Abstract

This document describes the changes between Unicode 6.3.0 and Unicode 12.0.0 in the context of IDNA2008. Some additions and changes have been made in the Unicode Standard that affect the values produced by the algorithm IDNA2008 specifies. Although IDNA2008 allows adding exceptions to the algorithm for backward compatibility; however, this document does not add any such exceptions. This document provides the necessary tables to IANA to make its database consistent with Unicode 12.0.0.

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

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Table of Contents

1.  Introduction ................................................. 3
2.  Keywords for Requirement Levels ............................. 4
3.  Background .................................................. 4
   3.1.  IDNA2008 Documents .................................... 4
   3.2.  Additional important IDNA2008-related documents ...... 5
   3.3.  Deployment .............................................. 5
4.  Notable Changes Between Unicode 6.2.0 and 12.0.0 ............... 7
   4.1.  Changes between Unicode 6.2.0 and 7.0.0 ............... 7
   4.2.  Changes between Unicode 7.0.0 and 10.0.0 .............. 8
   4.3.  Changes between Unicode 10.0.0 and 11.0.0 ............. 8
   4.4.  Changes between Unicode 11.0.0 and 12.0.0 ............. 9
5.  U+111C9 SHARADA SANDHI MARK ............................... 10
6.  Conclusion .................................................. 10
7.  IANA Considerations ........................................ 11
8.  Security Considerations ..................................... 11
9.  Acknowledgements ........................................... 11
10. References .................................................. 11
    10.1.  Normative References .................................. 11
    10.2.  Non-normative references ............................ 12
   Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0 ....... 15
   Appendix B. Changes from Unicode 7.0.0 to Unicode 8.0.0 ....... 18
   Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0 ....... 19
   Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0 ....... 20
   Appendix E. Changes from Unicode 10.0.0 to Unicode 11.0.0 ...... 21
   Appendix F. Changes from Unicode 11.0.0 to Unicode 12.0.0 ...... 23
   Appendix G. Code points in Unicode Character Database (UCD)
               format for Unicode 12.0.0 ........................... 24
   Author’s Address ........................................... 84
1. Introduction

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

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

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

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

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

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

As described in Section 4, more changes have been made to code points between Unicode version 6.0 and 12.0.0 so that the derived property value have been changed in an incompatible way. This document concludes that no exceptions are to be added to IDNA2008 even though there are changes in the derived property value is a result of the changes made in Unicode between version 6.2.0 and 12.0.0.
Further, in 2015, the Internet Architecture Board (IAB) issued a statement [IAB] which requested the IETF to resolve the issues related to the code point ARABIC LETTER BEH WITH HAMZA ABOVE (U+08A1) that was introduced in Unicode 7.0.0 [Unicode-7.0.0]. This document concludes that this code point is not to be added to the exception list either. It should be noted that the review on U+08A1 indicated that it is not an isolated case and that a number of PVALID code points of long standing may have similar issues. The problem is described in more detail in a document in progress, draft-klensin-idna-5892upd-unicode70 [I-D.klensin-idna-5892upd-unicode70]. A fuller resolution of this issue may require future changes to IDNA2008 or additional specifications, but there is insufficient understanding yet of what would constitute the best approach.

2. Keywords for Requirement Levels

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

3. Background

3.1. IDNA2008 Documents

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

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

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

- The Unicode Code Points and Internationalized Domain Names for Applications (IDNA) [RFC5892], informally called "Tables", lists the categories and rules that identify the code points allowed in a label written in native character form (called a "U-label"), and is based on Unicode 5.2.0 [Unicode-5.2.0] code point assignments and additional rules unique to IDNA2008. The Unicode-based rules in RFC 4892 are expected to be stable across Unicode updates and hence independent of Unicode versions. RFC 5892 [RFC5892]
obsoletes RFC 3491 [RFC3491], and in particular the use of the tables to which RFC 3491 [RFC3491] refers.

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

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

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

3.2. Additional important IDNA2008-related documents

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

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

3.3. Deployment

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

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

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

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

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

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

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

This progressing subsetting and narrowing of the repertoire of code points that can be used in labels is an implementation of the principles of being conservative when deciding what code points to include in such a subset. SAC-084 [SAC-084] and RFC 6912 [RFC6912] recommend to DNS registries and other organizations to be conservative when creating their subsets, and to use the principle of creating subsets by inclusion.
4. Notable Changes Between Unicode 6.2.0 and 12.0.0

4.1. Changes between Unicode 6.2.0 and 7.0.0

Change in number of characters in each category:

- Code points that changed derived property value: 0
- PVALID changed from 97946 to 99867 (+1921)
- UNASSIGNED changed from 864348 to 861509 (-2839)
- CONTEXTJ did not change, at 2
- CONTEXTO did not change, at 25
- DISALLOWED changed from 151791 to 152709 (+918)
- TOTAL did not change, at 1114112

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

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

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

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

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

4.2. Changes between Unicode 7.0.0 and 10.0.0

Change in number of characters in each category:

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

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

4.3. Changes between Unicode 10.0.0 and 11.0.0

Change in number of characters in each category:

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

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

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

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

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

- The newly assigned 684 characters are assigned a derived property value as a result of applying the IDNA2008 algorithm.
- The Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF existed before IDNA2008 was created. Applying the IDNA2008 algorithm to the code points assigned the derived property value PVALID, and that value is unchanged even if the underlying Unicode properties have changed. The newly encoded Mtavruli letters have general category "Lu" and are therefore DISALLOWED.
- The U+111C9 SHARADA SANDHI MARK was added to Unicode 8.0.0 [Unicode-8.0.0]. Applying the IDNA2008 algorithm to the code point assigned the derived property value DISALLOWED. The changes in the underlying properties in the Unicode Standard Version 11.0.0 [Unicode-11.0.0] caused the derived property value to change to PVALID.
- The characters ZANABAZAR SQUARE VOWEL SIGN AI (U+11A07) and ZANABAZAR SQUARE VOWEL SIGN AU (U+11A08) were added to Unicode 10.0.0 [Unicode-10.0.0]. Applying the IDNA2008 algorithm to the code points assigned the derived property value PVALID, and that value is unchanged even if the underlying Unicode properties have changed.
- SPHERICAL ANGLE OPENING UP (U+29A1) existed before IDNA2008 was created. Applying the IDNA2008 algorithm to the code point assigned the derived property value DISALLOWED, and that value is unchanged even if the underlying Unicode properties have changed.

4.4. Changes between Unicode 11.0.0 and 12.0.0

Change in number of characters in each category:

Code points that changed derived property value: 0
PVALID changed from 122734 to 123006 (+272)

UNASSIGNED changed from 837091 to 836537 (-554)

CONTEXTJ did not change, at 2

CONTEXTO did not change, at 25

DISALLOWED changed from from 154260 to 154542 (+282)

TOTAL did not change, at 1114112

5. U+111C9 SHARADA SANDHI MARK

As one can see in Section 4, there is one incompatible change made between Unicode 6.2.0 and 12.0.0, the code point U+111C9. It has changed derived property value from DISALLOWED to PVALID. In situations like these, IDNA2008 allow for addition of rules to RFC 5892 [RFC5892] section 2.7. (BackwardCompatible (G)). The code point if being accepted might due to implementations of IDNA2008 based on older versions of Unicode than 11.0.0 be rejected. As the character is rarely used outside of the group of Sharada specialist, and used in some records for indicating sandhi breaks, the conclusion is that it could be added as an exception as well as change property value as the use of the code point is limited outside a special community. As including an exception would require implementation changes in deployed implementations of IDNA20008, the editor proposes that such a BackwardCompatible rule NOT to be added to IDNA2008.

6. Conclusion

As described in Section 4 and Section 5, changes have been made to Unicode between version 6.2.0 and 12.0.0. Some changes to specific characters changed their derived property value, while other changes did not. Given what is described in Section 3.3 and the changes described, including implications to normalization, the conclusion of this document is to not add any exception rules to IDNA2008.

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

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

8. Security Considerations

This document makes recommendations regarding the use of the IDNA2008 algorithm for calculation of derived property values, based on the Unicode version 12.0.0. This recommendation do not say anything about what recommendations to make for future versions of the Unicode Standard.

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

9. Acknowledgements

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10. References

10.1. Normative References


10.2. Non-normative references


[IAB]  Internet Architecture Board, "IAB Statement on Identifiers and Unicode 7.0.0", IAB Statement on Identifiers and Unicode 7.0.0

[N4330]  Pandey, A., "Proposal to Encode the SANDHI MARK for Sharada", Proposal to Encode the SANDHI MARK for Sharada

[RFC3454]  Hoffman, P. and M. Blanchet, "Preparation of Internationalized Strings ("stringprep")", RFC 3454,
        DOI 10.17487/RFC3454, December 2002,

        RFC 3490, DOI 10.17487/RFC3490, March 2003,

[RFC5894]  Klensin, J., "Internationalized Domain Names for Applications (IDNA): Background, Explanation, and Rationale",
        RFC 5894, DOI 10.17487/RFC5894, August 2010,

        RFC 5895, DOI 10.17487/RFC5895, September 2010,

        RFC 6912, DOI 10.17487/RFC6912, April 2013,


[Unicode-11.0.0]

[Unicode-12.0.0]

[Unicode-3.2.0]

[Unicode-5.2.0]

[Unicode-6.0.0]

[Unicode-6.3.0]

[Unicode-7.0.0]

[Unicode-8.0.0]

[Unicode-9.0.0]
Appendix A. Changes from Unicode 6.3.0 to Unicode 7.0.0

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

037F ; DISALLOWED # GREEK CAPITAL LETTER YOT
0528..052F ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK..C
058D..058E ; DISALLOWED # RIGHT-FACING ARmeniAN eternity sIgn..LEFT-FA
0605 ; DISALLOWED # ARABIC NUMBER MARK ABOVE
08A1 ; PVALID # ARABIC LETTER BEH WITH HAMZA ABOVE
08AD..08B2 ; PVALID # ARABIC LETTER LOW ALEF..ARABIC LETTER ZAIN W
08FF ; PVALID # ARABIC MARK SIDEWAYS NOON GHUNNA
0978 ; PVALID # DEVANAGARI LETTER MARWARI DDA
0980 ; PVALID # BENGALI ANJI
0C00 ; PVALID # TELUGU SIGN COMBINING CANDRABINDU ABOVE
0C34 ; PVALID # TELUGU LETTER LLLA
0C81 ; PVALID # KANNADA SIGN CANDRABINDU
0D01 ; PVALID # MALAYALAM SIGN CANDRABINDU
0DE6..0DEF ; PVALID # SINHALA LITH DIGIT ZERO..SINHALA LITH DIGIT
16F1..16F8 ; PVALID # RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A
191D..191E ; PVALID # LIMBU LETTER GYAN..LIMBU LETTER TRA
1A80..1A8E ; PVALID # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
1CF8..1CF9 ; PVALID # VEDIC TONE RING ABOVE..VEDIC TONE DOUBLE RIN
1DE7..1DF5 ; PVALID # COMBINING LATIN SMALL LETTER ALPHA..COMBININ
20BB..20BD ; DISALLOWED # NORDIC MARK SIGN..RUBLE SIGN
23F4..23FA ; DISALLOWED # BLACK MEDIUM LEFT-POINTING TRIANGLE..BLACK C
2700 ; DISALLOWED # BLACK SAFETY SCISSORS
2B4D..2B4F ; DISALLOWED # DOWNWARDS TRIANGLE-HEADED ZIGZAG ARROW..SHOR
2B5A..2B73 ; DISALLOWED # SLANTED NORTH ARROW WITH HOOKED HEAD..DOWNWA
2B76..2B95 ; DISALLOWED # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
2B98..2BB9 ; DISALLOWED # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BBD..2BC8 ; DISALLOWED # BALLOT BOX WITH LIGHT X..BLACK MEDIUM RIGHT-
2BCA..2BD1 ; DISALLOWED # TOP HALF BLACK CIRCLE..UNCERTAINTY SIGN
2E3C..2E42 ; DISALLOWED # STENOGRAPHIC FULL STOP..DOUBLE LOW-REVERSED-
A698..A69D ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE O..MODIFIER L
A794..A79F ; PVALID # LATIN SMALL LETTER C WITH PALATAL HOOK..LATI
A7AB..A7AD ; DISALLOWED # LATIN CAPITAL LETTER REVERSED OPEN E..LATIN
A7B0..A7B1 ; DISALLOWED # LATIN CAPITAL LETTER TURNED K..LATIN CAPITAL
A7F7 ; PVALID # LATIN EPIGRAPHIC LETTER SIDEWAYS I
A9E0..A9FE ; PVALID # MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI
AA7C..AA7F ; PVALID # MYANMAR SIGN TAI LAING TONE-2..MYANMAR LETTE
AB30..AB5F ; PVALID # LATIN SMALL LETTER BARRED ALPHA..MODIFIER LE
AB64..AB65 ; PVALID # LATIN SMALL LETTER INVERTED ALPHA..GREEK LET
FE27..FE2D ; PVALID     # COMBINING LIGATURE LEFT HALF BELOW..COMBINING LIGATURE RIGHT HALF BELOW
1018B..1018C; DISALLOWED     # GREEK ONE QUARTER SIGN..GREEK SINUSOID SIGN
101A0 ; DISALLOWED     # GREEK SYMBOLOGY RGB
102E0..102FB; PVALID     # COPTIC EPACT THOUSANDS MARK..COPTIC EPACT NU
1031F ; PVALID     # OLD ITALIC LETTER ESS
10350..1037A; PVALID     # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L
10500..10527; PVALID     # ELBASAN LETTER A..ELBASAN LETTER KHE
10530..10563; PVALID     # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALBANIAN CITATION MARK
1056F ; DISALLOWED     # CAUCASIAN ALBANIAN CITATION MARK
10600..10736; PVALID     # LINEAR A SIGN AB001..LINEAR A SIGN A664
10740..10755; PVALID     # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10760..10767; PVALID     # LINEAR A SIGN A800..LINEAR A SIGN A807
10860..1089E; PVALID     # PALMYRENE LETTER ALEPH..NABATAEAN LETTER TAW
108A7..108AF; DISALLOWED     # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
10A80..10A9F; PVALID     # OLD NORTH ARABIAN LETTER HEH..OLD NORTH ARABIAN LETT
10AC0..10AE6; PVALID     # MANICHAEAN LETTER ALEPH..MANICHAEAN ABBREVIATION SIGN
10AEB..10AF6; DISALLOWED     # MANICHAEAN NUMBER ONE..MANICHAEAN PUNCTUATION
10BB0..10BF9; 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 EXAM
111E1..111F4; DISALLOWED     # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
11200..11211; PVALID     # KHOJKI LETTER A..KHOJKI LETTER JJA
11213..1123D; PVALID     # KHOJKI LETTER NYA..KHOJKI ABBREVIATION SIGN
112B0..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 LL A
11335..11339; PVALID     # GRANTHA LETTER VA..GRANTHA LETTER HA
1133C..11344; PVALID     # GRANTHA SIGN NUKTA..GRANTHA VOWEL SIGN VOCAL
11347..11348; PVALID     # GRANTHA VOWEL SIGN EE..GRANTHA VOWEL SIGN AI
1134B..1134D; PVALID     # GRANTHA VOWEL SIGN OO..GRANTHA SIGN VIRAMA
11357 ; PVALID     # GRANTHA AU LENGTH MARK
1135D..11363; PVALID     # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11366..1136C; PVALID     # COMBINING GRANTHA DIGIT ZERO..COMBINING GRANTHA DIGIT ONE
11370..11374; PVALID     # COMBINING GRANTHA LETTER A..COMBINING GRANTHA LETTER E
11480..114C7; PVALID     # TIRHUTA ANJI..TIRHUTA OM
114D0..114D9; PVALID     # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
11580..115B5; PVALID     # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B8..115C9; PVALID     # SIDDHAM VOWEL SIGN E..SIDDHAM END OF TEXT MARK
11600..11644; PVALID     # MODI LETTER A..MODI SIGN HUVA
11650..11659; PVALID  # MODI DIGIT ZERO..MODI DIGIT NINE
118A0..118F2; DISALLOWED  # WARANG CITI CAPITAL LETTER NGAA..WARANG CITI OM
118FF; PVALID  # WARANG CITI OM
11AC0..11AF8; PVALID  # PVALID  # PAU CIN HAU LETTER PA..PAU CIN HAU GLOTTAL S
1236F..12398; PVALID  # CUNEIFORM SIGN KAP ELAMITE..CUNEIFORM SIGN U
12463..1246E; DISALLOWED  # CUNEIFORM NUMERIC SIGN ONE QUARTER GUR..CUNE
12474; DISALLOWED  # CUNEIFORM PUNCTUATION SIGN DIAGONAL 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
16A00..16AED; PVALID  # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16B00..16B45; PVALID  # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG SIGN C
16B50..16B59; PVALID  # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT N
16B5B..16B61; DISALLOWED  # MRO DANDA..MRO DOUBLE DANDA
16B63..16B77; PVALID  # PAHAWH HMONG SIGN VOS LUB..PAHAWH HMONG SIGN
16B7D..16B8F; PVALID  # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC70..1BC7C; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLOYAN
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HI
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW
1BC9C..1BCA3; DISALLOWED  # DUPLOYAN SIGN O WITH CROSS..SHORTHAND FORMAT
1E800..1E8C4; PVALID  # MENDE KIKAKUI SYLLABLE M001 KI..MENDE KIKAKUI
1E8C7..1E8D6; DISALLOWED  # MENDE KIKAKUI DIGIT ONE..MENDE KIKAKUI COMBI
1F0BF; DISALLOWED  # PLAYING CARD RED JOKER
1F0E0..1F0F5; DISALLOWED  # PLAYING CARD FOOL..PLAYING CARD TRUMP-21
1F10B..1F10C; DISALLOWED  # DINDB AT CIRCLED SANS-SERIF DIGIT ZERO..DINGB
1F321..1F32C; DISALLOWED  # THERMOMETER..WIND BLOWING FACE
1F336; DISALLOWED  # HOT PEPPER
1F337; DISALLOWED  # FORK AND KNIFE WITH PLATE
1F394..1F399; DISALLOWED  # HEART WITH TIP ON THE LEFT..ADMISSION TICKET
1F3C5; DISALLOWED  # SPORTS MEDAL
1F3CB..1F3CE; DISALLOWED  # WEIGHT LIFTER..RACING CAR
1F3D4..1F3DF; DISALLOWED  # SNOW CAPPED MOUNTAIN..STADIUM
1F3DA..1F3F7; DISALLOWED  # DESKTOP COMPUTER..WORLD MAP
1F3F1..1F3F7; DISALLOWED  # CHIPMUNK
1F43F; DISALLOWED  # EYE
1F4F8; DISALLOWED  # CAMERA WITH FLASH
1F4FD..1F4FE; DISALLOWED  # FILM PROJECTOR..PORTABLE STEREO
1F53E..1F53F; DISALLOWED  # LOWER RIGHT SHADOWED WHITE CIRCLE..UPPER RIG
1F544..1F54A; DISALLOWED  # NOTCHED RIGHT SEMICIRCLE WITH THREE DOTS..DO
1F568..1F579; DISALLOWED  # RIGHT SPEAKER..JOYSTICK
1F57B..1F583; DISALLOWED  # LEFT HAND TELEPHONE RECEIVER..BLACK DOWN POI
1F5A5..1F5A6; DISALLOWED  # DESKTOP COMPUTER..WORLD MAP
1F641..1F642; DISALLOWED  # SLIGHTLY FROWNING FACE..SLIGHTLY SMILING FAC
1F650..1F67F; DISALLOWED  # NORTH WEST POINTING LEAF..REVERSE CHECKER BO
1F6C6..1F6CF; DISALLOWED  # TRIANGLE WITH ROUNDED CORNERS..BED
1F6E0..1F6EC; DISALLOWED  # HAMMER AND WRENCH..AIRPLANE ARRIVING
1F6F0..1F6F3; DISALLOWED # SATELLITE..PASSENGER SHIP
1F780..1F7D4; DISALLOWED # BLACK LEFT-POINTING ISOSCELES RIGHT TRIANGLE
1F800..1F80B; DISALLOWED # LEFTWARDS ARROW WITH SMALL TRIANGLE ARROWHEAD
1F810..1F847; DISALLOWED # LEFTWARDS ARROW WITH SMALL EQUILATERAL ARROW
1F850..1F859; DISALLOWED # LEFTWARDS SANS-SERIF ARROW..UP DOWN SANS-SERIF
1F860..1F887; DISALLOWED # WIDE-HEADED LEFTWARDS LIGHT BARB ARROW..WIDE

