

# DRAFT - An alternative to the current ISO/IEC 9995-3

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**Note:** If this document is supplied in Microsoft Word® or RTF format, the following fonts must be installed to read this document correctly (all fonts are obtainable for free at least by a non-commercial license; the version numbers listed are the minimum version numbers):

- Cardo (version 0.98) from:  
<http://scholarsfonts.net/cardofnt.htm>
- DejaVu Sans, DejaVu Sans Mono, DejaVu Serif (all version 2.26) from:  
[http://dejavu.sourceforge.net/wiki/index.php/Main\\_Page](http://dejavu.sourceforge.net/wiki/index.php/Main_Page)
- Ezra SIL SR (version 2.5.1) from:  
[http://scripts.sil.org/cms/scripts/page.php?site\\_id=nrsi&item\\_id=EzraSIL\\_Home](http://scripts.sil.org/cms/scripts/page.php?site_id=nrsi&item_id=EzraSIL_Home)
- Mars-Fraktur (TrueType) from (page in German):  
<http://www.romana-hamburg.de/Fraktur.htm>
- RomanCyrillic Std (version 2008-04-20) from:  
<http://kodeks.uni-bamberg.de/AKSL/Schrift/RomanCyrillicStd.htm>

## Foreword

– to be copied from the actual version if ISO/IEC 9995-1 –

### 1. Scope

Within the general scope described in part 1 of ISO/IEC 9995, this DRAFT defines the allocation on a keyboard of a set of graphic characters which, when used in combination with an existing national version keyboard layout, allows the input of a minimum character repertoire as defined below.

This repertoire is intended to contain all characters needed to write all contemporary languages using the Latin script, together with standardized Latin transliterations of some major languages using other scripts.

Also, it contains all symbols and punctuation marks contained in ISO 8859-1, together with some selected other ones commonly used in typography and office use.

It also contains characters of some other scripts (Greek, Cyrillic, Armenian, Georgian, Hebrew) without the intent to cover all minority languages using these scripts.

It provides means to include other scripts (e.g. Arabic, Devanagari) in future versions of this Standard.

Furthermore, it contains the International Phonetic Alphabet (IPA).

This DRAFT is primarily intended for word-processing and text-processing applications.

### 2. Conformance

The layout of a keyboard conforms to this DRAFT if it meets all of the following conditions:

- It is either a Latin keyboard, or a Latin-conformant keyboard, as defined in clause 3 of this DRAFT.
- It is either a compact keyboard, or a full keyboard, as defined in clause 3 of this DRAFT.
- The comma, dot, and dash are associated with three different keys, which are also different from the keys associated with the digits 0 ... 9.

*Note 1: There is no requirement about the group or level where the comma, dot, and dash are in.*

*Note 2: For a "full keyboard", this is already fulfilled by the definition of this term.*

- There is a special appliance called (*in this DRAFT*) "Supershift", which, when (according to the layout) either operated (i.e. pressed if it is a key) together with any A to Z key, or followed by the actuation of any A to Z key, performs the function according to the table in Clause 5.  
*Note: The "Supershift" may be a single key or a special sequence of other keys to be input, e.g. the Level 2 selector followed by the Level 3 selector. On a full keyboard, this function may be dedicated to an existing "AltGr" key if this key has no other uses conflicting with the "Supershift" function, but this is in no ways a requirement of this DRAFT.*

Furthermore, the software driving the keyboard has to fulfill the following requirements to make the keyboard conform to this DRAFT:

- The keyboard is intended to output valid Unicode characters and valid sequences thereof.

- If the keyboard has a Backspace key, this operates as follows: When pressed directly after a group selector, a mode switching key, or a level selector which does not act by simultaneous pressing with the concerned key, it simply cancels that group selection, mode switching, or level selection.
- If the keyboard is a full keyboard, the Supershift appliance operated together with a digit key or the keys associated with comma, dot, or dash (instead of an A to Z key, but in the same manner otherwise) directly effects the according character of Group DW (see below).

*Note: This provides an ergonomic shortcut to all diacritical marks used in Latin written majority languages.*

If it is a Hebrew keyboard which also is a full Hebrew-compatible keyboard, the same may apply with Group HW instead of Group DW.

- Any of the groups contained in the tables in Clause 5 and specified in the subsequent text are contained in the layout. The groups may contain additional characters associated with other keys than in the tables as long as any listed pairing of D-Groups and L-Groups is unaffected.

*Note: It is not specified in this DRAFT part which characters or symbols are in fact to be engraved on the keyboard.*

Any statement of conformance to this International Standard shall be taken to imply that the complete character repertoire of the IPA table in Appendix C and of all groups listed in Clause 5 has been implemented, with the exception that the group YY (Compatibility characters and symbols) may be implemented only partially or not at all.

- *Note: Such statements of conformance may be made for fonts.*

*If such a statement of conformance for a font is made in connection with one or more of the terms:*

*"Latin", "Greek", "Cyrillic", "Armenian", "Georgian", "Hebrew", "IPA",*

*this shall be taken to imply that the character repertoire(s) listed in Appendix D under the correspondingly named headers D.2.2 to D.2.8 has/have to be supplied by the font,*

*and, as long as any of the listed terms except "IPA" is applied, this shall be taken to imply that also the character repertoire listed there under D.2.1 "Digits, punctuation and symbols" has to be supplied by the font.*

*In no case, there is an implication whether the character repertoire listed under D.2.9 "Compatibility characters and symbols" is supplied completely, partially or not at all by the font.*

### 3. Terms and Definitions

- 3.1. "actuate" a character: selecting a character by selecting the appropriate group and level (if necessary) and pressing the key itself.
- 3.2. "associated with": A key is associated with a character (or function) if it is used to enter that character (or to call that function), regardless of any level or group selection to be done before.
- 3.3. "A to Z key": key "associated with" any Latin letter A...Z.
- 3.4. "base character": any graphic symbol which is not a diacritical mark and not a diacritical-neutral character.
- 3.5. "base mode": see "mode"
- 3.6. "comma": The Unicode character U+002C COMMA
- 3.7. "compact keyboard": keyboard which has at least the following 27 different keys:  
26 keys for the Latin letters A...Z, and a Space key, and an Enter key;  
and which has an appliance to select Level 2,  
and which has an appliance to select Level 3,  
and where the digits 0...9 have no own keys but are contained in Level 3 of Group 1.  
(See also: "full keyboard").
- 3.8. "Complementary Group": A "D-Group" (or an "extended D-Group") and a "L-Group" may be paired as "complementary groups" in a way that on a full keyboard, they may be unified by incorporating the full content of the other group of the pair.  
*NOTE: This doubles the input possibilities for the characters contained in the paired groups, but may be useful especially when the contents of such a pair are engraved on the keys according to the rules for a single group.*
- 3.9. "Cyrillic keyboard": keyboard with a layout which predominantly contains Cyrillic letters in Group 1.
- 3.10. "D-Group": A group which declares characters associated to the levels 1 and 2 of any digit key, where the association to the levels are independent of the level to which the digits themselves in their group (usually Group 1) are associated.  
(See also: "Extended D-Group", "L-Group", "Complementary Group")
- 3.11. "dash": the Unicode character U+002D HYPHEN-MINUS
- 3.12. "dead key": a "diacritical key" which acts as described in Clause 6.  
*Note: These are the characters contained in and selected by the Groups DW and HW, and the Groups DD and*

*DI when latched to by Supershift+D, and the characters selected on full keyboards by the combinations Supershift + digit key / comma / dot / dash as described in Clause 2..*

