..1F1B5; UNASSIGNED # <reserved>..<reserved>
1F1B6..1F1B7; DISALLOWED # REGIONAL INDICATOR SYMBOL LETTER A..SQUAR
1F1B8..1F1FF; UNASSIGNED # <reserved>..<reserved>
1F200..1F20B; DISALLOWED # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEA
1F20C..1F20F; UNASSIGNED # <reserved>..<reserved>
1F210..1F21F; DISALLOWED # SQUARE CJK UNIFIED IDEOGRAPH-624B..SQUA
1F220..1F22F; UNASSIGNED # <reserved>..<reserved>
1F230..1F248; DISALLOWED # TORTOISE SHELL BRACKETED CJK UNIFIED IDEOGRAPH
1F249..1F24F; UNASSIGNED # <reserved>..<reserved>
1F250..1F258; DISALLOWED # CIRCLED IDEOGRAPH ADVANTAGE..CIRCLED IDEOGRAPH
1F259..1F2FF; UNASSIGNED # <reserved>..<reserved>
1F260..1F265; DISALLOWED # RULED SYMBOL FOR FU..ROUNDED SYMBOL FOR CA
1F266..1F26F; UNASSIGNED # <reserved>..<reserved>
1F270..1F273; DISALLOWED # CYCLONE..PAGODA
1F274..1F27F; UNASSIGNED # <reserved>..<reserved>
1F280..1F285; DISALLOWED # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F286..1F28F; UNASSIGNED # <reserved>..<reserved>
1F290..1F299; DISALLOWED # SATELLITE..SKATEBOARD
1F29A..1F29F; UNASSIGNED # <reserved>..<reserved>
1F2A0..1F2FF; UNASSIGNED # <reserved>..<reserved>
1F2E0..1F2E5; DISALLOWED # ALCHEMICAL SYMBOL FOR QUINTESSENCE..ALCHEMIC
1F2E6..1F2FF; UNASSIGNED # <reserved>..<reserved>
1F2F0..1F2F9; DISALLOWED # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEA
1F2FA..1F2FF; UNASSIGNED # <reserved>..<reserved>
1F300..1F305; DISALLOWED # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F306..1F307; DISALLOWED # <reserved>..<reserved>
1F308..1F30D; DISALLOWED # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SER
1F30E..1F30F; DISALLOWED # <reserved>..<reserved>
1F310..1F317; DISALLOWED # WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE
1F888..1F88F; UNASSIGNED  # <reserved>..<reserved>
1F890..1F8AF; DISALLOWED  # LEFTWARDS TRIANGLE ARROWHEAD..WHITE ARROW SH
1F8AE..1F8FF; UNASSIGNED  # <reserved>..<reserved>
1F900..1F90F; DISALLOWED  # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWAR
1F90C..1F90F; UNASSIGNED  # <reserved>..<reserved>
1F910..1F93E; DISALLOWED  # ZIPPER-MOUTH FACE..HANDBALL
1F93F  ; UNASSIGNED  # <reserved>
1F940..1F970; DISALLOWED  # WILTED FLOWER..SMILING FACE WITH SMILING EYE
1F971..1F972; UNASSIGNED  # <reserved>..<reserved>
1F973..1F976; DISALLOWED  # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F977..1F979; UNASSIGNED  # <reserved>..<reserved>
1F97A  ; DISALLOWED  # FACE WITH PLEADING EYES
1F97B  ; UNASSIGNED  # <reserved>
1F97C..1F992; DISALLOWED  # LAB COAT..SWAN
1F9A3..1F99F; UNASSIGNED  # <reserved>..<reserved>
1F9B0..1F9B9; DISALLOWED  # EMOJI COMPONENT RED HAIR..SUPERVILLAIN
1F9BA..1F9BF; UNASSIGNED  # <reserved>..<reserved>