Appendix B. Changes from Unicode 7.0.0 to Unicode 8.0.0

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

08B3..08B4  ; PVALID # ARABIC LETTER AIN WITH THREE DOTS BELOW..ARA
08E3        ; PVALID # ARABIC TURNED DAMMA BELOW
0AF9        ; PVALID # GUJARATI LETTER ZHA
0C5A        ; PVALID # TELUGU LETTER RRRA
0D5F        ; PVALID # MALAYALAM LETTER ARCHAIC II
13F5        ; PVALID # CHEROKEE LETTER MV
13F8..13FD  ; DISALLOWED # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LET
20BE        ; DISALLOWED # LARI SIGN
218A..218B  ; DISALLOWED # TURNED DIGIT TWO..TURNED DIGIT THREE
2BEC..2BEF  ; DISALLOWED # LEFTWARDS TWO-HEADED ARROW WITH TRIANGLE ARR
9FCD..9FD5  ; PVALID # <CJK Ideograph>..<CJK Ideograph>
A69E        ; PVALID # COMBINING CYRILLIC LETTER EF
A78F        ; PVALID # LATIN LETTER SINOGICAL DOT
A7B2..A7B7  ; DISALLOWED # LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LA
A8FC..A9FD  ; DISALLOWED # DEVANAGARI SIGN SIDDHAM..DEVANAGARI JAIN OM
AB60..AB63  ; PVVALID # LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LE
AB70..ABBF  ; DISALLOWED # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT
FE2E..FE2F  ; PVVALID # COMBINING CYRILLIC TITLO LEFT HALF..COMBININ
108E0..108F2; PVVALID # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F4..108F5; PVVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
108FB..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
109BC..109BD; DISALLOWED # MEROITIC Cursive fraction eleven twelfth..M
109C0..109CF; DISALLOWED # MEROITIC Cursive number one..MEROITIC CURSIV
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROI
10CB0..10CB2; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIA
10CC0..10CF2; PVVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMB
111C9..111CC; DISALLOWED # SHARADA SANDHI MARK..SHARADA EXTRA SHORT VOW
111DB..111DF; DISALLOWED # SHARADA SIGN SIDDHAM..SHARADA SECTION MARK-2
11280..11286; PVVALID # MULTANI LETTER A..MULTANI LETTER GA
11288        ; PVVALID # MULTANI LETTER GHA
1128A..1128D; PVVALID # MULTANI LETTER CA..MULTANI LETTER JJA
1128F..1129D; PVVALID # MULTANI LETTER NYA..MULTANI LETTER BA
1129F..112AF; PVVALID # MULTANI LETTER BHA..MULTANI SECTION MARK
11300        ; PVVALID # GRANTHA SIGN COMBINING ANUSVARA ABOVE
11350        ; PVVALID # GRANTHA OM
Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

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

<table>
<thead>
<tr>
<th>Character Range</th>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>08B6..08BD</td>
<td>PVALID</td>
<td>ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA</td>
</tr>
<tr>
<td>08D4..08E2</td>
<td>PVALID</td>
<td>ARABIC SMALL HIGH WORD AR-RUB..ARABIC DISPUT</td>
</tr>
<tr>
<td>0C80</td>
<td>PVALID</td>
<td>KANNADA SIGN SPACING CANDRABINDU</td>
</tr>
<tr>
<td>0D4F</td>
<td>DISALLOWED</td>
<td>MALAYALAM SIGN PARA</td>
</tr>
<tr>
<td>0D54..0D56</td>
<td>PVALID</td>
<td>MALAYALAM LETTER CHILLU M..MALAYALAM LETTER</td>
</tr>
<tr>
<td>0D58..0D5E</td>
<td>DISALLOWED</td>
<td>MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI</td>
</tr>
<tr>
<td>0D76..0D78</td>
<td>DISALLOWED</td>
<td>MALAYALAM FRACTION ONE SIXTEENTH..MALAYALAM</td>
</tr>
<tr>
<td>1C80..1C88</td>
<td>DISALLOWED</td>
<td>CYRILLIC SMALL LETTER ROUNDED VE..CYRILLIC S</td>
</tr>
<tr>
<td>1DFB</td>
<td>PVALID</td>
<td>COMBINING DELETION MARK</td>
</tr>
<tr>
<td>23F8..23FE</td>
<td>DISALLOWED</td>
<td>POWER SYMBOL..POWER SLEEP SYMBOL</td>
</tr>
<tr>
<td>2E43..2E44</td>
<td>DISALLOWED</td>
<td>DASH WITH LEFT UPTURN..DOUBLE SUSPENSION MAR</td>
</tr>
<tr>
<td>A7AE</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER SMALL CAPITAL I</td>
</tr>
<tr>
<td>A8C5</td>
<td>PVALID</td>
<td>SAURASHTRA SIGN CANDRABINDU</td>
</tr>
<tr>
<td>1018D..1018E</td>
<td>DISALLOWED</td>
<td>GREEK INDICTION SIGN..NOMISMA SIGN</td>
</tr>
<tr>
<td>10480..104D3</td>
<td>DISALLOWED</td>
<td>OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER</td>
</tr>
<tr>
<td>104D8..104FB</td>
<td>PVALID</td>
<td>OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA</td>
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<tr>
<td>1123E</td>
<td>PVALID</td>
<td>KHOJKI SIGN SUKUN</td>
</tr>
<tr>
<td>11400..11459</td>
<td>PVALID</td>
<td>NEWA LETTER A..NEWA DIGIT NINE</td>
</tr>
<tr>
<td>1145B</td>
<td>DISALLOWED</td>
<td>NEWA PLACEHOLDER MARK</td>
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<tr>
<td>1145D</td>
<td>DISALLOWED</td>
<td>NEWA INSERTION SIGN</td>
</tr>
</tbody>
</table>
2066..206C; DISALLOWED  # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
206C0..206C8; PVALID  # BHAIIKUSI LETTER A..BHAIIKUSI LETTER VOCALIC
206CA..206C6; PVALID  # BHAIIKUSI LETTER E..BHAIIKUSI VOWEL SIGN VOC
206C8..206C4; PVALID  # BHAIIKUSI VOWEL SIGN E..BHAIIKUSI GAP FILLER
206C6..206C8; PVALID  # BHAIIKUSI DIGIT ZERO..BHAIIKUSI HUNDREDS UNI
206C8..206C8; DISALLOWED  # MARCHEN HEAD MARK..MARCHEN LETTER A
206CA..206CA; PVALID  # MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN
206CA..206CA; PVALID  # MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA
2078E0; PVALID  # TANGUT ITERATION MARK
21700..2170C; PVALID  # <Tangut Ideograph>..<Tangut Ideograph>
21800..21802; PVALID  # TANGUT COMPONENT-001..TANGUT COMPONENT-755
21E00..21E00; PVALID  # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
21E00..21E01; PVALID  # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBININ
21E01..21E02; PVALID  # COMBINING GLAGOLITIC LETTER SHTA..COMBINING
21E02..21E03; PVALID  # COMBINING GLAGOLITIC LETTER YU..COMBINING GL
21E03..21E04; PVALID  # COMBINING GLAGOLITIC LETTER YO..COMBINING GL
21E900..21E94A; DISALLOWED  # ADLAM CAPITAL LETTER ALIF..ADLAM NUKTA
21E950..21E959; PVALID  # ADLAM DIGIT ZERO..ADLAM DIGIT NINE
21E95E..21E96F; DISALLOWED  # ADLAM INITIAL EXCLAMATION MARK..ADLAM INITIA
1F19B..1F1AC; DISALLOWED  # SQUARED THREE D..SQUARED VOD
1F23B; DISALLOWED  # SQUARED CJK UNIFIED IDEOGRAPH-914D
1F57A; DISALLOWED  # MAN DANCING
1F5A4; DISALLOWED  # BLACK HEART
1F6D1..1F6D2; DISALLOWED  # OCTAGONAL SIGN..SHOPPING TROLLEY
1F6F4..1F6F6; DISALLOWED  # SCOOTER..CANOE
1F919..1F91E; DISALLOWED  # CALL ME HAND..HAND WITH INDEX AND MIDDLE FIN
1F920..1F927; DISALLOWED  # FACE WITH COWBOY HAT..SNEEZING FACE
1F930; DISALLOWED  # PREGNANT WOMAN
1F933..1F93E; DISALLOWED  # SELFIE..HANDBALL
1F940..1F94B; DISALLOWED  # WILTED FLOWER..MARTIAL ARTS UNIFORM
1F950..1F95E; DISALLOWED  # CROISSANT..PANCAKES

Appendix D.  Changes from Unicode 9.0.0 to Unicode 10.0.0

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

Changes from derived property value DISALLOWED to PVALID.

111C9 ; PVALID       # SHARADA SANDHI MARK

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.
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 # GURMUHKI ABBREVIATION SIGN
0C04 ; PVALID # TELUGU SIGN COMBINING ANUSVARA ABOVE
0C84 ; DISALLOWED # KANNADA SIGN SIDDHAM
1878 ; PVALID # MONGOLIAN LETTER CHA WITH TWO DOTS
1C90..1CBA ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBD..1CBF ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..GEORGI
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
32F ; PVALID # LATIN LETTER SMALL CAPITAL Q
A8FE..A8FF ; PVALID # DEVANAGARI LETTER TTA..DEVANAGARI VOWEL SIGN
B635..B638; PVALID # KURMANJITI LETTER KAR..KURMANJITI LETTER KAR
B9A4..B9A7; PVALID # KURMANJITI LETTER KAM..KURMANJITI LETTER KAM
B9F8..B9FB; PVALID # KURMANJITI LETTER KAM..KURMANJITI LETTER KAM
FF9F..FFFC; PVALID # KURMANJITI LETTER KAM..KURMANJITI LETTER KAM

Appendix F. Changes from Unicode 11.0.0 to Unicode 12.0.0

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

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<th>Code Points</th>
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<td>DALVA BUILDING Block Series</td>
</tr>
<tr>
<td>0E86..0E8A</td>
<td>VADWA BUILDING Block Series</td>
</tr>
<tr>
<td>0E8C..0EA3</td>
<td>VADWA BUILDING Block Series</td>
</tr>
<tr>
<td>0EA7..0EB2</td>
<td>VADWA BUILDING Block Series</td>
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<td>VADWA BUILDING Block Series</td>
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<tr>
<td>1CD4..1CFA</td>
<td>VADWA BUILDING Block Series</td>
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<tr>
<td>2B98..2C2E</td>
<td>VADWA BUILDING Block Series</td>
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<td>2E30..2E4F</td>
<td>VADWA BUILDING Block Series</td>
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<tr>
<td>A7B4..A7BF</td>
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</tr>
<tr>
<td>A7C2..A7C3</td>
<td>VADWA BUILDING Block Series</td>
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<td>A7C4..A7C6</td>
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<tr>
<td>A860..A867</td>
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<tr>
<td>1145E..1145F</td>
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<td>11680..116B8</td>
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<tr>
<td>16F4F..16F87</td>
<td>VADWA BUILDING Block Series</td>
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Appendix G.  Code points in Unicode Character Database (UCD) format for Unicode 12.0.0

