IDNA2008 and Unicode 11.0.0
draft-faltstrom-unicodell-04

Abstract

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

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

Thus this document requests that IANA update the tables to Unicode 11.

In addition, all registries should continue the practice of calculating a repertoire using conservatism and inclusion principles.

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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This Internet-Draft will expire on April 10, 2019.
1. Introduction

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

When the Unicode Standard is updated code points are assigned and
property values might be changed for already assigned code points.

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

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

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

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

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

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

3. Background

3.1. IDNA2008 Documents

IDNA2008 consists of the following documents:

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

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

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

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

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

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

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

3.2. Deployment

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

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

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

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

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

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

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

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

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

The complicated situation with deployment of IDNA2008 is discussed further in draft-klensin-idna-rfc5891bis [I-D.klensin-idna-rfc5891bis] and draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters].

4. Notable changes between Unicode 6.3.0 and 11.0.0

4.1. Changes to Unicode 7.0.0

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

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

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

As U+08A1 is discussed in draft-freytag-troublesome-characters [I-D.freytag-troublesome-characters] and elsewhere. Regardless of whether those discussions ends in recommending including the code point in the repertoire of characters permissible for registration or not, it is acceptable to allow the code point to have a derived property value of PVALID.
4.2. Changes between Unicode 7.0.0 and 10.0.0

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

4.3. Changes to Unicode 11.0.0

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

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

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

- The newly assigned 684 characters are to have a derived property value as a result of applying the IDNA2008 algorithm.
- The Georgian letters in the ranges U+10D0..U+10FA and U+10FD..U+10FF have existed since before IDNA2008 was created. Applying the IDNA2008 algorithm to the code points did assign the derived property value PVALID and that value is unchanged even if the underlying Unicode properties have changed.
- The U+111C9 SHARADA SANDHI MARK was added to Unicode 8.0.0 [Unicode-8.0.0]. Applying the IDNA2008 algorithm to the code point did assign the derived property value DISALLOWED. The changes in the underlying properties in the Unicode Standard Version 11.0.0 [Unicode-11.0.0] make the derived property value change to PVALID which is an acceptable change.
- The characters U+11A07 ZANABAZAR SQUARE VOWEL SIGN AI and U+11A08 ZANABZAR SQUARE VOWEL SIGN AU were added to Unicode 10.0.0 [Unicode-10.0.0]. Applying the IDNA2008 algorithm to the code
points did assign the derived property value PVALID and that value is unchanged even if the underlying Unicode properties have changed.

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

5. Conclusion

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

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

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

6. IANA Considerations

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

7. Security Considerations

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

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

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

9. References

9.1. Normative References


9.2. Non-normative references

[Changes-11.0.0]

[I-D.freytag-troublesome-characters]

[I-D.klensin-idna-rfc5891bis]

[RFC3490]

[RFC5894]

[RFC5895]

[RFC6912]


## Changes from Unicode 6.3.0 to Unicode 7.0.0

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

<table>
<thead>
<tr>
<th>Code Points</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
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<td>Unicode Range</td>
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<td>114D0..114D9</td>
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<td>PVALID</td>
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<td># BASSA VAH COMBINING HIGH TONE..BASSA VAH FUL</td>
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<td># PAHAWH HMONG DIGIT ZERO..PAHAWHMONG DIGIT</td>
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<td>16B5B..16B61</td>
<td>DISALLOWED</td>
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<td># PAHAWHMONG SIGN VOS LUB..PAHAWHMONG SIGN</td>
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<td># PAHAWHMONG CLAN SIGN TSHEEJ..PAHAWHMONG</td>
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<td>1BC00..1BC6A</td>
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<td># DUPLOYAN LETTER H..DUPLOYAN LETTER VOCALIC M</td>
</tr>
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<td>1BC70..1BC7C</td>
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<td># DUPLOYAN AFFIX LEFT HORIZONTAL SECANT..DUPLO</td>
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<td>1BC80..1BC88</td>
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<td># DUPLOYAN AFFIX HIGH ACUTE..DUPLOYAN AFFIX HI</td>
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<td>1BC9C..1BCA3</td>
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<td>DISALLOWED</td>
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<td>DISALLOWED</td>
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</tr>
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<td>1F3D4..1F3DF</td>
<td>DISALLOWED</td>
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</tr>
<tr>
<td>1F3F1..1F3F7</td>
<td>DISALLOWED</td>
<td># WHITE PENNANT..LABEL</td>
</tr>
<tr>
<td>1F43F</td>
<td>DISALLOWED</td>
<td># CHIPMUNK</td>
</tr>
<tr>
<td>1F441</td>
<td>DISALLOWED</td>
<td># EYE</td>
</tr>
<tr>
<td>1F4F8</td>
<td>DISALLOWED</td>
<td># CAMERA WITH FLASH</td>
</tr>
<tr>
<td>1F4FD..1F4FE</td>
<td>DISALLOWED</td>
<td># FILM PROJECTOR..PORTABLE STEREO</td>
</tr>
<tr>
<td>1F53E..1F53F</td>
<td>DISALLOWED</td>
<td># LOWER RIGHT SHADOWED WHITE CIRCLE..UPPER RIG</td>
</tr>
<tr>
<td>1F544..1F54A</td>
<td>DISALLOWED</td>
<td># NOTCHED RIGHT SEMICIRCLE WITH THREE DOTS..DO</td>
</tr>
<tr>
<td>1F568..1F579</td>
<td>DISALLOWED</td>
<td># RIGHT SPEAKER..JOYSTICK</td>
</tr>
<tr>
<td>1F57B..1F5A3</td>
<td>DISALLOWED</td>
<td># LEFT HAND TELEPHONE RECEIVER..BLACK DOWN POI</td>
</tr>
<tr>
<td>1F5A5..1F5FA</td>
<td>DISALLOWED</td>
<td># DESKTOP COMPUTER..WORLD MAP</td>
</tr>
</tbody>
</table>
Appendix B. Changes from Unicode 7.0.0 to Unicode 8.0.0

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

08B3..08B4; PVALID # ARABIC LETTER AIN WITH THREE DOTS BELOW..ARABIC LETTER AIN WITH THREE DOTS BELOW
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 LETTER YE
20BE; DISALLOWED # LARI SIGN
218A..218B; DISALLOWED # TURNED DIGIT TWO..TURNED DIGIT THREE
9FCD..9FD5; PVALID # <CJK Ideograph>..<CJK Ideograph>
A69E; PVALID # COMBINING CYRILLIC LETTER EF
A7BF; PVALID # LATIN LETTER SINOGICAL DOT
A7B2.A7B7; DISALLOWED # LATIN CAPITAL LETTER J WITH CROSSED-TAIL..LATIN CAPITAL LETTER J WITH CROSSED-TAIL
A8FC.A8FD; DISALLOWED # DEVANAGARI SIGN SIDDHAM..DEVANAGARI SIGN SIDDHAM
AB60..AB63; PVALID # LATIN SMALL LETTER SAKHA YAT..LATIN SMALL LETTER SAKHA YAT
AB70..ABBF; DISALLOWED # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETTER A
FE2E..FE2F; PVALID # COMBINING CYRILLIC TITLO LEFT HALF..COMBINING CYRILLIC TITLO LEFT HALF
108E0..108F2; PVALID # HATRAN LETTER ALEPH..HATRAN LETTER ALEPH
108F4..108F5; PVALID # HATRAN LETTER SHIN..HATRAN LETTER SHIN
108FB..108FF; DISALLOWED # HATRAN NUMBER ONE..HATRAN NUMBER ONE
109BC..109BD; DISALLOWED # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS
109C0..109CF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIVE NUMBER ONE
109D2..109FF; DISALLOWED # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITIC CURSIVE NUMBER ONE HUNDRED
10CC0..10CF2; PVALID # OLD HUNGARIAN CAPITAL LETTER A..OLD HUNGARIAN CAPITAL LETTER A
10CFA..10CFF; DISALLOWED # OLD HUNGARIAN NUMBER ONE..OLD HUNGARIAN NUMBER ONE
111C9..111CC; DISALLOWED # SHARADA SANDHI MARK..SHARADA SANDHI MARK
111DB..111DF; DISALLOWED # SHARADA SIGN SIDDHAM..SHARADA SIGN SIDDHAM
11280..11286; PVALID # MULTANI LETTER A..MULTANI LETTER A
11288; PVALID # MULTANI LETTER GHA
1128A..1128D; PVALID # MULTANI LETTER CA..MULTANI LETTER CA
Appendix C. Changes from Unicode 8.0.0 to Unicode 9.0.0

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

Changes from derived property value UNASSIGNED to either PVALID or DISALLOWED.
### Appendix D. Changes from Unicode 9.0.0 to Unicode 10.0.0

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

Changes from derived property value DISALLOWED to PVALID.