1F9C0..1F9C2; DISALLOWED  # CHEESE WEDGE..SALT SHAKER
1F9C3..1F9CF; UNASSIGNED  # <reserved>..<reserved>
1F9D0..1F9FF; DISALLOWED  # FACE WITH MONOCLE..NAZAR AMULET
1FA00..1FA5F; UNASSIGNED  # <reserved>..<reserved>
1FA60..1FA6D; DISALLOWED  # XIANQI RED GENERAL..XIANQI BLACK SOLDIER
1FA6E..1FFFD; UNASSIGNED  # <reserved>..<reserved>
1FFE..1FFF; DISALLOWED  # <noncharacter>..<noncharacter>
20000..2A6D6; PVALID  # <CJK Ideograph Extension B>..<CJK Ideograph
2A6D7..2A6FF; UNASSIGNED  # <reserved>..<reserved>
2A700..2B734; PVALID  # <CJK Ideograph Extension C>..<CJK Ideograph
2B735..2B73F; UNASSIGNED  # <reserved>..<reserved>
2B740..2B81D; PVALID  # <CJK Ideograph Extension D>..<CJK Ideograph
2B81E..2B81F; UNASSIGNED  # <reserved>..<reserved>
2B820..2CEA1; PVALID  # <CJK Ideograph Extension E>..<CJK Ideograph
2CEA2..2CEAF; UNASSIGNED  # <reserved>..<reserved>
2CEB0..2EBE0; PVALID  # <CJK Ideograph Extension F>..<CJK Ideograph
2EBE1..2F7FF; UNASSIGNED  # <reserved>..<reserved>
2F800..2FA1D; DISALLOWED  # CJK COMPATIBILITY IDEOGRAPH-2F800..<CJK COMP
2FA1E..2FFFD; UNASSIGNED  # <reserved>..<reserved>
2FFFE..3FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
30000..3FFF; UNASSIGNED  # <reserved>..<reserved>
3FFFF..4FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
40000..5FFFF; UNASSIGNED  # <reserved>..<reserved>
4FFFF..5FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
50000..6FFFF; UNASSIGNED  # <reserved>..<reserved>
6FFFF..7FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
70000..7FFFF; UNASSIGNED  # <reserved>..<reserved>
7FFFF..7FFFF; DISALLOWED  # <noncharacter>..<noncharacter>
80000..BFFFD; UNASSIGNED  # <reserved>..<reserved>
8FFFE..8FFFF; DISALLOWED # <noncharacter>..<noncharacter>
90000..9FFFD; UNASSIGNED # <reserved>..<reserved>
9FFFFE..9FFFF; DISALLOWED # <noncharacter>..<noncharacter>
A0000..AFFFD; UNASSIGNED # <reserved>..<reserved>
AFFFE..AFFFD; DISALLOWED # <noncharacter>..<noncharacter>
B0000..BFFFD; UNASSIGNED # <reserved>..<reserved>
BFFFFE..BFFFF; DISALLOWED # <noncharacter>..<noncharacter>
C0000..CFFFD; UNASSIGNED # <reserved>..<reserved>
CFFFFE..CFFFF; DISALLOWED # <noncharacter>..<noncharacter>
D0000..DFFFD; UNASSIGNED # <reserved>..<reserved>
DFFFFE..DFFFF; DISALLOWED # <noncharacter>..<noncharacter>
E0000 ; UNASSIGNED # <reserved>
E0001 ; DISALLOWED # LANGUAGE TAG
E0002..E001F; UNASSIGNED # <reserved>..<reserved>
E0020..E007F; DISALLOWED # TAG SPACE..CANCEL TAG
E0080..E00FF; UNASSIGNED # <reserved>..<reserved>
E0100..E01EF; DISALLOWED # VARIATION SELECTOR-17..VARIATION SELECTOR-25
E01F0..EFFFD; UNASSIGNED # <reserved>..<reserved>
EFFFE..10FFFF; DISALLOWED # <noncharacter>..<noncharacter>

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