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..007E ; DISALLOWED # LEFT CURLY BRACKET..PIERCED SIGN
00B7 ; CONTEXTO # MIDDLE DOT
00B8..00DB ; DISALLOWED # CEDILLA..LATIN CAPITAL LETTER THORN
00DE..00F6 ; PVALID # LATIN SMALL LETTER SHARP S..LATIN SMALL LETTER T
00F7 ; DISALLOWED # DIVISION SIGN
00F8..00FF ; PVALID # LATIN SMALL LETTER O WITH STROKE..LATIN SMALL CAPITAL LETTER A WITH MACRON
0100 ; DISALLOWED # LATIN SMALL 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 CIRCUMFLEX
0109 ; PVALID  # LATIN SMALL LETTER C WITH CIRCUMFLEX
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
0116 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH OGONEK
0117 ; PVALID  # LATIN SMALL LETTER E WITH OGONEK
0118 ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CARON
0119 ; PVALID  # LATIN SMALL LETTER E WITH CARON
011A ; DISALLOWED  # LATIN CAPITAL LETTER G WITH CIRCUMFLEX
011B ; PVALID  # LATIN SMALL LETTER G WITH CIRCUMFLEX
011C ; DISALLOWED  # LATIN CAPITAL LETTER G WITH CEDILLA
011D ; PVALID  # LATIN SMALL LETTER G WITH CEDILLA
011E ; DISALLOWED  # LATIN CAPITAL LETTER H WITH CIRCUMFLEX
011F ; PVALID  # LATIN SMALL LETTER H WITH CIRCUMFLEX
0120 ; DISALLOWED  # LATIN CAPITAL LETTER H WITH STROKE
0121 ; PVALID  # LATIN SMALL LETTER H WITH STROKE
0122 ; DISALLOWED  # LATIN CAPITAL LETTER I WITH TILDE
0123 ; PVALID  # LATIN SMALL LETTER I WITH TILDE
0124 ; DISALLOWED  # LATIN CAPITAL LETTER I WITH MACRON
0125 ; PVALID  # LATIN SMALL LETTER I WITH MACRON
0126 ; DISALLOWED  # LATIN CAPITAL LETTER I WITH BREVE
0127 ; PVALID  # LATIN SMALL LETTER I WITH BREVE
0128 ; DISALLOWED  # LATIN CAPITAL LETTER I WITH OGONEK
0129 ; PVALID  # LATIN SMALL LETTER I WITH OGONEK
012A ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DOTLESS I
012B ; PVALID  # LATIN SMALL LETTER J WITH CIRCUMFLEX
012C ; DISALLOWED  # LATIN CAPITAL LETTER J WITH CEDILLA
012D ; PVALID  # LATIN SMALL LETTER J WITH CEDILLA
012E ; DISALLOWED  # LATIN CAPITAL LETTER K WITH CIRCUMFLEX
012F ; PVALID  # LATIN SMALL LETTER K WITH CEDILLA
0137..0138 ; PVALID  # LATIN SMALL LETTER K WITH CEDILLA..LATIN SMALL LETTER L WITHOUT ACUTE
0139  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH ACUTE
013A  ; PVALID  # LATIN SMALL LETTER L WITH ACUTE
013B  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH CEDILLA
013C  ; PVALID  # LATIN SMALL LETTER L WITH CEDILLA
013D  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH CARON
013E  ; PVALID  # LATIN SMALL LETTER L WITH CARON
013F..0141  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH MIDDLE DOT..LATIN SMALL LETTER L WITH CARON
0142  ; PVALID  # LATIN SMALL LETTER L WITH STROKE
0143  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH ACUTE
0144  ; PVALID  # LATIN SMALL LETTER N WITH ACUTE
0145  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH CEDILLA
0146  ; PVALID  # LATIN SMALL LETTER N WITH CEDILLA
0147  ; DISALLOWED  # LATIN CAPITAL LETTER N WITH CARON
0148  ; PVALID  # LATIN SMALL LETTER N WITH CARON
0149..014A  ; DISALLOWED  # LATIN CAPITAL LETTER N PRECEEDED BY APOSTROPHE..LATIN SMALL LETTER N WITH STROKE
014B  ; PVALID  # LATIN SMALL LETTER ENG
014C  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MACRON
014D  ; PVALID  # LATIN SMALL LETTER O WITH MACRON
014E  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH BREVE
014F  ; PVALID  # LATIN SMALL LETTER O WITH BREVE
0150  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
0151  ; PVALID  # LATIN SMALL LETTER O WITH DOUBLE ACUTE
0152  ; DISALLOWED  # LATIN CAPITAL LIGATURE OE
0153  ; PVALID  # LATIN SMALL LIGATURE OE
0154  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH ACUTE
0155  ; PVALID  # LATIN SMALL LETTER R WITH ACUTE
0156  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH CEDILLA
0157  ; PVALID  # LATIN SMALL LETTER R WITH CEDILLA
0158  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH CARON
0159  ; PVALID  # LATIN SMALL LETTER R WITH CARON
015A  ; DISALLOWED  # LATIN CAPITAL LETTER S WITH ACUTE
015B  ; PVALID  # LATIN SMALL LETTER S WITH ACUTE
015C  ; DISALLOWED  # LATIN CAPITAL LETTER S WITH CIRCUMFLEX
015D  ; PVALID  # LATIN SMALL LETTER S WITH CIRCUMFLEX
015E  ; DISALLOWED  # LATIN CAPITAL LETTER S WITH CEDILLA
015F  ; PVALID  # LATIN SMALL LETTER S WITH CEDILLA
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0161  ; PVALID  # LATIN SMALL LETTER S WITH CARON
0162  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH CEDILLA
0163  ; PVALID  # LATIN SMALL LETTER T WITH CEDILLA
0164  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH CARON
0165  ; PVALID  # LATIN SMALL LETTER T WITH CARON
0166  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH STROKE
0167  ; PVALID  # LATIN SMALL LETTER T WITH STROKE
0168  ; DISALLOWED  # LATIN CAPITAL LETTER U WITH TILDE
0169  ; PVALID  # LATIN SMALL LETTER U WITH TILDE
016A  ; DISALLOWED  # LATIN CAPITAL LETTER U WITH MACRON
016B        ; PVALID      # LATIN SMALL LETTER U WITH MACRON
016C        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH BREVE
016D        ; PVALID      # LATIN SMALL LETTER U WITH BREVE
016E        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH RING ABOVE
016F        ; PVALID      # LATIN SMALL LETTER U WITH RING ABOVE
0170        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
0171        ; PVALID      # LATIN SMALL LETTER U WITH DOUBLE ACUTE
0172        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH OGONEK
0173        ; PVALID      # LATIN SMALL LETTER U WITH OGONEK
0174        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH CIRCUMFLEX
0175        ; PVALID      # LATIN SMALL LETTER W WITH CIRCUMFLEX
0176        ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
0177        ; PVALID      # LATIN SMALL LETTER Y WITH CIRCUMFLEX
0178..0179  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH DIAERESIS..LATIN
017A        ; PVALID      # LATIN SMALL LETTER Z WITH ACUTE
017B        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DOT ABOVE
017C        ; PVALID      # LATIN SMALL LETTER Z WITH DOT ABOVE
017D        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CARON
017E        ; PVALID      # LATIN SMALL LETTER Z WITH CARON
017F        ; DISALLOWED  # LATIN SMALL LETTER LONG S
0180        ; PVALID      # LATIN SMALL LETTER B WITH STROKE
0181..0182  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH HOOK..LATIN CAPITAL
0183        ; PVALID      # LATIN SMALL LETTER B WITH TOPBAR
0184        ; DISALLOWED  # LATIN CAPITAL LETTER TONE SIX
0185        ; PVALID      # LATIN SMALL LETTER TONE SIX
0186..0187  ; DISALLOWED  # LATIN CAPITAL LETTER OPEN O..LATIN CAPITAL L
0188        ; PVALID      # LATIN SMALL LETTER C WITH HOOK
0189..018B  ; DISALLOWED  # LATIN CAPITAL LETTER AFRICAN D..LATIN CAPITAL
018C..018D  ; PVALID      # LATIN SMALL LETTER D WITH TOPBAR..LATIN SMALL
018E..0191  ; DISALLOWED  # LATIN CAPITAL LETTER REVERSED E..LATIN CAPITAL
0192        ; PVALID      # LATIN SMALL LETTER F WITH HOOK
0193..0194  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPITAL
0195        ; PVALID      # LATIN SMALL LETTER HV
0196..0198  ; DISALLOWED  # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LET
0199..019B  ; PVALID      # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL
019C..019D  ; DISALLOWED  # LATIN CAPITAL LETTER TURNED M..LATIN CAPITAL
019E        ; PVALID      # LATIN SMALL LETTER N WITH LONG RIGHT LEG
019F..01A0  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH MIDDLE TILDE..LATIN
01A1        ; PVALID      # LATIN SMALL LETTER O WITH HORN
01A2        ; DISALLOWED  # LATIN CAPITAL LETTER OI
01A3        ; PVALID      # LATIN SMALL LETTER OI
01A4        ; DISALLOWED  # LATIN CAPITAL LETTER P WITH HOOK
01A5        ; PVALID      # LATIN SMALL LETTER P WITH HOOK
01A6..01A7  ; DISALLOWED  # LATIN LETTER YR..LATIN CAPITAL LETTER TONE T
01A8        ; PVALID      # LATIN SMALL LETTER TONE TWO
01A9        ; DISALLOWED  # LATIN CAPITAL LETTER ESH
01AA..01AB  ; PVALID      # LATIN LETTER REVERSED ESH LOOP..LATIN SMALL
01AC        ; DISALLOWED  # LATIN CAPITAL LETTER T WITH HOOK
01AD        ; PVALID      # LATIN SMALL LETTER T WITH HOOK
01AE..01AF  ; DISALLOWED  # LATIN CAPITAL LETTER T WITH RETROFLEX HOOK
01B0        ; PVALID      # LATIN SMALL LETTER U WITH HORN
01B1..01B3  ; DISALLOWED  # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL
01B4        ; PVALID      # LATIN SMALL LETTER Y WITH HOOK
01B5        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH STROKE
01B6        ; PVALID      # LATIN SMALL LETTER Z WITH STROKE
01B7..01B8  ; DISALLOWED  # LATIN CAPITAL LETTER EZH..LATIN CAPITAL LETT
01B9..01BB  ; PVALID      # LATIN SMALL LETTER EZH REVERSED..LATIN LETTER TONE FIVE
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
01D3        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH CARON
01D4        ; PVALID      # LATIN SMALL LETTER U WITH CARON
01D5        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND MA
01D6        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND MACR
01D7        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND AC
01D8        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND ACUT
01D9        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND CA
01DA        ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND CARO
01DB        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DIAERESIS AND GR
01DC..01DD  ; PVALID      # LATIN SMALL LETTER U WITH DIAERESIS AND GRAV
01DE        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DIAERESIS AND MA
01DF        ; PVALID      # LATIN SMALL LETTER A WITH DIAERESIS AND MACR
01E0        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT ABOVE AND MA
01E1        ; PVALID      # LATIN SMALL LETTER A WITH DOT ABOVE AND MACR
01E2        ; DISALLOWED  # LATIN CAPITAL LETTER AE WITH MACRON
01E3        ; PVALID      # LATIN SMALL LETTER AE WITH MACRON
01E4        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH STROKE
01E5        ; PVALID      # LATIN SMALL LETTER G WITH STROKE
01E6        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH CARON
01E7        ; PVALID      # LATIN SMALL LETTER G WITH CARON
01E8        ; DISALLOWED  # LATIN CAPITAL LETTER K WITH CARON
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01EA        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK
01EB        ; PVALID      # LATIN SMALL LETTER O WITH OGONEK
01EC        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK AND MACRO
01ED        ; PVALID      # LATIN SMALL LETTER O WITH OGONEK AND MACRON
01EE        ; DISALLOWED  # LATIN CAPITAL LETTER EZH WITH CARON
01EF..01F0  ; PVALID      # LATIN SMALL LETTER EZH WITH CARON..LATIN SMA
01F1..01F4  ; DISALLOWED  # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTE
01F5        ; PVALID      # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  ; DISALLOWED  # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LE
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022A ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DIAERESIS AND MACRON
022B ; PVALID  # LATIN SMALL LETTER O WITH DIAERESIS AND MACRON
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
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0231 ; PVALID  # LATIN SMALL LETTER O WITH DOT ABOVE AND MACRON
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 CAPITAL LETTER B WITH STROKE
0247 ; PVALID  # LATIN SMALL LETTER E WITH STROKE
0248 ; DISALLOWED  # LATIN CAPITAL LETTER J WITH STROKE
0249 ; PVALID  # LATIN SMALL LETTER J WITH STROKE
024A ; DISALLOWED  # LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
024B ; PVALID  # LATIN SMALL LETTER Q WITH HOOK TAIL
024C ; DISALLOWED  # LATIN CAPITAL LETTER R WITH STROKE
024D ; PVALID  # LATIN SMALL LETTER R WITH STROKE
024E ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH STROKE
024F..02AF ; PVALID  # LATIN SMALL LETTER Y WITH STROKE..LATIN SMALL LETTER Y WITH STROKE
02B0..02B8 ; DISALLOWED  # MODIFIER LETTER SMALL H..MODIFIER LETTER SMALL H
02B9..02C1 ; PVALID  # MODIFIER LETTER PRIME..MODIFIER LETTER PRIME
02CA..02C5 ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LETTER LEFT ARROWHEAD
02C6..02D1 ; PVALID  # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER LETTER CIRCUMFLEX ACCENT
02D2..02EB ; DISALLOWED  # MODIFIER LETTER CENTRED RIGHT HALF RING..MODIFIER LETTER CENTRED RIGHT HALF RING
02EC ; PVALID  # MODIFIER LETTER VOICING
02ED ; DISALLOWED  # MODIFIER LETTER UNASPIRATED
02EE ; PVALID  # MODIFIER LETTER DOUBLE APOSTROPHE
02EF..02FF ; DISALLOWED  # MODIFIER LETTER LOW DOWN ARROWHEAD..MODIFIER LETTER LOW DOWN ARROWHEAD
0300..031F ; PVALID  # COMBINING GRAVE ACCENT..COMBINING GRAVE ACCENT
0340..0341 ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING GRAVE TONE MARK
0342 ; PVALID  # COMBINING GREEK PERISPOMENI
0343..034E ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK KORONIS
034F..036F ; PVALID  # COMBINING BRIDGE ABOVE..COMBINING BRIDGE ABOVE
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..GREEK CAPITAL LETTER YO
037E..037F ; DISALLOWED # GREEK QUESTION MARK..GREEK CAPITAL LETTER YO
0380..0383 ; UNASSIGNED # <reserved>..<reserved>
0384..038A ; DISALLOWED # GREEK TONOS..GREEK CAPITAL LETTER IOTA WITH TONOS
038B ; UNASSIGNED # <reserved>
038C..0391 ; DISALLOWED # GREEK CAPITAL LETTER OMEGA..GREEK CAPITAL LETTER UPWARD TONE
0392..03A1 ; DISALLOWED # GREEK CAPITAL LETTER ALPHA..GREEK SMALL LETTER IOTA..GREEK SMALL DIGAMMA
03A2 ; UNASSIGNED # <reserved>
03A3..03AB ; DISALLOWED # GREEK CAPITAL LETTER SIGMA..GREEK CAPITAL LETTER SIGMA
03AC..03CE ; PVALID      # GREEK SMALL LETTER ALPHA..GREEK SMALL DIGAMMA
03CF..03D6 ; DISALLOWED # GREEK CAPITAL KAI SYMBOL..GREEK PI SYMBOL
03D7 ; PVALID      # GREEK KAI SYMBOL
03D8 ; DISALLOWED # GREEK CAPITAL LETTER KOPPA
03D9 ; PVALID      # GREEK SMALL LETTER KOPPA
03DA ; DISALLOWED # GREEK CAPITAL LETTER SIGMA
03DB ; PVALID      # GREEK SMALL LETTER SIGMA
03DC ; DISALLOWED # GREEK CAPITAL LETTER TAU
03DE ; DISALLOWED # GREEK CAPITAL LETTER PIE
03DF ; PVALID      # GREEK SMALL LETTER PIE
03E0 ; DISALLOWED # GREEK CAPITAL LETTER SAMPI
03E1 ; PVALID      # GREEK SMALL LETTER SAMPI
03E2 ; DISALLOWED # COPTIC CAPITAL LETTER SHEI
03E3 ; PVALID      # COPTIC SMALL LETTER SHEI
03E4 ; DISALLOWED # COPTIC CAPITAL LETTER FEI
03E5 ; PVALID      # COPTIC SMALL LETTER FEI
03E6 ; DISALLOWED # COPTIC CAPITAL LETTER KHEI
03E7 ; PVALID      # COPTIC SMALL LETTER KHEI
03E8 ; DISALLOWED # COPTIC CAPITAL LETTER HORI
03E9 ; PVALID      # COPTIC SMALL LETTER HORI
03EA ; DISALLOWED # COPTIC CAPITAL LETTER GANGIA
03EB ; PVALID      # COPTIC SMALL LETTER GANGIA
03EC ; DISALLOWED # COPTIC CAPITAL LETTER SHIMA
03ED ; PVALID      # COPTIC SMALL LETTER SHIMA
03EE ; DISALLOWED # COPTIC CAPITAL LETTER DEI
03EF ; PVALID      # COPTIC SMALL LETTER DEI
03F0..03F2 ; DISALLOWED # GREEK KAPPA SYMBOL..GREEK LUNATE SIGMA SYMBOL
03F3 ; PVALID      # GREEK LETTER YOT
03F4..03F7 ; DISALLOWED # GREEK CAPITAL THETA SYMBOL..GREEK CAPITAL LUNATE SIGMA
03F8 ; PVALID      # GREEK SMALL LETTER SHO
03F9..03FA ; DISALLOWED # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAP
03FB..03FC ; PVALID # GREEK SMALL LETTER SAN..GREEK RHO WITH STROK
03FD..042F ; DISALLOWED # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..
0430..045F ; PVALID # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETT
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 STROKE
049D: PVALID  # CYRILLIC SMALL LETTER KA WITH VERTICAL STROKE
049E: DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH STROKE
049F: PVALID  # CYRILLIC SMALL LETTER KA WITH STROKE
04A0: DISALLOWED # CYRILLIC CAPITAL LETTER BASHKIR KA
04A1: PVALID  # CYRILLIC SMALL LETTER BASHKIR KA
04A2: DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH DESCENDER
04A3: PVALID  # CYRILLIC SMALL LETTER EN WITH DESCENDER
04A4: DISALLOWED # CYRILLIC CAPITAL LIGATURE EN GHE
04A5: PVALID  # CYRILLIC SMALL LIGATURE EN GHE
04A6: DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
04A7: PVALID  # CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
04A8: DISALLOWED # CYRILLIC CAPITAL LETTER ABKHASIAN HA
04A9: PVALID  # CYRILLIC SMALL LETTER ABKHASIAN HA
04AA: DISALLOWED # CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB: PVALID  # CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC: DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD: PVALID  # CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE: DISALLOWED # CYRILLIC CAPITAL LETTER STRAIGHT U
04AF: PVALID  # CYRILLIC SMALL LETTER STRAIGHT U
04B0: DISALLOWED # CYRILLIC CAPITAL LETTER STRAIGHT U WITH STROKE
04B1: PVALID  # CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
04B2: DISALLOWED # CYRILLIC CAPITAL LETTER HA WITH DESCENDER
04B3: PVALID  # CYRILLIC SMALL LETTER HA WITH DESCENDER
04B4: DISALLOWED # CYRILLIC CAPITAL LIGATURE TE TSE
04B5: PVALID  # CYRILLIC SMALL LIGATURE TE TSE
04B6: DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
04B7: PVALID  # CYRILLIC SMALL LETTER CHE WITH DESCENDER
04B8: DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH VERTICAL STROKE
04B9: PVALID  # CYRILLIC SMALL LETTER CHE WITH VERTICAL STROKE
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 DESCENDER
04BF: PVALID  # CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER
04C0..04C1: DISALLOWED # CYRILLIC LETTER PALOCHKA..CYRILLIC CAPITAL LETTER PALOCHKA
04C3  ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4  ; PVALID  # CYRILLIC SMALL LETTER KA WITH HOOK
04C5  ; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6  ; PVALID  # CYRILLIC SMALL LETTER EL WITH TAIL
04C7  ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH HOOK
04C8  ; PVALID  # CYRILLIC SMALL LETTER EN WITH HOOK
04C9  ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH TAIL
04CA  ; PVALID  # CYRILLIC SMALL LETTER EN WITH TAIL
04CB  ; DISALLOWED # CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC  ; PVALID  # CYRILLIC SMALL LETTER KHAKASSIAN CHE
04CD  ; DISALLOWED # CYRILLIC CAPITAL LETTER EM WITH TAIL
04CE..04CF ; PVALID # CYRILLIC SMALL LETTER EM WITH TAIL..CYRILLIC
04D0  ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH BREVE
04D1  ; PVALID  # CYRILLIC SMALL LETTER A WITH BREVE
04D2  ; DISALLOWED # CYRILLIC CAPITAL LETTER A WITH DIAERESIS
04D3  ; PVALID  # CYRILLIC SMALL LETTER A WITH DIAERESIS
04D4  ; DISALLOWED # CYRILLIC CAPITAL LIGATURE A IE
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
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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 LETTER AYB
0557..0558; UNASSIGNED # <reserved>..<reserved>
0559; PVALID  # ARmenian modifier letter left half ring
055A..055F; DISALLOWED # ARmenian apostrophe..ARmenian abbreviation m
0560..0586; PVALID  # ARmenian small letter turned ayb..ARmenian small letter turned ayb
0587; DISALLOWED # ARmenian small ligature ech yiwn
0588; PVALID  # ARmenian small letter yi with stroke
0589..058A; DISALLOWED # ARmenian full stop..ARmenian hyphen
0588..058C; UNASSIGNED # <reserved>..<reserved>
058D..058F; DISALLOWED # RIGHT-facing ARmenian eternity sign..ARmenia
0590; UNASSIGNED # <reserved>
0591..05BD; PVALID  # hebrew accent etnaha..hebrew point meteg
05BE; DISALLOWED # hebrew punctuation maqaf
05BF; PVALID  # hebrew point rafe
05C0; DISALLOWED # hebrew punctuation paseq
05C1..05C2; PVALID  # hebrew point shin dot..hebrew point sin dot
05C3; DISALLOWED # hebrew punctuation sof pasuq
05C4..05C5; PVALID  # hebrew mark upper dot..hebrew mark lower dot
05C6; DISALLOWED # hebrew punctuation nun hafukha
05C7; PVALID  # hebrew point qamats qatan
05C8..05CF; UNASSIGNED # <reserved>..<reserved>
05D0..05EA; PVALID  # hebrew letter alef..hebrew letter tav
05EB..05EE; UNASSIGNED # <reserved>..<reserved>
05EF..05F2; PVALID  # hebrew yod triangle..hebrew ligature yiddish
05F3..05F4; CONTEXTO # hebrew punctuation geresh..hebrew punctuatio
05F5..05FF; UNASSIGNED # <reserved>..<reserved>
0600..060F; DISALLOWED # arabic number sign..arabic sign misra
0610..061A; PVALID  # arabic sign sallallahou alayhe wasallam..arabic sign sallallahou alayhe wasallam
061B..061C; DISALLOWED # arabic semicolon..arabic letter mark
061D; UNASSIGNED # <reserved>
061E..061F; DISALLOWED # arabic triple dot punctuation mark..arabic q
0620..063F; PVALID  # arabic letter kashmiri yeh..arabic letter fa
0640; DISALLOWED # arabic tatweel
0641..065F; PVALID  # arabic letter feh..arabic wavy hamza below
0660..0669; CONTEXTO # arabic-indic digit zero..arabic-indic digit
066A..066D  ; DISALLOWED  # ARABIC PERCENT SIGN..ARABIC FIVE POINTED STA
066E..0674  ; PVALID     # ARABIC LETTER DOTLESS BEH..ARABIC LETTER HIG
0675..0678  ; DISALLOWED  # ARABIC LETTER HIGH HAMZA ALEF..ARABIC LETTER
0679..06D3  ; PVALID     # ARABIC LETTER TTEH..ARABIC LETTER YEH BARREE
06D4      ; DISALLOWED  # ARABIC FULL STOP
06D5..06DC  ; PVALID     # ARABIC LETTER AE..ARABIC SMALL HIGH SEEN
06DD..06EA  ; DISALLOWED  # ARABIC END OF AYAH..ARABIC START OF RUB EL H
06EB..06E8  ; PVALID     # ARABIC SMALL HIGH ROUNDED ZERO..ARABIC SMALL
06E9      ; DISALLOWED  # ARABIC PLACE OF SAJDAH
06EA..06EF  ; PVALID     # ARABIC EMPTY CENTRE LOW STOP..ARABIC LETTER
06F0..06F9  ; CONTEXTO  # EXTENDED ARABIC-INDIC DIGIT ZERO..EXTENDED A
06FA..06FF  ; PVALID     # ARABIC LETTER SHEEN WITH DOT BELOW..ARABIC L
0700..070D  ; DISALLOWED  # SYRIAC END OF PARAGRAPH..SYRIAC HARKLEAN AST
070E      ; UNASSIGNED  # <reserved>
070F      ; DISALLOWED  # SYRIAC ABBREVIATION MARK
0710..074A  ; PVALID     # SYRIAC LETTER ALAPH..SYRIAC BARREKH
074B..074C  ; UNASSIGNED  # <reserved>..<reserved>
074D..077B  ; PVALID     # SYRIAC LETTER SOGDIAN ZHAIN..THAANA LETTER N
0782..07BF  ; UNASSIGNED  # <reserved>..<reserved>
07C0..07F5  ; PVALID     # NKO DIGIT ZERO..NKO LOW TONE APOSTROPHE
07F6..07FA  ; DISALLOWED  # NKO SYMBOL OO DENNEN..NKO LAJANYALAN
07FB..07FC  ; UNASSIGNED  # <reserved>..<reserved>
07FD      ; PVALID     # NKO DANTAYALAN
07FE..07FF  ; DISALLOWED  # NKO DOROME SIGN..NKO TAMAN SIGN
0800..082D  ; PVALID     # SAMARITAN LETTER ALAF..SAMARITAN MARK NEQUDA
082E..082F  ; UNASSIGNED  # <reserved>..<reserved>
0830..085F  ; DISALLOWED  # SAMARITAN PUNCTUATION NEQUDAA..SAMARITAN PUN
0860..086A  ; PVALID     # SYRIAC LETTER MALAYALAM NGA..SYRIAC LETTER M
086B..089F  ; UNASSIGNED  # <reserved>..<reserved>
089A..08BD  ; PVALID     # ARABIC LETTER BEH WITH SMALL V BELOW..ARABIC
08B5      ; UNASSIGNED  # <reserved>
08B6..08BD  ; PVALID     # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08BE..08D2  ; UNASSIGNED  # <reserved>..<reserved>
08D3..08E1  ; PVALID     # ARABIC SMALL LOW WAW..ARABIC SMALL HIGH SIGN
08E2      ; DISALLOWED  # ARABIC DISPUTED END OF AYAH
08E3..0957  ; PVALID     # ARABIC TURNED DAMMA BELOW..DEVANAGARI VOWEL
0958..095F  ; DISALLOWED  # DEVANAGARI LETTER QA..DEVANAGARI LETTER YYA
0960..096F  ; PVALID     # DEVANAGARI LETTER VOCALIC RR..DEVANAGARI VOW
0964..0965  ; DISALLOWED  # DEVANAGARI DANDA..DEVANAGARI DOUBLE DANDA
0966..097F  ; PVALID     # DEVANAGARI DIGIT ZERO..DEVANAGARI DIGIT NINE
0970      ; DISALLOWED  # DEVANAGARI ABBREVIATION SIGN
0971..0983  ; PVALID     # DEVANAGARI SIGN HIGH SPACING DOT..BENGALI SI
0984      ; UNASSIGNED  # <reserved>
0985..098C  ; PVALID  # BENGALI LETTER A..BENGALI LETTER VOCALIC L
098D..098E  ; UNASSIGNED  # <reserved>..<reserved>
098F..0990  ; PVALID  # BENGALI LETTER E..BENGALI LETTER AI
0991..0992  ; UNASSIGNED  # <reserved>..<reserved>
0993..09A8  ; PVALID  # BENGALI LETTER O..BENGALI LETTER NA
09A9  ; UNASSIGNED  # <reserved>
09AA..09B0  ; PVALID  # BENGALI LETTER PA..BENGALI LETTER RA
09B1  ; UNASSIGNED  # <reserved>
09B2  ; PVALID  # BENGALI LETTER LA
09B3..09B5  ; UNASSIGNED  # <reserved>..<reserved>
09B6..09B9  ; PVALID  # BENGALI LETTER SHA..BENGALI LETTER HA
09BA..09BB  ; UNASSIGNED  # <reserved>..<reserved>
09BC..09C4  ; PVALID  # BENGALI SIGN NUKTA..BENGALI VOWEL SIGN VOCAL
09C5..09C6  ; UNASSIGNED  # <reserved>..<reserved>
09C7..09C8  ; PVALID  # BENGALI VOWEL SIGN E..BENGALI VOWEL SIGN AI
09C9..09CA  ; UNASSIGNED  # <reserved>..<reserved>
09CB..09CE  ; PVALID  # BENGALI VOWEL SIGN O..BENGALI LETTER KHANDA
09CF..09D6  ; UNASSIGNED  # <reserved>..<reserved>
09D7  ; PVALID  # BENGALI AU LENGTH MARK
09DB..09DB  ; UNASSIGNED  # <reserved>..<reserved>
09DC..09DD  ; DISALLOWED  # BENGALI LETTER RRA..BENGALI LETTER RHA
09DE  ; UNASSIGNED  # <reserved>
09DF  ; DISALLOWED  # BENGALI LETTER YYA
09E0..09E3  ; PVALID  # BENGALI LETTER VOCALIC RR..BENGALI VOWEL SIG
09E4..09E5  ; UNASSIGNED  # <reserved>..<reserved>
09E6..09F1  ; PVALID  # BENGALI DIGIT ZERO..BENGALI LETTER RA WITH L
09FB..09FB  ; DISALLOWED  # BENGALI RUPEE MARK..BENGALI GANDA MARK
09FC  ; PVALID  # BENGALI LETTER VEDIC ANUSVARA
09FD  ; DISALLOWED  # BENGALI ABBREVIATION SIGN
09FE  ; PVALID  # BENGALI SANDHI MARK
09FF..0A00  ; UNASSIGNED  # <reserved>..<reserved>
0A01..0A03  ; PVALID  # GURMUKHI SIGN ADAK BINDI..GURMUKHI SIGN VISA
0A04  ; UNASSIGNED  # <reserved>
0A05..0A0A  ; PVALID  # GURMUKHI LETTER A..GURMUKHI LETTER UU
0A0B..0A0E  ; UNASSIGNED  # <reserved>..<reserved>
0A0F..0A10  ; PVALID  # GURMUKHI LETTER EE..GURMUKHI LETTER AI
0A11..0A12  ; UNASSIGNED  # <reserved>..<reserved>
0A13..0A28  ; PVALID  # GURMUKHI LETTER OO..GURMUKHI LETTER NA
0A29  ; UNASSIGNED  # <reserved>
0A2A..0A30  ; PVALID  # GURMUKHI LETTER PA..GURMUKHI LETTER RA
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0B71        ; PVALID    # ORIYA LETTER WA
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0C84        ; DISALLOWED  # KANNADA SIGN SIDDHAM
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Internet-Draft           IDNA2008 and Unicode 12              March 2019