- 3.13. "diacritical key": key associated with a diacritical mark (see Clause 5), when actuating this diacritical mark.
- 3.14. "diacritical-neutral character": any Unicode character which may influence the appearance of other characters without having any graphic representation itself. Contained in the supplementary character collection, this are U+200C ZERO WIDTH NON-JOINER (ZWNJ) and U+034F COMBINING GRAPHEME JOINER (CGJ). Other examples are U+200D ZERO WIDTH JOINER (ZWJ) or any Unicode variant selectors.
- 3.15. "digit key": key "associated with" any digit 0 ... 9.
- 3.16. "dot": the Unicode character U+002E FULL STOP
- 3.17. "Enter key": key which is associated with a Enter or Return function.
- 3.18. "Extended D-Group": A group which declares characters associated to the levels 1 and 2 of any digit key and the keys associated with comma/dot/dash, where the association to the levels are independent of the level to which the digits resp. comma/dot/dash themselves in their group (usually Group 1) are associated. (See also: "D-Group", "L-Group", "Complementary Group")
- 3.19. "full Hebrew-compatible keyboard": a "full keyboard" which also has 3 keys associated with the ASCII characters "~", "=", and "\", different to the 41 keys listed in the definition of the "full keyboard".
- 3.20. "full keyboard": keyboard which has at least the following 42 different keys:
  - 26 keys for the Latin letters A...Z,
  - 10 keys for the digits 0...9 (for entering them in Level 1 or 2 of Group 1),
  - 3 keys associated with the characters comma, dot, and dash (preferably but not necessarily for entering them in Level 1 or 2 of Group 1)
  - a Space key,
  - an Enter key,
  - and a Level 2 selector key (*Note: such a key is usually called a "Shift key"*).(See also: "compact keyboard").
- 3.21. "Hebrew keyboard": keyboard with a layout which predominantly contains Hebrew letters in Group 1.
- 3.22. to "latch" to a group: selecting a group in a way that only the next key actuation is affected, selecting the previously selected group (the "reference group") again automatically after having yielded the effect of that key effected a level selection, in which case the previously selected group is selected again after having yielded the effect of the subsequent key.
- 3.23. "L-Group": A group which declares characters associated to the levels 1 and 2 of any A to Z key. (See also: "D-Group", "Extended D-Group", "Complementary Group")
- 3.24. "Latin keyboard": keyboard with a layout which has all Latin lowercase letters a...z (U+0061...U+007A) in Group 1 Level 1, and all Latin uppercase letters "A...Z" (U+0041...U+005A) in Group 1 Level 2, each uppercase letter being associated with the same key as its lowercase counterpart, and which has a Level 2 selector key which is either to be pressed simultaneously with the letter key or separately immediately before the pressing of the letter key, to select Level 2.
- 3.25. "Latin-conformant keyboard": keyboard with a layout which has all Latin letters a...z and A...Z in a single other group than Group 1, where that group can be selected permanently, and which otherwise behaves as a Latin keyboard as long as that group is selected.
- 3.26. "mode": a state which determines the effects of all the keys of a keyboard. In the "base mode", the keys have their usual functions (selecting characters according to the active group and level, etc.). All other modes are "special modes", where the function of the keys are defined by the description of the mode.
- 3.27. "non-diacritical key": key associated with a graphic symbol which is not a diacritical mark and not a diacritical-neutral character, when actuating this graphic symbol.
- 3.28. "reference group": see "latch" and "switch"
- 3.29. "reference group switching mode": a "special mode" where the next key pressing either "switches" to a group (thus selecting a "reference group") or has no effect (besides generating an error signal to the user) if no group is provided to be switched to when pressing that key
- 3.30. "Space key": key which is associated with the character U+0020 SPACE.
- 3.31. "special mode": see "mode"
- 3.32. "supplementary groups": The groups defined in this document.
- 3.33. "supplementary character collection": All characters contained in any of the supplementary groups.
- 3.34. "Supershift": an appliance (key, key combination, or other appliance) as described in Clause 2.

- 3.35. to "switch" to a group or mode: selecting a group or a mode which then stays in effect until another group or mode is selected (thus, when switching to a group, selecting a new "reference group")
- 3.36. "symbol" (if not used within the term "graphic symbol" as defined in ISO/IEC 9995-1): Any graphic symbol which is neither a letter nor a digit nor a punctuation mark.

Additionally, for the purposes of this DRAFT, the terms and definitions given in ISO/IEC 9995-1 apply

## 4. Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 9995. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 9995 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

- ISO/IEC 646:1991, Information technology — ISO 7-bit coded character set for information interchange.
- ISO/IEC 9995-1:2006, Information technology — Keyboard layouts for text and office systems — Part 1: General principles governing keyboard layouts.
- ISO/IEC 10646-1: 2003 Information technology – Universal Multiple-Octet Coded Character Set (UCS) – Part 1: Architecture and Basic Multilingual Plane.
- Unicode 5.1: The Unicode Consortium. The Unicode Standard, Version 5.1.0, defined by: The Unicode Standard, Version 5.0 (Boston, MA, Addison-Wesley, 2007. ISBN 0-321-48091-0), as amended by Unicode 5.1.0 (<http://www.unicode.org/versions/Unicode5.1.0/>).

*Note: The following characters referred to in this DRAFT are not contained in Unicode 5.1 but are accepted for a future version of Unicode (therefore, the final code points may change):*

U+0524 CYRILLIC CAPITAL LETTER PE WITH DESCENDER  
 U+0525 CYRILLIC SMALL LETTER PE WITH DESCENDER  
 U+0526 CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER  
 U+0527 CYRILLIC SMALL LETTER SHHA WITH DESCENDER  
 U+1DFD COMBINING ALMOST EQUAL TO BELOW  
 U+20B8 TENGE SIGN  
 U+A78D LATIN CAPITAL LETTER TURNED H

Furthermore, the following document, while not being a formal international standard, is used as a formal reference:

- IPA: Handbook of the International Phonetic Association. Cambridge 1999 (reprinted 2003). ISBN 0 521 63751 1: Appendix 2: Computer coding of IPA symbols (pp. 161-185).

## 5. Groups and Modes

The groups in this DRAFT are denoted by a single Latin letter (if such a group is to be primarily used as a "reference group" which can be "switched" to, which does not exclude that such a group can also be "latched" to) of a combination of two Latin letters (if such a group is primarily designed to be "latched to"). For the latter ones, the first letter either denotes the single-letter-named group to which its content is related, or "D" for diacritics, or "Y" for symbols (including digits).

The Group denotings "N" and all two letter combinations containing a "N" are reserved for national standards based on this DRAFT and thus will not be used in future versions of this DRAFT.

The group number according to ISO/IEC 9995-1 is computed for the former groups as "letter number × 100", for the latter groups as "first letter number × 100 + second letter number", where "letter number" is 1 for A, 2 for B, and so on until 26 for Z (e.g. "Group G" is "Group 700", "Group GE" is "Group 705").

Thus, this DRAFT defines groups within the number range from "Group 100" to "Group 2626" (not filling this number range contiguously).

**Table 5.1:**

This table lists the Groups denoted by single Latin letters (all these groups are "L-Groups").

Key	"Reference group" selected by the key in the "reference group switching mode"
Q	Group Q (Georgian). — Note: "G" selects Greek.
W	Group W (Armenian). — Note: "A" is reserved to select Arabic.
E	Reserved for future use.

R	<i>Reserved for future use.</i>
T	<i>Reserved for future use.</i>
Y	<i>Reserved for future use.</i>
U	<i>Reserved for future use.</i>
I	<i>Reserved for future use.</i>
O	<i>Reserved for future use.</i>
P	<i>Reserved for future use.</i>
A	<i>Reserved for future use (preferably a Group A "Arabic")</i>
S	<i>Reserved for future use.</i>
D	<i>Reserved for future use (preferably a Group D "Devanagari")</i>
F	<i>Reserved for future use.</i>
G	Group G ("Greek")
H	Group H ("Hebrew")
J	<i>Reserved for future use.</i>
K	<i>Reserved for future use.</i>
L	Group L ("Latin")
Z	<i>Reserved for future use.</i>
X	<i>Reserved for future use.</i>
C	Group C ("Cyrillic")
V	<i>Reserved for future use.</i>
B	<i>Reserved for future use.</i>
N	<i>Reserved for future use.</i>
M	<i>Reserved for future use.</i>

**Table 5.2:**

The second table lists the other groups and the modes specified in this DRAFT, according to the letter key which is to be pressed after or together with the "Supershift" appliance, as described in Clause 2.

The column G denotes whether the group is a L-Group, a D-Group, or E for an Extended D-Group.

The column labeled "CG" denotes the Complementary Group of a group if such one exists.