111C9; PVALID # SHARADA SANDHI MARK

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

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

0000..002C; DISALLOWED # \x0000..\x002C
002D; PVALID # \x002D
002E..002F; DISALLOWED # \x002E..\x002F
0030..0039; PVALID # \x0030..\x0039
003A..0060; DISALLOWED # \x003A..\x0060
0061..007A; PVALID # \x0061..\x007A
007B..00B6; DISALLOWED # \x007B..\x00B6
00B7; CONTEXTO # \x00B7
00B8..00DE; DISALLOWED # \x00B8..\x00DE
00EF..00F6; PVALID # \x00EF..\x00F6
00F7; DISALLOWED # \x00F7
00F8..00FF; PVALID # \x00F8..\x00FF
0100; DISALLOWED # \x0100
0101; PVALID # \x0101
0102; DISALLOWED # \x0102
0103; PVALID # \x0103
0104; DISALLOWED # \x0104
0105; PVALID # \x0105
0106; DISALLOWED # \x0106
0107; PVALID # \x0107
0108; DISALLOWED # \x0108
0109; PVALID # \x0109
010A; DISALLOWED # \x010A
010B; PVALID # \x010B
010C; DISALLOWED # \x010C
010D; PVALID # \x010D
010E; DISALLOWED # \x010E
010F; PVALID # \x010F
0110; DISALLOWED # \x0110
0111; PVALID # \x0111
0112; DISALLOWED # \x0112
0113; PVALID # \x0113
0114; DISALLOWED # \x0114
0115; PVALID # \x0115
0116; DISALLOWED # LATIN CAPITAL LETTER E WITH DOT ABOVE
0117; PVALID  # LATIN SMALL LETTER E WITH DOT ABOVE
0118; DISALLOWED # LATIN CAPITAL LETTER E WITH OGONEK
0119; PVALID  # LATIN SMALL LETTER E WITH OGONEK
011A; DISALLOWED # LATIN CAPITAL LETTER E WITH CARON
011B; PVALID  # LATIN SMALL LETTER E WITH CARON
011C; DISALLOWED # LATIN CAPITAL LETTER G WITH CIRCUMFLEX
011D; PVALID  # LATIN SMALL LETTER G WITH CIRCUMFLEX
011E; DISALLOWED # LATIN CAPITAL LETTER G WITH BREVE
011F; PVALID  # LATIN SMALL LETTER G WITH BREVE
0120; DISALLOWED # LATIN CAPITAL LETTER G WITH DOT ABOVE
0121; PVALID  # LATIN SMALL LETTER G WITH DOT ABOVE
0122; DISALLOWED # LATIN CAPITAL LETTER G WITH CEDILLA
0123; PVALID  # LATIN SMALL LETTER G WITH CEDILLA
0124; DISALLOWED # LATIN CAPITAL LETTER H WITH CIRCUMFLEX
0125; PVALID  # LATIN SMALL LETTER H WITH CIRCUMFLEX
0126; DISALLOWED # LATIN CAPITAL LETTER H WITH STROKE
0127; PVALID  # LATIN SMALL LETTER H WITH STROKE
0128; DISALLOWED # LATIN CAPITAL LETTER I WITH TILDE
0129; PVALID  # LATIN SMALL LETTER I WITH TILDE
012A; DISALLOWED # LATIN CAPITAL LETTER I WITH MACRON
012B; PVALID  # LATIN SMALL LETTER I WITH MACRON
012C; DISALLOWED # LATIN CAPITAL LETTER I WITH BREVE
012D; PVALID  # LATIN SMALL LETTER I WITH BREVE
012E; DISALLOWED # LATIN CAPITAL LETTER I WITH OGONEK
012F; PVALID  # LATIN SMALL LETTER I WITH OGONEK
0130; DISALLOWED # LATIN CAPITAL LETTER I WITH DOT ABOVE
0131; PVALID  # LATIN SMALL LETTER DOTLESS I
0132..0134; DISALLOWED # LATIN CAPITAL LIGATURE IJ..LATIN CAPITAL LET
0135; PVALID  # LATIN SMALL LETTER J WITH CIRCUMFLEX
0136; DISALLOWED # LATIN CAPITAL LETTER K WITH CEDILLA
0137..0138; PVALID  # LATIN SMALL LETTER K WITH CEDILLA..LATIN SMA
0139; DISALLOWED # LATIN CAPITAL LETTER L WITH ACUTE
013A; PVALID  # LATIN SMALL LETTER L WITH ACUTE
013B; DISALLOWED # LATIN CAPITAL LETTER L WITH CEDILLA
013C; PVALID  # LATIN SMALL LETTER L WITH CEDILLA
013D; DISALLOWED # LATIN CAPITAL LETTER L WITH CARON
013E; PVALID  # LATIN SMALL LETTER L WITH CARON
013F..0141; DISALLOWED # LATIN CAPITAL LETTER L WITH MIDDLE DOT..LATI
0142; PVALID  # LATIN SMALL LETTER L WITH STROKE
0143; DISALLOWED # LATIN CAPITAL LETTER N WITH ACUTE
0144; PVALID  # LATIN SMALL LETTER N WITH ACUTE
0145; DISALLOWED # LATIN CAPITAL LETTER N WITH CEDILLA
0146; PVALID  # LATIN SMALL LETTER N WITH CEDILLA
0147; DISALLOWED # LATIN CAPITAL LETTER N WITH CARON
0148; PVALID  # LATIN SMALL LETTER N WITH CARON
0149..014A; DISALLOWED # LATIN SMALL LETTER N PRECEDED BY APOSTROPHE.
014B; PVALID  # LATIN SMALL LETTER ENG
<table>
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<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>LATIN CAPITAL LETTER O WITH MACRON</td>
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<td>PVALID</td>
<td>LATIN SMALL LETTER O WITH MACRON</td>
</tr>
<tr>
<td>014E</td>
<td>DISALLOWED</td>
<td>LATIN CAPITAL LETTER O WITH BREVE</td>
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<tr>
<td>014F</td>
<td>PVALID</td>
<td>LATIN SMALL LETTER O WITH BREVE</td>
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<td>LATIN CAPITAL LETTER O WITH DOUBLE ACUTE</td>
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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 CAPI
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 CAPIT
0192        ; PVALID      # LATIN SMALL LETTER F WITH HOOK
0193..0194  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH HOOK..LATIN CAPI
0195        ; PVALID      # LATIN SMALL LETTER HV
0196..0198  ; DISALLOWED  # LATIN CAPITAL LETTER IOTA..LATIN CAPITAL LET
0199..019D  ; PVALID      # LATIN SMALL LETTER K WITH HOOK..LATIN SMALL
019E..01A0  ; DISALLOWED  # LATIN CAPITAL LETTER OPEN O..LATIN CAPITAL L
01A1..01A2  ; PVALID      # LATIN SMALL LETTER O WITH HORN
01A3..01A4  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH HORN
01A5        ; PVALID      # LATIN SMALL LETTER E WITH HORN
01A6..01A7  ; DISALLOWED  # LATIN LETTER YR..LATIN CAPITAL LETTER TONE T
01A8        ; PVALID      # LATIN SMALL LETTER TONE TWO
01A9..01AA  ; DISALLOWED  # LATIN CAPITAL LETTER 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..01B3  ; PVALID      # LATIN SMALL LETTER U WITH HORN
01B4..01B7  ; DISALLOWED  # LATIN CAPITAL LETTER UPSILON..LATIN CAPITAL
01B5        ; PVALID      # LATIN SMALL LETTER Y WITH HOOK
01B6        ; PVALID      # LATIN SMALL LETTER Z WITH STROKE
01B7..01B9  ; DISALLOWED  # LATIN CAPITAL LETTER EZH..LATIN CAPITAL LETT
01B9..01BB  ; PVALID      # LATIN SMALL LETTER EZH REVERSED..LATIN LETTE
01BC..01BD  ; DISALLOWED  # LATIN CAPITAL LETTER TONE FIVE
01CE..01DF  ; DISALLOWED  # LATIN CAPITAL LETTER DZ WITH CARON..LATIN CA
01F9..01F9  ; PVALID      # LATIN SMALL LETTER A WITH CARON
01FC..01FD  ; DISALLOWED  # LATIN CAPITAL LETTER I WITH CARON
01E0..01E0  ; PVALID      # LATIN SMALL LETTER I WITH CARON
01E1..01E2  ; DISALLOWED  # LATIN CAPITAL LETTER O WITH CARON
01E3..01E3  ; 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
01E9        ; PVALID      # LATIN SMALL LETTER K WITH CARON
01EA        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK
01EB        ; PVALID      # LATIN SMALL LETTER O WITH OGONEK
01EC        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH OGONEK AND MACRO
01ED        ; PVALID      # LATIN SMALL LETTER O WITH OGONEK AND MACRON
01EE        ; DISALLOWED  # LATIN CAPITAL LETTER EZH WITH CARON
01EF..01F0  ; PVALID      # LATIN SMALL LETTER EZH WITH CARON..LATIN SMALL Lette
01F1..01F4  ; DISALLOWED  # LATIN CAPITAL LETTER DZ..LATIN CAPITAL LETTER
01F5        ; PVALID      # LATIN SMALL LETTER G WITH ACUTE
01F6..01F8  ; DISALLOWED  # LATIN CAPITAL LETTER HWAIR..LATIN CAPITAL LE
01F9        ; PVALID      # LATIN SMALL LETTER N WITH GRAVE
01FA        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH RING ABOVE AND A
01FB        ; PVALID      # LATIN SMALL LETTER A WITH RING ABOVE AND ACU
01FC        ; DISALLOWED  # LATIN CAPITAL LETTER AE WITH ACUTE
01FD        ; PVALID      # LATIN SMALL LETTER AE WITH ACUTE
01FE        ; DISALLOWED  # LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
01FF        ; PVALID      # LATIN SMALL LETTER O WITH STROKE AND ACUTE
0200        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
0201        ; PVALID      # LATIN SMALL LETTER A WITH DOUBLE GRAVE
0202        ; DISALLOWED  # LATIN CAPITAL LETTER A WITH INVERTED BREVE
0203        ; PVALID      # LATIN SMALL LETTER A WITH INVERTED BREVE
0204        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOUBLE GRAVE
0205        ; PVALID      # LATIN SMALL LETTER E WITH DOUBLE GRAVE
0206        ; DISALLOWED  # LATIN CAPITAL LETTER E WITH INVERTED BREVE
0207        ; PVALID      # LATIN SMALL LETTER E WITH INVERTED BREVE
0208        ; DISALLOWED  # LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
0209        ; PVALID      # LATIN SMALL LETTER I WITH DOUBLE GRAVE
020A  ; DISALLOWED # LATIN CAPITAL LETTER I WITH INVERTED BREVE
020B  ; PVALID    # LATIN SMALL LETTER I WITH INVERTED BREVE
020C  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
020D  ; PVALID    # LATIN SMALL LETTER O WITH DOUBLE GRAVE
020E  ; DISALLOWED # LATIN CAPITAL LETTER O WITH INVERTED BREVE
020F  ; PVALID    # LATIN SMALL LETTER O WITH INVERTED BREVE
0210  ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOUBLE GRAVE
0211  ; PVALID    # LATIN SMALL LETTER R WITH DOUBLE GRAVE
0212  ; DISALLOWED # LATIN CAPITAL LETTER R WITH INVERTED BREVE
0213  ; PVALID    # LATIN SMALL LETTER R WITH INVERTED BREVE
0214  ; DISALLOWED # LATIN CAPITAL LETTER U WITH DOUBLE GRAVE
0215  ; PVALID    # LATIN SMALL LETTER U WITH DOUBLE GRAVE
0216  ; DISALLOWED # LATIN CAPITAL LETTER U WITH INVERTED BREVE
0217  ; PVALID    # LATIN SMALL LETTER U WITH INVERTED BREVE
0218  ; DISALLOWED # LATIN CAPITAL LETTER S WITH COMMA BELOW
0219  ; PVALID    # LATIN SMALL LETTER S WITH COMMA BELOW
021A  ; DISALLOWED # LATIN CAPITAL LETTER T WITH COMMA BELOW
021B  ; PVALID    # LATIN SMALL LETTER T WITH COMMA BELOW
021C  ; DISALLOWED # LATIN CAPITAL LETTER YOGH
021D  ; PVALID    # LATIN SMALL LETTER YOGH
021E  ; DISALLOWED # LATIN CAPITAL LETTER H WITH CARON
021F  ; PVALID    # LATIN SMALL LETTER H WITH CARON
0220  ; DISALLOWED # LATIN CAPITAL LETTER N WITH LONG RIGHT LEG
0221  ; PVALID    # LATIN SMALL LETTER D WITH CURL
0222  ; DISALLOWED # LATIN CAPITAL LETTER OU
0223  ; PVALID    # LATIN SMALL LETTER OU
0224  ; DISALLOWED # LATIN CAPITAL LETTER Z WITH HOOK
0225  ; PVALID    # LATIN SMALL LETTER Z WITH HOOK
0226  ; DISALLOWED # LATIN CAPITAL LETTER A WITH DOT ABOVE
0227  ; PVALID    # LATIN SMALL LETTER A WITH DOT ABOVE
0228  ; DISALLOWED # LATIN CAPITAL LETTER E WITH CEDILLA
0229  ; PVALID    # LATIN SMALL LETTER E WITH CEDILLA
022A  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DIAERESIS AND MA
022B  ; PVALID    # LATIN SMALL LETTER O WITH DIAERESIS AND MACR
022C  ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE AND MACR
022D  ; PVALID    # LATIN SMALL LETTER O WITH TILDE AND MACR
022E  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOT ABOVE
022F  ; PVALID    # LATIN SMALL LETTER O WITH DOT ABOVE
0230  ; DISALLOWED # LATIN CAPITAL LETTER O WITH DOT ABOVE AND MA
0231  ; PVALID    # LATIN SMALL LETTER O WITH DOT ABOVE AND MACR
0232  ; DISALLOWED # LATIN CAPITAL LETTER Y WITH MACRON
0233  ; PVALID    # LATIN SMALL LETTER Y WITH MACRON..LATIN SMAL
023A  ; DISALLOWED # LATIN CAPITAL LETTER A WITH STROKE..LATIN CA
023C  ; PVALID    # LATIN SMALL LETTER C WITH STROKE
023D  ; DISALLOWED # LATIN CAPITAL LETTER L WITH BAR..LATIN CAPIT
023F  ; PVALID    # LATIN SMALL LETTER S WITH SWASH TAIL..LATIN
0241  ; DISALLOWED # LATIN CAPITAL LETTER GLOTTAL STOP
0242  ; PVALID    # LATIN SMALL LETTER GLOTTAL STOP
0243..0246  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH STROKE..LATIN CA
0247  ; PVALID  # LATIN SMALL LETTER E WITH STROKE
0248  ; DISALLOWED  # LATIN CAPITAL LETTER J WITH STROKE
0249  ; PVALID  # LATIN SMALL LETTER J WITH STROKE
024A  ; DISALLOWED  # LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
024B  ; PVALID  # LATIN SMALL LETTER Q WITH HOOK TAIL
024C  ; DISALLOWED  # LATIN CAPITAL LETTER R WITH STROKE
024D  ; PVALID  # LATIN SMALL LETTER R WITH STROKE
024E  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH STROKE
024F..02AF  ; PVALID  # LATIN SMALL LETTER Y WITH STROKE..LATIN SMAL
02B0..02B8  ; DISALLOWED  # MODIFIER LETTER SMALL H..MODIFIER LETTER SMA
02B9..02C1  ; PVALID  # MODIFIER LETTER PRIME..MODIFIER LETTER REVER
02C2..02C5  ; DISALLOWED  # MODIFIER LETTER LEFT ARROWHEAD..MODIFIER LET
02C6..02D1  ; PVALID  # MODIFIER LETTER CIRCUMFLEX ACCENT..MODIFIER
02D2..02EB  ; DISALLOWED  # MODIFIER LETTER CENTRED RIGHT HALF RING..MOD
02EC  ; PVALID  # MODIFIER LETTER VOICING
02ED  ; DISALLOWED  # MODIFIER LETTER UNASPIRATED
02EE  ; PVALID  # MODIFIER LETTER DOUBLE APOSTROPHE
02EF..02FF  ; DISALLOWED  # MODIFIER LETTER LOW DOWN ARROWHEAD..MODIFIER
0300..033F  ; PVALID  # COMBINING GRAVE ACCENT..COMBINING DOUBLE OVE
0340..0341  ; DISALLOWED  # COMBINING GRAVE TONE MARK..COMBINING ACUTE T
0342  ; PVALID  # COMBINING GREEK PERISPOMENI
0343..0345  ; DISALLOWED  # COMBINING GREEK KORONIS..COMBINING GREEK YPO
0346..034E  ; PVALID  # COMBINING BRIDGE ABOVE..COMBINING UPWARDS AR
034F  ; DISALLOWED  # COMBINING GRAPHEME JOINER
0350..036F  ; PVALID  # COMBINING RIGHT ARROWHEAD ABOVE..COMBINING L
0370  ; DISALLOWED  # GREEK CAPITAL LETTER HETA
0371  ; PVALID  # GREEK SMALL LETTER HETA
0372  ; DISALLOWED  # GREEK CAPITAL LETTER ARCHAIC SAMPI
0373  ; PVALID  # GREEK SMALL LETTER ARCHAIC SAMPI
0374  ; DISALLOWED  # GREEK NUMERAL SIGN
0375  ; CONTEXTO  # GREEK LOWER NUMERAL SIGN
0376  ; DISALLOWED  # GREEK CAPITAL LETTER PAMPHYLIAN DIGAMMA
0377  ; PVALID  # GREEK SMALL LETTER PAMPHYLIAN DIGAMMA
0378..0379  ; UNASSIGNED  # <reserved>..<reserved>
037A  ; DISALLOWED  # GREEK YPOGEGRAMMENI
037B..037D  ; PVALID  # GREEK SMALL REVERSED LUNATE SIGMA SYMBOL..GR
037E..037F  ; DISALLOWED  # GREEK QUESTION MARK..GREEK CAPITAL LETTER YO
0380..0383  ; UNASSIGNED  # <reserved>..<reserved>
0384..038A  ; DISALLOWED  # GREEK TONOS..GREEK CAPITAL LETTER IOTA WITH
038B  ; UNASSIGNED  # <reserved>
038C  ; DISALLOWED  # GREEK CAPITAL LETTER OOMICRON WITH TONOS