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0F0C..0F17 ; DISALLOWED  # TIBETAN MARK DELIMITER TSHEG BSTAR..TIBETAN
0F18..0F19 ; PVALID  # TIBETAN ASTROLOGICAL SIGN -KHYUD PA..TIBETAN
0F1A..0F1F ; DISALLOWED  # TIBETAN SIGN RDEL DKAR GCIG..TIBETAN SIGN RD
0F20..0F29 ; PVALID  # TIBETAN DIGIT ZERO..TIBETAN DIGIT NINE
0F2A..0F34 ; DISALLOWED  # TIBETAN DIGIT HALF ONE..TIBETAN MARK BSDUS R
0F35  ; PVALID  # TIBETAN MARK NGAS BZUNG NYI ZLA
0F36  ; DISALLOWED  # TIBETAN MARK CARET -DZUD RTAGS BZHI MIG CAN
0F37  ; PVALID  # TIBETAN MARK NGAS BZUNG SGOR RTAGS
0F38  ; DISALLOWED  # TIBETAN MARK CHE MGO
0F39  ; PVALID  # TIBETAN MARK TSA -PHRU
0F3A..0F3D ; DISALLOWED  # TIBETAN MARK GUG RTAGS GYON..TIBETAN MARK AN
0F3E..0F42 ; PVALID  # TIBETAN SIGN YAR TSHES..TIBETAN LETTER GA
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
0F9E..0FA1  ; PVALID  # TIBETAN SUBJOINED LETTER NNA..TIBETAN SUBJOIN
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 DZHA
0FAD..0FB8  ; PVALID  # TIBETAN SUBJOINED LETTER WA..TIBETAN SUBJOIN
0FB9  ; DISALLOWED  # TIBETAN SUBJOINED LETTER KSSA
0FBA..0FC5  ; PVALID  # TIBETAN SYMBOL WA..TIBETAN SYMBOL RDO RJE
0FBD  ; DISALLOWED  # TIBETAN SYMBOL PADMA GDAN
0FCE..0FCC  ; DISALLOWED  # TIBETAN SYMBO BEHON RDO RJE RGYA GRAM..TIBETAN SY
0FCD  ; UNASSIGNED  # <reserved>
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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  ; DISALLOWED  # GEORGIAN CAPITAL LETTER YN
10C7  ; DISALLOWED  # GEORGIAN CAPITAL LETTER AEN
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10FB..10FF  ; DISALLOWED  # GEORGIAN PARAGRAPH SEPARATOR..MODIFIER LETTER
10D0..10FA  ; 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
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1A20..1A5E  ; PVALID      # TAI THAM LETTER HIGH KA..TAI THAM CONSONANT
1A5F        ; UNASSIGNED  # <reserved>
1A60..1A7C  ; PVALID      # TAI THAM SIGN SAKOT..TAI THAM SIGN KHUEN-LUE
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1A7F..1A89  ; PVALID      # TAI THAM COMBINING CRYPTOGRAMMIC DOT..TAI TH
1A8A..1A8F  ; UNASSIGNED  # <reserved>..<reserved>
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1AA7        ; PVALID      # TAI THAM SIGN MAI YAMOK
1AA8..1AAD  ; DISALLOWED  # TAI THAM SIGN KAAN..TAI THAM SIGN CAANG
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1ABE        ; DISALLOWED  # COMBINING PARENTHESES OVERLAY
1ABF..1AFF  ; UNASSIGNED  # <reserved>..<reserved>
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1B4C..1B4F  ; UNASSIGNED  # <reserved>..<reserved>
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1B5A..1B6A  ; DISALLOWED  # BALINESE PANTI..BALINESE MUSICAL SYMBOL DANG
1B6B..1B73  ; PVALID      # BALINESE MUSICAL SYMBOL COMBINING TEGEH..BAL
1B74..1B7C  ; DISALLOWED  # BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG.
1B7D..1B7F  ; UNASSIGNED  # <reserved>..<reserved>
1B80..1BF3  ; PVALID      # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
1BF4..1BF8  ; UNASSIGNED  # <reserved>..<reserved>
1BFC..1BF7  ; DISALLOWED  # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1C00..1C37  ; PVALID      # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C38..1C3A  ; UNASSIGNED  # <reserved>..<reserved>
1C3B..1C3F  ; DISALLOWED  # LEPCHA PUNCTUATION TA-ROL..LEPCHA PUNCTUATIO
1C40..1C49  ; PVALID      # LEPCHA DIGIT ZERO..LEPCHA DIGIT NINE
1C4A..1C4C  ; UNASSIGNED  # <reserved>..<reserved>
1C4D..1C7D  ; PVALID      # LEPCHA LETTER TTA..OL CHIKI AHAD
1C7E..1C88  ; DISALLOWED  # OL CHIKI PUNCTUATION MUCAAD..CYRILLIC SMALL
1C89..1C8F  ; UNASSIGNED  # <reserved>..<reserved>
1C90..1CBA  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBB..1CBC  ; UNASSIGNED  # <reserved>..<reserved>
1CBB..1CC7  ; DISALLOWED  # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CC8..1CCF  ; UNASSIGNED  # <reserved>..<reserved>
1CDD..1CD2  ; PVALID      # VEDIC TONE KARSHANA..VEDIC TONE PRENKHA
1CD3        ; DISALLOWED  # VEDIC SIGN NIHSHVASA
1CD4..1CFA  ; PVALID      # VEDIC SIGN YAJURVEDIC MIDLINE SVARITA..VEDIC
1CF8..1CFF  ; UNASSIGNED  # <reserved>..<reserved>
1D00..1D2B  ; PVALID      # LATIN LETTER SMALL CAPITAL A..CYRILLIC LETTE
1D2C..1D2E  ; DISALLOWED  # MODIFIER LETTER CAPITAL A..MODIFIER LETTER C
1D2F        ; PVALID      # MODIFIER LETTER CAPITAL BARRED B
1D30..1D3A  ; DISALLOWED  # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B        ; PVALID      # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D  ; DISALLOWED  # MODIFIER LETTER CAPITAL O..MODIFIER LETTER S
1D4E        ; PVALID      # MODIFIER LETTER SMALL TURNED I
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1E2F        ; PVALID   # LATIN SMALL LETTER I WITH DIAERESIS AND ACUT
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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        ; PVVALID  # LATIN SMALL LETTER W WITH DOT BELOW
1E8A        ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DOT ABOVE
1E8B        ; PVVALID  # LATIN SMALL LETTER X WITH DOT ABOVE
1E8C        ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DIAERESIS
1E8D        ; PVVALID  # LATIN SMALL LETTER X WITH DIAERESIS
1E8E        ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E8F        ; PVVALID  # LATIN SMALL LETTER Y WITH DOT ABOVE
1E90        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
1E91        ; PVVALID  # LATIN SMALL LETTER Z WITH CIRCUMFLEX
1E92        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DOT BELOW
1E93        ; PVVALID  # LATIN SMALL LETTER Z WITH DOT BELOW
1E94        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH LINE BELOW
1E95..1E99  ; PVVALID  # LATIN SMALL LETTER Z WITH LINE BELOW..LATIN
1E9A..1E9B  ; DISALLOWED  # LATIN SMALL LETTER A WITH RIGHT HALF RING..L
1E9C..1E9D  ; PVVALID  # LATIN SMALL LETTER LONG S WITH DIAGONAL STRO
1E9E        ; DISALLOWED  # LATIN CAPITAL LETTER SHARP S
1E9F        ; PVVALID  # LATIN SMALL LETTER DELTA
1EA0        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT BELOW
1EA1        ; PVVALID  # LATIN SMALL LETTER A WITH DOT BELOW
1EA2        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH HOOK ABOVE
1EA3        ; PVVALID  # LATIN SMALL LETTER A WITH HOOK ABOVE
1EA4        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND A
1EA5        ; PVVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACU
1EA6        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND G
1EA7        ; PVVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRA
1EA8        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND H
1EA9        ; PVVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOO
1EAA        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND T
1EAB        ; PVVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND TIL
1EAC        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND D
1EAD        ; PVVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT
1EAE        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
1EAF        ; PVVALID  # LATIN SMALL LETTER A WITH BREVE AND ACUTE
1EB0        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
1EB1        ; PVVALID  # LATIN SMALL LETTER A WITH BREVE AND GRAVE
1EB2        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND HOOK A
1EB3        ; PVVALID  # LATIN SMALL LETTER A WITH BREVE AND HOOK ABO
1EB4        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND TILDE
1EB5        ; PVVALID  # LATIN SMALL LETTER A WITH BREVE AND TILDE
1EB6        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND DOT BE
1EB7        ; PVVALID  # LATIN SMALL LETTER A WITH BREVE AND DOT BELO
1EB8        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOT BELOW
1EB9        ; PVVALID  # LATIN SMALL LETTER E WITH DOT BELOW
1EBA        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH HOOK ABOVE
1EBB        ; PVVALID  # LATIN SMALL LETTER E WITH HOOK ABOVE
1EBC        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE
1EBD        ; PVVALID  # 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
1EDC        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND GRAVE
1EDD        ; PVALID      # LATIN SMALL LETTER O WITH HORN AND GRAVE
1EDE        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND HOOK ABOVE
1EDF        ; PVALID      # LATIN SMALL LETTER O WITH HORN AND HOOK ABOV
1EE0        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH HORN AND TILDE
1EE1        ; PVALID      # LATIN SMALL LETTER O WITH HORN AND TILDE
1EE2        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH DOT BELOW
1EE3        ; PVALID      # LATIN SMALL LETTER O WITH DOT BELOW
1EE4        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH DOT BELOW
1EE5        ; PVALID      # LATIN SMALL LETTER U WITH DOT BELOW
1EE6        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HOOK ABOVE
1EE7        ; PVALID      # LATIN SMALL LETTER U WITH HOOK ABOVE
1EE8        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH ACUTE
1EE9        ; PVALID      # LATIN SMALL LETTER U WITH ACUTE
1EEA        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH GRAVE
1EEB        ; PVALID      # LATIN SMALL LETTER U WITH GRAVE
1EEC        ; DISALLOWED  # LATIN CAPITAL LETTER U WITH HOOK ABOVE
1EED        ; PVALID      # LATIN SMALL LETTER U WITH HOOK ABOVE
Internet-Draft           IDNA2008 and Unicode 12              March 2019