<b>Key</b>	<b>Function performed by this key when used with the "Supershift" appliance</b>	<b>G</b>	<b>CG</b>
Q	Latches to Group LQ ("Hook below") when Group L (Latin) is the reference group.	L	
W	Latches to Group DW ("Diacritics as dead keys, by number keys"). Exception: Latches to Group HW ("Hebrew niqqud") when Group H (Hebrew) is the reference group, or when Group 1 is selected on a Hebrew keyboard.	E E	
E	Latches to Group LE ("Latin Extra Letters") when Group L (Latin) is the reference group. Latches to Group CE ("Cyrillic Extra Letters") when Group C (Cyrillic) is the reference group. Latches to Group GE ("Greek Extra Letters") when Group G (Greek) is the reference group. Latches to Group HE ("Hebrew Extra Letters") when Group H (Hebrew) is the reference group. Latches to Group WE ("Armenian Extra letters") when Group W (Armenian) is the ref. group.	L L L L L	
R	Latches to Group LR ("Raised Latin Characters")	L	YT
T	Latches to Group YT ("Digits Raised and Lowered")	D	LR
Y	Latches to Group YY ("Compatibility characters and symbols") <i>Note: This group needs not to be implemented completely by any device claiming conformance to this DRAFT; see Clause 2.</i>	L	
U	Switches to Mode "Unicode decimal"		

I	Switches to Mode "IPA" (International Phonetic Alphabet)		
O	Latches to Group YV ("Universal compatibility").		
P	Latches to Group YP ("Punctuation")	E	YS
A	Latches to Group YU ("Universal symbols and fractions"). <i>Note: The "A" is a mnemonic for "group containing the @".</i>	D	YM
S	Latches to Group YS ("Symbols")	L	YP
D	Latches to Group DD ("Diacritics" as Dead Key), treating the next key as dead key. Exception: Latches to Group DI ("Diacritics for IPA" as Dead Key) when the mode "IPA" is active, treating the next key as dead key.	L	
F	Latches to Group DD ("Diacritics" Following), treating the next key as independent Unicode character. Exception: Latches to Group DI ("Diacritics for IPA" Following) when the mode "IPA" is active, treating the next key as independent Unicode character.	L	
G	Latches to Group G ("Greek") <i>Note: This is useful to enter single Greek letters used as symbols.</i>	L	
H	Switches to Mode "Unicode hexadecimal"		
J	Latches to Group DS ("Spacing Diacritics") Exception: Latches to Group DJ ("Spacing Diacritics and Symbols for IPA") when the mode "IPA" is active.	L	DM
K	Switches to Mode "reference group switching mode" to switch to a group according to Table 5.1 by the subsequent key actuation <i>Note: The "K" is a mnemonic for "Keyboard selection".</i>		
L	Latches to Group GE ("Greek Extra Letters") <i>Note: This is useful to enter single Greek special letters used as symbols.</i>	L	
Z	Latches to Group LZ ("Horizontal Stroke") when Group L (Latin) is the reference group. Latches to Group CZ ("Cyrillic Church Slavonic Letters") when Group C (Cyrillic) is the reference group.	L	
X	Latches to Group LX ("Diagonal Stroke") when Group L (Latin) is the reference group. Latches to Group CX ("Cyrillic Additional Extra Letters") when Group C (Cyrillic) is the reference group.	L	
C	Latches to Group YC ("Currency symbols")	L	
V	Latches to Group LV ("Hook above") when Group L (Latin) is the reference group.	L	
B	Latches to Group DM ("Modifier letters")	D	DS
N	Latches to any Group NN ("National") if such a group is defined by a national standard (e.g. containing precomposed letters frequent in the concerned language[s]).	L	
M	Latches to Group YM ("Mathematical and extra symbols")	L	YU
[Space]	Switches to base mode and to Group 1 (whichever this is, depending on the national or manufacturer standard used)		
[Enter]	Function: Mode selection beyond the scope of this DRAFT (if the device supports such a function).		

Group L matches the basic Latin letters to itself (lowercase letters in Level 1, uppercase letters in Level 2), as well as the space and the digits (in Level 1).

All other groups are defined in Appendix B.

#### Remarks regarding the structure of the tables in Appendix B:

Rather than recurring to absolute positions on the keyboard, the additional characters are assigned to the 40 keys mentioned in Clause 3 which are denoted by the associated character enclosed in brackets, namely to [A] ... [Z], [0] ... [9], [comma], [dot], [dash], and [Space].

This implies that this DRAFT defines a means to identify the keys needed for the additional characters, rather than to define absolute locations.

For some characters, there is provided (in parentheses) one example of the languages which use it (such language examples are not intended to denote the only or most prominent of such languages) or another explanation of the use of that character.

## 6. Diacritical marks selected by "dead keys"

Diacritical marks are the characters contained in the supplementary character collection specified here which are combining characters as defined by Unicode. Also, any character in a Private Use Area of Unicode may be treated as a diacritical marks depending of the operating system.

Diacritical marks appear above or below certain letters, and all of them are non-spacing characters.

- Actuating a diacritical mark as a "dead key" or a sequence starting with a diacritical mark actuated as a "dead key" followed by any diacritical marks and/or diacritical-neutral characters, followed by actuating a base character key or any function key which is not a group or level selector, shall generate a sequence of Unicode character as follows:
  1. A character sequence is temporarily generated consisting of the actuated base character first (or, if a function key which is not a group or level selector was operated last, a U+00A0 NON-BREAKING SPACE instead), followed by the diacritical marks and diacritical-neutral characters in the order as actuated;
  2. then, on the temporary sequence, the Unicode NFC form is applied,
  3. then, the character sequence thus generated is output,
  4. then, if the last operated key was a function key which is not a group or level selector, that key will be treated accordingly.

It is recommended that the method used for the deletion of a character should also be used to cancel a partially constructed character, such as a diacritical mark without a following letter or a following Space character.

## 7. The special modes "Unicode Decimal" and "Unicode Hexadecimal"

These modes are to enter any valid Unicode character, by entering their code point values as decimal resp. hexadecimal number.

The mode "Unicode Decimal" works as follows:

- All actuations of keys associated with decimal digits are temporarily stored into a sequence representing a decimal number. When any other key except a Backspace key is pressed, then, if the decimal number contains at least one digit and represents a valid Unicode value, then the according character will be output. If not, then an U+FFFD OBJECT REPLACEMENT CHARACTER will be output, followed by the entered sequence of decimal digits. In any case, the temporary sequence will be cleared.

Then, if the other key pressed is not an Enter key, a Decimal Separator key or a Space key, the keyboard will be switched to base mode.

If the other key pressed is an Enter key, the keyboard will be switched to base mode, and the Enter key itself will not be processed further.

If the other key pressed is a Decimal Separator or a Space key, the mode "Unicode Decimal" will persist, and the Decimal Separator key resp. the Space key itself will not be processed further.

If a Backspace key is pressed, while the temporarily stored sequence is not empty, the last digit appended to that sequence will be dropped from that sequence.

If a Backspace key is pressed, while the temporarily stored sequence is empty, the effect is not defined by this DRAFT.

*Note: The underlying software is allowed to erase the last entered Unicode character from the input sequence but is not required to do so, as it is beyond the scope of this DRAFT what happens to characters on completion of entering.*

Thus, the user can enter any sequence of valid Unicode characters by entering their decimal code values, separated by Space or decimal separator (which is especially convenient if any numeric keypad is used), and terminated by Enter.

The mode "Unicode Hexadecimal" works accordingly. Hexadecimal digits are all decimal digits and A...F and a...f, not differentiating between upper and lower case.

However, if on a compact keyboard any decimal digit is associated with a key also associated with a letter A...F, the key when actuated without the Level 2 Selector key ("Shift key") active yields the decimal digit, while the same key actuated with the Level 2 selector key active yields the according hexadecimal digit A...F.

Valid Unicode characters must have hexadecimal values between 0 and 10FFFF. Also, their value must not be in the intervals D800...DFFF (Unicode surrogate points) and FDD0...FDEF (Unicode noncharacters), and their value modulo hexadecimal 10000 must not be FFFE or FFFF (values guaranteed not to be a Unicode character at all by Unicode).

— The operating system may provide more restrictions, e.g. usage of a code position in a specific version of Unicode.