038D  ; UNASSIGNED  # <reserved>
038E..038F  ; DISALLOWED  # GREEK CAPITAL LETTER UPSILON WITH TONOS..GRE
0390  ; PVALID  # GREEK SMALL LETTER IOTA WITH DIALYTIKA AND T
0391..03A1  ; DISALLOWED  # GREEK CAPITAL LETTER ALPHA..GREEK CAPITAL LE
03A2  ; UNASSIGNED  # <reserved>
03A3..03AB  ; DISALLOWED  # GREEK CAPITAL LETTER SIGMA..GREEK CAPITAL LE
03AC..03CE  ; PVALID      # GREEK SMALL LETTER ALPHA WITH TONOS..GREEK SMALL LETTER OMEGA
03CF..03D6  ; DISALLOWED  # GREEK CAPITAL KAI SYMBOL..GREEK PI SYMBOL
03D7        ; PVALID      # GREEK KAI SYMBOL
03D8        ; DISALLOWED  # GREEK LETTER ARCHAIC KOPPA
03D9        ; PVALID      # GREEK SMALL LETTER ARCHAIC KOPPA
03DA        ; DISALLOWED  # GREEK LETTER STIGMA
03DB        ; PVALID      # GREEK SMALL LETTER STIGMA
03DC        ; DISALLOWED  # GREEK LETTER DIGAMMA
03DD        ; PVALID      # GREEK SMALL LETTER DIGAMMA
03DE        ; DISALLOWED  # GREEK LETTER KOPPA
03DF        ; PVALID      # GREEK SMALL LETTER KOPPA
03E0        ; DISALLOWED  # GREEK LETTER SAMPI
03E1        ; PVALID      # GREEK SMALL LETTER SAMPI
03E2        ; DISALLOWED  # COPTIC CAPITAL LETTER SHEI
03E3        ; PVALID      # COPTIC SMALL LETTER SHEI
03E4        ; DISALLOWED  # COPTIC CAPITAL LETTER FEI
03E5        ; PVALID      # COPTIC SMALL LETTER FEI
03E6        ; DISALLOWED  # COPTIC CAPITAL LETTER KHEI
03E7        ; PVALID      # COPTIC SMALL LETTER KHEI
03E8        ; DISALLOWED  # COPTIC CAPITAL LETTER HORIZON
03E9        ; PVALID      # COPTIC SMALL LETTER HORIZON
03EA        ; DISALLOWED  # COPTIC CAPITAL LETTER GANGIA
03EB        ; PVALID      # COPTIC SMALL LETTER GANGIA
03EC        ; DISALLOWED  # COPTIC CAPITAL LETTER SHIMA
03ED        ; PVALID      # COPTIC SMALL LETTER SHIMA
03EE        ; DISALLOWED  # COPTIC CAPITAL LETTER DEI
03EF        ; PVALID      # COPTIC SMALL LETTER DEI
03F0..03F2  ; DISALLOWED  # GREEK KAPPA SYMBOL..GREEK LUNATE SIGMA SYMBOL
03F3        ; PVALID      # GREEK LETTER YOT
03F4..03F7  ; DISALLOWED  # GREEK CAPITAL THETA SYMBOL..GREEK CAPITAL LITTLE YUS
03F8        ; PVALID      # GREEK SMALL LETTER SHO
03F9..03FA  ; DISALLOWED  # GREEK CAPITAL LUNATE SIGMA SYMBOL..GREEK CAPITAL LITTLE YUS
03FB..03FC  ; PVALID      # GREEK SMALL LETTER SAN..GREEK RHO WITH STROK
03FD..042F  ; DISALLOWED  # GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL..GREEK CAPITAL LITTLE YUS
0430..045F  ; PVALID      # CYRILLIC SMALL LETTER A..CYRILLIC SMALL LETTER OMEGA
0460        ; DISALLOWED  # CYRILLIC CAPITAL LETTER OMEGA
0461        ; PVALID      # CYRILLIC SMALL LETTER OMEGA
0462        ; DISALLOWED  # CYRILLIC CAPITAL LETTER YAT
0463        ; PVALID      # CYRILLIC SMALL LETTER YAT
0464        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED E
0465        ; PVALID      # CYRILLIC SMALL LETTER IOTIFIED E
0466        ; DISALLOWED  # CYRILLIC CAPITAL LETTER LITTLE YUS
0467        ; PVALID      # CYRILLIC SMALL LETTER LITTLE YUS
0468        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
0469        ; PVALID      # CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
046A        ; DISALLOWED  # CYRILLIC CAPITAL LETTER BIG YUS
046B        ; PVALID      # CYRILLIC SMALL LETTER BIG YUS
046C        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
046D        ; PVALID      # CYRILLIC SMALL LETTER IOTIFIED BIG YUS
046E        ; DISALLOWED # CYRILLIC CAPITAL LETTER KSI
046F        ; PVALID      # CYRILLIC SMALL LETTER KSI
0470        ; DISALLOWED # CYRILLIC CAPITAL LETTER PSI
0471        ; PVALID      # CYRILLIC SMALL LETTER PSI
0472        ; DISALLOWED # CYRILLIC CAPITAL LETTER FITA
0473        ; PVALID      # CYRILLIC SMALL LETTER FITA
0474        ; DISALLOWED # CYRILLIC CAPITAL LETTER IZHITSA
0475        ; PVALID      # CYRILLIC SMALL LETTER IZHITSA
0476        ; DISALLOWED # CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE
0477        ; PVALID      # CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GR
0478        ; DISALLOWED # CYRILLIC CAPITAL LETTER UK
0479        ; PVALID      # CYRILLIC SMALL LETTER UK
047A        ; DISALLOWED # CYRILLIC CAPITAL LETTER ROUND OMEGA
047B        ; PVALID      # CYRILLIC SMALL LETTER ROUND OMEGA
047C        ; DISALLOWED # CYRILLIC CAPITAL LETTER OMEGA WITH TITLO
047D        ; PVALID      # CYRILLIC SMALL LETTER OMEGA WITH TITLO
047E        ; DISALLOWED # CYRILLIC CAPITAL LETTER OT
047F        ; PVALID      # CYRILLIC SMALL LETTER OT
0480        ; DISALLOWED # CYRILLIC CAPITAL LETTER KOPPA
0481        ; PVALID      # CYRILLIC SMALL LETTER KOPPA
0482        ; DISALLOWED # CYRILLIC THOUSANDS SIGN
0483..0487  ; PVALID      # COMBINING CYRILLIC TITLO..COMBINING CYRILLIC
0488..048A  ; DISALLOWED # COMBINING CYRILLIC HUNDRED THOUSANDS SIGN..C
048B        ; PVALID      # CYRILLIC SMALL LETTER SHORT I WITH TAIL
048C        ; DISALLOWED # CYRILLIC CAPITAL LETTER SEMISOFT SIGN
048D        ; PVALID      # CYRILLIC SMALL LETTER SEMISOFT SIGN
048E        ; DISALLOWED # CYRILLIC CAPITAL LETTER ER WITH TICK
048F        ; PVALID      # CYRILLIC SMALL LETTER ER WITH TICK
0490        ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH UPTURN
0491        ; PVALID      # CYRILLIC SMALL LETTER GHE WITH UPTURN
0492        ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH STROKE
0493        ; PVALID      # CYRILLIC SMALL LETTER GHE WITH STROKE
0494        ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
0495        ; PVALID      # CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
0496        ; DISALLOWED # CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
0497        ; PVALID      # CYRILLIC SMALL LETTER ZHE WITH DESCENDER
0498        ; DISALLOWED # CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
0499        ; PVALID      # CYRILLIC SMALL LETTER ZE WITH DESCENDER
049A        ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH DESCENDER
049B        ; PVALID      # CYRILLIC SMALL LETTER KA WITH DESCENDER
049C        ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH VERTICAL STR
049D        ; PVALID      # CYRILLIC SMALL LETTER KA WITH VERTICAL STROK
049E        ; DISALLOWED # CYRILLIC CAPITAL LETTER KA WITH STROKE
049F        ; PVALID      # CYRILLIC SMALL LETTER KA WITH STROKE
04A0        ; DISALLOWED # CYRILLIC CAPITAL LETTER BASHKIR KA
04A1        ; PVALID      # CYRILLIC SMALL LETTER BASHKIR KA
04A2        ; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH DESCENDER
04A3  ; PVALID  # CYRILLIC SMALL LETTER EN WITH DESCENDER
04A4  ; DISALLOWED  # CYRILLIC CAPITAL LIGATURE EN GHE
04A5  ; PVALID  # CYRILLIC SMALL LIGATURE EN GHE
04A6  ; DISALLOWED  # CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
04A7  ; PVALID  # CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
04A8  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ABKHASIAN HA
04A9  ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN HA
04AA  ; DISALLOWED  # CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB  ; PVALID  # CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC  ; DISALLOWED  # CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD  ; PVALID  # CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE  ; DISALLOWED  # CYRILLIC CAPITAL LETTER STRAIGHT U
04AF  ; PVALID  # CYRILLIC SMALL LETTER STRAIGHT U
04B0  ; DISALLOWED  # CYRILLIC CAPITAL LETTER STRAIGHT U WITH 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 D
04BF  ; PVALID  # CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER
04C0..04C1  ; DISALLOWED  # CYRILLIC LETTER PALOCHKA..CYRILLIC CAPITAL LETTER PALOCHKA
04C2  ; PVALID  # CYRILLIC SMALL LETTER ZHE WITH BREVE
04C3  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4  ; PVALID  # CYRILLIC SMALL LETTER KA WITH HOOK
04C5  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EL WITH TAIL
04C6  ; PVALID  # CYRILLIC SMALL LETTER EL WITH TAIL
04C7  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH TAIL
04C8  ; PVALID  # CYRILLIC SMALL LETTER EN WITH TAIL
04C9  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EN WITH TAIL
04CA  ; PVALID  # CYRILLIC SMALL LETTER EN WITH TAIL
04CB  ; DISALLOWED  # CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC  ; PVALID  # CYRILLIC SMALL LETTER KHAKASSIAN CHE
04CD  ; DISALLOWED  # CYRILLIC CAPITAL LETTER EM WITH TAIL
04CE..04CF  ; PVALID  # CYRILLIC SMALL LETTER EM WITH TAIL..CYRILLIC CAPITAL LETTER EM WITH TAIL
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 ABKHAZIAN DZE
04E1 ; PVALID # CYRILLIC SMALL LETTER ABKHAZIAN DZE
04E2 ; DISALLOWED # CYRILLIC CAPITAL LETTER I WITH MACRON
04E3 ; PVALID # CYRILLIC SMALL LETTER I WITH MACRON
04E4 ; DISALLOWED # CYRILLIC CAPITAL LETTER I WITH DIAERESIS
04E5 ; PVALID # CYRILLIC SMALL LETTER I WITH DIAERESIS
04E6 ; DISALLOWED # CYRILLIC CAPITAL LETTER O WITH DIAERESIS
04E7 ; PVALID # CYRILLIC SMALL LETTER O WITH DIAERESIS
04E8 ; DISALLOWED # CYRILLIC CAPITAL LETTER BARRED O
04E9 ; PVALID # CYRILLIC SMALL LETTER BARRED O
04EA ; DISALLOWED # CYRILLIC CAPITAL LETTER BARRED O WITH DIAERE
04EB ; PVALID # CYRILLIC SMALL LETTER BARRED O WITH DIAERESI
04EC ; DISALLOWED # CYRILLIC CAPITAL LETTER E WITH DIAERESIS
04ED ; PVALID # CYRILLIC SMALL LETTER E WITH DIAERESIS
04EE ; DISALLOWED # CYRILLIC CAPITAL LETTER U WITH MACRON
04EF ; PVALID # CYRILLIC SMALL LETTER U WITH MACRON
04F0 ; DISALLOWED # CYRILLIC CAPITAL LETTER U WITH DIAERESIS
04F1 ; PVALID # CYRILLIC SMALL LETTER U WITH DIAERESIS
04F2 ; DISALLOWED # CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
04F3 ; PVALID # CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
04F4 ; DISALLOWED # CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS
04F5 ; PVALID # CYRILLIC SMALL LETTER CHE WITH DIAERESIS
04F6 ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
04F7 ; PVALID # CYRILLIC SMALL LETTER GHE WITH DESCENDER
04F8 ; DISALLOWED # CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS
04F9 ; PVALID # CYRILLIC SMALL LETTER YERU WITH DIAERESIS
04FA ; DISALLOWED # CYRILLIC CAPITAL LETTER GHE WITH STROKE AND
04FB ; PVALID # CYRILLIC SMALL LETTER GHE WITH STROKE AND HO
04FC ; DISALLOWED # CYRILLIC CAPITAL LETTER HA WITH HOOK
04FD ; PVALID # CYRILLIC SMALL LETTER HA WITH HOOK
04FE ; DISALLOWED # CYRILLIC CAPITAL LETTER HA WITH STROKE
04FF ; PVALID # CYRILLIC SMALL LETTER HA WITH STROKE
0500 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DE
0501 ; PVALID # CYRILLIC SMALL LETTER KOMI DE
0502 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DJE
0503 ; PVALID # CYRILLIC SMALL LETTER KOMI DJE
0504 ; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI ZJE
0505; PVALID   # CYRILLIC SMALL LETTER KOMI ZJE
0506; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI DZJE
0507; PVALID   # CYRILLIC SMALL LETTER KOMI DZJE
0508; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI LJE
0509; PVALID   # CYRILLIC SMALL LETTER KOMI LJE
050A; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI NJE
050B; PVALID   # CYRILLIC SMALL LETTER KOMI NJE
050C; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI SJE
050D; PVALID   # CYRILLIC SMALL LETTER KOMI SJE
050E; DISALLOWED # CYRILLIC CAPITAL LETTER KOMI TJE
050F; PVALID   # CYRILLIC SMALL LETTER KOMI TJE
0510; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED ZE
0511; PVALID   # CYRILLIC SMALL LETTER REVERSED ZE
0512; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH HOOK
0513; PVALID   # CYRILLIC SMALL LETTER EL WITH HOOK
0514; DISALLOWED # CYRILLIC CAPITAL LETTER LHA
0515; PVALID   # CYRILLIC SMALL LETTER LHA
0516; DISALLOWED # CYRILLIC CAPITAL LETTER RHA
0517; PVALID   # CYRILLIC SMALL LETTER RHA
0518; DISALLOWED # CYRILLIC CAPITAL LETTER YAE
0519; PVALID   # CYRILLIC SMALL LETTER YAE
051A; DISALLOWED # CYRILLIC CAPITAL LETTER QA
051B; PVALID   # CYRILLIC SMALL LETTER QA
051C; DISALLOWED # CYRILLIC CAPITAL LETTER WE
051D; PVALID   # CYRILLIC SMALL LETTER WE
051E; DISALLOWED # CYRILLIC CAPITAL LETTER ALEUT KA
051F; PVALID   # CYRILLIC SMALL LETTER ALEUT KA
0520; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH MIDDLE HOOK
0521; PVALID   # CYRILLIC SMALL LETTER EL WITH MIDDLE HOOK
0522; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH MIDDLE HOOK
0523; PVALID   # CYRILLIC SMALL LETTER EN WITH MIDDLE HOOK
0524; DISALLOWED # CYRILLIC CAPITAL LETTER PE WITH DESCENDER
0525; PVALID   # CYRILLIC SMALL LETTER PE WITH DESCENDER
0526; DISALLOWED # CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER
0527; PVALID   # CYRILLIC SMALL LETTER SHHA WITH DESCENDER
0528; DISALLOWED # CYRILLIC CAPITAL LETTER EN WITH LEFT HOOK
0529; PVALID   # CYRILLIC SMALL LETTER EN WITH LEFT HOOK
052A; DISALLOWED # CYRILLIC CAPITAL LETTER D2ZHE
052B; PVALID   # CYRILLIC SMALL LETTER D2ZHE
052C; DISALLOWED # CYRILLIC CAPITAL LETTER DCHE
052D; PVALID   # CYRILLIC SMALL LETTER DCHE
052E; DISALLOWED # CYRILLIC CAPITAL LETTER EL WITH DESCENDER
052F; PVALID   # CYRILLIC SMALL LETTER EL WITH DESCENDER
0530; UNASSIGNED # <reserved>
0531..0556; DISALLOWED # ARMENIAN CAPITAL LETTER AYB..ARMENIAN CAPITAL
0557..0558; UNASSIGNED # <reserved>..<reserved>
0559; PVALID   # ARMENIAN MODIFIER LETTER LEFT HALF RING
055A..055F; DISALLOWED # ARMENIAN APOSTROPHE..ARMENIAN ABBREVIATION M
0560..0586; PVALID  # ARMENIAN SMALL LETTER TURNED AYB..ARMENIAN S
0587; DISALLOWED  # ARMENIAN SMALL LIGATURE ECH YIWN
0588; PVALID  # ARMENIAN SMALL LETTER YI WITH STROKE