1F76        ; PVALID      # GREEK SMALL LETTER IOTA WITH VARIA
1F77        ; DISALLOWED # GREEK SMALL LETTER IOTA WITH OXIA  
1F78        ; PVALID      # GREEK SMALL LETTER OMICRON WITH VARIA
1F79        ; DISALLOWED # GREEK SMALL LETTER OMICRON WITH OXIA
1F7A        ; PVALID      # GREEK SMALL LETTER UPSILON WITH VARIA
1F7B        ; DISALLOWED # GREEK SMALL LETTER UPSILON WITH OXIA
1F7C        ; PVALID      # GREEK SMALL LETTER OMEGA WITH VARIA
1F7D        ; DISALLOWED # GREEK SMALL LETTER OMEGA WITH OXIA
1F7E..1F7F  ; UNASSIGNED # <reserved>..<reserved>
1F80..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 DIALYTIKA 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 DIALYTIKA AN
1FE4..1FE7  ; PVALID      # GREEK SMALL LETTER RHO WITH PSILI..GREEK SMA
1FE8..1FEF  ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH VRACHY..GR
1FF0..1FF1  ; UNASSIGNED # <reserved>..<reserved>
1FF2..1FF4  ; DISALLOWED # GREEK SMALL LETTER OMEGA WITH VARIA AND YPOG
1FF5        ; UNASSIGNED # <reserved>
1FF6        ; PVALID      # GREEK SMALL LETTER OMEGA WITH PERISPOMENI
1FF7..1FFE  ; DISALLOWED # GREEK SMALL LETTER OMEGA WITH PERISPOMENI AN
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 PARENTHESEI
208F        ; UNASSIGNED # <reserved>
2090..209C  ; DISALLOWED # LATIN SUBSCRIPT SMALL LETTER A..LATIN SUBSCR
209D..209F  ; UNASSIGNED # <reserved>..<reserved>
20A0..20BF  ; DISALLOWED # EURO-CURRENCY SIGN..BITCOIN SIGN
20C0..20CF  ; UNASSIGNED # <reserved>..<reserved>
20D0..20F0  ; DISALLOWED # COMBINING LEFT HARPOON ABOVE..COMBINING ASTE
20F1..20FF  ; UNASSIGNED  # <reserved>..<reserved>
2100..214D  ; DISALLOWED  # ACCOUNT OF..AKTIESELSKAB
214E        ; 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..2426  ; DISALLOWED  # LEFTWARDS ARROW..SYMBOL FOR SUBSTITUTE FORM
2427..243F  ; UNASSIGNED  # <reserved>..<reserved>
2440..244A  ; DISALLOWED  # OCR HOOK..OCR DOUBLE BACKSLASH
244B..245F  ; UNASSIGNED  # <reserved>..<reserved>
2460..2B73  ; DISALLOWED  # CIRCLED DIGIT ONE..DOWNWARDS TRIANGLE-HEADED
2B74..2B75  ; UNASSIGNED  # <reserved>..<reserved>
2B76..2B95  ; DISALLOWED  # NORTH WEST TRIANGLE-HEADED ARROW TO BAR..RIG
2B96..2B97  ; UNASSIGNED  # <reserved>..<reserved>
2B98..2C2E  ; DISALLOWED  # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2C2F        ; UNASSIGNED  # <reserved>
2C30..2C5E  ; PVALID  # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMAL
2C5F        ; UNASSIGNED  # <reserved>
2C60        ; DISALLOWED  # LATIN CAPITAL LETTER L WITH DOUBLE BAR
2C61        ; PVALID  # LATIN SMALL LETTER L WITH DOUBLE BAR
2C62..2C64  ; DISALLOWED  # LATIN CAPITAL LETTER L WITH MIDDLE TILDE..LA
2C65..2C66  ; PVALID  # LATIN SMALL LETTER A WITH STROKE..LATIN SMAL
2C67        ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DESCENDER
2C68        ; PVALID  # LATIN SMALL LETTER H WITH DESCENDER
2C69        ; DISALLOWED  # LATIN CAPITAL LETTER K WITH DESCENDER
2C6A        ; PVALID  # LATIN SMALL LETTER K WITH DESCENDER
2C6B        ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DESCENDER
2C6C        ; PVALID  # LATIN SMALL LETTER Z WITH DESCENDER
2C6D..2C70  ; DISALLOWED  # LATIN CAPITAL LETTER ALPHA..LATIN CAPITAL LE
2C71        ; PVALID  # LATIN SMALL LETTER V WITH RIGHT HOOK
2C72        ; DISALLOWED  # LATIN CAPITAL LETTER W WITH HOOK
2C73..2C74  ; PVALID  # LATIN SMALL LETTER W WITH HOOK..LATIN SMALL
2C75        ; DISALLOWED  # LATIN CAPITAL LETTER HALF H
2C76..2C7B  ; PVALID  # LATIN SMALL LETTER HALF H..LATIN LETTER SMAL
2C7C..2C80  ; DISALLOWED  # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPIT
2C81        ; PVALID  # COPTIC SMALL LETTER ALFA
2C82        ; DISALLOWED  # COPTIC CAPITAL LETTER VIDA
2C83        ; PVALID  # COPTIC SMALL LETTER VIDA
2C84        ; DISALLOWED  # COPTIC CAPITAL LETTER GAMMA
2C85        ; PVALID  # COPTIC SMALL LETTER GAMMA
2C86        ; DISALLOWED  # COPTIC CAPITAL LETTER DALDA
2C87        ; PVALID  # COPTIC SMALL LETTER DALDA
2C88        ; DISALLOWED  # COPTIC CAPITAL LETTER EIE
2C89        ; PVALID  # COPTIC SMALL LETTER EIE
2C8A        ; DISALLOWED  # COPTIC CAPITAL LETTER SOU
2C8B        ; PVALID  # COPTIC SMALL LETTER SOU
2C8C        ; DISALLOWED  # COPTIC CAPITAL LETTER ZATA
2C8D  ; PVALID     # COPTIC SMALL LETTER ZATA
2C8E  ; DISALLOWED  # COPTIC CAPITAL LETTER HATE
2C8F  ; PVALID     # COPTIC SMALL LETTER HATE
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
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
2CCA ; DISALLOWED # COPTIC CAPITAL LETTER DIALECT-P HORI
2CCB ; PVALID # COPTIC SMALL LETTER DIALECT-P HORI
2CCC ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HORI
2CCD ; PVALID # COPTIC SMALL LETTER OLD COPTIC HORI
2CCE ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC DJA
2CCF ; PVALID # COPTIC SMALL LETTER OLD COPTIC DJA
2CD0 ; DISALLOWED # COPTIC CAPITAL LETTER L-SHAPED HA
2CD1 ; PVALID # COPTIC SMALL LETTER L-SHAPED HA
2CD2 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HEI
2CD3 ; PVALID # COPTIC SMALL LETTER OLD COPTIC HEI
2CD4 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HAT
2CD5 ; PVALID # COPTIC SMALL LETTER OLD COPTIC HAT
2CD6 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC GANGIA
2CD7 ; PVALID # COPTIC SMALL LETTER OLD COPTIC GANGIA
2CD8 ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC DJA
2CD9 ; PVALID # COPTIC SMALL LETTER OLD COPTIC DJA
2CDA ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC SHIMA
2CDB ; PVALID # COPTIC SMALL LETTER OLD COPTIC SHIMA
2CDC ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN SHIMA
2CDD ; PVALID # COPTIC SMALL LETTER OLD NUBIAN SHIMA
2CDE ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NGI
2CDF ; PVALID # COPTIC SMALL LETTER OLD NUBIAN NGI
2CE0 ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NYI
2CE1 ; PVALID # COPTIC SMALL LETTER OLD NUBIAN NYI
2CE2 ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN WAU
2CE3..2CE4 ; PVALID # COPTIC SMALL LETTER OLD NUBIAN WAU..COPTIC S
2CE5..2CEB ; DISALLOWED # COPTIC SYMBOL MI RO..COPTIC CAPITAL LETTER C
2CEC ; PVALID # COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CED ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC GANGIA
2CEE..2CF1 ; PVALID # COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA..COPTIC CAPITAL LETTER BOHAIRIC KHEI
2CF2 ; DISALLOWED # COPTIC CAPITAL LETTER BOHAIRIC KHEI
2CF3 ; PVALID # COPTIC SMALL LETTER BOHAIRIC KHEI
2CF4..2CF8 ; UNASSIGNED # <reserved>..<reserved>
2CF9..2CFF ; DISALLOWED # COPTIC OLD NUBIAN FULL STOP..COPTIC 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..2E4F  ; DISALLOWED # RING POINT..CORNISH VERSE DIVIDER
2E50..2E7F  ; UNASSIGNED  # <reserved>..<reserved>
2E80..2E99  ; DISALLOWED # CJK RADICAL REPEAT..CJK RADICAL RAP
2EA9        ; UNASSIGNED  # <reserved>
2EB9..2EF3  ; DISALLOWED # CJK RADICAL CHOKE..CJK RADICAL C-SIMPLIFIED
2EF4..2EFF  ; UNASSIGNED  # <reserved>..<reserved>
2F00..2F05  ; DISALLOWED # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2F06..2F0F  ; UNASSIGNED  # <reserved>..<reserved>
2F0F..2FBF  ; DISALLOWED # IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RI
2FC0..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>
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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
30FF  ; DISALLOWED # KATAKANA DIGRAPH KOTO
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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
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31E4..31EF  ; UNASSIGNED # <reserved>...<reserved>
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321F  ; UNASSIGNED # <reserved>
3220..323E  ; DISALLOWED # PARENTHESESIZED IDEOGRAPH ONE..CIRCLED KATAKAN
322F  ; UNASSIGNED # <reserved>
3300..33FF  ; DISALLOWED # SQUARE APAATO..SQUARE GAL
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4E00..4F8F  ; PVALID  # <CJK Ideograph>..<CJK Ideograph
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A48D..A48F  ; UNASSIGNED # <reserved>...<reserved>
A490..A4CF  ; DISALLOWED # YI RADICAL QT..YI RADICAL KE
A4C7..A4CF  ; UNASSIGNED # <reserved>...<reserved>
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A4FE..A50C  ; DISALLOWED # LISU PUNCTUATION COMA..LISU PUNCTUATION FUL
A500..A50C  ; PVALID  # VAI SYLLABLE EE..VAI SYLLABLE LENGTHENER
A60D..A60F  ; DISALLOWED # VAI COMMA..VAI QUESTION MARK
A610..A62B  ; PVALID  # VAI SYLLABLE NDOLE FA..VAI SYLLABLE NDOLE DO
A62C..A63F  ; UNASSIGNED # <reserved>...<reserved>
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A641  ; PVALID  # CYRILLIC SMALL LETTER ZEMLYA
A642  ; DISALLOWED # CYRILLIC CAPITAL LETTER DZELO
A643  ; PVALID  # CYRILLIC SMALL LETTER DZELO
A644  ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED DZE
A645  ; PVALID  # CYRILLIC SMALL LETTER REVERSED DZE
A646  ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTA
A647 ; PVALID    # CYRILLIC SMALL LETTER IOTA
A648 ; DISALLOWED    # CYRILLIC CAPITAL LETTER DJERV
A649 ; PVALID    # CYRILLIC SMALL LETTER DJERV
A64A ; DISALLOWED    # CYRILLIC CAPITAL LETTER MONOGRAPH UK
A64B ; PVALID    # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C ; DISALLOWED    # CYRILLIC CAPITAL LETTER BROAD OMEGA
A64D ; PVALID    # CYRILLIC SMALL LETTER BROAD OMEGA
A64E ; DISALLOWED    # CYRILLIC CAPITAL LETTER NEUTRAL YER
A64F ; PVALID    # CYRILLIC SMALL LETTER NEUTRAL YER
A650 ; DISALLOWED    # CYRILLIC CAPITAL LETTER YERU WITH BACK YER
A651 ; PVALID    # CYRILLIC SMALL LETTER YERU WITH BACK YER
A652 ; DISALLOWED    # CYRILLIC CAPITAL LETTER IOTIFIED YAT
A653 ; PVALID    # CYRILLIC SMALL LETTER IOTIFIED YAT
A654 ; DISALLOWED    # CYRILLIC CAPITAL LETTER REVERSED YU
A655 ; PVALID    # CYRILLIC SMALL LETTER REVERSED YU
A656 ; DISALLOWED    # CYRILLIC CAPITAL LETTER IOTIFIED A
A657 ; PVALID    # CYRILLIC SMALL LETTER IOTIFIED A
A658 ; DISALLOWED    # CYRILLIC CAPITAL LETTER CLOSED LITTLE YUS
A659 ; PVALID    # CYRILLIC SMALL LETTER CLOSED LITTLE YUS
A65A ; DISALLOWED    # CYRILLIC CAPITAL LETTER BLENDED YUS
A65B ; PVALID    # CYRILLIC SMALL LETTER BLENDED YUS
A65C ; DISALLOWED    # CYRILLIC CAPITAL LETTER IOTIFIED CLOSED LITT
A65D ; PVALID    # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
A65E ; DISALLOWED    # CYRILLIC CAPITAL LETTER YN
A65F ; PVALID    # CYRILLIC SMALL LETTER YN
A660 ; DISALLOWED    # CYRILLIC CAPITAL LETTER REVERSED TSE
A661 ; PVALID    # CYRILLIC SMALL LETTER REVERSED TSE
A662 ; DISALLOWED    # CYRILLIC CAPITAL LETTER SOFT DE
A663 ; PVALID    # CYRILLIC SMALL LETTER SOFT DE
A664 ; DISALLOWED    # CYRILLIC CAPITAL LETTER SOFT EL
A665 ; PVALID    # CYRILLIC SMALL LETTER SOFT EL
A666 ; DISALLOWED    # CYRILLIC CAPITAL LETTER SOFT EM
A667 ; PVALID    # CYRILLIC SMALL LETTER SOFT EM
A668 ; DISALLOWED    # CYRILLIC CAPITAL LETTER MONOCULAR O
A669 ; PVALID    # CYRILLIC SMALL LETTER MONOCULAR O
A66A ; DISALLOWED    # CYRILLIC CAPITAL LETTER BINOCULAR O
A66B ; PVALID    # CYRILLIC SMALL LETTER BINOCULAR O
A66C ; DISALLOWED    # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F ; PVALID    # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673 ; DISALLOWED    # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D ; PVALID    # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E ; DISALLOWED    # CYRILLIC KAVYKA
A67F ; PVALID    # CYRILLIC PAYEROK
A680 ; DISALLOWED    # CYRILLIC CAPITAL LETTER DWE
A681 ; PVALID    # CYRILLIC SMALL LETTER DWE
A682 ; DISALLOWED    # CYRILLIC CAPITAL LETTER DZWE
A683 ; PVALID    # CYRILLIC SMALL LETTER DZWE
A684 ; DISALLOWED    # CYRILLIC CAPITAL LETTER 2HWE
A685        ; PVALID  # CYRILLIC SMALL LETTER ZHWE
A686        ; DISALLOWED  # CYRILLIC CAPITAL LETTER CCHE
A687        ; PVALID  # CYRILLIC SMALL LETTER CCHE
A688        ; DISALLOWED  # CYRILLIC CAPITAL LETTER DZZE
A689        ; PVALID  # CYRILLIC SMALL LETTER DZZE
A68A        ; DISALLOWED  # CYRILLIC CAPITAL LETTER TE WITH MIDDLE HOOK
A68B        ; PVALID  # CYRILLIC SMALL LETTER TE WITH MIDDLE HOOK
A68C        ; DISALLOWED  # CYRILLIC CAPITAL LETTER TWE
A68D        ; PVALID  # CYRILLIC SMALL LETTER TWE
A68E        ; DISALLOWED  # CYRILLIC CAPITAL LETTER TSWE
A68F        ; PVALID  # CYRILLIC SMALL LETTER TSWE
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A692        ; DISALLOWED  # CYRILLIC CAPITAL LETTER TCHE
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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..A69F  ; PVALID  # COMBINING CYRILLIC LETTER EF..BAMUM LETTER K
A6F0..A6F1  ; PVALID  # BAMUM COMBINING MARK KOQNDON..BAMUM COMBINING MARK KOQNDON
A6F2..A6F7  ; DISALLOWED  # BAMUM NJAEMLI..BAMUM QUESTION MARK
A6F8..A6FF  ; UNASSIGNED  # <reserved>..<reserved>
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A717..A722  ; DISALLOWED  # MODIFIER LETTER DOT VERTICAL BAR..MODIFIER L
A723        ; PVALID  # LATIN SMALL LETTER EGYPTOLOGICAL ALEF
A724        ; DISALLOWED  # LATIN CAPITAL LETTER EGYPTOLOGICAL AIN
A725        ; PVALID  # LATIN SMALL LETTER EGYPTOLOGICAL AIN
A726        ; DISALLOWED  # LATIN CAPITAL LETTER HENG
A727        ; PVALID  # LATIN SMALL LETTER HENG
A728        ; DISALLOWED  # LATIN CAPITAL LETTER TZ
A729        ; PVALID  # LATIN SMALL LETTER TZ
A72A        ; DISALLOWED  # LATIN CAPITAL LETTER TRESILLO
A72B        ; PVALID  # LATIN SMALL LETTER TRESILLO
A72C        ; DISALLOWED  # LATIN CAPITAL LETTER CUATRILLO
A72D        ; PVALID  # LATIN SMALL LETTER CUATRILLO
A72E        ; DISALLOWED  # LATIN CAPITAL LETTER CUATRILLO WITH COMMA
A72F..A731  ; PVALID  # LATIN SMALL LETTER CUATRILLO WITH COMMA..LAT
A732        ; DISALLOWED  # LATIN CAPITAL LETTER AA
A733        ; PVALID  # LATIN SMALL LETTER AA
A734        ; DISALLOWED  # LATIN CAPITAL LETTER AO
A735 ; PVALID  # LATIN SMALL LETTER AO
A736 ; DISALLOWED  # LATIN CAPITAL LETTER AU
A737 ; PVALID  # LATIN SMALL LETTER AU
A738 ; DISALLOWED  # LATIN CAPITAL LETTER AV
A739 ; PVALID  # LATIN SMALL LETTER AV
A73A ; DISALLOWED  # LATIN CAPITAL LETTER AV WITH HORIZONTAL BAR
A73B ; PVALID  # LATIN SMALL LETTER AV WITH HORIZONTAL BAR
A73C ; DISALLOWED  # LATIN CAPITAL LETTER AY
A73D ; PVALID  # LATIN SMALL LETTER AY
A73E ; DISALLOWED  # LATIN CAPITAL LETTER REVERSED C WITH DOT
A73F ; PVALID  # LATIN SMALL LETTER REVERSED C WITH DOT
A740 ; DISALLOWED  # LATIN CAPITAL LETTER K WITH STROKE
A741 ; PVALID  # LATIN SMALL LETTER K WITH STROKE
A742 ; DISALLOWED  # LATIN CAPITAL LETTER K WITH DIAGONAL STROKE
A743 ; PVALID  # LATIN SMALL LETTER K WITH DIAGONAL STROKE
A744 ; DISALLOWED  # LATIN CAPITAL LETTER K WITH STROKE AND DIAGONAL STROKE
A745 ; PVALID  # LATIN SMALL LETTER K WITH STROKE AND DIAGONAL STROKE
A746 ; DISALLOWED  # LATIN CAPITAL LETTER BROKEN L
A747 ; PVALID  # LATIN SMALL LETTER BROKEN L
A748 ; DISALLOWED  # LATIN CAPITAL LETTER L WITH HIGH STROKE
A749 ; PVALID  # LATIN SMALL LETTER L WITH HIGH STROKE