## 8. The special mode "IPA"

This mode is to enter IPA characters (i.e. characters of the International Phonetic Alphabet; see the reference in Clause 4 which is furthermore referred to as the "Handbook") as defined in the Appendix 2 of the Handbook (IPA numbers 100 to 599 and 901 to 911).

Regarding the IPA characters 217-219, 517-518, 908-909, and the later added IPA character 184, new mappings to Unicode code points due to the development of Unicode since the release date of the Handbook are taken into account.

*Note: The "Extensions of the IPA: The ExtIPA chart" for the transcription of disordered speech (IPA numbers 601 to 799), as defined in Appendix 3 of the Handbook, are not covered by this DRAFT.*

This mode works as follows:

- Each IPA character can be entered by a sequence of two keys.

For a "Phonetic consonant/vowel symbol code" (IPA numbers 101 to 399), this is a sequence of a letter key followed by a digit key, which selects the character according to the table presented in Appendix C.

On a compact keyboard, the digit key may be pressed without actuating any group or level selector which would otherwise be necessary to select the digit as such.

The table in Appendix C also presents such key sequences for some other frequent IPA characters.

*Note: By this means, "ordinary schoolbook phonetics" which do not use other suprasegmentals than length marks and vertical strokes to indicate stress can be typed completely by using such sequences of a letter key + a digit key.*

- Invalid key sequences of letter and digit keys (i.e. either two keys where the first one is a digit key or the second one is a letter key, or a sequence of a letter key and a digit key referring to an empty entry in the table in Appendix C) yield the sequence of the two characters associated with these keys.
- The Enter key terminates the special mode "IPA"; it will not be processed further.  
If the Enter key is actuated after the entering of a letter key the letter associated with that key is yielded before.
- All keys other than letter and number keys work the same as when the special mode "IPA" is not selected.  
If such a key is actuated after the entering of a letter key the letter associated with that key is yielded before.  
*Note: Thus, a space is entered simply by actuating the Space key.*

Especially, it is possible to latch to other groups by using the "Supershift" appliance in the usual way.

Using "Supershift" to latch to the groups DI or DJ, all other IPA characters (i.e. "Phonetic diacritic and suprasegmental symbol codes" with IPA numbers 400 to 599, and "Transcription delimitation characters" with IPA numbers 901 to 911) can be selected.

- *Note: As the IPA characters 529 to 533 are not mapped onto single Unicode characters, they have to be entered as sequences of IPA characters 519 to 523 according to the Unicode Standard (reference see Clause 4), p.251-252:*
  - for IPA 529 (rising contour), enter IPA 523 then IPA 519,
  - for IPA 530 (falling contour), enter IPA 519 then IPA 523
  - for IPA 531 (high rising contour), enter IPA 521 then IPA 519
  - for IPA 532 (low rising contour), enter IPA 523 then IPA 521
  - for IPA 533 (rising-falling contour), enter IPA 523 then IPA 521 then IPA 523.

On a full keyboard, the following additional input simplifications apply:

- A sequence of a dot + a letter key yields the character associated with the letter key in Group DI Level 1.  
A sequence of a comma + a letter key yields the character associated with the letter key in Group DI Level 2, without having to actuate any level 2 selector.  
A sequence of a dash + a letter key yields the character associated with the letter key in Group DJ Level 1.  
A sequence of a key associated with any of the symbols "#", "+", "/", or "\", which is not also associated with a letter, digit, comma, dot, or dash, and a letter key yields the character associated with the letter key in Group DJ Level 2, without having to actuate any level 2 selector.
- If a letter key is followed by a letter key, the first letter key yields the associated letter, and the second letter key is treated as the first letter of a new sequence of a letter key + a digit key.
- If a digit key is actuated not as the second key of a sequence of a letter key + a digit key, it directly yields the digit.



## Appendix A: Informative Appendix

Note: The following character collections are mentioned in the Informative Appendix:

- MES-1 (Multilingual European Subset 1): collection 281 (titled MES-1) as specified in amendment 1 to ISO/IEC 10646:1-2000
- MES-2 (Multilingual European Subset 2): collection 282 (titled MES-2) as specified in amendment 1 to ISO/IEC 10646:1-2000
- WGL4 (Windows Glyph List Version 4.0) a set defined by Microsoft corporation; see <http://www.microsoft.com/typography/otspec/WGL4.htm>

### A1. Synopsis

This DRAFT is a complete revision of the current ISO/IEC 9995-3.

It does no longer specify any Group 2 (it uses only group numbers above 99), thus existing national standards based on the current or previous versions are not invalidated (but no longer supported by this DRAFT).

The DRAFT intends to standardize a way to enable any users of any national keyboard adhering to that standard to enter all letters of their language (as long as it is written in Latin letters), not confined to European languages.

Moreover, it includes the input of other characters and symbols used in business, educational, academic, legal, administrative and personal use.

Besides Latin, it also specifies a way to switch to the entering of Cyrillic, Greek, Hebrew, Armenian and Georgian texts. Future versions may include additional scripts like Arabic or Devanagari.

It contains all characters contained in MES-1, MES-2 and WGL4 (without being restricted to these sets), except characters only used for output (e.g. box drawing characters) and some obsolete characters (mostly of these are mapped to other characters by Unicode canonical equivalence). It also contains the Latin characters used in contemporary languages outside Europe, including these for transliterating into Latin from languages using other scripts.

It relies on the existing national keyboard layouts and does not define or recommend a worldwide or Pan-European layout. It is explicitly not intended to make national keyboard layouts or carefully designed keyboard layouts for any language superfluous.

It requires a set of distinctive keys associated with the 26 basic letters A...Z, a Space key, and an appliance to select Level 2 (usually a "shift key").

Thus, it is applicable to "compact" keyboards like these of PDAs, UMPCs (Ultra Mobile Personal Computers), Blackberry® devices, etc., requiring only that there are different keys associated with the 10 digits and the symbols "comma", "dot" and "dash" (the latter two a.k.a. "full stop" and "hyphen") which may be positioned on a level 3 on the same keys as the letters.

Of course, it is also applicable to full keyboards like standard PC keyboards, which have separate keys for associated with the 10 digits.

"Associated with" means that there is a way to identify a key by the character (usually having the character engraved on the key). It does not necessarily mean that the character is the basic one typed by that key (e.g. on Greek or Cyrillic keyboards where Latin letters are reached by a special Shift or function key).

All other characters can be entered by the way specified in the DRAFT. This may include a duplication for some characters which are already contained in the national keyboard layout.

All additional characters are organized into groups (except some IPA characters which are entered using the special mode "IPA"). Thus, each of those characters is described

by three values:

- its group,
- its association to a basic key [A]...[Z], [0]...[9], [·], [-], [space], [tab], [backspace]
- its level (1 = unshifted, 2 = shifted).

The common diacritical marks are associated to the digit keys and the symbols "comma", "dot" and "dash".

All diacritical marks above a letter (like the acute accent) are associated to the unshifted level, all below a letter (like the cedilla) are associated to the shifted level.

Thus, each common diacritical mark can be addressed and remembered as "above/below accent no. x" (or "dot accent", "dash accent" which are of course the dot resp. macron above/below; the "comma accent above" is the Vietnamese hook).

**Example:** The eng η/ŋ is group LE ("Latin, Extra letters"), level 1 (unshifted) for η, level 2 (shifted) for ŋ.

The group LE is selected by a special key or key combination ("Supershift"), which may be the AltGr key or another appliance specified by the national layout) + "E".

Diacritical marks can be entered as "dead keys" before the base letters, according to the method employed by several national standards. This is possible even for sequences of multiple diacritical marks. The DRAFT requires reordering the diacritical marks after the basic letters, applying Unicode normalization (see clause 6).

This method is also consistent to the entering of special marks which appear as diacritical mark keys to the user, but are in fact additional group selectors. These are the diagonal stroke, the horizontal stroke, the hook above and the hook below.

As letters with these marks are encoded in Unicode only as composed forms (unless letters with true diacritics which are representable in Unicode as sequences of separately encoded base letter + diacritic), those characters are supplied as their own groups.

**Example:** The Swedish å will be entered as above accent no. 0 (ring above) by Supershift + "0" key, then "a". It will yield the single character U+00E5 by normalization.