0589..058A; DISALLOWED  # ARMENIAN FULL STOP..ARMENIAN HYPHEN
058B..058C; UNASSIGNED  # <reserved>..<reserved>
058D..058F; DISALLOWED  # RIGHT-FACING ARMENIAN ETERNITY SIGN..ARMENIA
0590; UNASSIGNED  # <reserved>
0591..05BD; PVALID  # HEBREW ACCENT ETNAHTA..HEBREW POINT METEG
05BE; DISALLOWED  # HEBREW PUNCTUATION MAQAF
05BF; PVALID  # HEBREW POINT RAFE
05C0; DISALLOWED  # HEBREW PUNCTUATION PASQ
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 PUNCTUATION
05F5..05FF; UNASSIGNED  # <reserved>..<reserved>
0600..060F; DISALLOWED  # ARABIC NUMBER SIGN..ARABIC SIGN MISRA
0610..061A; PVALID  # ARABIC SIGN SALLALLAHOU ALAYHE WASSALLAM..AR
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 HIG HAMZA ALEF..ARABIC LETTER
0679..06D3; PVALID  # ARABIC LETTER TTEH..ARABIC LETTER YEH BARREE
06D4; DISALLOWED  # ARABIC FULL STOP
06D5..06DC; PVALID  # ARABIC LETTER AE..ARABIC SMALL HIGH SEEN
06DD..06DE; DISALLOWED  # ARABIC END OF AYAH..ARABIC START OF RUB EL H
06DF..06E8; PVALID  # ARABIC SMALL HIGH Rounded ZERO..ARABIC SMALL
06E9; DISALLOWED  # ARABIC PLACE OF SAJDH
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 BARREH
074B..074C; UNASSIGNED  # <reserved>..<reserved>
074D..07B1 ; PVALID # SYRIAC LETTER SOGDIAZ IZKHA..THAANA LETTER N
07B2..07BF ; UNASSIGNED # <reserved>..<reserved>
07C0..07F5 ; PVALID # NKO DIGIT ZERO..NKO LOW TONE APOSTROPH
07F6..07FA ; DISALLOWED # NKO SYMBOL OI 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
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0830..083E ; DISALLOWED # SAMARITAN PUNCTUATION NEQUDA..SAMARITAN PUN
083F ; UNASSIGNED # <reserved>
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0860..086A ; PVALID # SYRIAC LETTER MALAYALAM NGA..SYRIAC LETTER M
086B..086F ; UNASSIGNED # <reserved>..<reserved>
0870..08B4 ; PVALID # ARABIC LETTER BEH WITH SMALL V BELOW..ARABIC
08B5 ; UNASSIGNED # <reserved>
08B6..08BD ; PVALID # ARABIC LETTER BEH WITH SMALL MEEM ABOVE..ARA
08BE..08DD ; UNASSIGNED # <reserved>..<reserved>
08DE..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
0970 ; DISALLOWED # DEVANAGARI ABBREVIATION SIGN
0971..0992 ; PVALID # DEVANAGARI SIGN HIGH SPACING DOT..BENGALI SI
0984 ; UNASSIGNED # <reserved>
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09C5..09CE ; UNASSIGNED # <reserved>..<reserved>
09C7..09C8 ; PVALID # BENGALI VOWEL SIGN E..BENGALI VOWEL SIGN AI
09CB..09CE ; PVALID # BENGALI VOWEL SIGN O..BENGALI LETTER KHANDA
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0AB5..0AB9  ; PVALID # GUJARATI LETTER VA..GUJARATI LETTER HA
0ABA..0ABB  ; UNASSIGNED # <reserved>..<reserved>
0ABC..0AC5  ; PVALID # GUJARATI SIGN NUKTA..GUJARATI VOWEL SIGN CAN
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0AC7..0AC9  ; PVALID # GUJARATI VOWEL SIGN E..GUJARATI VOWEL SIGN C
0ACA        ; UNASSIGNED # <reserved>
0ACB..0ACD  ; PVALID # GUJARATI VOWEL SIGN O..GUJARATI SIGN VIRAMA
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0B70  ; DISALLOWED  # ORIYA ISSHAR
0B71  ; PVALID  # ORIYA LETTER WA
0B72..0B77  ; DISALLOWED  # ORIYA FRACTION ONE QUARTER..ORIYA FRACTION T
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OD0D        ; UNASSIGNED # <reserved>
OD0E..OD10  ; PVALID   # MALAYALAM LETTER E..MALAYALAM LETTER AI
OD11        ; UNASSIGNED # <reserved>
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OD49        ; UNASSIGNED # <reserved>
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OD4F        ; DISALLOWED # MALAYALAM SIGN PARA
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OD58..OD5E  ; DISALLOWED # MALAYALAM FRACTION ONE ONE-HUNDRED-AND-SIXTI
OD5F..OD63  ; PVALID   # MALAYALAM LETTER ARCHAIIC II..MALAYALAM VOWEL
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OD70..OD79  ; DISALLOWED # MALAYALAM NUMBER TEN..MALAYALAM DATE MARK
OD7A..OD7F  ; PVALID   # MALAYALAM LETTER CHILLU NN..MALAYALAM LETTER
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<td>PVALID</td>
<td>LAO LETTER KHMU GO..LAO LETTER KHMU NYO</td>
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0EE0..0EFF  ; UNASSIGNED # <reserved>..<reserved>
0F00  ; PVALID # TIBETAN SYLLABLE OM
0F01..0F0A  ; DISALLOWED # TIBETAN MARK GTER YIG MGO TRUNCATED A..TIBET
0F0B  ; PVALID # TIBETAN MARK INTERSYLLABIC TSHEG
0F0C..0F17  ; DISALLOWED # TIBETAN MARK DELIMITER TSHEG BSTAR..TIBETAN
0F18..0F19  ; PVALID # TIBETAN ASTROLOGICAL SIGN -KHYUD PA..TIBETAN
0F1A..0F1F  ; DISALLOWED # TIBETAN SIGN RDEL DKAR GCIIG..TIBETAN SIGN RD
0F20..0F29  ; PVALID # TIBETAN DIGIT ZERO..TIBETAN DIGIT NINE
0F2A..0F33  ; DISALLOWED # TIBETAN DIGIT HALF ONE..TIBETAN MARK BSDUS R
0F34  ; 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 DZHA
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 SUBJOI
0FA2  ; DISALLOWED # TIBETAN SUBJOINED LETTER DHA
0FA3..0FA6  ; PVALID # TIBETAN SUBJOINED LETTER NA..TIBETAN SUBJOIN
0FA7        ; DISALLOWED  # TIBETAN SUBJOINED LETTER BHA
0FA8..0FAB  ; PVALID   # TIBETAN SUBJOINED LETTER MA..TIBETAN SUBJOIN
0FAC        ; DISALLOWED  # TIBETAN SUBJOINED LETTER DZHA
0FAD..0FB8  ; PVALID   # TIBETAN SUBJOINED LETTER WA..TIBETAN SUBJOIN
0FBB        ; DISALLOWED  # TIBETAN SUBJOINED LETTER KSSA
0FBA..0FBC  ; PVALID   # TIBETAN SUBJOINED LETTER FIXED-FORM WA..TIBETAN SUBJOIN
0FBD        ; UNASSIGNED  # <reserved>
0FBE..0FC5  ; DISALLOWED  # TIBETAN KU RU KHA..TIBETAN SYMBOL RDO RJE
0FC6        ; PVALID   # TIBETAN SYMBOL PADMA GDAN
0FC7..0FCC  ; DISALLOWED  # TIBETAN SYMBOL RDO RJE RGYA GRAM..TIBETAN SYMBOL RDO RJE
0FCD        ; UNASSIGNED  # <reserved>
0FCE..0FDA  ; DISALLOWED  # TIBETAN SIGN RDEL NAG RDEL DKAR..TIBETAN MAR
0FDB..0FFF  ; UNASSIGNED  # <reserved>..<reserved>
1000..1109  ; PVALID   # MYANMAR LETTER KA..MYANMAR DIGIT NINE
104A..104F  ; DISALLOWED  # MYANMAR SIGN LITTLE SECTION..MYANMAR SYMBOL
1050..105D  ; PVALID   # MYANMAR LETTER SHA..MYANMAR VOWEL SIGN AITON
109E..10CC  ; DISALLOWED  # MYANMAR SYMBOL SHAN ONE..GEORGIAN CAPITAL LETTER AEN
10CD        ; UNASSIGNED  # <reserved>
10CE..10CF  ; DISALLOWED  # GEORGIAN CAPITAL LETTER YN
10CD        ; DISALLOWED  # GEORGIAN CAPITAL LETTER AEN
10CE..10CF  ; UNASSIGNED  # <reserved>..<reserved>
10D0..10FA  ; PVALID   # GEORGIAN LETTER AN..GEORGIAN LETTER AIN
10FB..10FC  ; DISALLOWED  # HANGUL CHOSEONG KIYEOK..HANGUL JONGSEONG SSA
1200..1248  ; PVALID   # ETHIOPIC SYLLABLE HA..ETHIOPIC SYLLABLE QWA
1249        ; UNASSIGNED  # <reserved>
124A..124D  ; PVALID   # ETHIOPIC SYLLABLE QWI..ETHIOPIC SYLLABLE QWE
1250..1256  ; PVALID   # ETHIOPIC SYLLABLE QA..ETHIOPIC SYLLABLE QHO
1257        ; UNASSIGNED  # <reserved>
1258        ; PVALID   # ETHIOPIC SYLLABLE QHA
1259        ; UNASSIGNED  # <reserved>
125A..125D  ; PVALID   # ETHIOPIC SYLLABLE QHWI..ETHIOPIC SYLLABLE QHO
1260..1288  ; PVALID   # ETHIOPIC SYLLABLE BA..ETHIOPIC SYLLABLE XWA
1289        ; UNASSIGNED  # <reserved>
128A..128D  ; PVALID   # ETHIOPIC SYLLABLE KWI..ETHIOPIC SYLLABLE KWE
128E..128F  ; UNASSIGNED  # <reserved>..<reserved>
1290..12B0  ; PVALID   # ETHIOPIC SYLLABLE NA..ETHIOPIC SYLLABLE KWA
12B1        ; UNASSIGNED  # <reserved>
12B2..12B5  ; PVALID   # ETHIOPIC SYLLABLE KWI..ETHIOPIC SYLLABLE KWE
12B6..12B7  ; UNASSIGNED  # <reserved>..<reserved>
12BB..12BE  ; PVALID   # ETHIOPIC SYLLABLE KXA..ETHIOPIC SYLLABLE KKO
12BF        ; UNASSIGNED  # <reserved>
12C0        ; PVALID   # ETHIOPIC SYLLABLE KWA
12C1        ; UNASSIGNED  # <reserved>
12C2..12C5; PVALID  # ETHIOPIAN SYLLABLE KXWI..ETHIOPIAN SYLLABLE KX
12C6..12C7; UNASSIGNED # <reserved>..<reserved>
12C8..12D6; PVALID  # ETHIOPIAN SYLLABLE WA..ETHIOPIAN SYLLABLE PHAR
12D7; UNASSIGNED # <reserved>
12D8..1310; PVALID  # ETHIOPIAN SYLLABLE ZA..ETHIOPIAN SYLLABLE GWA
1311; UNASSIGNED # <reserved>
1312..1315; PVALID  # ETHIOPIAN SYLLABLE GWI..ETHIOPIAN SYLLABLE GWE
1316..1317; UNASSIGNED # <reserved>..<reserved>
1318..135A; PVALID  # ETHIOPIAN SYLLABLE GGA..ETHIOPIAN SYLLABLE FYA
135B..135C; UNASSIGNED # <reserved>..<reserved>
135D..135F; UNASSIGNED # <reserved>..<reserved>
1360..138F; PVALID  # ETHIOPIAN SYLLABLE SEBATBEIT MWA..ETHIOPIAN SYLLABLE SEBATBEIT MWI
1390..1399; DISALLOWED # ETHIOPIAN TONAL MARK YIZET..ETHIOPIAN TONAL MARK YIZET
139A..139F; UNASSIGNED # <reserved>..<reserved>
13A0..13F7; PVALID  # CHEROKEE LETTER A..CHEROKEE LETTER MV
13F8..13FF; DISALLOWED # CHEROKEE SMALL LETTER YE..CHEROKEE SMALL LETTER YE
1400; DISALLOWED # CANADIAN SYLLABIC HYPHEN
1401..166C; PVALID  # CANADIAN SYLLABIC E..CANADIAN SYLLABIC CAR
166D..166E; DISALLOWED # CANADIAN SYLLABIC CHI SIGN..CANADIAN SYLLABIC CHI
166F..167F; PVALID  # CANADIAN SYLLABIC QAI..CANADIAN SYLLABIC B
1680; DISALLOWED # OGHAM SPACE MARK
1681..1693; PVALID  # OGHAM LETTER BEITH..OGHAM LETTER PEITH
1694..1699; DISALLOWED # OGHAM FEATHER MARK..OGHAM REVERSED FEATHER M
169A..16F0; DISALLOWED # RUNIC SINGLE PUNCTUATION..RUNIC BELGTHOR SYM
16F1..16F8; PVALID  # RUNIC LETTER K..RUNIC LETTER FRANKS CASKET A
16F9..173F; DISALLOWED # PHILIPPINE SINGLE PUNCTUATION..PHILIPPINE DO
1700..173F; PVALID  # TAGALOG LETTER A..TAGALOG LETTER YA
1740..174F; UNASSIGNED # <reserved>
1750..175F; PVALID  # HANUNOO 147..HANUNOO SIGN PAMUDPOD
1760..177F; PVALID  # TAGBANWA LETTER A..TAGBANWA LETTER YA
1780..17B3; PVALID  # KHMER LETTER KA..KHMER INDEPENDENT VOWEL QAU
17B4..17B5  ; DISALLOWED # KHMER VOWEL INHERENT AQ..KHMER VOWEL INHERENT
17B6..17D3  ; PVALID  # KHMER VOWEL SIGN AA..KHMER SIGN BATHAMASAT
17D4..17D6  ; DISALLOWED # KHMER SIGN KHAN..KHMER SIGN CAMNUC PIU KUUH
17D7        ; PVALID  # KHMER SIGN LEK TOO
17D8..17DB  ; DISALLOWED # KHMER SIGN BEYyal..KHMER CURRENCY SYMBOL RIE
17DC..17DD  ; PVALID  # KHMER SIGN AVAKRAHASANYA..KHMER SIGN ATHACA
17DE..17E9  ; UNASSIGNED # <reserved>..<reserved>
17EE..17EF  ; UNASSIGNED # <reserved>..<reserved>
17F0..17F9  ; DISALLOWED # KHMER SYMBOL LEK ATTAK SON..KHMER SYMBOL LEK
17FA..17FF  ; UNASSIGNED # <reserved>..<reserved>
1800..180E  ; DISALLOWED # MONGOLIAN BIRGA..MONGOLIAN VOWEL SEPARATOR
180F        ; UNASSIGNED # <reserved>
1810..1819  ; PVALID  # MONGOLIAN DIGIT ZERO..MONGOLIAN DIGIT NINE
181A..181F  ; UNASSIGNED # <reserved>..<reserved>
1820..182F  ; PVALID  # MONGOLIAN LETTER A..MONGOLIAN LETTER CHA WIT
1879..187F  ; UNASSIGNED # <reserved>..<reserved>
1880..188A  ; PVALID  # MONGOLIAN LETTER ALI GALI ANUSVARA ONE..MONGOLIAN LETTER W
188B..18AF  ; UNASSIGNED # <reserved>..<reserved>
18B0..18F5  ; PVALID  # CANADIAN SYLLABICS OY..CANADIAN SYLLABICS CA
18F6..18FF  ; UNASSIGNED # <reserved>..<reserved>
1900..191E  ; PVALID  # LIMBU VOWEL-CARRIER LETTER..LIMBU LETTER TRA
191F        ; UNASSIGNED # <reserved>
1920..192B  ; PVALID  # LIMBU VOWEL SIGN A..LIMBU SUBJOINED LETTER W
1930..193B  ; PVALID  # LIMBU SMALL LETTER KA..LIMBU SIGN SA-I
193C..193F  ; UNASSIGNED # <reserved>..<reserved>
1940        ; DISALLOWED # LIMBU SIGN LOO
1941..1943  ; UNASSIGNED # <reserved>..<reserved>
1944..1945  ; DISALLOWED # LIMBU EXCLAMATION MARK..LIMBU QUESTION MARK
1946..196D  ; PVALID  # LIMBU DIGIT ZERO..TAI LE LETTER AI
196E..196F  ; UNASSIGNED # <reserved>..<reserved>
1970..1974  ; PVALID  # TAI LE LETTER TONE-2..TAI LE LETTER TONE-6
1975..197F  ; UNASSIGNED # <reserved>..<reserved>
1980..198F  ; PVALID  # NEW TAI LUE LETTER HIGH QA..NEW TAI LUE LETT
19AC..19AF  ; UNASSIGNED # <reserved>..<reserved>
19B0..19C9  ; PVALID  # NEW TAI LUE VOWEL SIGN VOWEL SHORTENER..NEW TAI LUE VOWEL SIGN
19CA..19CF  ; UNASSIGNED # <reserved>..<reserved>
19D0..19D9  ; PVALID  # NEW TAI LUE DIGIT ZERO..NEW TAI LUE DIGIT NI
19DA        ; DISALLOWED # NEW TAI LUE THAM DIGIT ONE
19DB..19DD  ; UNASSIGNED # <reserved>..<reserved>
19DE..19FF  ; DISALLOWED # NEW TAI LUE SIGN LAE..KHMER SYMBOL DAP-PRAM
1A00..1A1B  ; PVALID  # BUGINESE LETTER KA..BUGINESE VOWEL SIGN AE
1A1C..1A1D  ; UNASSIGNED # <reserved>..<reserved>
1A1E..1A1F  ; DISALLOWED # BUGINESE PALLAWA..BUGINESE END OF SECTION
1A20..1A5E  ; PVALID  # TAI THAM LETTER HIGH KA..TAI THAM CONSONANT
1A5F        ; UNASSIGNED # <reserved>
1A60..1A7C  ; PVALID  # TAI THAM SIGN SAKOT..TAI THAM SIGN KHUEN-LUE
1A7D..1A7E ; UNASSIGNED # <reserved>..<reserved>
1A7F..1A89 ; PVALID  # TAI THAM COMBINING CRYPTOGRAMMIC DOT..TAI TH
1A8A..1A8F ; UNASSIGNED # <reserved>..<reserved>
1A90..1A99 ; PVALID  # TAI THAM DIGIT ZERO..TAI THAM DIGI
1A9A..1A9F ; UNASSIGNED # <reserved>..<reserved>
1AA0..1AA6 ; DISALLOWED # TAI THAM SIGN WIANG..TAI THAM SIGN REVERSED
1AA7 ; PVALID  # TAI THAM SIGN MAI YAMOK
1AA8..1AAD ; DISALLOWED # TAI THAM SIGN KAAN..TAI THAM SIGN CAANG
1AAE..1AFF ; UNASSIGNED # <reserved>..<reserved>
1AB0..1ABD ; PVALID  # COMBINING DOUBLED CIRCUMFLEX ACCENT..COMBINI
1ABE ; DISALLOWED # COMBINING PARENTHESES OVERLAY
1ABF..1AFF ; UNASSIGNED # <reserved>..<reserved>
1B00..1B4B ; PVALID  # BALINESE SIGN ULU RICEM..BALINESE LETTER ASY
1B4C..1B4F ; UNASSIGNED # <reserved>..<reserved>
1B50..1B59 ; PVALID  # BALINESE DIGIT ZERO..BALINESE DIGIT NINE
1B5A..1B63 ; DISALLOWED # BALINESE PANTI..BALINESE MUSICAL SYMBOL DANG
1B68..1B73 ; PVALID  # BALINESE MUSICAL SYMBOL COMBINING TEGEH..BAL
1B74..1B7C ; DISALLOWED # BALINESE MUSICAL SYMBOL RIGHT-HAND OPEN DUG.
1B7D..1B7F ; UNASSIGNED # <reserved>..<reserved>
1B80..1B83 ; PVALID  # SUNDANESE SIGN PANYECEK..BATAK PANONGONAN
1B84..1B87 ; UNASSIGNED # <reserved>..<reserved>
1B8C..1B8F ; DISALLOWED # BATAK SYMBOL BINDU NA METEK..BATAK SYMBOL BI