A74A ; DISALLOWED  # LATIN CAPITAL LETTER O WITH LONG STROKE OVER
A74B ; PVALID  # LATIN SMALL LETTER O WITH LONG STROKE OVER
A74C ; DISALLOWED  # LATIN CAPITAL LETTER O WITH LOOP
A74D ; PVALID  # LATIN SMALL LETTER O WITH LOOP
A74E ; DISALLOWED  # LATIN CAPITAL LETTER OO
A74F ; PVALID  # LATIN SMALL LETTER OO
A750 ; DISALLOWED  # LATIN CAPITAL LETTER P WITH STROKE THROUGH D
A751 ; PVALID  # LATIN SMALL LETTER P WITH STROKE THROUGH DES
A752 ; DISALLOWED  # LATIN CAPITAL LETTER P WITH FLOURISH
A753 ; PVALID  # LATIN SMALL LETTER P WITH FLOURISH
A754 ; DISALLOWED  # LATIN CAPITAL LETTER P WITH SQUIRREL TAIL
A755 ; PVALID  # LATIN SMALL LETTER P WITH SQUIRREL TAIL
A756 ; DISALLOWED  # LATIN CAPITAL LETTER Q WITH STROKE THROUGH D
A757 ; PVALID  # LATIN SMALL LETTER Q WITH STROKE THROUGH DES
A758 ; DISALLOWED  # LATIN CAPITAL LETTER Q WITH DIAGONAL STROKE
A759 ; PVALID  # LATIN SMALL LETTER Q WITH DIAGONAL STROKE
A75A ; DISALLOWED  # LATIN CAPITAL LETTER R ROTUNDA
A75B ; PVALID  # LATIN SMALL LETTER R ROTUNDA
A75C ; DISALLOWED  # LATIN CAPITAL LETTER RUM ROTUNDA
A75D ; PVALID  # LATIN SMALL LETTER RUM ROTUNDA
A75E ; DISALLOWED  # LATIN CAPITAL LETTER V WITH DIAGONAL STROKE
A75F ; PVALID  # LATIN SMALL LETTER V WITH DIAGONAL STROKE
A760 ; DISALLOWED  # LATIN CAPITAL LETTER VY
A761 ; PVALID  # LATIN SMALL LETTER VY
A762 ; DISALLOWED  # LATIN CAPITAL LETTER VISIGOthic Z
A763 ; PVALID  # LATIN SMALL LETTER VISIGOthic Z
A764 ; DISALLOWED  # LATIN CAPITAL LETTER THORN WITH STROKE
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FE00..FE19  ; DISALLOWED  # VARIATION SELECTOR-1..<PRESENTATION FORM FOR
FE1A..FE1F  ; UNASSIGNED  # <reserved>..<reserved>
FE20..FE2F  ; PVALID  # COMBINING LIGATURE LEFT HALF..<COMBINING CYRILIC
FE30..FE52  ; DISALLOWED  # PRESENTATION FORM FOR VERTICAL TWO DOT LEADER
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>
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FE73         ; PVALID  # ARABIC TAIL FRAGMENT
FE74         ; DISALLOWED  # ARABIC KASRATAN ISOLATED FORM
FE75         ; UNASSIGNED  # <reserved>
FE76..FEFC  ; DISALLOWED  # ARABIC FATHA ISOLATED FORM..<ARABIC LIGATURE
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FEF0         ; UNASSIGNED  # <reserved>
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FFBF..FFC1  ; UNASSIGNED  # <reserved>..<reserved>
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FFE7         ; UNASSIGNED  # <reserved>
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10027        ; UNASSIGNED  # <reserved>
10028..1003A; PVALID  # LINEAR B SYLLABLE B060 RA..<LINEAR B SYLLABLE
1003B        ; UNASSIGNED  # <reserved>
1003C..1003D; PVALID  # LINEAR B SYLLABLE B017 ZA..<LINEAR B SYLLABLE
1003E        ; UNASSIGNED  # <reserved>
1003F..1004D; PVALID  # LINEAR B SYLLABLE B020 ZO..<LINEAR B SYLLABLE
1004E..1004F; UNASSIGNED  # <reserved>..<reserved>
10050..1005D; PVALID  # LINEAR B SYMBOL B018..<LINEAR B SYMBOL B089
1005E..1007F; UNASSIGNED  # <reserved>..<reserved>
10080..100FA; PVALID  # LINEAR B IDEOGRAPH B100 MAN..<LINEAR B IDEOGRAPH
100FB..100FF; UNASSIGNED # <reserved>..<reserved>
10100..10102; DISALLOWED # AEGEAN WORD SEPARATOR LINE..AEGEAN CHECK MARK
10103..10106; UNASSIGNED # <reserved>..<reserved>
10107..10133; DISALLOWED # AEGEAN NUMBER ONE..AEGEAN NUMBER NINETY THOUSAND
10134..10136; UNASSIGNED # <reserved>..<reserved>
10137..1018E; DISALLOWED # AEGEAN WEIGHT BASE UNIT..NOMISMA SIGN
1018F; UNASSIGNED # <reserved>
10190..1019B; DISALLOWED # ROMAN SEXTANS SIGN..ROMAN CENTURIAL SIGN
1019C..1019F; UNASSIGNED # <reserved>..<reserved>
101A0; DISALLOWED # GREEK SYMBOL TAU RHO
101A1..101CF; UNASSIGNED # <reserved>..<reserved>
101D0..101FD; DISALLOWED # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC SIGN
101FE; PVALID # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE
101FF; UNASSIGNED # <reserved>..<reserved>
10200..1020C; DISALLOWED # LYCIAN LETTER A..LYCIAN LETTER X
1020D..1020F; UNASSIGNED # <reserved>..<reserved>
10210..1022D; DISALLOWED # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC SIGN
10230..1023F; PVALID # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE
10240..1024F; UNASSIGNED # <reserved>..<reserved>
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10260..1026F; UNASSIGNED # <reserved>..<reserved>
10270..1027F; UNASSIGNED # <reserved>..<reserved>
10280..1028F; UNASSIGNED # <reserved>..<reserved>
10290..1029F; UNASSIGNED # <reserved>..<reserved>
102A0..102A1; PVALID # CARIAN LETTER A..CARIAN LETTER UUU3
102A2..102A3; DISALLOWED # CARIAN LETTER A..CARIAN LETTER UU
102A4..102A6; DISALLOWED # CARIAN LETTER A..CARIAN LETTER U
102A7..102A9; DISALLOWED # CARIAN LETTER A..CARIAN LETTER U
102AA..102AB; DISALLOWED # CARIAN LETTER A..CARIAN LETTER U
102AC..102AD; DISALLOWED # CARIAN LETTER A..CARIAN LETTER U
102AE..102AF; DISALLOWED # CARIAN LETTER A..CARIAN LETTER U
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102FC..102FD; DISALLOWED # CARIAN LETTER A..CARIAN LETTER U
102FE..102FF; DISALLOWED # CARIAN LETTER A..CARIAN LETTER U
10500..10527; PVALID # ELBASAN LETTER A..ELBASAN LETTER KHE
10528..1052F; UNASSIGNED # <reserved>..<reserved>
10530..10563; PVALID # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
10564..1056E; UNASSIGNED # <reserved>..<reserved>
1056F; DISALLOWED # CAUCASIAN ALBANIAN CITATION MARK
10570..105FF; UNASSIGNED # <reserved>..<reserved>
10600..10736; PVALID # LINEAR A SIGN AB001..LINEAR A SIGN A664
10737..1073F; UNASSIGNED # <reserved>..<reserved>
10740..10755; PVALID # LINEAR A SIGN A701 A..LINEAR A SIGN A732 JE
10756..1075F; UNASSIGNED # <reserved>..<reserved>
10760..10767; PVALID # LINEAR A SIGN A800..LINEAR A SIGN A807
10768..107FF; UNASSIGNED # <reserved>..<reserved>
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10808; PVALID # CYPRIOT SYLLABLE JO
10809; UNASSIGNED # <reserved>
1080A..10835; PVALID # CYPRIOT SYLLABLE KA..CYPRIOT SYLLABLE WO
10836; UNASSIGNED # <reserved>
10837..1083F; PVALID # CYPRIOT SYLLABLE XA..CYPRIOT SYLLABLE XE
10839..1083B; UNASSIGNED # <reserved>..<reserved>
1083C; PVALID # CYPRIOT SYLLABLE ZA
1083D..1083E; 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..10876; PVALID # PALMYRENE LETTER ALEPH..PALMYRENE LETTER TAW
10877..1087F; DISALLOWED # PALMYRENE LEFT-POINTING FLEURON..PALMYRENE N
10880..1089F; PVALID # NABATAEAN LETTER FINAL ALEPH..NABATAEAN LETTER
1089F..108A6; UNASSIGNED # <reserved>..<reserved>
108A7..108AF; DISALLOWED # NABATAEAN NUMBER ONE..NABATAEAN NUMBER ONE H
108B0..108DF; UNASSIGNED # <reserved>..<reserved>
108E0..108F2; PVALID # HATRAN LETTER ALEPH..HATRAN LETTER QOPH
108F3; UNASSIGNED # <reserved>
108F4..108F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER TAW
108F6..108FA; UNASSIGNED # <reserved>..<reserved>
108FB..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE HUNDRED
10900..10915; PVALID # PHOENICIAN LETTER ALEF..PHOENICIAN LETTER TAU
10916..1091B; DISALLOWED # PHOENICIAN NUMBER ONE..PHOENICIAN NUMBER THR
1091C..1091E; UNASSIGNED # <reserved>..<reserved>
1091F; DISALLOWED # PHOENICIAN WORD SEPARATOR
10920..10939; PVALID # LYDIAN LETTER A..LYDIAN LETTER C
1093A..1093E; UNASSIGNED # <reserved>..<reserved>
1093F; DISALLOWED # LYDIAN TRIANGULAR MARK
10940..1097F; UNASSIGNED # <reserved>..<reserved>
10980..109B7; PVALID # MEROITIC HIEROGLYPHIC LETTER A..MEROITIC CUR
109B8..109BB; UNASSIGNED # <reserved>..<reserved>
109BC..109BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
109BE..109BF; PVALID # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
10C80..10CB2; DISALLOWED # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIAN
10CB3..10CBF; UNASSIGNED # <reserved>..<reserved>
10CC0..10CF2; PVALID # OLD HUNGARIAN SMALL LETTER A..OLD HUNGARIAN
10CF3..10CF9; UNASSIGNED # <reserved>..<reserved>
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMB
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..10E7F; 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 # 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..10FDF; UNASSIGNED # <reserved>..<reserved>
10FE0..10FFF; PVALID # ELYMAIC LETTER ALEPH..ELYMAIC LIGATURE ZAYIN
10FFF; UNASSIGNED # <reserved>..<reserved>
11000..11046; PVALID # BRAHMI SIGN CANDRABINDU..BRAHMI VIRAMA
11047..1105C; DISALLOWED # BRAHMI NUMBER JOINER..KAITHI SIGN NUKTA
1105E..1106F; DISALLOWED # BRAHMI NUMBER TWO..BRAHMI NUMBER TWO THOUSAN
11070..1107E; PVALID # BRAHMI DIGIT ZERO..BRAHMI DIGIT NINE
1107F..11084; DISALLOWED # BRAHMI NUMBER JOINER..KAITHI SIGN NUKTA
11085..1108C; UNASSIGNED # <reserved>..<reserved>
1108D; DISALLOWED # KAITHI NUMBER SIGN ABOVE
1108E..110CF; UNASSIGNED # <reserved>..<reserved>
110D0..110F8; PVALID # SORA SOMPENG LETTER SAH..SORA SOMPENG LETTER
110F9..110FF; UNASSIGNED # <reserved>..<reserved>
11100..111C8; PVALID # CHAKMA SIGN CANDRABINDU..CHAKMA MAAYYAA
11135 # 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 # 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>
111D0..111DA; PVALID # SHARADA DIGIT ZERO..SHARADA EKAM
111DB ; DISALLOWED # SHARADA SIGN SIDDHAM
111DC ; PVALID # SHARADA HEADSTROKE
111DD..111DF; DISALLOWED # SHARADA CONTINUATION SIGN..SHARADA SECTION M
111E0 ; UNASSIGNED # <reserved>
111E1..111F4; DISALLOWED # SINHALA ARCHAIC DIGIT ONE..SINHALA ARCHAIC N
111F5..111FF; UNASSIGNED # <reserved>..<reserved>
11200..11211; PVALID # KHOJKI LETTER A..KHOJKI LETTER JJA
11212 ; UNASSIGNED # <reserved>
11213..11237; PVALID # KHOJKI LETTER NYA..KHOJKI SIGN SHADDA
11238..1123D; DISALLOWED # KHOJKI DANDA..KHOJKI ABBREVIATION SIGN
1123E ; PVALID # KHOJKI SIGN SUKUN
1123F..1127F; UNASSIGNED # <reserved>..<reserved>
11280..11286; PVALID # MULTANI LETTER A..MULTANI LETTER GA
11287 ; UNASSIGNED # <reserved>
11288 ; PVALID # MULTANI LETTER GHA
11289 ; UNASSIGNED # <reserved>
1128A..1128D; PVALID # MULTANI LETTER CA..MULTANI LETTER JJA
1128E ; UNASSIGNED # <reserved>
1128F..1129D; PVALID # MULTANI LETTER NYA..MULTANI LETTER BA
1129E ; UNASSIGNED # <reserved>
1129F..112A8; PVALID # MULTANI LETTER BHA..MULTANI LETTER RHA
112A9 ; DISALLOWED # MULTANI SECTION MARK
112AA..112AF; UNASSIGNED # <reserved>..<reserved>
112B0..112EA; PVALID # KHUDAWADI LETTER A..KHUDAWADI SIGN VIRAMA
112EB..112EF; UNASSIGNED # <reserved>..<reserved>
112F0..112F9; PVALID # KHUDAWADI DIGIT ZERO..KHUDAWADI DIGIT NINE
112FA..112FF; UNASSIGNED # <reserved>..<reserved>
11300..11303; PVALID # GRANTHA SIGN COMBINING ANUSVARA ABOVE..GRANT
11304 ; UNASSIGNED # <reserved>
11305..1130C; PVALID # GRANTHA LETTER A..GRANTHA LETTER VOCALIC L
1130D..1130E; UNASSIGNED # <reserved>..<reserved>
1130F..11310; PVALID # GRANTHA LETTER EE..GRANTHA LETTER AI
11311..11312; UNASSIGNED # <reserved>..<reserved>
11313..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 PA..GRANTHA LETTER LLA
11334 ; UNASSIGNED # <reserved>
11335..11339; PVALID # GRANTHA LETTER LA..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 # GRANTHA OM
11351..11356; UNASSIGNED # <reserved>..<reserved>
11357 # GRANTHA AU LENGTH MARK
11358..1135C; UNASSIGNED # <reserved>..<reserved>
1135D..11363; PVALID # GRANTHA SIGN PLUTA..GRANTHA VOWEL SIGN VOCAL
11364..11365; UNASSIGNED # <reserved>..<reserved>
11366..1136C; PVALID # COMBINING GRANTHA DIGIT ZERO..COMBINING GRAN
1136D..1136F; UNASSIGNED # <reserved>..<reserved>
11370..11374; PVALID # COMBINING GRANTHA LETTER A..COMBINING GRANTH
11375..1137F; UNASSIGNED # <reserved>..<reserved>
11400..1144A; PVALID # NEWA LETTER A..NEWA SIDDHI
1144B..1144F; DISALLOWED # NEWA DANDA..NEWA ABBREVIATION SIGN
11450..11459; PVALID # NEWA DIGIT ZERO..NEWA DIGIT NINE
1145A # <reserved>
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1145E..1145F; PVALID # NEWA SANDHI MARK..NEWA LETTER VEDIC ANUSVARA
11460..1147F; UNASSIGNED # <reserved>..<reserved>
11480..114C5; PVALID # TIRHUTA ANJI..TIRHUTA GVANG
114C6 # <reserved>
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114C8..114CF; UNASSIGNED # <reserved>..<reserved>
114DA..114DF; PVALID # TIRHUTA DIGIT ZERO..TIRHUTA DIGIT NINE
11580..115B5; PVALID # SIDDHAM LETTER A..SIDDHAM VOWEL SIGN VOCALIC
115B6..115B7; UNASSIGNED # <reserved>..<reserved>
115B8..115C0; PVALID # SIDDHAM VOWEL SIGN E..SIDDHAM SIGN NUKTA
115C1..115C7; DISALLOWED # SIDDHAM SIGN SIDDHAM..SIDDHAM SECTION MARK W
115D8..115DD; PVALID # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SID
115DE..115FF; UNASSIGNED # <reserved>..<reserved>
11600..11640; PVALID # MODI LETTER A..MODI SIGN ARDHACANDRA
11641..11643; DISALLOWED # MODI DANDA..MODI ABBREVIATION SIGN
11644 # <reserved>
11645..1164F; UNASSIGNED # <reserved>..<reserved>
11650..11659; PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
1165A..1165F; UNASSIGNED # <reserved>..<reserved>
11660..1166F; DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
1166D..1167F; UNASSIGNED # <reserved>..<reserved>
11680..116BF; PVALID # TAKRI LETTER A..TAKRI LETTER ARCHAIC KHA
116B9..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
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<td>11C00..11C08</td>
<td>PVALID</td>
<td>BHAIKSUKI LETTER A..BHAIKSUKI LETTER VOCALIC</td>
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<td>PVALID</td>
<td>BHAIKSUKI LETTER E..BHAIKSUKI VOWEL SIGN VOC</td>
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<td>BHAIKSUKI VOWEL SIGN E..BHAIKSUKI SIGN AVAGR</td>
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<td>DISALLOWED</td>
<td>BHAIKSUKI DANDA..BHAIKSUKI GAP FILLER-2</td>
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<td>BHAIKSUKI DIGIT ZERO..BHAIKSUKI DIGIT NINE</td>
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<td>BHAIKSUKI NUMBER ONE..BHAIKSUKI HUNDREDS UNI</td>
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<td>11C70..11C71</td>
<td>DISALLOWED</td>
<td>MARCHEN HEAD MARK..MARCHEN MARK SHAD</td>
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<td>11C72..11C8F</td>
<td>PVALID</td>
<td>MARCHEN LETTER KA..MARCHEN LETTER A</td>
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<td>11C92..11CA7</td>
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<td>MARCHEN SUBJOINED LETTER KA..MARCHEN SUBJOIN</td>
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<td>PVALID</td>
<td>MARCHEN SUBJOINED LETTER YA..MARCHEN SIGN CA</td>
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11CB7..11CFF; UNASSIGNED # <reserved>..<reserved>
11D00..11D06; PVALID # MASARAM GONDI LETTER A..MASARAM GONDI LETTER
11D07 ; UNASSIGNED # <reserved>
11D08..11D09; PVALID # MASARAM GONDI LETTER AI..MASARAM GONDI LETTER
11D0A ; UNASSIGNED # <reserved>
11D0B..11D36; PVALID # MASARAM GONDI LETTER AU..MASARAM GONDI VOWEL
11D37..11D39; UNASSIGNED # <reserved>..<reserved>
11D3A ; PVALID # MASARAM GONDI VOWEL SIGN E
11D3B ; UNASSIGNED # <reserved>
11D3C..11D3D; PVALID # MASARAM GONDI VOWEL SIGN AI..MASARAM GONDI V
11D3E ; UNASSIGNED # <reserved>