**Example:** The Yorùbá ē will be entered as "above dash accent" (i.e. Supershift + "-" unshifted) + "below accent no. 5" (i.e. Supershift + "5" shifted, whatever "5 + shift" means on the national keyboard) + "e" (or "below accent no. 5" + "above dash accent" + "e"), which will (in both cases) yield U+0101 U+0329 by Unicode normalization.

**Example:** The Hausa hooktop k̄ is a letter which is encoded in Unicode as a composed form.

It will be entered as "Supershift" + V (thus latching to the Group LV "Latin letters with hook above and related special characters"), following by "k".

Diacritical marks also can be entered following the base letters which is felt to be the more natural way by some users (especially users who are not accustomed to a national keyboard using dead keys).

**Example:** The Yorùbá ē̄ will be entered as "e", then Supershift key + "F" (selecting a "following" accent) then "-" unshifted, then Supershift + "F", then "5" shifted (which means "below accent no. 5").

Additionally, modes are specified to enter any valid Unicode character (see Clause 7), to provide a standard way for this rather than relying unstandardized special functions of operating systems or any text processing software.

Especially, the DRAFT shows a means for travelers using publicly available terminals (like at Internet Cafés) to enter any text in their native languages anywhere. They have to remember only the group and key associations for the special letters of their own languages (which are usually few, about 5 or 10).

## A2. The character repertoire of this DRAFT

The character repertoire as specified implicitly by this document (consisting of all characters listed as associated with any key) is designed to meet the following main requirements:

- a. All current languages which use the Latin script should be covered.
- b. To enable writing of proper names (e.g. in reference lists) and geographical names correctly, all transliteration systems for major current non-Latin languages into Latin should be covered.
- c. All symbols and punctuation marks which occur in good typography should be covered. This includes ZWNJ, e.g. to prevent the f-l ligature in German »Schilfinsel« according to the orthographic rules, unlike the Soft Hyphen, which must not prevent a f-f ligature in »Affe« when applied within the »ff«.
- d. All symbols which occur in business correspondence should be covered.

Additionally, it meets the following:

- e. It contains the few letters and symbols (long s, long r, Tironian et) needed for the script variants Gaelic and Fraktur, which despite to their historical appeal also have some contemporary use.
- f. It contains a small selection of historic letters (e.g. for Old English) and transliteration letters for historic scripts (for Egyptian hieroglyphs and Gothic), as these may be used in popular texts and texts for school use.
- g. It contains some characters for compatibility reasons.
- h. It contains the main characters for several other scripts (i.e. these which are needed for common languages using these scripts).
- i. It contains all IPA characters (except the specialized characters used for recording of disordered speech).
- j. It contains a basic mathematic character set for "everyday use" (while an extensive character set which would be needed for mathematical publications is not covered).

## A3. The design of an international keyboard extension

The goal of ISO/IEC 9995-3 is to provide a possibility to type the additional character repertoire using any keyboard which adheres to some prerequisites, without referring to the actual layout.

Especially, it is required that there are the Latin letters (either as primary or as a secondary group), together with some other universal characters (like digits).

Rather than relying on physical positions, this DRAFT relies to the positions which the specific characters have on the basic layout. It seems far easier to communicate "to type æ, type AltGr+a" regardless whether the basic layout is QWERTY or AZERTY, rather than "to type æ, type AltGr together with the second key in the third row".

## A4. Layout Principles

- Diacritical marks to be applied above the base letters are associated to level 1 (unshifted) positions (as these are the most frequent ones); such marks applied below the base letters are associated to level 2 (shifted) positions. (This also corresponds to the fact that the low line U+005F is found on a shifted position on some common keyboard layouts.)
- The diacritical marks resembling dot and dash are associated with [.] and [-], respectively, in Group DW.  
All other diacritical marks which occur in major Latin written languages of countries are associated with number keys and the comma (instead of lumping all diacritical marks on a small group of keys), in Group DW.  
Thus, diacritical marks may be easily referenced to like "high/low [special] accent no. xxx" (besides "high/low comma/dot/dash accent") without having to remember the real names (macron, ogonek, cedilla, etc.) or the design details.
- The fact that only a limited character set is required for the base layout (see Clause 3) may lead to a certain duplication of graphic characters between the base layouts and the layout of the additional groups specified here. However, it allows the graphic characters of the groups specified here and their allocation to keys to be always the same for their use with any established Latin group layout.

## A5. Transliteration standards considered in this DRAFT

Transliteration standards:

ISO 9 — Cyrillic  
ISO 233, DIN 31635 — Arabic  
ISO 259 — Hebrew  
ISO 843 — Greek  
ISO 3602 — Japanese  
ISO 7098 — Chinese  
ISO 9984 — Georgian  
ISO 9985 — Armenian  
ISO 11940 — Thai  
ISO 15919 — Indic scripts

Other standards:

ISO 5426 — bibliographic information interchange

## A6. Notes on the previous version of ISO/IEC 9995-3

The current version of ISO/IEC 9995-3 intends to enable the input of a character repertoire as defined by collection 281 (MES-1) specified in amendment 1 to ISO/IEC 10646-1:2000.

In the current version of Part 2 of ISO/IEC 9995 is stated:

*For the input of graphic character repertoire of collection 281 (titled MES-1) as specified in amendment 1 to ISO/IEC 10646:1-2000, a Common Secondary Group Layout (to be used as group 2) is specified in ISO/IEC 9995-3.*

The collection 281 is:

U+00..: 20-7E A0-FF  
U+01..: 00-13 16-2B 2E-4D 50-7E  
U+02..: C7 D8-DB DD  
U+20..: 15 18-19 1C-1D AC  
U+21..: 22 26 5B-5E 90-93  
U+26..: 6A

Today, this character collection is not suited as base for a character repertoire for a small international keyboard extension (by only a single group), for the following reasons:

- The collection 281 is based of the ISO/IEC 6937, which was developed in the 1970s for "telematic services", i.e. for communication purposes like the long outdated Telex successor "Teletex". It was not its primary goal to act as a well thought set for an international keyboard.

- ISO/IEC 6937 does not adhere to the same encoding principles as Unicode, which is prevalent in today's data processing systems. Especially, it is missing the mechanism of Unicode's combining characters. The ISO/IEC 6937 conforming mechanism of forming an accented letter by base letter + backspace + spacing accent is no longer possible with Unicode.
- Moreover, some characters of the collection 281 are obsolete legacy today which do not need to burden an actual keyboard design.
- The last 30 years yielded the need for some more characters (e.g., the introduction of the Latin alphabet in Azerbaijan revived the Jaḡalif character Ə/ə).
- Additionally, the collection 281 is defective (e.g., it contains the characters Đ/đ, Ʀ/ƣ and Ɖ/đ for Sami, but not Ǧ/g, Ʒ/ʒ and Ǻ/ǻ).
- As the name "MES-1" ("Multilingual European Subset 1") suggests, the larger part of the world is not considered (especially Vietnamese, but also most "minority languages" even if they write Latin).  
— *When Sami is taken into account in an international standard, why not Yorùbá or Comanche?*

Especially, the following characters appear to be of inferior priority, superfluous, or even wrong:

U+00A6	BROKEN BAR No real use attested beyond special mathematical-logical applications. Historic variant of U+007C VERTICAL LINE.
U+00AC	NOT SIGN Mathematical symbol without any attested business use. No need for inclusion into a repertoire which does not cover an appropriate large set of symbols for mathematics or formal logic.
U+0132	LATIN CAPITAL LIGATURE IJ
U+0133	LATIIN SMALL LIGATURE IJ These are nowadays written as separate letters (see the detailed discussions in the Unicode mailing list archive).
U+0138	LATIN SMALL LETTER KRA Was used in a former Greenlandic orthography, now obsolete there.
U+013F	LATIN CAPITAL LETTER L WITH MIDDLE DOT
U+0140	LATIN SMALL LETTER L WITH MIDDLE DOT Included in Unicode only as legacy compatibility characters. The preferred representations for Catalan by Unicode are U+004C U+00B7 resp. U+006C U+00B7.
U+0149	LATIN SMALL LETTER N PRECEDED BY APOSTROPHE Included in Unicode only as legacy compatibility character. The appropriate Unicode representation of the Afrikaans letter 'n is U+02BC U+006E.
U+2126	OHM SIGN This Unicode character has a <u>canonical</u> equivalence to U+03A9 GREEK CAPITAL LETTER OMEGA. Therefore according to the Unicode rules, the latter code is to be preferred for the Ohm sign. (Note: To the U+00B5 MICRO SIGN, such an argument does not apply, as it has only a <u>compatibility</u> equivalence to U+03BC GREEK SMALL LETTER MU.)
U+266A	EIGHTH NOTE No special use is attested for this symbol in plain text. No need for inclusion into a repertoire which does not cover an appropriate large set of iconic symbols.
U+00..:	C0-C5 C7-CF D1-D6 D9-DD E0-E5 E7-EF F1-F6 F9-FD FF
U+01..:	00-0F 12-13 16-25 28-2B 2E-2F 34-37 39-3E 43-19 4C-4D 50-51 54-65 68-7E These are precomposed letters, not needing to be enumerated as it is sufficient to have the constituent characters to be included in the repertoire All precomposed letters are implicitly contained in a set which includes all characters generated by application of the Unicode Normalization Form NFC on any sequence of characters specified in the original repertoire.