1C00..1C37 ; PVALID  # LEPCHA LETTER KA..LEPCHA SIGN NUKTA
1C38..1C3A ; UNASSIGNED # <reserved>..<reserved>
1C3B..1C3F ; DISALLOWED # LEPCHA PUNCTUATION TA-ROL..LEPCHA 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..1C9A ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AN..GEORGIA
1CBB..1CBB ; UNASSIGNED # <reserved>..<reserved>
1CBD..1CC7 ; DISALLOWED # GEORGIAN MTAVRULI CAPITAL LETTER AEN..SUNDAN
1CC8..1CCF ; UNASSIGNED # <reserved>..<reserved>
1CD0..1CD2 ; PVALID  # VEDIC TONE KARSHANA..VEDIC TONE PRENKH
1CD3 ; DISALLOWED # VEDIC SIGN NIHSHVASA
1CD4..1CF9 ; PVALID  # VEDIC SIGN YAJURVEDIC MIDLINE SVARITA..VEDIC
1CFA..1CFF ; UNASSIGNED # <reserved>..<reserved>
1D00..1D1B ; PVALID  # LATIN LETTER SMALL CAPITAL A..CYRILLIC LETTE
1D2C..1D2E ; DISALLOWED # MODIFIER LETTER CAPITAL A..MODIFIER LETTER C
1D2F ; PVALID  # MODIFIER LETTER CAPITAL BARRED B
1D30..1D3A ; DISALLOWED # MODIFIER LETTER CAPITAL D..MODIFIER LETTER C
1D3B ; PVALID  # MODIFIER LETTER CAPITAL REVERSED N
1D3C..1D4D ; DISALLOWED # MODIFIER LETTER CAPITAL O..MODIFIER LETTER S
1D4E ; PVALID  # MODIFIER LETTER SMALL TURNED I
1D4F..1D6A ; DISALLOWED # MODIFIER LETTER SMALL K..GREEK SUBSCRIPT SMA
1D6B..1D77 ; PVALID  # LATIN SMALL LETTER UE..LATIN SMALL LETTER TU
1D78 ; DISALLOWED # MODIFIER LETTER CYRILLIC EN
1D79..1D9A  ; PVALID  # LATIN SMALL LETTER INSULAR G..LATIN SMALL LE
1D9B..1DBF  ; DISALLOWED  # MODIFIER LETTER SMALL TURNED ALPHA..MODIFIER
1DC0..1DF9  ; PVALID  # COMBINING DOTTED GRAVE ACCENT..COMBINING WID
1DFA  ; UNASSIGNED  # <reserved>
1DFB..1DFF  ; PVALID  # COMBINING DELETION MARK..COMBINING RIGHT ARR
1E00  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH RING BELOW
1E01  ; PVALID  # LATIN SMALL LETTER A WITH RING BELOW
1E02  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT ABOVE
1E03  ; PVALID  # LATIN SMALL LETTER B WITH DOT ABOVE
1E04  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH DOT BELOW
1E05  ; PVALID  # LATIN SMALL LETTER B WITH DOT BELOW
1E06  ; DISALLOWED  # LATIN CAPITAL LETTER B WITH LINE BELOW
1E07  ; PVALID  # LATIN SMALL LETTER B WITH LINE BELOW
1E08  ; DISALLOWED  # LATIN CAPITAL LETTER C WITH CEDILLA AND ACUT
1E09  ; PVALID  # LATIN SMALL LETTER C WITH CEDILLA AND ACUTE
1E0A  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH DOT ABOVE
1E0B  ; PVALID  # LATIN SMALL LETTER D WITH DOT ABOVE
1E0C  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH DOT BELOW
1E0D  ; PVALID  # LATIN SMALL LETTER D WITH DOT BELOW
1E0E  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH LINE BELOW
1E0F  ; PVALID  # LATIN SMALL LETTER D WITH LINE BELOW
1E10  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH CEDILLA
1E11  ; PVALID  # LATIN SMALL LETTER D WITH CEDILLA
1E12  ; DISALLOWED  # LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW
1E13  ; PVALID  # LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW
1E14  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH MACRON AND GRAVE
1E15  ; PVALID  # LATIN SMALL LETTER E WITH MACRON AND GRAVE
1E16  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH MACRON AND ACUTE
1E17  ; PVALID  # LATIN SMALL LETTER E WITH MACRON AND ACUTE
1E18  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW
1E19  ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW
1E1A  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE BELOW
1E1B  ; PVALID  # LATIN SMALL LETTER E WITH TILDE BELOW
1E1C  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CEDILLA AND BREV
1E1D  ; PVALID  # LATIN SMALL LETTER E WITH CEDILLA AND BREVE
1E1E  ; DISALLOWED  # LATIN CAPITAL LETTER F WITH DOT ABOVE
1E1F  ; PVALID  # LATIN SMALL LETTER F WITH DOT ABOVE
1E20  ; DISALLOWED  # LATIN CAPITAL LETTER G WITH MACRON
1E21  ; PVALID  # LATIN SMALL LETTER G WITH MACRON
1E22  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DOT ABOVE
1E23  ; PVALID  # LATIN SMALL LETTER H WITH DOT ABOVE
1E24  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DOT BELOW
1E25  ; PVALID  # LATIN SMALL LETTER H WITH DOT BELOW
1E26  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH DIAERESIS
1E27  ; PVALID  # LATIN SMALL LETTER H WITH DIAERESIS
1E28  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH CEDILLA
1E29  ; PVALID  # LATIN SMALL LETTER H WITH CEDILLA
1E2A  ; DISALLOWED  # LATIN CAPITAL LETTER H WITH BREVE BELOW
1E2B ; PVALID # LATIN SMALL LETTER H WITH BREVE BELOW
1E2C ; DISALLOWED # LATIN CAPITAL LETTER I WITH TILDE BELOW
1E2D ; PVALID # LATIN SMALL LETTER I WITH TILDE BELOW
1E2E ; DISALLOWED # LATIN CAPITAL LETTER I WITH DIAERESIS AND AC
1E2F ; PVALID # LATIN SMALL LETTER I WITH DIAERESIS AND ACUT
1E30 ; DISALLOWED # LATIN CAPITAL LETTER K WITH ACUTE
1E31 ; PVALID # LATIN SMALL LETTER K WITH ACUTE
1E32 ; DISALLOWED # LATIN CAPITAL LETTER K WITH DOT BELOW
1E33 ; PVALID # LATIN SMALL LETTER K WITH DOT BELOW
1E34 ; DISALLOWED # LATIN CAPITAL LETTER K WITH LINE BELOW
1E35 ; PVALID # LATIN SMALL LETTER K WITH LINE BELOW
1E36 ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOT BELOW
1E37 ; PVALID # LATIN SMALL LETTER L WITH DOT BELOW
1E38 ; DISALLOWED # LATIN CAPITAL LETTER L WITH DOT BELOW AND MACR
1E39 ; PVALID # LATIN SMALL LETTER L WITH DOT BELOW AND MACR
1E3A ; DISALLOWED # LATIN CAPITAL LETTER L WITH LINE BELOW
1E3B ; PVALID # LATIN SMALL LETTER L WITH LINE BELOW
1E3C ; DISALLOWED # LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW
1E3D ; PVALID # LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW
1E3E ; DISALLOWED # LATIN CAPITAL LETTER M WITH ACUTE
1E3F ; PVALID # LATIN SMALL LETTER M WITH ACUTE
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1E41 ; PVALID # LATIN SMALL LETTER M WITH DOT ABOVE
1E42 ; DISALLOWED # LATIN CAPITAL LETTER M WITH DOT BELOW
1E43 ; PVALID # LATIN SMALL LETTER M WITH DOT BELOW
1E44 ; DISALLOWED # LATIN CAPITAL LETTER N WITH DOT ABOVE
1E45 ; PVALID # LATIN SMALL LETTER N WITH DOT ABOVE
1E46 ; DISALLOWED # LATIN CAPITAL LETTER N WITH DOT BELOW
1E47 ; PVALID # LATIN SMALL LETTER N WITH DOT BELOW
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1E49 ; PVALID # LATIN SMALL LETTER N WITH LINE BELOW
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1E4B ; PVALID # LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW
1E4C ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE ACUTE
1E4D ; PVALID # LATIN SMALL LETTER O WITH TILDE ACUTE
1E4E ; DISALLOWED # LATIN CAPITAL LETTER O WITH TILDE AND DIAERE
1E4F ; PVALID # LATIN SMALL LETTER O WITH TILDE AND DIAERE
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1E51 ; PVALID # LATIN SMALL LETTER O WITH MACRON AND GRAVE
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1E53 ; PVALID # LATIN SMALL LETTER O WITH MACRON AND ACUTE
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1E55 ; PVALID # LATIN SMALL LETTER P WITH ACUTE
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1E59 ; PVALID # LATIN SMALL LETTER R WITH DOT ABOVE
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1E5B ; PVALID # LATIN SMALL LETTER R WITH DOT BELOW
1E5C ; DISALLOWED # LATIN CAPITAL LETTER R WITH DOT BELOW AND MA
1E5D ; PVALID # LATIN SMALL LETTER R WITH DOT BELOW AND MACR
1E5E ; DISALLOWED # LATIN CAPITAL LETTER R WITH LINE BELOW
1E5F ; PVALID # LATIN SMALL LETTER R WITH LINE BELOW
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1E62 ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW
1E63 ; PVVALID # LATIN SMALL LETTER S WITH DOT BELOW
1E64 ; DISALLOWED # LATIN CAPITAL LETTER S WITH ACUTE AND DOT AB
1E65 ; PVVALID # LATIN SMALL LETTER S WITH ACUTE AND DOT ABOV
1E66 ; DISALLOWED # LATIN CAPITAL LETTER S WITH CARON AND DOT AB
1E67 ; PVVALID # LATIN SMALL LETTER S WITH CARON AND DOT ABOV
1E68 ; DISALLOWED # LATIN CAPITAL LETTER S WITH DOT BELOW AND DO
1E69 ; PVVALID # LATIN SMALL LETTER S WITH DOT BELOW AND DOT
1E6A ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT ABOVE
1E6B ; PVVALID # LATIN SMALL LETTER T WITH DOT ABOVE
1E6C ; DISALLOWED # LATIN CAPITAL LETTER T WITH DOT BELOW
1E6D ; PVVALID # LATIN SMALL LETTER T WITH DOT BELOW
1E6E ; DISALLOWED # LATIN CAPITAL LETTER T WITH LINE BELOW
1E6F ; PVVALID # LATIN SMALL LETTER T WITH LINE BELOW
1E70 ; DISALLOWED # LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW
1E71 ; PVVALID # LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW
1E72 ; DISALLOWED # LATIN CAPITAL LETTER U WITH DIAERESIS BELOW
1E73 ; PVVALID # LATIN SMALL LETTER U WITH DIAERESIS BELOW
1E74 ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE BELOW
1E75 ; PVVALID # LATIN SMALL LETTER U WITH TILDE BELOW
1E76 ; DISALLOWED # LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW
1E77 ; PVVALID # LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW
1E78 ; DISALLOWED # LATIN CAPITAL LETTER U WITH TILDE AND ACUTE
1E79 ; PVVALID # LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E7A ; DISALLOWED # LATIN CAPITAL LETTER U WITH MACRON AND DIAER
1E7B ; PVVALID # LATIN SMALL LETTER U WITH MACRON AND DIAERES
1E7C ; DISALLOWED # LATIN CAPITAL LETTER V WITH TILDE
1E7D ; PVVALID # LATIN SMALL LETTER V WITH TILDE
1E7E ; DISALLOWED # LATIN CAPITAL LETTER V WITH DOT BELOW
1E7F ; PVVALID # LATIN SMALL LETTER V WITH DOT BELOW
1E80 ; DISALLOWED # LATIN CAPITAL LETTER W WITH GRAVE
1E81 ; PVVALID # LATIN SMALL LETTER W WITH GRAVE
1E82 ; DISALLOWED # LATIN CAPITAL LETTER W WITH ACUTE
1E83 ; PVVALID # LATIN SMALL LETTER W WITH ACUTE
1E84 ; DISALLOWED # LATIN CAPITAL LETTER W WITH DIAERESIS
1E85 ; PVVALID # LATIN SMALL LETTER W WITH DIAERESIS
1E86 ; DISALLOWED # LATIN CAPITAL LETTER W WITH DOT ABOVE
1E87 ; PVVALID # 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  ; PVALID  # LATIN SMALL LETTER X WITH DOT ABOVE
1E8C  ; DISALLOWED  # LATIN CAPITAL LETTER X WITH DIAERESIS
1E8D  ; PVALID  # LATIN SMALL LETTER X WITH DIAERESIS
1E8E  ; DISALLOWED  # LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E8F  ; PVALID  # LATIN SMALL LETTER Y WITH DOT ABOVE
1E90  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
1E91  ; PVALID  # LATIN SMALL LETTER Z WITH CIRCUMFLEX
1E92  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH DOT BELOW
1E93  ; PVALID  # LATIN SMALL LETTER Z WITH DOT BELOW
1E94  ; DISALLOWED  # LATIN CAPITAL LETTER Z WITH LINE BELOW
1E95..1E99  ; PVALID  # LATIN SMALL LETTER Z WITH LINE BELOW..LATIN
1E9A..1E9B  ; DISALLOWED  # LATIN SMALL LETTER A WITH RIGHT HALF RING..L
1E9C..1E9D  ; PVALID  # LATIN SMALL LETTER LONG S WITH DIAGONAL STRO
1E9E  ; DISALLOWED  # LATIN CAPITAL LETTER SHARP S
1E9F  ; PVALID  # LATIN SMALL LETTER DELTA
1EA0  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH DOT BELOW
1EA2  ; PVALID  # LATIN SMALL LETTER A WITH DOT BELOW
1EA3  ; PVALID  # LATIN SMALL LETTER A WITH HOOK ABOVE
1EA4  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH HOOK ABOVE
1EA5  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND A
1EA6  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND G
1EA7  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRA
1EA8  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND H
1EA9  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOO
1EAA  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND T
1EAB  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND TIL
1EAC  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND D
1EAD  ; PVALID  # LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT
1EAE  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
1EAF  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND ACUTE
1EB0  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
1EB1  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND GRAVE
1EB2  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND HOOK A
1EB3  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND HOOK ABO
1EB4  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND TILDE
1EB5  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND TILDE
1EB6  ; DISALLOWED  # LATIN CAPITAL LETTER A WITH BREVE AND DOT BE
1EB7  ; PVALID  # LATIN SMALL LETTER A WITH BREVE AND DOT BELO
1EB8  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH DOT BELOW
1EB9  ; PVALID  # LATIN SMALL LETTER E WITH DOT BELOW
1EBA  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH HOOK ABOVE
1EBB  ; PVALID  # LATIN SMALL LETTER E WITH HOOK ABOVE
1EBC  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH TILDE
1EBD  ; PVALID  # LATIN SMALL LETTER E WITH TILDE
1EBE  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND A
1EBF  ; PVALID  # LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACU
1EC0  ; DISALLOWED  # LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND G
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1EF2 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH GRAVE
1EF3 ; PVALID # LATIN SMALL LETTER Y WITH GRAVE
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1EF5 ; PVALID # LATIN SMALL LETTER Y WITH DOT BELOW
1EF6 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH HOOK ABOVE
1EF7 ; PVALID # LATIN SMALL LETTER Y WITH HOOK ABOVE
1EF8 ; DISALLOWED # LATIN CAPITAL LETTER Y WITH TILDE
1EF9 ; PVALID # LATIN SMALL LETTER Y WITH TILDE
1EFA ; DISALLOWED # LATIN CAPITAL LETTER MIDDLE-WELSH LL
1EFB ; PVALID # LATIN SMALL LETTER MIDDLE-WELSH LL
1EFC ; DISALLOWED # LATIN CAPITAL LETTER MIDDLE-WELSH V
1EFD ; PVALID # LATIN SMALL LETTER MIDDLE-WELSH V