11D3F..11D47; PVALID # MASARAM GONDI VOWEL SIGN AU..MASARAM GONDI R
11D48..11D4F; UNASSIGNED # <reserved>..<reserved>
11D50..11D59; PVALID # MASARAM GONDI DIGIT ZERO..MASARAM GONDI DIGI
11D5A..11D5F; UNASSIGNED # <reserved>..<reserved>
11D60..11D65; PVALID # GUNJALA GONDI LETTER A..GUNJALA GONDI LETTER
11D66 ; UNASSIGNED # <reserved>
11D67..11D68; PVALID # GUNJALA GONDI LETTER EE..GUNJALA GONDI LETTER
11D69 ; UNASSIGNED # <reserved>
11D6A..11D8E; PVALID # GUNJALA GONDI LETTER OO..GUNJALA GONDI VOWEL
11D8F ; UNASSIGNED # <reserved>
11D90..11D91; PVALID # GUNJALA GONDI VOWEL SIGN EE..GUNJALA GONDI V
11D92 ; UNASSIGNED # <reserved>
11D93..11D98; PVALID # GUNJALA GONDI VOWEL SIGN OO..GUNJALA GONDI O
11D99..11D9F; UNASSIGNED # <reserved>..<reserved>
11DA0..11DA9; PVALID # GUNJALA GONDI DIGIT ZERO..GUNJALA GONDI DIGI
11DAA..11EDF; UNASSIGNED # <reserved>..<reserved>
11EE0..11EF6; PVALID # MAKASAR LETTER KA..MAKASAR VOWEL SIGN O
11EF7..11EF8; DISALLOWED # MAKASAR PASSIMBANG..MAKASAR END OF SECTION
11EF9..11FFB; UNASSIGNED # <reserved>..<reserved>
11FC0..11FF1; DISALLOWED # TAMIL FRACTION ONE THREE-HUNDRED-AND-TWENTIE
11FF2..11FFE; UNASSIGNED # <reserved>..<reserved>
11FFF ; DISALLOWED # TAMIL PUNCTUATION END OF TEXT
12000..12399; PVALID # CUNEIFORM SIGN A..CUNEIFORM SIGN U U
1239A..123FF; UNASSIGNED # <reserved>..<reserved>
12400..1246E; DISALLOWED # CUNEIFORM NUMERIC SIGN TWO ASH..CUNEIFORM NU
1246F ; UNASSIGNED # <reserved>
12470..12474; DISALLOWED # CUNEIFORM PUNCTUATION SIGN OLD ASSYRIAN WORD
12475..1247F; UNASSIGNED # <reserved>..<reserved>
12480..12543; PVALID # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM
12544..12FFF; UNASSIGNED # <reserved>..<reserved>
13000..1342E; PVALID # EGYPTIAN HIEROGLYPH A001..EGYPTIAN HIEROGLYP
1342F ; UNASSIGNED # <reserved>
13430..13438; DISALLOWED # EGYPTIAN HIEROGLYPH VERTICAL JOINER..EGYP
13439..1343FF; UNASSIGNED # <reserved>..<reserved>
14400..14646; PVALID # ANATOLIAN HIEROGLYPH A001..ANATOLIAN HIEROGL
14647..167FF; UNASSIGNED # <reserved>..<reserved>
16800..16A38; PVALID # BAMUM LETTER PHASE-A NGKUE MFON..BAMUM LETTE
16A39..16A3F; UNASSIGNED # <reserved>..<reserved>
16A40..16A5E; PVALID # MRO LETTER TA..MRO LETTER TEK
16A5F; UNASSIGNED # <reserved>
16A60..16A69; PVALID # MRO DIGIT ZERO..MRO DIGIT NINE
16A6A..16A6D; UNASSIGNED # <reserved>..<reserved>
16A6E..16A6F; DISALLOWED # MRO DANDA..MRO DOUBLE DANDA
16A70..16A7F; UNASSIGNED # <reserved>..<reserved>
16A80..16A9E; PVALID # BASSA VAH LETTER ENNI..BASSA VAH LETTER I
16A9F..16AFC; UNASSIGNED # <reserved>..<reserved>
16AF5; DISALLOWED # BASSA VAH FULL STOP
16AF6..16AFF; UNASSIGNED # <reserved>..<reserved>
16B00..16B36; PVALID # PAHAWH HMONG VOWEL KEEB..PAHAWH HMONG MARK C
16B37..16B3F; DISALLOWED # PAHAWH HMONG SIGN VOS THOM..PAHAWH HMONG SIG
16B40..16B43; PVALID # PAHAWH HMONG SIGN VOS SEEV..PAHAWH HMONG SIG
16B44..16B45; DISALLOWED # PAHAWH HMONG SIGN XAUS..PAHAWH HMONG SIG
16B46..16B4F; UNASSIGNED # <reserved>..<reserved>
16B50..16B59; PVALID # PAHAWH HMONG DIGIT ZERO..PAHAWH HMONG DIGIT
16B5A; UNASSIGNED # <reserved>
16B5B..16B66; DISALLOWED # PAHAWH HMONG NUMBER TENS..PAHAWH HMONG NUMBE
16B67; UNASSIGNED # <reserved>
16B68..16B7C; UNASSIGNED # <reserved>..<reserved>
16B80..16B8F; PVALID # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
16B90..16B93; PVALID # PAHAWH HMONG CLAN SIGN TSHEEJ..PAHAWH HMONG
16B94..16B95; DISALLOWED # MEDEFAIDRIN CAPITAL LETTER M..MEDEFAIDRIN CA
16B96..16B9F; PVALID # MEDEFAIDRIN SMALL LETTER M..MEDEFAIDRIN SMAL
16BA0..16BAA; DISALLOWED # MEDEFAIDRIN DIGIT ZERO..MEDEFAIDRIN EXCLAMAT
16BB9..16BBF; UNASSIGNED # <reserved>..<reserved>
16BF0..16BFF; PVALID # MIAO LETTER PA..MIAO LETTER RTE
16BF4..16BFF; UNASSIGNED # <reserved>..<reserved>
16BF8..16FF7; PVALID # MIAO SIGN CONSONANT MODIFIER BAR..MIAO VOWEL
16F88..16F8E; UNASSIGNED # <reserved>..<reserved>
16F8F..16FF9; PVALID # MIAO TONE RIGHT..MIAO LETTER REFORMED TONE-8
16FA0..16FAF; UNASSIGNED # <reserved>..<reserved>
16FE0..16FE1; PVALID # TANGUT ITERATION MARK..NUSHU ITERATION MARK
16FE2; DISALLOWED # OLD CHINESE HOOK MARK
16FE3; PVALID # OLD CHINESE ITERATION MARK
16FE4..16FEF; UNASSIGNED # <reserved>..<reserved>
17000..170FF; PVALID # <Tangut Ideograph>..<Tangut Ideograph>
187F8..187FF; UNASSIGNED # <reserved>..<reserved>
18800..18AFF; PVALID # TANGUT COMPONENT-001..TANGUT COMPONENT-755
18AF3..1AFFF; UNASSIGNED # <reserved>..<reserved>
18B00..1B11C; PVALID # KATAKANA LETTER ARCHAIC E..HENTAIGANA LETTER
1B11F..1B14F; UNASSIGNED # <reserved>..<reserved>
1B150..1B152; PVALID # HIRAGANA LETTER SMALL WI..HIRAGANA LETTER SM
1B153..1B163; UNASSIGNED # <reserved>..<reserved>
1B164..1B167; PVALID # KATAKANA LETTER SMALL WI..KATAKANA LETTER SM
1B168..1B16F; UNASSIGNED  # <reserved>..<reserved>
1B170..1B2FB; PVALID  # NUSHU CHARACTER-1B170..NUSHU CHARACTER-1B2FB
1B2FC..1BBFF; UNASSIGNED  # <reserved>..<reserved>
1BC00..1BC6A; PVALID  # DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M
1BC6B..1BC6F; UNASSIGNED  # <reserved>..<reserved>
1BC70..1BC7C; PVALID  # DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLOYAN AFFIX LEFT HORIZONTAL SECANT
1BC7D..1BC7F; UNASSIGNED  # <reserved>..<reserved>
1BC80..1BC88; PVALID  # DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HIGH ACUTE
1BC89..1BC8F; UNASSIGNED  # <reserved>..<reserved>
1BC90..1BC99; PVALID  # DUPLOYAN AFFIX LOW ACUTE..DUPLOYAN AFFIX LOW ACUTE
1BC9A..1BC9B; UNASSIGNED  # <reserved>..<reserved>
1BC9C  # DISALLOWED  # DUPLOYAN SIGN O WITH CROSS
1BC9D..1BC9E; PVALID  # DUPLOYAN THICK LETTER SELECTOR..DUPLOYAN THICK LETTER SELECTOR
1BC9F..1BCA3; DISALLOWED  # DUPLOYAN PUNCTUATION CHINOOK FULL STOP..CHINOOK FULL STOP
1BCA4..1CFFF; UNASSIGNED  # <reserved>..<reserved>
1D000..1D0FF; DISALLOWED  # BYZANTINE MUSICAL SYMBOL PSILI..BYZANTINE MUSICAL SYMBOL PSILI
1D100..1D128; DISALLOWED  # MUSICAL SYMBOL SINGLE BARLINE..MUSICAL SYMBOL SINGLE BARLINE
1D129..1D12B; UNASSIGNED  # <reserved>..<reserved>
1D12C..1D12E; DISALLOWED  # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICAL SYMBOL MULTIPLE MEASURE REST
1D12F; UNASSIGNED  # <reserved>..<reserved>
1D130..1D1E8; DISALLOWED  # MUSICAL SYMBOL MULTIPLE MEASURE REST..MUSICAL SYMBOL MULTIPLE MEASURE REST
1D1E9..1D1FF; UNASSIGNED  # <reserved>..<reserved>
1D200..1D25F; DISALLOWED  # GREEK VOCAL NOTATION SYMBOL-1..GREEK VOCAL NOTATION SYMBOL-1
1D266..1D2DF; UNASSIGNED  # <reserved>..<reserved>
1D2E0..1D2F3; DISALLOWED  # MAYAN NUMERAL ZERO..MAYAN NUMERAL NINETEEN
1D2F4..1D2FF; UNASSIGNED  # <reserved>..<reserved>
1D300..1D35F; DISALLOWED  # MONOGRAM FOR EARTH..TETRAGRAM FOR FOSTERING
1D357..1D35F; UNASSIGNED  # <reserved>..<reserved>
1D360..1D378; DISALLOWED  # COUNTING ROD UNIT DIGIT ONE..TALLY MARK FIVE
1D379..1D3FF; UNASSIGNED  # <reserved>..<reserved>
1D400..1D454; DISALLOWED  # MATHEMATICAL BOLD CAPITAL A..MATHEMATICAL ITALIC SMALL I
1D455  # DISALLOWED  # <reserved>
1D456..1D49C; DISALLOWED  # MATHEMATICAL ITALIC SMALL I..MATHEMATICAL SCIENTIFIC 사랑의 교통
1D49D; UNASSIGNED  # <reserved>..<reserved>
1D49E..1D49F; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL C..MATHEMATICAL SCRIPT CAPITAL C
1D4A0..1D4A1; UNASSIGNED  # <reserved>..<reserved>
1D4A2  # DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL G
1D4A3..1D4A4; UNASSIGNED  # <reserved>..<reserved>
1D4A5..1D4A6; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL J..MATHEMATICAL SCRIPT CAPITAL J
1D4A7..1D4A8; UNASSIGNED  # <reserved>..<reserved>
1D4A9..1D4AC; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL N..MATHEMATICAL SCRIPT CAPITAL N
1D4AD; UNASSIGNED  # <reserved>..<reserved>
1D4AE..1D4B9; DISALLOWED  # MATHEMATICAL SCRIPT CAPITAL S..MATHEMATICAL SCRIPT CAPITAL S
1D4BA; UNASSIGNED  # <reserved>..<reserved>
1D4BB; DISALLOWED  # MATHEMATICAL SCRIPT SMALL F
1D4BC; UNASSIGNED  # <reserved>..<reserved>
1D4BD..1D4C3; DISALLOWED  # MATHEMATICAL SCRIPT SMALL H..MATHEMATICAL SCRIPT SMALL H
1D4C4; UNASSIGNED  # <reserved>..<reserved>
1D4C5..1D505; DISALLOWED  # MATHEMATICAL SCRIPT SMALL P..MATHEMATICAL SCRIPT SMALL P
1D506       ; UNASSIGNED # <reserved>
1D507..1D50A; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL D..MATHEMATICAL
1D50B..1D50C; UNASSIGNED # <reserved>...<reserved>
1D50D..1D514; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL J..MATHEMATICAL
1D515       ; UNASSIGNED # <reserved>
1D516..1D51C; DISALLOWED # MATHEMATICAL FRAKTUR CAPITAL S..MATHEMATICAL
1D51D       ; UNASSIGNED # <reserved>
1D51E..1D539; DISALLOWED # MATHEMATICAL FRAKTUR SMALL A..MATHEMATICAL D
1D53A       ; UNASSIGNED # <reserved>
1D53B..1D53E; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL D..MATHEM
1D53F       ; UNASSIGNED # <reserved>
1D540..1D544; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL I..MATHEM
1D545       ; UNASSIGNED # <reserved>
1D546       ; UNASSIGNED # MATHEMATICAL DOUBLE-STRUCK CAPITAL O
1D547..1D549; DISALLOWED # <reserved>...<reserved>
1D54A..1D550; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK CAPITAL S..MATHEM
1D551       ; UNASSIGNED # <reserved>
1D552..1D56A; DISALLOWED # MATHEMATICAL DOUBLE-STRUCK SMALL A..MATHEMAT
1D56A..1D567; UNASSIGNED # <reserved>...<reserved>
1D568..1D57C; DISALLOWED # MATHEMATICAL BOLD CAPITAL ALPHA..MATHEMATICA
1D57C..1D5C; UNASSIGNED # <reserved>...<reserved>
1D5CE..1D5FF; DISALLOWED # MATHEMATICAL BOLD DIGIT ZERO..SIGNWRITING HE
1DA00..1DA36; PVALID # SIGNWRITING HEAD RIM..SIGNWRITING AIR SUCKIN
1DA37..1DA3A; DISALLOWED # SIGNWRITING AIR BLOW SMALL ROTATIONS..SIGNWR
1DA3B..1DA6C; PVALID # SIGNWRITING MOUTH CLOSED NEUTRAL..SIGNWRITING
1DA6D..1DA74; DISALLOWED # SIGNWRITING SHOULDER HIP SPINE..SIGNWRITING
1DA75       ; PVALID # SIGNWRITING UPPER BODY TILTING FROM HIP JOIN
1DA76..1DA83; DISALLOWED # SIGNWRITING LIMB COMBINATION..SIGNWRITING LOC
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
1DAA0       ; UNASSIGNED # <reserved>
1DAA1..1DAFF; PVALID # SIGNWRITING ROTATION MODIFIER-2..SIGNWRITING
1DAB0..1DFFF; UNASSIGNED # <reserved>...<reserved>
1EB00..1E006; PVALID # COMBINING GLAGOLITIC LETTER AZU..COMBINING G
1E007       ; UNASSIGNED # <reserved>
1E008..1E01B; PVALID # COMBINING GLAGOLITIC LETTER ZEMLJA..COMBINING N
1E019..1E01A; UNASSIGNED # <reserved>...<reserved>
1E01B..1E021; PVALID # COMBINING GLAGOLITIC LETTER SHTA..COMBINING S
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..1E0FF; UNASSIGNED # <reserved>...<reserved>
1E100..1E12C; PVALID # NYIAKENG PUACHUE HMONG LETTER MA..NYIAKENG P
1E12D..1E12F; UNASSIGNED # <reserved>...<reserved>
1E130..1E13D; PVALID # NYIAKENG PUACHUE HMONG TONE-B..NYIAKENG PUAC
1E13E..1E13F; UNASSIGNED # <reserved>..<reserved>
1E140..1E149; PVALID  # NYIAKENG PUACHUE HMONG DIGIT ZERO..NYIAKENG
1E14A..1E14D; UNASSIGNED # <reserved>..<reserved>
1E14E; PVALID  # NYIAKENG PUACHUE HMONG LOGOGRAM NYAJ
1E14F; DISALLOWED  # NYIAKENG PUACHUE HMONG CIRCLED CA
1E150..1E15F; UNASSIGNED # <reserved>..<reserved>
1E160..1E16F; UNASSIGNED # <reserved>..<reserved>
1E170..1E17F; UNASSIGNED # <reserved>..<reserved>
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1E220..1E23F; UNASSIGNED # <reserved>..<reserved>
1E240..1E25F; UNASSIGNED # <reserved>..<reserved>
1E260..1E27F; UNASSIGNED # <reserved>..<reserved>
1E280..1E29F; UNASSIGNED # <reserved>..<reserved>
1E2A0..1E2BF; UNASSIGNED # <reserved>..<reserved>
1E2C0..1E2FF; UNASSIGNED # <reserved>..<reserved>
1E2F0..1E2FF; UNASSIGNED # <reserved>..<reserved>
1E300..1E31F; UNASSIGNED # <reserved>..<reserved>
1E320..1E33F; UNASSIGNED # <reserved>..<reserved>
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1E360..1E37F; UNASSIGNED # <reserved>..<reserved>
1E380..1E39F; UNASSIGNED # <reserved>..<reserved>
1E3A0..1E3BF; UNASSIGNED # <reserved>..<reserved>
1E3C0..1E3FF; UNASSIGNED # <reserved>..<reserved>
1E400..1E41F; UNASSIGNED # <reserved>..<reserved>
1E420..1E43F; UNASSIGNED # <reserved>..<reserved>
1E440..1E45F; UNASSIGNED # <reserved>..<reserved>
1E460..1E47F; UNASSIGNED # <reserved>..<reserved>
1E480..1E49F; UNASSIGNED # <reserved>..<reserved>
1E4A0..1E4BF; UNASSIGNED # <reserved>..<reserved>
1E4C0..1E4FF; UNASSIGNED # <reserved>..<reserved>
1E500..1E51F; UNASSIGNED # <reserved>..<reserved>
1E520..1E53F; UNASSIGNED # <reserved>..<reserved>
1E540..1E55F; UNASSIGNED # <reserved>..<reserved>
1E560..1E57F; UNASSIGNED # <reserved>..<reserved>
1E580..1E59F; UNASSIGNED # <reserved>..<reserved>
1E5A0..1E5BF; UNASSIGNED # <reserved>..<reserved>
1E5C0..1E5FF; UNASSIGNED # <reserved>..<reserved>
1E600..1E61F; UNASSIGNED # <reserved>..<reserved>
1E620..1E63F; UNASSIGNED # <reserved>..<reserved>
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1E6A0..1E6BF; UNASSIGNED # <reserved>..<reserved>
1E6C0..1E6FF; UNASSIGNED # <reserved>..<reserved>
1E700..1E71F; UNASSIGNED # <reserved>..<reserved>
1E720..1E73F; UNASSIGNED # <reserved>..<reserved>
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1E760..1E77F; UNASSIGNED # <reserved>..<reserved>
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1E8C0..1E8FF; UNASSIGNED # <reserved>..<reserved>
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1E920..1E93F; UNASSIGNED # <reserved>..<reserved>
1E940..1E95F; UNASSIGNED # <reserved>..<reserved>
1E960..1E97F; UNASSIGNED # <reserved>..<reserved>
1E980..1E99F; UNASSIGNED # <reserved>..<reserved>
1E9A0..1E9BF; UNASSIGNED # <reserved>..<reserved>
1E9C0..1E9FF; UNASSIGNED # <reserved>..<reserved>
1EA00..1E9FF; UNASSIGNED # <reserved>..<reserved>
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1E9A0..1E9AF; UNASSIGNED # <reserved>..<reserved>
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1E9B0..1E9BF; UNASSigned # <reserved>..<reserved>
1E9C0..1E9FF; UNASSigned # <reserved>..<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 M
1EE78 ; UNASSIGNED # <reserved>
1EE79..1EE7C; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DAD..ARABIC MA
1EE7D ; UNASSIGNED # <reserved>
1EE7E ; DISALLOWED # ARABIC MATHEMATICAL STRETCHED DOTLESS FEH
1EE7F ; UNASSIGNED # <reserved>
1EE80..1EE89; DISALLOWED # ARABIC MATHEMATICAL LOOPED ALEF..ARABIC MATH
1EE8A ; UNASSIGNED # <reserved>
1EE8B..1EE9B; DISALLOWED # ARABIC MATHEMATICAL LOOPED LAM..ARABIC MATHE
1EE9C..1EEA0; UNASSIGNED # <reserved>..<reserved>
1EEA1..1EEA3; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK BEH..ARABI
1EEA4 ; UNASSIGNED # <reserved>
1EEA5..1EEA9; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK WAW..ARABI
1EEAA ; UNASSIGNED # <reserved>
1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
1EEBC..1EEEF; UNASSIGNED # <reserved>..<reserved>
1EEF0..1EEF1; DISALLOWED # ARABIC MATHEMATICAL OPERATOR MEEM WITH HAH W
1EEF2..1EFFF; UNASSIGNED # <reserved>..<reserved>
1FF00..1FF02B; DISALLOWED # MAHJONG TILE EAST WIND..MAHJONG TILE BACK
1FF02C..1FF02F; UNASSIGNED # <reserved>..<reserved>
Faltstrom
Expires September 12, 2019