## A7: Notes on single Groups:

### Groups C (Cyrillic), CE (Cyrillic Extra letters), CX (Cyrillic Additional Extra Letters), Group CZ (Cyrillic Church Slavonic Letters):

As the Cyrillic alphabet consists of more than 26 letters, not all letters could be assigned within Group C which can take 26 letters (each with lower and upper case variants as in Latin).

Therefore, some letters are assigned within **Group CE**, preferably those which are not use in all languages or which are in some ways variants of other letters.

Covering the letters needed for modern Russian, Bulgarian, Serbian, Macedonian, Byelorussian, Ukrainian, Mongolian, Kazakh, Kyrgyz, and Uzbek, there are a total of 51 letters needed to be distributed on two groups (C and CE). The resulting gap of one letter in Group CE is filled with the precomposed letter Ъ, thus Russian can be written without recurring to diacritical letters at all (as long as you do not want to use the letter Ё, which can be entered using diacritics as usual).

The users of the other mentioned languages find their needed diacritics in Group DD.

The **Group CX** contains letters needed for several minority languages of the former Soviet Union (including Abkhaz and Bashkir).

The **Group CZ** contains historic letters, thus complementing the groups C and CE to cover the whole Cyrillic alphabet. These letters are needed for pre-1918 Russian orthography and for Church Slavonic (which is contemporarily used by scientists, hobbyists and in religious context).

Letter variants which are separately encoded in Unicode are included as separate letters (zemlya, dzelo, monograph uk, yeru with back yer, iotified a).

## **Group DD (Diacritics):**

This group can be latched to by Supershift+D by users who prefer the "Dead Key" model.

It also can be latched to by Supershift+F by users who are not accustomed to the "Dead Key" model and prefer to enter the base character first.

The group contains in Level 1 (unshifted) diacritical marks which are placed above the base letter ("accents") for Latin, Greek, and contemporary Cyrillic.

Level 2 (shifted) contains diacritical marks which are placed below the base letter for Latin and Greek. Also, it contains overstriking diacritics, and diacritics for Church Slavonic (although these are placed above the base letter).

## **Group DI (Diacritics for IPA):**

This group contains all combining diacritics contained in IPA and will be selected by Supershift+D or Supershift+F in the same way as and instead of Group DD when the special mode "IPA" is active.

All diacritics contained in both groups DD and DI are selected by the same key combination.

## **Group DJ (Spacing Diacritics and Symbols for IPA):**

This group contains all IPA characters which are not letters (and thus are entered in the special mode "IPA" by sequences of a letter key + a digit key) and not combining diacritics (and thus contained in Group DI).

Especially, all "transcription delimitation characters" (IPA characters 901 to 911) are doubled in this group even if they are already contained in another group like Group YS.

## **Group DS (Spacing Diacritics); Group DM (Modifier Letters):**

The **Group DS** contains the spacing versions of the diacritics contained in Group DD at the same key combinations, as far as such spacing versions exists. Most of such characters act as modifier letters.

Modifier letters which do not correspond to a combining diacritic are contained in **Group DM**, which also contains the Khoisan click letters.

As an exception, at the 5 key combinations which denote Old Cyrillic (Church Slavonic) diacritics in Group DD, there the Group DS contains 4 Chinantec tone marks, and the combining subscript letter "r" needed for some languages of Indonesia (which is a singleton in the character repertoire defined by this DRAFT).

## **Group DW (Diacritics, by number keys):**

This group defines the diacritics which can be typed by the "shortcut method" by directly typing Supershift + digit key/comma/dot/dash on full keyboards, as described in Clause 3. Thus, users accommodated to the number of a diacritic can use this number also on other than full keyboards (then by latching to Group DW).

Also, the diacritics contained in Group DW are duplicated in Group DD, in a way that the digits 1234567890 correspond to the first letter row QWERTYUIOP as it is found on several national standards for Latin keyboards. Thus, all diacritics are found in a single group, especially for users who do not use a full keyboard, or who prefer to enter the base character first and then latching to Group DD by Supershift+F.

## **Groups G (Greek), GE (Greek Extra Letters):**

This group can be latched to by Supershift+G (to enter single Greek letters as symbols) or switched to by Supershift+G (to enter Greek text).

Group G is modeled after the standard Greek keyboard. Therefore, it duplicates some punctuation marks on the [Q] key. As the classical (Attic) and the modern Greek alphabet contains 25 letters (24 proper letters + the final sigma), the Group G contains all letters for classical and modern Greek. The needed diacritical marks are all contained in Group DD.

The Group GE contains some pre-classical and Byzantine letters and symbols, and letter variants preferred by some when using Greek letters as mathematical symbols.

## **Groups H (Hebrew), HE (Hebrew Extra letters), HW (Hebrew niqqud):**

The Hebrew alphabet originally consists of 22 letters, 5 of them having special final forms, thus yielding 27 letters to be selectable for keyboard input. The Hebrew standard keyboard has the complete set of upper case Latin characters A...Z in the shifted position (i.e. Level 2) of the base layout (i.e. Group 1), resembling the standard QWERTY layout. 24 of the 27 Hebrew letters are associated with these keys, leaving out Q and W which have two "ASCII" symbols in the unshifted position (slash and single quote). Thus, 3 of the 27 Hebrew letters (final pe, tav, and final tsadi) are on positions where the standard QWERTY layout has symbols.

Also, there are three extra letters to write the Yiddish language, which are reached on the Hebrew Standard keyboard by simultaneous AltGr pressing (i.e., they are in Group 2).

The **Group H** of this DRAFT, as it is confined to the keys associated with the Latin letters A...Z, reorders the final pe, tav, and final tsadi into the shifted positions of the p, the tet, and the tsadi. It retains the slash and single quote on the unshifted positions of Q and W.

Thus, if Group H is switched to on a Hebrew standard keyboard (e.g. to get access to the common niqqud including the rafe for Yiddish, or to the "true Hebrew punctuation"), all Hebrew letters are retained in their place (the final pe, tav, and final tsadi are simply duplicated), and the slash and single quote stay reachable.

The three Yiddish letters are retained in their position from the Hebrew standard keyboard, but are in Group H on the shifted position (i.e. Level 2).

Also, Group H contains the common niqqud and Hebrew punctuation (maqaf, pasuq and paseq). Thus, Hebrew can be written with its specific punctuation marks (rather than recurring to the similar standard punctuation dash, colon, and vertical line, as it is required when using the standard Hebrew keyboard).

The **Group HE** (Hebrew Extra letters) contains the rest of the niqqud, the "new sheqel" symbol, the nun hafukha, and all cantillation marks included in Unicode.

Thus, any biblical or Torah text can be written in all details.

For special use of the meteg and for combinations of cantillation marks, the ZWNJ, ZWJ, and CGJ (duplicated from Group YP) are included also. See the Unicode 5.0 Standard, section 8.1, p.266/267.

The **Group HW** (Hebrew niqqud) provides an alternative way to those who are accustomed to enter the common niqqud by pressing CapsLock followed by Shift + digit key or ("~", "-", "=", "\"). The latter key is retained, but instead of CapsLock (which is not within the scope of this standard), the group selector (Supershift+W) is keyed, followed by the latter key whether shifted or not (therefore, the Group HW duplicates its level 2 characters in level 1).