1EFE ; DISALLOWED # LATIN CAPITAL LETTER Y WITH LOOP
1EFF..1F07 ; PVALID # LATIN SMALL LETTER Y WITH LOOP..GREEK SMALL
1F08..1F0F ; DISALLOWED # GREEK CAPITAL LETTER ALPHA WITH PSILI..GREEK
1F10..1F15 ; PVALID # GREEK SMALL LETTER EPSILON WITH PSILI..GREEK
1F16..1F17 ; UNASSIGNED # <reserved>..<reserved>
1F18..1F1D ; DISALLOWED # GREEK CAPITAL LETTER EPSILON WITH PSILI..GRE
1F1E..1F1F ; UNASSIGNED # <reserved>..<reserved>
1F20..1F27 ; PVALID # GREEK SMALL LETTER ETA WITH PSILI..GREEK SMA
1F28..1F2F ; DISALLOWED # GREEK CAPITAL LETTER ETA WITH PSILI..GREEK C
1F30..1F37 ; PVALID # GREEK SMALL LETTER IOTA WITH PSILI..GREEK SM
1F38..1F3F ; DISALLOWED # GREEK CAPITAL LETTER IOTA WITH PSILI..GREEK
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1F5C ; UNASSIGNED # <reserved>
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1F5E ; UNASSIGNED # <reserved>
1F5F ; DISALLOWED # GREEK CAPITAL LETTER UPSILON WITH DASIA AND
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1F68..1F6F ; DISALLOWED # GREEK CAPITAL LETTER OMEGA WITH PSILI..GREEK
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1F71 ; DISALLOWED # GREEK SMALL LETTER ALPHA WITH OXIA
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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>
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1FB2..1FB4 ; DISALLOWED # GREEK SMALL LETTER ALPHA WITH VARIA AND YPOG
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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..GREEK
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..1FFF ; UNASSIGNED # <reserved>..<reserved>
2000..200B ; DISALLOWED # EN QUAD..ZERO WIDTH SPACE
200C..200D ; CONTEXTJ # ZERO WIDTH NON-JOINER..ZERO WIDTH JOINER
200E..2064 ; DISALLOWED # LEFT-TO-RIGHT MARK..INVISIBLE PLUS
2065 ; UNASSIGNED # <reserved>
2066..2071 ; DISALLOWED # LEFT-TO-RIGHT ISOLATE..SUPERScript latin Sma
2072..2073 ; UNASSIGNED # <reserved>..<reserved>
2074..208E ; DISALLOWED # SUPERScript four..SUBSCRIPT RIGHT PARENTHEsi
208F ; UNASSIGNED # <reserved>
2090..209F ; DISALLOWED # LATIN SUBSCRIPT SMALL LETTER A..LATIN SUBSCR
2090..209F ; UNASSIGNED # <reserved>..<reserved>
20A0..20BF ; DISALLOWED # EURO-CURRENCY SIGN..BITCOIN SIGN
20C0..20CF ; UNASSIGNED # <reserved>..<reserved>
20D0..20FF ; DISALLOWED # COMBINING LEFT HARPOON ABOVE..COMBINING Aste
20F1..20FF ; UNASSIGNED # <reserved>..<reserved>
2100..214D ; DISALLOWED # ACCOUNT OF..AKTIESELSKAB
214E ; PVALID # TURNED SMALL F
214F..2183  ; DISALLOWED  # SYMBOL FOR SAMARITAN SOURCE..ROMAN NUMERAL R
2184  ; PVALID  # LATIN SMALL LETTER REVERSED C
2185..218B  ; DISALLOWED  # ROMAN NUMERAL SIX LATE FORM..TURNED DIGIT TH
218C..218F  ; UNASSIGNED  # <reserved>..<reserved>
2190..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..2BC8  ; DISALLOWED  # THREE-D TOP-LIGHTED LEFTWARDS EQUILATERAL AR
2BC9  ; UNASSIGNED  # <reserved>
2BCA..2BFE  ; DISALLOWED  # TOP HALF BLACK CIRCLE..REVERSED RIGHT ANGLE
2BFF  ; UNASSIGNED  # <reserved>
2C00..2C0E  ; DISALLOWED  # GLAGOLITIC CAPITAL LETTER AZU..GLAGOLITIC CA
2C2F  ; UNASSIGNED  # <reserved>
2C30..2C5E  ; PVALID  # GLAGOLITIC SMALL LETTER AZU..GLAGOLITIC SMALL
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 SMALL
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..2C78  ; PVALID  # LATIN SMALL LETTER HALF H..LATIN LETTER SMAL
2C7C..2C80  ; DISALLOWED  # LATIN SUBSCRIPT SMALL LETTER J..COPTIC CAPITAL
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
2C9A        ; DISALLOWED  # COPTIC CAPITAL LETTER NI
2C9B        ; PVALID      # COPTIC SMALL LETTER NI
2C9C        ; DISALLOWED  # COPTIC CAPITAL LETTER KSI
2C9D        ; PVALID      # COPTIC SMALL LETTER KSI
2C9E        ; DISALLOWED  # COPTIC CAPITAL LETTER O
2C9F        ; PVALID      # COPTIC SMALL LETTER O
2CA0        ; DISALLOWED  # COPTIC CAPITAL LETTER PI
2CA1        ; PVALID      # COPTIC SMALL LETTER PI
2CA2        ; DISALLOWED  # COPTIC CAPITAL LETTER RO
2CA3        ; PVALID      # COPTIC SMALL LETTER RO
2CA4        ; DISALLOWED  # COPTIC CAPITAL LETTER SIMA
2CA5        ; PVALID      # COPTIC SMALL LETTER SIMA
2CA6        ; DISALLOWED  # COPTIC CAPITAL LETTER TAU
2CA7        ; PVALID      # COPTIC SMALL LETTER TAU
2CA8        ; DISALLOWED  # COPTIC CAPITAL LETTER UA
2CA9        ; PVALID      # COPTIC SMALL LETTER UA
2CAA        ; DISALLOWED  # COPTIC CAPITAL LETTER FI
2CAB        ; PVALID      # COPTIC SMALL LETTER FI
2CAC        ; DISALLOWED  # COPTIC CAPITAL LETTER KHI
2CAD        ; PVALID      # COPTIC SMALL LETTER KHI
2CAE        ; DISALLOWED  # COPTIC CAPITAL LETTER PSI
2CAF        ; PVALID      # COPTIC SMALL LETTER PSI
2CB0        ; DISALLOWED  # COPTIC CAPITAL LETTER OOU
2CB1        ; PVALID      # COPTIC SMALL LETTER OOU
2CB2        ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P ALEF
2CB3        ; PVALID      # COPTIC SMALL LETTER DIALECT-P ALEF
2CB4        ; DISALLOWED  # COPTIC CAPITAL LETTER OLD COPTIC AIN
2CB5        ; PVALID      # COPTIC SMALL LETTER OLD COPTIC AIN
2CB6        ; DISALLOWED  # COPTIC CAPITAL LETTER CRYPTOGRAMMIC EIE
2CB7        ; PVALID      # COPTIC SMALL LETTER CRYPTOGRAMMIC EIE
2CB8        ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P KAPA
2CB9        ; PVALID      # COPTIC SMALL LETTER DIALECT-P KAPA
2CBA        ; DISALLOWED  # COPTIC CAPITAL LETTER DIALECT-P NI
2CBB        ; PVALID      # COPTIC SMALL LETTER DIALECT-P NI
2CBC        ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC NI
2CBD        ; PVALID   # COPTIC SMALL LETTER CRYPTOGRAMMIC NI
2CBE        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC OOU
2CBF        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC OOU
2CC0        ; DISALLOWED # COPTIC CAPITAL LETTER SAMPi
2CC1        ; PVALID   # COPTIC SMALL LETTER SAMPi
2CC2        ; DISALLOWED # COPTIC CAPITAL LETTER CROSSED SHEI
2CC3        ; PVALID   # COPTIC SMALL LETTER CROSSED SHEI
2CC4        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC SHEI
2CC5        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC SHEI
2CC6        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC ESH
2CC7        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC ESH
2CC8        ; DISALLOWED # COPTIC CAPITAL LETTER AKHMIMIC KHEI
2CC9        ; PVALID   # COPTIC SMALL LETTER AKHMIMIC KHEI
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
2CEE        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HA
2CCF        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC HA
2CD0        ; DISALLOWED # COPTIC CAPITAL LETTER L-SHAPED HA
2CD1        ; PVALID   # COPTIC SMALL LETTER L-SHAPED HA
2CD2        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HEI
2CD3        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC HEI
2CD4        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC HAT
2CD5        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC HAT
2CD6        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC GANGIA
2CD7        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC GANGIA
2CD8        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC DJA
2CD9        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC DJA
2CDA        ; DISALLOWED # COPTIC CAPITAL LETTER OLD COPTIC SHIMA
2CDB        ; PVALID   # COPTIC SMALL LETTER OLD COPTIC SHIMA
2CDC        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN SHIMA
2CDD        ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN SHIMA
2CDE        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NGI
2CDF        ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN NGI
2CE0        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN NYI
2CE1        ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN NYI
2CE2        ; DISALLOWED # COPTIC CAPITAL LETTER OLD NUBIAN WAU
2CE3...2CE4 ; PVALID   # COPTIC SMALL LETTER OLD NUBIAN WAU..COPTIC S
2CE5...2CEB ; DISALLOWED # COPTIC SYMBOL MI RO..COPTIC CAPITAL LETTER C
2CEC        ; PVALID   # COPTIC SMALL LETTER CRYPTOGRAMMIC SHEI
2CED        ; DISALLOWED # COPTIC CAPITAL LETTER CRYPTOGRAMMIC GANGIA
2CEE...2CF1 ; PVALID   # COPTIC SMALL LETTER CRYPTOGRAMMIC GANGIA..CO
2CF2        ; DISALLOWED # COPTIC CAPITAL LETTER BOHAIRIC KHEI
2CF3        ; PVALID   # COPTIC SMALL LETTER BOHAIRIC KHEI
2CF4...2CF8 ; UNASSIGNED # <reserved>..<reserved>
2CF9...2CFF ; DISALLOWED # COPTIC OLD NUBIAN FULL STOP..COPTIC MORPHOLO
2D00..2D25  ; PVALID      # GEORGIAN SMALL LETTER AN..GEORGIAN SMALL LETTER AN
2D26        ; UNASSIGNED # <reserved>
2D27        ; PVALID      # GEORGIAN SMALL LETTER AE
2D27..2D2C  ; UNASSIGNED # <reserved>..<reserved>
2D2D        ; PVALID      # GEORGIAN SMALL LETTER AE
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 CYRILLIC LETTER BE
2E00..2E2E  ; DISALLOWED # RIGHT ANGLE SUBSTITUTION MARKER..REVERSED QUOTATION MARK
2E2F        ; PVALID      # VERTICAL TILDE
2E30..2E4E  ; DISALLOWED # RING POINT..PUNCTUS ELEVATUS MARK
2E4F..2E7F  ; UNASSIGNED # <reserved>..<reserved>
2E80..2E99  ; DISALLOWED # CJK RADICAL REPEAT..CJK RADICAL RADICAL
2E9A        ; UNASSIGNED # <reserved>
2E9B..2EF3  ; DISALLOWED # CJK RADICAL CHOKE..CJK RADICAL C-SIMPLIFIED
2EF4..2EFF  ; UNASSIGNED # <reserved>..<reserved>
2F00..2FD5  ; DISALLOWED # KANGXI RADICAL ONE..KANGXI RADICAL FLUTE
2FD6..2FEF  ; UNASSIGNED # <reserved>..<reserved>
2FF0..2FFB  ; DISALLOWED # IDEOGRAPHIC DESCRIPTION CHARACTER LEFT TO RIGHT
2FFC..2FFF  ; UNASSIGNED # <reserved>..<reserved>
3000..3004  ; DISALLOWED # IDEOGRAPHIC SPACE..JAPANESE INDUSTRIAL SPACE
3005..3007  ; PVALID      # IDEOGRAPHIC ITERATION MARK..IDEOGRAPHIC NUMERIC
3008..3029  ; DISALLOWED # LEFT ANGLE BRACKET..HANGZHOU NUMERICAL NINE
302A..302D  ; PVALID      # IDEOGRAPHIC LEVEL TONE MARK..IDEOGRAPHIC ELLIPSIS
302E..303B  ; DISALLOWED # HANGUL SINGLE DOT TONE MARK..VERTICAL IDEOGRAPHIC MARK
303C        ; PVALID      # IDEOGRAPHIC SPACE
303D..303F  ; DISALLOWED # PART ALTERNATION MARK..IDEOGRAPHIC HALF WIDTH
A646        ; DISALLOWED  # CYRILLIC CAPITAL LETTER IOTA
A647        ; PVALID     # CYRILLIC SMALL LETTER IOTA
A648        ; DISALLOWED # CYRILLIC CAPITAL LETTER DJERV
A649        ; PVALID     # CYRILLIC SMALL LETTER DJERV
A64A        ; DISALLOWED # CYRILLIC CAPITAL LETTER MONOGRAPH UK
A64B        ; PVALID     # CYRILLIC SMALL LETTER MONOGRAPH UK
A64C        ; DISALLOWED # CYRILLIC CAPITAL LETTER BROAD OMEGA
A64D        ; PVALID     # CYRILLIC SMALL LETTER BROAD OMEGA
A64E        ; DISALLOWED # CYRILLIC CAPITAL LETTER NEUTRAL YER
A64F        ; PVALID     # CYRILLIC SMALL LETTER NEUTRAL YER
A650        ; DISALLOWED # CYRILLIC CAPITAL LETTER YERU WITH BACK YER
A651        ; PVALID     # CYRILLIC SMALL LETTER YERU WITH BACK YER
A652        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED YAT
A653        ; PVALID     # CYRILLIC SMALL LETTER IOTIFIED YAT
A654        ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED YU
A655        ; PVALID     # CYRILLIC SMALL LETTER REVERSED YU
A656        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED A
A657        ; PVALID     # CYRILLIC SMALL LETTER IOTIFIED A
A658        ; DISALLOWED # CYRILLIC CAPITAL LETTER CLOSED LITTLE YUS
A659        ; PVALID     # CYRILLIC SMALL LETTER CLOSED LITTLE YUS
A65A        ; DISALLOWED # CYRILLIC CAPITAL LETTER BLENDED YUS
A65B        ; PVALID     # CYRILLIC SMALL LETTER BLENDED YUS
A65C        ; DISALLOWED # CYRILLIC CAPITAL LETTER IOTIFIED CLOSED LITT
A65D        ; PVALID     # CYRILLIC SMALL LETTER IOTIFIED CLOSED LITTLE
A65E        ; DISALLOWED # CYRILLIC CAPITAL LETTER YN
A65F        ; PVALID     # CYRILLIC SMALL LETTER YN
A660        ; DISALLOWED # CYRILLIC CAPITAL LETTER REVERSED TSE
A661        ; PVALID     # CYRILLIC SMALL LETTER REVERSED TSE
A662        ; DISALLOWED # CYRILLIC CAPITAL LETTER SOFT DE
A663        ; PVALID     # CYRILLIC SMALL LETTER SOFT DE
A664        ; DISALLOWED # CYRILLIC CAPITAL LETTER SOFT EL
A665        ; PVALID     # CYRILLIC SMALL LETTER SOFT EL
A666        ; DISALLOWED # CYRILLIC CAPITAL LETTER SOFT EM
A667        ; PVALID     # CYRILLIC SMALL LETTER SOFT EM
A668        ; DISALLOWED # CYRILLIC CAPITAL LETTER MONOCULAR O
A669        ; PVALID     # CYRILLIC SMALL LETTER MONOCULAR O
A66A        ; DISALLOWED # CYRILLIC CAPITAL LETTER BINOCULAR O
A66B        ; PVALID     # CYRILLIC SMALL LETTER BINOCULAR O
A66C        ; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE MONOCULAR O
A66D..A66F  ; PVALID     # CYRILLIC SMALL LETTER DOUBLE MONOCULAR O..CO
A670..A673  ; DISALLOWED # COMBINING CYRILLIC TEN MILLIONS SIGN..SLAVON
A674..A67D  ; PVALID     # COMBINING CYRILLIC LETTER UKRAINIAN IE..COMB
A67E        ; DISALLOWED # CYRILLIC KAVYKA
A67F        ; PVALID     # CYRILLIC PAYEROK
A680        ; DISALLOWED # CYRILLIC CAPITAL LETTER DWE
A681        ; PVALID     # CYRILLIC SMALL LETTER DWE
A682        ; DISALLOWED # CYRILLIC CAPITAL LETTER DZWE
A683        ; PVALID     # CYRILLIC SMALL LETTER DZWE
A684; DISALLOWED # CYRILLIC CAPITAL LETTER ZHWE
A685; PVALID # CYRILLIC SMALL LETTER ZHWE
A686; DISALLOWED # CYRILLIC CAPITAL LETTER CCHE
A687; PVALID # CYRILLIC SMALL LETTER CCHE
A688; DISALLOWED # CYRILLIC CAPITAL LETTER DZZE
A689; PVALID # CYRILLIC SMALL LETTER DZZE
A68A; DISALLOWED # CYRILLIC CAPITAL LETTER TE WITH MIDDLE HOOK
A68B; PVALID # CYRILLIC SMALL LETTER TE WITH MIDDLE HOOK
A68C; DISALLOWED # CYRILLIC CAPITAL LETTER TWE