[Page 82]
1F900..1F90B; DISALLOWED # CIRCLED CROSS FORMEE WITH FOUR DOTS..DOWNWAR
1F90C; UNASSIGNED # <reserved>
1F90D..1F971; DISALLOWED # WHITE HEART..YAWNING FACE
1F972; UNASSIGNED # <reserved>
1F973..1F976; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F977..1F979; UNASSIGNED # <reserved>
1F97A..1F9A2; DISALLOWED # FACE WITH PLEADING EYES..SWAN
1F9A3..1F9A4; UNASSIGNED # <reserved>
1F9A5..1F9AA; DISALLOWED # SLOTH..OYSTER
1F9AB..1F9AD; UNASSIGNED # <reserved>
1F9AE..1F9CA; DISALLOWED # GUIDE DOG..ICE CUBE
1F9CB..1F9CC; UNASSIGNED # <reserved>
1F9CD..1F953; DISALLOWED # STANDING PERSON..BLACK CHESS KNIGHT-BISHOP
1FA4..1FA5F; UNASSIGNED # <reserved>
1FA60..1FA6D; DISALLOWED # XIANGQI RED GENERAL..XIANGQI BLACK SOLDIER
1FA6E..1FA6F; UNASSIGNED # <reserved>
1FA70..1FA73; DISALLOWED # BALLET SHOES..SHORTS
1FA74..1FA77; UNASSIGNED # <reserved>
1FA78..1FA7A; DISALLOWED # DROP OF BLOOD..STETHOSCOPE
1FA7B..1FA7F; UNASSIGNED # <reserved>
1FA80..1FA82; DISALLOWED # YO-YO..PARACHUTE
1FA83..1FA8F; UNASSIGNED # <reserved>
1FA90..1FA95; DISALLOWED # RINGED PLANET..BANJO
1FA96..1FFFD; UNASSIGNED # <reserved>
1FFE..1FFF; DISALLOWED # <noncharacter>
20000..2A6D6; PVALID # <CJK Ideograph Extension B>..<CJK Ideograph
2A6D7..2A6F; UNASSIGNED # <reserved>
2A700..2B734; PVALID # <CJK Ideograph Extension C>..<CJK Ideograph
2B735..2B73F; UNASSIGNED # <reserved>
2B740..2B75D; PVALID # <CJK Ideograph Extension D>..<CJK Ideograph
2B81E..2B81F; UNASSIGNED # <reserved>
2B820..2CEA1; PVALID # <CJK Ideograph Extension E>..<CJK Ideograph
2CEA2..2CEAF; UNASSIGNED # <reserved>
2CEB0..2EBED; PVALID # <CJK Ideograph Extension F>..<CJK Ideograph
2EBE1..2F7FF; UNASSIGNED # <reserved>
2F800..2FA1D; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-2F800..CJK COMP
2FA1E..2FFF; UNASSIGNED # <reserved>
3FFE..3FFF; DISALLOWED # <noncharacter>
40000..4FFF; UNASSIGNED # <reserved>
4FFE..4FFFF; DISALLOWED # <noncharacter>
50000..5FFFF; UNASSIGNED # <reserved>
5FFE..5FFFF; DISALLOWED # <noncharacter>
60000..6FFFF; UNASSIGNED # <reserved>
6FFE..6FFFF; DISALLOWED # <noncharacter>
70000..7FFF; UNASSIGNED # <reserved>
7FFE..7FFFF; DISALLOWED # <noncharacter>
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