*Note: A free font which contains all Hebrew characters can be found at:*

[http://scripts.sil.org/cms/scripts/page.php?site\\_id=nrsi&item\\_id=EzraSIL\\_Home](http://scripts.sil.org/cms/scripts/page.php?site_id=nrsi&item_id=EzraSIL_Home)

## **Group L (Latin):**

This group maps the letters 1:1 and therefore is not listed in Appendix B.

## **Group LR (Latin, Raised):**

Some raised letters are in fact used in some orthographies, e.g. ˆ in Minnan, ʷ in some First Nation languages of British Columbia (Canada).

## **Group Q (Georgian):**

The modern Georgian alphabet (Mkhreduli) consists of 33 letters without a distinction between upper and lower case. The Georgian standard keyboard contains these together with 6 archaic letters which are distributed onto 33 keys, 7 of these do not correspond to a A...Z letter key on a QWERTY keyboard.. The modern letters are in Level 1, where the archaic letters are reached by Alt Gr (thus, the Level 2 key ("Shift key") is not used for letters).

In this DRAFT, the 7 modern letters which are beyond the QWERTY letter positions on the standard keyboard are reordered into Level 2, together with the 6 archaic letters (retaining their key associations as far as possible). Additionally, some special letters for minority languages and some special punctuation are included in level 2.

## **Groups W (Armenian), WE (Armenian extra letters):**

The Armenian alphabet contains 38 characters occurring in lower and upper case. The layout of this group is based on the Eastern Armenian keyboard layout (which is preferred in the country of Armenia itself, while the Western Armenian layout is preferred in the Armenian diaspora).

The 12 letters not corresponding to an A...Z letter key of the QWERTY layout are grouped in the Group WE (Armenian Extra letters). This group contains also some ligatures and special punctuation (including U+2024 ONE DOT LEADER as Armenian semicolon).

## Group YC (Currency symbols):

There is intentionally much space left in this group for currency symbols invented in the future.

The US dollar symbol ("\$") is not contained in this group as it acts not only as a currency symbol but also as a special symbol in several programming languages (and is accordingly regarded as an universal symbol).

The key [f] Level 1 currently doubles the Latin small letter f with hook which is assigned to Group LQ, also key [f] Level 1, as this character is used as the Florin symbol also in Unicode 5.1. If the Unicode decides to disunify the Florin symbol from the Latin small letter f with hook, the [f] Level 1 shall yield the code for Florin symbol in Group YC and the code for the Latin small letter f with hook in Group LQ.

## Group YM (Mathematical and extra symbols):

This group contains the mathematical and other symbols which are contained in MES-2 and are not contained in other groups defined in this DRAFT, plus some additions according to recent use.

Also, for some characters a typographically more pleasant alternative is included (e.g., as the square root symbol (U+221A) is often used as a check mark, a "real" check mark (U+2713) is included).

Some notable additions are U+2423 as a Space symbol and U+21B2 as a Return symbol to describe keyboard input.

The Arabic ornate parentheses (U+FD3E, U+FD3F) are included as they are used by some to indicate citations from Koran translations in Latin text also.

## Group YP (Punctuation):

This group mainly consists of the different quotes. The more frequent double quotes are located on Level 1, while the corresponding single quotes are located on Level 2 of the same key.

Thus, the "typographical apostrophe", which is the same character as the English right single quote (U+2019), is located on Level 2 of the [8] key.

On the comma, dot, and dash, special function symbols like ZWNJ are located.

## Group YS (Symbols):

This group contains symbols with frequent business, private, and educational use.

Also, it contains typographically preferable variants of some common "ASCII" characters whose appearance is usually hampered by their universal use.

*Note: If any group beyond the basic group is to be engraved on the keytops, this group—together with its associated "D-Group" Group YP (Punctuation)—is recommended to be the first choice.*

If any symbol is based on a letter it is associated with that letter and the appropriate level (e.g. © is on [R] level 2).

## Group YU (Universal symbols and fractions):

This group contains all "ASCII" (i.e. ISO 646) symbols which are not contained in all national variants of ISO 646, and therefore not necessarily present on all national keyboards.

Additionally, this group contains some common fractions besides the ones contained in the Group YS. The associations of these fractions are mnemonic with the compromise that  $\frac{3}{8}, \frac{5}{8}, \frac{7}{8}$  are associated with 3,5,7 while  $\frac{1}{8}$  is associated with 8, making room to associate 1,2 with  $\frac{1}{3}, \frac{2}{3}$ .

## Group YV (Universal compatibility):

This group contains the 20 "ASCII" characters which are contained in all national variants of ISO 646. As such, they can be expected to be enterable on any keyboard (at least on any full keyboard), but presenting them in this group enables any user to enter these characters in an uniform way on all keyboards conforming to this DRAFT, without having to search them for on any national keyboard not familiar to the user.

These 20 "universal ASCII symbols" are:

U+0021 ... U+0022, U+0025 ... U+002F, U+003A ... U+003F, U+005F, i.e.:

! " % & ' ( ) \* + , - . / : ; < = > ? \_

## Group YY (Compatibility characters and symbols):

This group contains some characters and symbols (especially outdated combined letters, and geometrical shapes) present in other standards, standard keyboards, common fonts, or character sets used by specific user groups, which are included in this DRAFT only for this reason.

*Note: Regarding the ligatures fi and fl contained in this group, see the note at the end of the following notes on "Fraktur".*

## A8. Notes on the Latin script variant "Fraktur" (Blackletter)

It is possible to enter Fraktur (Bla%letter) when using a correctly designed Unicode-compatible font (which does not hold for almost all Fraktur fonts currently available). The two characters needed beyond the usual Latin letters are s (the long s, U+017F, in Group LE at [s] Level 1) and the "Tironian et" (used only in the abbreviation £. "etc."; U+204A, in Group YS at [M] Level 2).

*Note:* The "Tironian et" is often misnamed "r rotunda" as it has developed a similar form in Fraktur. For Fraktur fonts which misrepresent the "Tironian et" as "r rotunda", or which supply a real "r rotunda" (U+A75B) like ʀ to use as "r" after o (o), this character is supplied as "compatibility character" in Group YY at [r] Level 1.

Also, the hyphen - (U+2010, in Group YS at [v] Level 1) and the minus sign – (U+2212, in Group YS at [y] Level 1) have a definitely different appearance in Fraktur, and the "ASCII" hyphen-minus (U+002D, "dash") has to have the appearance of the hyphen - in Fraktur fonts due to its prevalent use, while the inclusion of the separate minus sign – (U+2212) is advisable for such fonts.

The German typesetting rules for Fraktur contain obligate ligatures, namely c, %, >, |, ³, ®, §, ¥, @, <, #, {.

This ligatures may not be applied e.g. at the compound borders of compound words, e.g. in Brotzeit ("Brotzeit" = "bread time" = a kind of snack) the tz ligature { is not allowed, while it is required in Ka{e ("Katze" = cat).

Correctly designed Unicode-compatible fonts generate such ligatures automatically if the text contains the underlying character sequences, as it is mandatory anyway for other scripts like Arabic or Devanagari.

As it is the case for these scripts, Unicode supplies the special invisible character ZWNJ (zero width non-joiner, U+200C, in Group YP at [comma] level 1) which is to be inserted at the places where ligating may not occur. Thus, for the example above, Brotzeit is to be typed "Brot[ZWNJ]zeit" (as long as no automatic spelling correction is active).

*Note: The same applies also outside Fraktur, e.g. the German typesetting rules allow no "fi" ligature in "Schilfinsel" ("reed island") which therefore has to be entered as "Schilf[ZWNJ]insel" when using a "smart font".*

*As it is expected that such "smart fonts" become standard for Latin as they already are for Arabic and Devanagari, supplying separate characters for ligatures like fi and fl is considered obsolete anyway.*

## A9. Notes on the special mode "IPA":

The table in Appendix C is organized such that usually all variants of a Latin letter are selected by that letter first.