A68D; PVALID # CYRILLIC SMALL LETTER TWE
A68E; DISALLOWED # CYRILLIC CAPITAL LETTER TSWE
A68F; PVALID # CYRILLIC SMALL LETTER TSWE
A690; DISALLOWED # CYRILLIC CAPITAL LETTER TSSE
A691; PVALID # CYRILLIC SMALL LETTER TSSE
A692; DISALLOWED # CYRILLIC CAPITAL LETTER TCHE
A693; PVALID # CYRILLIC SMALL LETTER TCHE
A694; DISALLOWED # CYRILLIC CAPITAL LETTER HWE
A695; PVALID # CYRILLIC SMALL LETTER HWE
A696; DISALLOWED # CYRILLIC CAPITAL LETTER SHWE
A697; PVALID # CYRILLIC SMALL LETTER SHWE
A698; DISALLOWED # CYRILLIC CAPITAL LETTER DOUBLE O
A699; PVALID # CYRILLIC SMALL LETTER DOUBLE O
A69A; DISALLOWED # CYRILLIC CAPITAL LETTER CROSSED O
A69B; PVALID # CYRILLIC SMALL LETTER CROSSED O
A69C..A69D; DISALLOWED # MODIFIER LETTER CYRILLIC HARD SIGN..MODIFIER
A69E..A6E5; PVALID # COMBINING CYRILLIC LETTER EF..BAMUM LETTER K
A6E6..A6EF; DISALLOWED # BAMUM LETTER MO..BAMUM LETTER KOGHOM
A6F0..A6F1; PVALID # BAMUM COMBINING MARK KOQNDON..BAMUM COMBINING MARK
A6F2..A6F7; DISALLOWED # BAMUM NJAEMLI..BAMUM QUESTION MARK
A6F8..A6FF; UNASSIGNED # <reserved>..<reserved>
A700..A716; DISALLOWED # MODIFIER LETTER CHINESE TONE YIN PING..MODIFIER
A717..A71F; PVALID # MODIFIER LETTER DOT VERTICAL BAR..MODIFIER L
A720..A722; DISALLOWED # MODIFIER LETTER STRESS AND HIGH TONE..LATIN
A723; PVALID # LATIN SMALL LETTER EGYPTOLOGICAL ALEF
A724; DISALLOWED # LATIN CAPITAL LETTER EGYPTOLOGICAL AIN
A725; PVALID # LATIN SMALL LETTER EGYPTOLOGICAL AIN
A726; DISALLOWED # LATIN CAPITAL LETTER HENG
A727; PVALID # LATIN SMALL LETTER HENG
A728; DISALLOWED # LATIN CAPITAL LETTER TZ
A729; PVALID # LATIN SMALL LETTER TZ
A72A; DISALLOWED # LATIN CAPITAL LETTER TRESILLO
A72B; PVALID # LATIN SMALL LETTER TRESILLO
A72C; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO
A72D; PVALID # LATIN SMALL LETTER CUATRILLO
A72E; DISALLOWED # LATIN CAPITAL LETTER CUATRILLO WITH COMMA
A72F..A731; PVALID # LATIN SMALL LETTER CUATRILLO WITH COMMA..LAT
A732; DISALLOWED # LATIN CAPITAL LETTER AA
A733; PVALID # LATIN SMALL LETTER AA
A734 ; DISALLOWED # LATIN CAPITAL LETTER AO
A735 ; PVALID # LATIN SMALL LETTER AO
A736 ; DISALLOWED # LATIN CAPITAL LETTER AU
A737 ; PVALID # LATIN SMALL LETTER AU
A738 ; DISALLOWED # LATIN CAPITAL LETTER AV
A739 ; PVALID # LATIN SMALL LETTER AV
A73A ; DISALLOWED # LATIN CAPITAL LETTER AV WITH HORIZONTAL BAR
A73B ; PVALID # LATIN SMALL LETTER AV WITH HORIZONTAL BAR
A73C ; DISALLOWED # LATIN CAPITAL LETTER AY
A73D ; PVALID # LATIN SMALL LETTER AY
A73E ; DISALLOWED # LATIN CAPITAL LETTER REVERSED C WITH DOT
A73F ; PVALID # LATIN SMALL LETTER REVERSED C WITH DOT
A740 ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE
A741 ; PVALID # LATIN SMALL LETTER K WITH STROKE
A742 ; DISALLOWED # LATIN CAPITAL LETTER K WITH DIAGONAL STROKE
A743 ; PVALID # LATIN SMALL LETTER K WITH DIAGONAL STROKE
A744 ; DISALLOWED # LATIN CAPITAL LETTER K WITH STROKE AND DIAGONAL STROKE
A745 ; PVALID # LATIN SMALL LETTER K WITH STROKE AND DIAGONAL STROKE
A746 ; DISALLOWED # LATIN CAPITAL LETTER BROKEN L
A747 ; PVALID # LATIN SMALL LETTER BROKEN L
A748 ; DISALLOWED # LATIN CAPITAL LETTER L WITH HIGH STROKE
A749 ; PVALID # LATIN SMALL LETTER L WITH HIGH STROKE
A74A ; DISALLOWED # LATIN CAPITAL LETTER O WITH LONG STROKE OVER
A74B ; PVALID # LATIN SMALL LETTER O WITH LONG STROKE OVER
A74C ; DISALLOWED # LATIN CAPITAL LETTER O WITH LOOP
A74D ; PVALID # LATIN SMALL LETTER O WITH LOOP
A74E ; DISALLOWED # LATIN CAPITAL LETTER OO
A74F ; PVALID # LATIN SMALL LETTER OO
A750 ; DISALLOWED # LATIN CAPITAL LETTER P WITH STROKE THROUGH D
A751 ; PVALID # LATIN SMALL LETTER P WITH STROKE THROUGH DES
A752 ; DISALLOWED # LATIN CAPITAL LETTER P WITH FLOURISH
A753 ; PVALID # LATIN SMALL LETTER P WITH FLOURISH
A754 ; DISALLOWED # LATIN CAPITAL LETTER P WITH SQUIRREL TAIL
A755 ; PVALID # LATIN SMALL LETTER P WITH SQUIRREL TAIL
A756 ; DISALLOWED # LATIN CAPITAL LETTER Q WITH STROKE THROUGH D
A757 ; PVALID # LATIN SMALL LETTER Q WITH STROKE THROUGH DES
A758 ; DISALLOWED # LATIN CAPITAL LETTER Q WITH DIAGONAL STROKE
A759 ; PVALID # LATIN SMALL LETTER Q WITH DIAGONAL STROKE
A75A ; DISALLOWED # LATIN CAPITAL LETTER R ROTUNDA
A75B ; PVALID # LATIN SMALL LETTER R ROTUNDA
A75C ; DISALLOWED # LATIN CAPITAL LETTER RUM ROTUNDA
A75D ; PVALID # LATIN SMALL LETTER RUM ROTUNDA
A75E ; DISALLOWED # LATIN CAPITAL LETTER V WITH DIAGONAL STROKE
A75F ; PVALID # LATIN SMALL LETTER V WITH DIAGONAL STROKE
A760 ; DISALLOWED # LATIN CAPITAL LETTER VY
A761 ; PVALID # LATIN SMALL LETTER VY
A762 ; DISALLOWED # LATIN CAPITAL LETTER VISIGOTHIC Z
A763 ; PVALID # LATIN SMALL LETTER VISIGOTHIC Z
A764        ; DISALLOWED  # LATIN CAPITAL LETTER THORN WITH STROKE
A765        ; PVALID  # LATIN SMALL LETTER THORN WITH STROKE
A766        ; DISALLOWED  # LATIN CAPITAL LETTER THORN WITH STROKE THROU
A767        ; PVALID  # LATIN SMALL LETTER THORN WITH STROKE THROUGH
A768        ; DISALLOWED  # LATIN CAPITAL LETTER VEND
A769        ; PVALID  # LATIN SMALL LETTER VEND
A76A        ; DISALLOWED  # LATIN CAPITAL LETTER ET
A76B        ; PVALID  # LATIN SMALL LETTER ET
A76C        ; DISALLOWED  # LATIN CAPITAL LETTER IS
A76D        ; PVALID  # LATIN SMALL LETTER IS
A76E        ; DISALLOWED  # LATIN CAPITAL LETTER CON
A76F        ; PVALID  # LATIN SMALL LETTER CON
A770        ; DISALLOWED  # MODIFIER LETTER US
A771..A778  ; PVALID  # LATIN SMALL LETTER DUM..LATIN SMALL LETTER U
A779        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR D
A77A        ; PVALID  # LATIN SMALL LETTER INSULAR D
A77B        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR F
A77C        ; PVALID  # LATIN SMALL LETTER INSULAR F
A77D..A77E  ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR G..LATIN CAPITAL LETTER
A77F        ; PVALID  # LATIN SMALL LETTER TURNED INSULAR G
A780        ; DISALLOWED  # LATIN CAPITAL LETTER TURNED L
A781        ; PVALID  # LATIN SMALL LETTER TURNED L
A782        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR R
A783        ; PVALID  # LATIN SMALL LETTER INSULAR R
A784        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR S
A785        ; PVALID  # LATIN SMALL LETTER INSULAR S
A786        ; DISALLOWED  # LATIN CAPITAL LETTER INSULAR T
A787..A788  ; PVALID  # LATIN SMALL LETTER INSULAR T..MODIFIER LETTER
A789..A78B  ; DISALLOWED  # MODIFIER LETTER COLON..LATIN CAPITAL LETTER
A78C        ; PVALID  # LATIN SMALL LETTER SALTILLO
A78D        ; DISALLOWED  # LATIN CAPITAL LETTER TURNED H
A78E..A78F  ; PVALID  # LATIN SMALL LETTER L WITH RETROFLEX HOOK AND
A790        ; DISALLOWED  # LATIN CAPITAL LETTER N WITH DESCENDER
A791        ; PVALID  # LATIN SMALL LETTER N WITH DESCENDER
A792        ; DISALLOWED  # LATIN CAPITAL LETTER C WITH BAR
A793..A795  ; PVALID  # LATIN SMALL LETTER C WITH BAR..LATIN SMALL L
A796        ; DISALLOWED  # LATIN CAPITAL LETTER B WITH FLOURISH
A797        ; PVALID  # LATIN SMALL LETTER B WITH FLOURISH
A798        ; DISALLOWED  # LATIN CAPITAL LETTER F WITH STROKE
A799        ; PVALID  # LATIN SMALL LETTER F WITH STROKE
A79A        ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK AE
A79B        ; PVALID  # LATIN SMALL LETTER VOLAPUK AE
A79C        ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK OE
A79D        ; PVALID  # LATIN SMALL LETTER VOLAPUK OE
A79E        ; DISALLOWED  # LATIN CAPITAL LETTER VOLAPUK UE
A79F        ; PVALID  # LATIN SMALL LETTER VOLAPUK UE
A7A0        ; DISALLOWED  # LATIN CAPITAL LETTER G WITH OBLIQUE STROKE
A7A1        ; PVALID  # LATIN SMALL LETTER G WITH OBLIQUE STROKE
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A9E0..A9FE ; PVALID # MYANMAR LETTER SHAN GHA..MYANMAR LETTER TAI
A9FF ; UNASSIGNED # <reserved>
AA00..AA36 ; PVALID # CHAM LETTER A..CHAM CONSONANT SIGN WA
AA37..AA3F ; UNASSIGNED # <reserved>..<reserved>
AA40..AA4D ; PVALID # CHAM LETTER FINAL K..CHAM CONSONANT SIGN FIN
AA4E..AA4F ; UNASSIGNED # <reserved>..<reserved>
AA50..AA59 ; PVALID # CHAM DIGIT ZERO..CHAM DIGIT NINE
AA5A..AA5B ; UNASSIGNED # <reserved>..<reserved>
AA5C..AA5F ; DISALLOWED # CHAM PUNCTUATION SPIRAL..CHAM PUNCTUATION TR
AA60..AA76 ; PVALID # MYANMAR LETTER KHAMTI GA..MYANMAR LOGOGRAM K
AA77..AA79 ; DISALLOWED # MYANMAR SYMBOL AITON EXCLAMATION..MYANMAR SY
AA7A..AAC2 ; PVALID # MYANMAR LETTER AITON RA..TAI VIET TONE MAI S
AAC3..AAD3 ; UNASSIGNED # <reserved>..<reserved>
AAD4..AAD9 ; PVALID # TAI VIET SYMBOL KON..TAI VIET SYMBOL SAM
AADE..AAEF ; DISALLOWED # TAI VIET SYMBOL HO HOI..TAI VIET SYMBOL KOI
AB00..AB06 ; PVALID # ETHEIOPIC SYLLABLE TTHU..ETHEIOPIC SYLLABLE TT
AB07..AB0B ; UNASSIGNED # <reserved>..<reserved>
AB0C..AB0F ; PVALID # ETHEIOPIC SYLLABLE DDHU..ETHEIOPIC SYLLABLE DD
AB10..AB13 ; DISALLOWED # ETHEIOPIC SYLLABLE D2U..ETHEIOPIC SYLLABLE D2O
AB14..AB1F ; UNASSIGNED # <reserved>..<reserved>
AB20..AB26 ; PVALID # ETHEIOPIC SYLLABLE CCHE..ETHEIOPIC SYLLABLE C
AB27 ; UNASSIGNED # <reserved>
AB28..AB2E ; PVALID # ETHEIOPIC SYLLABLE BBA..ETHEIOPIC SYLLABLE BBO
AB2F ; UNASSIGNED # <reserved>
AB30..AB5A ; PVALID # LATIN SMALL LETTER BARRED ALPHA..LATIN SMALL
AB5B..AB5F ; DISALLOWED # MODIFIER BREVE WITH INVERTED BREVE..MODIFIER
AB60..AB65 ; PVALID # LATIN SMALL LETTER SAKHA YAT..GREEK LETTER S
AB66..AB6F ; UNASSIGNED # <reserved>..<reserved>
AB70..ABBF ; DISALLOWED # CHEROKEE SMALL LETTER A..CHEROKEE SMALL LETT
ABC0..ABEA ; PVALID # MEETEI MAYEK LETTER KOK..MEETEI MAYEK VOWEL
ABEB ; DISALLOWED # MEETEI MAYEK CHEIKHEI
ABEC..ABED ; PVALID # MEETEI MAYEK LUM IYEK..MEETEI MAYEK APUN IYE
ABEE..ABEF ; UNASSIGNED # <reserved>..<reserved>
ABF0..ABF9 ; PVALID # MEETEI MAYEK DIGIT ZERO..MEETEI MAYEK DIGIT
ABFA..ABFF ; UNASSIGNED # <reserved>..<reserved>
AC00..D7A3 ; PVALID # <Hangul Syllable>..<Hangul Syllable>
D7A4..D7AF ; UNASSIGNED # <reserved>..<reserved>
D7B0..D7C6 ; DISALLOWED # HANGUL JUNSEONG O-YEO..HANGUL JUNSEONG ARA
D7C7..D7CA ; UNASSIGNED # <reserved>..<reserved>
D7CB..D7FB ; DISALLOWED # HANGUL JUNSEONG NIEUN-RIEUL..HANGUL JUNSEONG
D7FC..D7FF ; UNASSIGNED # <reserved>..<reserved>
D800..FA0D ; DISALLOWED # <Non Private Use High Surrogate>..CJK COMPAT
FA0E..FA0F ; PVALID # CJK COMPATIBILTY IDEOGRAPH-FA0E..CJK COMPAT
FA10        ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA10
FA11        ; PVALID  # CJK COMPATIBILITY IDEOGRAPH-FA11
FA12        ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA12
FA13..FA14  ; PVALID  # CJK COMPATIBILITY IDEOGRAPH-FA13..CJK COMPAT
FA15..FA1E  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA15..CJK COMPAT
FA1F        ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA1F
FA20        ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA20
FA21        ; PVALID  # CJK COMPATIBILITY IDEOGRAPH-FA21
FA22        ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA22
FA23..FA24  ; PVALID  # CJK COMPATIBILITY IDEOGRAPH-FA23..CJK COMPAT
FA25..FA26  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA25..CJK COMPAT
FA27..FA29  ; PVALID  # CJK COMPATIBILITY IDEOGRAPH-FA27..CJK COMPAT
FA2A..FA2B  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA2A..CJK COMPAT
FA30..FA6F  ; UNASSIGNED # <reserved>..<reserved>
FA70..FA76  ; DISALLOWED # CJK COMPATIBILITY IDEOGRAPH-FA70..CJK COMPAT
FADA..FAFF  ; UNASSIGNED # <reserved>..<reserved>
FB00..FB06  ; DISALLOWED # LATIN SMALL LIGATURE FF..LATIN SMALL LIGATURE
FB07..FB12  ; DISALLOWED # <reserved>..<reserved>
FB13..FB17  ; DISALLOWED # ARMENIAN SMALL LIGATURE MEN NOW..ARMENIAN SM
FB18..FB1C  ; UNASSIGNED # <reserved>..<reserved>
FB1D        ; DISALLOWED # HEBREW LETTER YOD WITH HIRIQ
FB1E        ; PVALID  # HEBREW POINT JUDEO-SPANISH VARIKA
FB1F..FB36  ; DISALLOWED # HEBREW LIGATURE YIDDIH YOD YOD PATAH..HEBRE
FB37        ; UNASSIGNED # <reserved>
FB38..FB3C  ; DISALLOWED # HEBREW LETTER TET WITH DAGESH..HEBREW LETTER
FB3D        ; UNASSIGNED # <reserved>
FB3E        ; DISALLOWED # HEBREW LETTER MEM WITH DAGESH
FB3F        ; UNASSIGNED # <reserved>
FB40..FB41  ; DISALLOWED # HEBREW LETTER NUN WITH DAGESH..HEBREW LETTER
FB42        ; UNASSIGNED # <reserved>
FB43..FB44  ; DISALLOWED # HEBREW LETTER FINAL PE WITH DAGESH..HEBREW L
FB45        ; UNASSIGNED # <reserved>
FB46..FBC1  ; DISALLOWED # HEBREW LETTER TSADI WITH DAGESH..ARABIC SYM
FBC2..FBD2  ; UNASSIGNED # <reserved>..<reserved>
FBD3..FDF5  ; DISALLOWED # ARABIC LETTER NG ISOLATED FORM..ORNATE RIGHT
FD40..FD4F  ; UNASSIGNED # <reserved>..<reserved>
FD50..FD8F  ; DISALLOWED # ARABIC LIGATURE TEH WITH JEEM WITH MEEM INIT
FD90..FD91  ; UNASSIGNED # <reserved>..<reserved>
FD92..FDC7  ; DISALLOWED # ARABIC LIGATURE MEEM WITH JEEM WITH KHAH INI
FDC8..FDFF  ; UNASSIGNED # <reserved>..<reserved>
FDF0..FDFD  ; DISALLOWED # <noncharacter>..ARABIC LIGATURE BISMILLAH AR
FDFE..FDFF  ; UNASSIGNED # <reserved>..<reserved>
FE00..FE19  ; DISALLOWED # VARIATION SELECTOR-1..PRESENTATION FORM FOR
FE1A..FE1F  ; UNASSIGNED # <reserved>..<reserved>
FE20..FE2F  ; PVALID  # COMBINING LIGATURE LEFT HALF..COMBINING CYRI
FE30..FE52  ; DISALLOWED # PRESENTATION FORM FOR VERTICAL TWO DOT LEADE
FE53        ; UNASSIGNED # <reserved>
FE54..FE66  ; DISALLOWED # SMALL SEMICOLON..SMALL EQUALS SIGN
101A0 ; DISALLOWED # GREEK SYMBOL TAU RHO
101A1..101CF; UNASSIGNED # <reserved>..<reserved>
101D0..101FC; DISALLOWED # PHAISTOS DISC SIGN PEDESTRIAN..PHAISTOS DISC
101FD ; PVALID # PHAISTOS DISC SIGN COMBINING OBLIQUE STROKE
101FE..1027F; UNASSIGNED # <reserved>..<reserved>
10280..1029C; PVALID # LYCIAN LETTER A..LYCIAN LETTER X
1029D..1029F; UNASSIGNED # <reserved>..<reserved>
102A0..102D0; PVALID # CARIAN LETTER A..CARIAN LETTER UUU3
102D1..102DF; UNASSIGNED # <reserved>..<reserved>
102E0 ; PVALID # COPTIC EPECT THOUSANDS MARK
102E1..102FB; DISALLOWED # COPTIC EPECT DIGIT ONE..COPTIC EPECT NUMBER
102FC..102FF; UNASSIGNED # <reserved>..<reserved>
10300..1031F; PVALID # OLD ITALIC LETTER A..OLD ITALIC LETTER ESS
10320..1032C; DISALLOWED # OLD ITALIC NUMERAL ONE..OLD ITALIC NUMERAL F
10324..1032F; UNASSIGNED # <reserved>..<reserved>
1032D..10340; PVALID # OLD ITALIC LETTER YE..GOTHIC LETTER PAIRTHRA
10341 ; DISALLOWED # GOTHIC LETTER NINETY
10342..10349; PVALID # GOTHIC LETTER RAID..GOTHIC LETTER OTHAL
1034A ; DISALLOWED # GOTHIC LETTER NINE HUNDRED
1034B..1034F; UNASSIGNED # <reserved>..<reserved>
10350..1037A; PVALID # OLD PERMIC LETTER AN..COMBINING OLD PERMIC L
1037B..1037F; UNASSIGNED # <reserved>..<reserved>
10380..1039D; PVALID # UGARITIC LETTER ALPA..UGARITIC LETTER SSU
1039E ; UNASSIGNED # <reserved>
1039F ; DISALLOWED # UGARITIC WORD DIVIDER
103A0..103C3; PVALID # OLD PERSIAN SIGN A..OLD PERSIAN SIGN HA
103C4..103C7; UNASSIGNED # <reserved>..<reserved>
103C8..103CF; PVALID # OLD PERSIAN SIGN AURAMAZDA..OLD PERSIAN SIG
103D0..103DF; DISALLOWED # OLD PERSIAN WORD DIVIDER..OLD PERSIAN NUMBER
103DE..103FF; UNASSIGNED # <reserved>..<reserved>
10400..10427; DISALLOWED # DESERET CAPITAL LETTER LONG I..DESERET CAPIT
10428..1049D; PVALID # DESERET SMALL LETTER LONG I..OSMANYA LETTER
1049E..1049F; UNASSIGNED # <reserved>..<reserved>
104A0..104A9; PVALID # OSMANYA DIGIT ZERO..OSMANYA DIGIT NINE
104AA..104AF; UNASSIGNED # <reserved>..<reserved>
104B0..104D3; DISALLOWED # OSAGE CAPITAL LETTER A..OSAGE CAPITAL LETTER
104D4..104D7; UNASSIGNED # <reserved>..<reserved>
104DA..104F8; PVALID # OSAGE SMALL LETTER A..OSAGE SMALL LETTER ZHA
104FC..104FF; UNASSIGNED # <reserved>..<reserved>
10500..10527; PVALID # ELBASAN LETTER A..ELBASAN LETTER KHE
10528..1055F; UNASSIGNED # <reserved>..<reserved>
10530..10563; PVALID # CAUCASIAN ALBANIAN LETTER ALT..CAUCASIAN ALB
10564..1056E; UNASSIGNED # <reserved>..<reserved>
1056F ; DISALLOWED # CAUCASIAN ALBANIAN CITATION MARK
10570..1057F; UNASSIGNED # <reserved>..<reserved>
10580..1073F; 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..1077F; UNASSIGNED  # <reserved>..<reserved>
10800..1080F; PVALID  # CYPRIOIT SYLLABLE A..CYPRIOIT SYLLABLE JA
10806..10807; UNASSIGNED  # <reserved>..<reserved>
10808  ; PVALID  # CYPRIOIT SYLLABLE JO
10809  ; UNASSIGNED  # <reserved>
1080A..1083F; PVALID  # CYPRIOIT SYLLABLE KA..CYPRIOIT SYLLABLE WO
10836  ; UNASSIGNED  # <reserved>
10837..1083B; PVALID  # CYPRIOIT SYLLABLE XA..CYPRIOIT SYLLABLE XE
10839..1083B; UNASSIGNED  # <reserved>..<reserved>
1083C  ; PVALID  # CYPRIOIT SYLLABLE ZA
1083D..1083E; UNASSIGNED  # <reserved>..<reserved>
1083F..10855; PVALID  # CYPRIOIT SYLLABLE ZO..IMPERIAL ARAMAIC LETTER
10856  ; UNASSIGNED  # <reserved>
10857..1085F; DISALLOWED  # IMPERIAL ARAMAIC SECTION SIGN..IMPERIAL ARAM
10860..1087F; PVALID  # PALMYRENE LETTER ALEPH..PALMYRENE LETTER TAW
10877..1087F; DISALLOWED  # PALMYRENE LEFT-POINTING FLEURON..PALMYRENE N
10880..1088E; PVALID  # NABATAEAN LETTER FINAL ALEPH..NABATAEAN LETT
1089F..108AE; 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; UNASSIGNED  # <reserved>..<reserved>
10900..1091F; PVALID  # PHOENICIAN LETTER ALF..PHOENICIAN LETTER TAU
10916..1091E; UNASSIGNED  # <reserved>..<reserved>
1091F  ; DISALLOWED  # PHOENICIAN WORD SEPARATOR
10920..1093F; 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
10988..109BB; UNASSIGNED  # <reserved>..<reserved>
109BC..109BD; DISALLOWED  # MEROITIC CURSIVE FRACTION ELEVEN TWELFTHS..M
109BE..109BF; PVALID  # MEROITIC CURSIVE LOGOGRAM RMT..MEROITIC CURS
109C0..109CF; DISALLOWED  # MEROITIC CURSIVE NUMBER ONE..MEROITIC CURSIV
109D0..109D1; UNASSIGNED  # <reserved>..<reserved>
109D2..109FF; DISALLOWED  # MEROITIC CURSIVE NUMBER ONE HUNDRED..MEROITI
10A00..10A03; PVALID  # KHAHOSHTHI LETTER A..KHAHOSHTHI VOWEL SIGN V
10A04  ; UNASSIGNED  # <reserved>
10A05..10A06; PVALID  # KHAHOSHTHI VOWEL SIGN E..KHAHOSHTHI VOWEL SI
10A07..10A0B; UNASSIGNED  # <reserved>..<reserved>
10A0C..10A13; PVALID  # KHAHOSHTHI VOWEL LENGTH MARK..KHAHOSHTHI LET
10A14  ; UNASSIGNED  # <reserved>
10A15..10A17; PVALID # Kharoshthi letter ca..Kharoshthi letter ja
10A18 ; UNASSIGNED # <reserved>
10A19..10A35; PVALID # Kharoshthi letter nya..Kharoshthi letter vha
10A36..10A37; UNASSIGNED # <reserved>..<reserved>
10A38..10A3A; PVALID # Kharoshthi sign bar above..Kharoshthi sign d
10A3B..10A3E; UNASSIGNED # <reserved>..<reserved>
10A3F ; PVALID # Kharoshthi virama
10A40..10A48; DISALLOWED # Kharoshthi digit one..Kharoshthi fraction on
10A49..10A4F; UNASSIGNED # <reserved>..<reserved>
10A50..10A58; DISALLOWED # Kharoshthi punctuation dot..Kharoshthi punct
10A59..10A5F; UNASSIGNED # <reserved>..<reserved>
10A60..10A67; PVALID # Old South Arabian letter he..Old South Arabic
10A7D..10A7F; DISALLOWED # Old South Arabian number one..Old South Arabic
10A80..10A89C; PVALID # Old North Arabian letter heh..Old North Arabic
10A9D..10A9F; DISALLOWED # Old North Arabian number one..Old North Arabic
10AA0..10ABF; UNASSIGNED # <reserved>..<reserved>
10AC0..10AC7; PVALID # Manichaean letter aleph..Manichaean letter w
10AC8 ; DISALLOWED # Manichaean sign ud
10AC9..10AEE6; PVALID # Manichaean letter zayin..Manichaean abbreviation
10AE7..10AEEA; UNASSIGNED # <reserved>..<reserved>
10AEB..10AF6; DISALLOWED # Manichaean number one..Manichaean punctuation
10AFF7..10AFF; UNASSIGNED # <reserved>..<reserved>
10B00..10B35; PVALID # Avestan letter a..Avestan letter he
10B36..10B38; UNASSIGNED # <reserved>..<reserved>
10B39..10B3E; DISALLOWED # Avestan abbreviation mark..Large one ring ov
10B40..10B55; PVALID # Inscriptional Parthian letter aleph..Inscripti
10B56..10B57; UNASSIGNED # <reserved>..<reserved>
10B58..10B5F; DISALLOWED # Inscriptional Parthian number one..Inscripti
10B60..10B72; PVALID # Inscriptional Pahlavi letter aleph..Inscripti
10B73..10B77; UNASSIGNED # <reserved>..<reserved>
10B78..10B87F; DISALLOWED # Inscriptional Pahlavi number one..Inscripti
10B80..10BA9F; PVALID # Psalter Pahlavi letter aleph..Psalter Pahlav
10B92..10B98; UNASSIGNED # <reserved>..<reserved>
10B99..10B9F; DISALLOWED # Psalter Pahlavi section mark..Psalter Pahlav
10B9D..10BA8; UNASSIGNED # <reserved>..<reserved>
10B9A..10BAA; DISALLOWED # Psalter Pahlavi number one..Psalter Pahlav
10BB0..10BFF; UNASSIGNED # <reserved>..<reserved>
10C00..10C48; PVALID # Old Turkic letter orkhon a..Old Turkic letter
10C49..10C7F; UNASSIGNED # <reserved>..<reserved>
10C80..10CBB2; DISALLOWED # Old Hungarian capital letter a..Old Hungaria
10CB3..10CFF; UNASSIGNED # <reserved>..<reserved>
10CC0..10CFF2; PVALID # Old Hungarian small letter a..Old Hungarian
10CF3..10CFF9; 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>
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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>
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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
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1132A..11330; PVALID  # GRANTHA LETTER PA..GRANTHA LETTER RA
11331; UNASSIGNED  # <reserved>
11332..11333; PVALID  # GRANTHA LETTER LA..GRANTHA LETTER LLA
11334; UNASSIGNED  # <reserved>
11335..11339; PVALID  # GRANTHA LETTER VA..GRANTHA LETTER HA
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1133B..11344; PVALID  # COMBINING BINDU BELOW..GRANTHA VOWEL SIGN VO
11345..11346; UNASSIGNED  # <reserved>..<reserved>
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11358..1135C; UNASSIGNED  # <reserved>..<reserved>
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11364..11365; UNASSIGNED  # <reserved>..<reserved>
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1136D..1136F; UNASSIGNED  # <reserved>..<reserved>
11370..11374; PVALID  # COMBINING GRANTHA LETTER A..COMBINING GRANTHAVIRAMA
11375..113FF; UNASSIGNED # <reserved>..<reserved>
11400..1144A; PVALID # NEWA LETTER A..NEWA SIDDHI
1144B..1144F; DISALLOWED # NEWA DANDA..NEWA ABBREVIATION SIGN
11450..11459; PVALID # NEWA DIGIT ZERO..NEWA DIGIT NINE
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1145D ; DISALLOWED # NEWA INSERTION SIGN
1145E ; PVALID # NEWA SANDHI MARK
1145F..1147F; UNASSIGNED # <reserved>..<reserved>
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114C6 ; DISALLOWED # TIRHUTA ABBREVIATION SIGN
114C7 ; PVALID # TIRHUTA OM
114C8..114CF; UNASSIGNED # <reserved>..<reserved>
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115B6..115B7; UNASSIGNED # <reserved>..<reserved>
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115C1..115D7; DISALLOWED # SIDDHAM SIGN SIDDHAM..SIDDHAM SECTION MARK W
115D8..115D9; PVALID # SIDDHAM LETTER THREE-CIRCLE ALTERNATE I..SID
115DE..115FF; UNASSIGNED # <reserved>..<reserved>
11600..11640; PVALID # MODI LETTER A..MODI SIGN ARDHACANDRA
11641..11643; DISALLOWED # MODI DANDA..MODI ABBREVIATION SIGN
11644 ; PVALID # MODI SIGN HUVA
11645..1164F; UNASSIGNED # <reserved>..<reserved>
11650..11659; PVALID # MODI DIGIT ZERO..MODI DIGIT NINE
1165A..1165F; UNASSIGNED # <reserved>..<reserved>
11660..1166C; DISALLOWED # MONGOLIAN BIRGA WITH ORNAMENT..MONGOLIAN TUR
1166D..1167F; UNASSIGNED # <reserved>..<reserved>
11680..116B7; PVALID # TAKRI LETTER A..TAKRI SIGN NUKTA
116B8..116BF; UNASSIGNED # <reserved>..<reserved>
116C0..116C9; PVALID # TAKRI DIGIT ZERO..TAKRI DIGIT NINE
116CA..116FF; UNASSIGNED # <reserved>..<reserved>
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1171B..1171C; UNASSIGNED # <reserved>..<reserved>
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1172C..1172F; UNASSIGNED # <reserved>..<reserved>
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1173A..1173F; DISALLOWED # AHOM NUMBER TEN..AHOM SYMBOL VI
11740..1177F; UNASSIGNED # <reserved>..<reserved>
11800..1183A; PVALID # DOGRA LETTER A..DOGRA SIGN NUKTA
1183B ; DISALLOWED # DOGRA ABBREVIATION SIGN
1183C..1189F; UNASSIGNED # <reserved>..<reserved>
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118C0..118E9; PVALID # WARANG CILI SMALL LETTER NGAA..WARANG CILI D
118EA..118F2; DISALLOWED # WARANG CILI NUMBER TEN..WARANG CILI NUMBER N
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12478..1247F; UNASSIGNED  # <reserved>..<reserved>
12480..12543; PVALID  # CUNEIFORM SIGN AB TIMES NUN TENU..CUNEIFORM SIGN AB TIMES NUN TENU
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16A40..16A5E; PVALID  # MRO LETTER TA..MRO LETTER TEK
16A5F; UNASSIGNED  # <reserved>
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1EE34..1EE37; DISALLOWED # ARABIC MATHEMATICAL INITIAL SHEEN..ARABIC MA-
1EE38 ; UNASSIGNED # <reserved>
1EE39 ; DISALLOWED # ARABIC MATHEMATICAL INITIAL DAD
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1EE3B ; DISALLOWED # ARABIC MATHEMATICAL INITIAL GHAIN
1EE3C..1EE41; UNASSIGNED # <reserved>..<reserved>
1EE42; DISALLOWED # ARABIC MATHEMATICAL TAILED JEEM
1EE43..1EE46; UNASSIGNED # <reserved>..<reserved>
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1EE48; UNASSIGNED # <reserved>
1EE49; DISALLOWED # ARABIC MATHEMATICAL TAILED YEH
1EE4A; UNASSIGNED # <reserved>
1EE4B; DISALLOWED # ARABIC MATHEMATICAL TAILED LAM
1EE4C; UNASSIGNED # <reserved>
1EE4D..1EE4F; DISALLOWED # ARABIC MATHEMATICAL TAILED NOON..ARABIC MATH
1EE50; UNASSIGNED # <reserved>
1EE51..1EE52; DISALLOWED # ARABIC MATHEMATICAL TAILED SAD..ARABIC MATHE
1EE53; UNASSIGNED # <reserved>
1EE54; DISALLOWED # ARABIC MATHEMATICAL TAILED SHEEN
1EE55..1EE56; UNASSIGNED # <reserved>..<reserved>
1EE57; DISALLOWED # ARABIC MATHEMATICAL TAILED KHAH
1EE58; UNASSIGNED # <reserved>
1EE59; DISALLOWED # ARABIC MATHEMATICAL TAILED DAD
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1EE64; DISALLOWED # ARABIC MATHEMATICAL STRETCHED HEH
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1EE6C..1EE72; DISALLOWED # ARABIC MATHEMATICAL STRETCHED MEEM..ARABIC M
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1EE74..1EE77; DISALLOWED # ARABIC MATHEMATICAL STRETCHED SHEEN..ARABIC
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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
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1EEAB..1EEBB; DISALLOWED # ARABIC MATHEMATICAL DOUBLE-STRUCK LAM..ARABI
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1F90C..1F90F; UNASSIGNED # <reserved>..<reserved>
1F910..1F93E; DISALLOWED # ZIPPER-MOUTH FACE..HANDBALL
1F93F ; UNASSIGNED # <reserved>
1F940..1F970; DISALLOWED # WILTED FLOWER..SMILING FACE WITH SMILING EYE
1F971..1F972; UNASSIGNED # <reserved>..<reserved>
1F973..1F976; DISALLOWED # FACE WITH PARTY HORN AND PARTY HAT..FREEZING
1F977..1F979; UNASSIGNED # <reserved>..<reserved>
1F97A ; DISALLOWED # FACE WITH PLEADING EYES
1F97B ; UNASSIGNED # <reserved>
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1F993..1F99F; UNASSIGNED # <reserved>..<reserved>
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E0020..E007F; DISALLOWED # TAG SPACE..CANCEL TAG
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EFFFE..10FFFF; DISALLOWED # <noncharacter>..<noncharacter>

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