The digit (the second character of the input sequence for an IPA character) intentionally selects:

- 0: the base letter itself
- 1: a raised form
- 2: a capitalized form
- 3: a turned form
- 4: a hooktop form
- 5: a Greek form
- 6: a tailed form
- 7: a barred form
- 8: a variant form (e.g. with curl)
- 9: a ligated form

This is only used as an outline, as the IPA characters are not organized this way. Therefore, most numbers select similar or completely different variants.

Furthermore, there are some exceptions to the rule that variants of a letter are selected by the base letters:

- The click letters are filed under the letter "f".
- The glottal stop and variants based on that letterform are filed under the letter "q".
- As there are more than 10 variants given for the letter "t", three ligated forms of "t" are filed under "x".

Besides the official IPA characters, the table contains the 6 characters of the Unicode IPA Extensions block which do not correspond to an IPA numbered character (U+0256, U+025D, U+027F, U+0285, U+02AE, U+02AF), and 3 letters commonly used by sinologists while not being official IPA characters (U+0234, U+0235, U+0236).



## Appendix B: Group definition tables

This appendix is normative.

*Note: The tables of Appendix B and the complete texts of the subsequent Appendixes C through E are generated by a special software which has the group definitions and IPA mode tables incorporated.*

*The original data are contained in that software; thus, any changes in the subsequent text must be incorporated in that software.*

### Group C: Cyrillic; Group CE: Cyrillic Extra Letters; Group CX: Cyrillic Additional Extra Letters Group CZ: Cyrillic Characters for Church Slavonic

	Gr. C, L.1	Gr. C, L.2	Gr. CE, L.1	Gr. CE, L.2	Gr. CX, L.1	Gr. CX, L.1	Gr. CX, L.1	Gr. CX, L.2
[Q]	U+0436 ж	U+0416 Ж	U+0439 й	U+0419 Й	U+0497 ж	U+0496 Ж	U+0481 ґ	U+0480 Ґ
[W]	U+0448 ш	U+0428 Ш	U+0449 щ	U+0429 Щ	U+04BF ѳ	U+04BE Ɔ	U+0461 ω	U+0460 Ɔ
[E]	U+0435 е	U+0415 Е	U+0454 є	U+0404 Є	U+0511 ε	U+0510 Ɛ	U+0463 ɛ	U+0462 Ɛ
[R]	U+0440 р	U+0420 Р	U+04D9 ӑ	U+04D8 Ӑ	U+04BD ʀ	U+04BC Ɔ	U+2056 ⋮	U+10FB ⋮
[T]	U+0442 т	U+0422 Т	U+044A ь	U+042A Ь	U+04AD ʈ	U+04AC Ɔ	U+2059 ⋮	U+2058 ⋮
[Y]	U+044B ы	U+042B Ы	U+044C ы	U+042C Ь	U+04CF ɪ	U+04C0 ɪ	U+A651 ɪ	U+A650 ɪ
[U]	U+0443 у	U+0423 У	U+044E ю	U+042E Ю	U+04A7 ɯ	U+04A6 ɯ	U+0479 ɯ	U+0478 ɯ
[I]	U+0438 и	U+0418 И	U+0456 і	U+0406 І	U+0527	U+0526	U+0475 ɯ	U+0474 ɯ
[O]	U+043E о	U+041E О	U+04E9 ӧ	U+04E8 Ӑ	U+04F7 ɣ	U+04F6 ɣ	U+047B ɔ	U+047A ɔ
[P]	U+043F п	U+041F П	U+049D ӗ	U+049C Ӑ	U+0525	U+0524	U+A64B ɔ	U+A64A ɔ
[A]	U+0430 а	U+0410 А	U+044F я	U+042F Я	U+04D5 æ	U+04D4 Ɔ	U+A657 ɪ	U+A656 ɪ
[S]	U+0441 с	U+0421 С	U+0455 s	U+0405 S	U+04AB ɕ	U+04AA Ɔ	U+A643 ɕ	U+A642 ɕ
[D]	U+0434 д	U+0414 Д	U+0452 ɖ	U+0402 Ɔ	U+04E1 ɜ	U+04E0 ɜ	U+0589 ⋮	U+00B7 ⋮
[F]	U+0444 ф	U+0424 Ф	U+04BB ɦ	U+04BA ɦ	U+04A1 ɸ	U+04A0 ɸ	U+0473 ɞ	U+0472 ɞ
[G]	U+0433 г	U+0413 Г	U+0491 ɣ	U+0490 ɣ	U+0495 ɟ	U+0494 ɟ	U+0465 ɣ	U+0464 ɣ
[H]	U+0445 х	U+0425 Х	U+04B3 ɣ	U+04B2 ɣ	U+04A9 ɥ	U+04A8 ɥ	U+0467 ɣ	U+0466 ɣ
[J]	U+044D ӓ	U+042D Ӑ	U+0458 j	U+0408 J	U+04C4 ɣ	U+04C3 ɣ	U+0469 ɣ	U+0468 ɣ
[K]	U+043A к	U+041A К	U+049B ɸ	U+049A ɸ	U+049F k	U+049E Ɔ	U+046B ɸ	U+046A ɸ
[L]	U+043B л	U+041B Л	U+0459 ɮ	U+0409 ɮ	U+0513 ɮ	U+0512 ɮ	U+046D ɮ	U+046C ɮ
[Z]	U+0437 з	U+0417 З	U+0493 ɹ	U+0492 ɹ	U+0499 ɜ	U+0498 ɜ	U+A641 ɜ	U+A640 ɜ
[X]	U+0447 ч	U+0427 Ч	U+045B ɣ	U+040B ɣ	U+04B7 ɕ	U+04B6 ɕ	U+046F ɕ	U+046E ɕ
[C]	U+0446 ц	U+0426 Ц	U+045F ɕ	U+040F ɕ	U+04B5 ɕ	U+04B4 ɕ	U+0471 ɕ	U+0470 ɕ
[V]	U+0432 в	U+0412 В	U+04B1 ɹ	U+04B0 ɹ	U+04CC ɕ	U+04CB ɕ	U+0482 ɕ	U+20DD ɕ

[B]	U+0431 б	U+0411 Б	U+04A3 Ӏ	U+04A2 Ӓ	U+04A5 Ӧ	U+04A4 Ө	U+0488 ̈́	U+0489 ̈́
[N]	U+043D Ҁ	U+041D Ҁ	U+045A Ӏ	U+040A Ӓ	U+04C8 Ӧ	U+04C7 Ө	U+047D ̈́	U+047C ̈́
[M]	U+043C Ӏ	U+041C Ӏ	U+04AF Ӏ	U+04AE Ӓ	U+04B9 Ӧ	U+04B8 Ө	U+047F ̈́	U+047E ̈́

## Group DW: Diacritics, by number keys

(for the groups DD, DS, DM: see below at Group S)

	Group DW, Level 1 ( <i>unshifted</i> )	Group DW, Level 2 ( <i>shifted</i> )
[1]	U+0301 ´ acute accent	U+0347 = equals sign below
[2]	U+0300 ` grave accent	U+0328 ˘ ogonek ( <i>Polish</i> )
[3]	U+0308 ¨ diaeresis	U+0324 ˙ diaeresis below ( <i>Hakka</i> )
[4]	U+0303 ~ tilde	U+0330 ˘ tilde below
[5]	U+030B ˆ double acute accent	U+0329 ˘ vertical line below ( <i>Yorùbá</i> )
[6]	U+0306 ˘ breve	U+032E ˘ breve below ( <i>Arabic transliteration</i> )
[7]	U+030C ˇ caron	U+0332 ˘ low line ( <i>Comanche</i> )
[8]	U+0302 ^ circumflex accent	U+032D ˘ circumflex accent below ( <i>Venda</i> )
[9]	U+0309 ˘ hook above ( <i>hoi</i> )	U+0327 ˘ cedilla ( <i>Turkish</i> )
[0]	U+030A ° ring above	U+0325 ˘ ring below
[com- ma]	U+031B ˘ horn ( <i>Vietnam; Thai transliteration</i> )	U+0326 ˘ comma below ( <i>Romanian</i> )
[dot]	U+0307 ˙ dot above	U+0323 ˘ dot below ( <i>Africa</i> )
[dash]	U+0304 ˘ macron	U+0331 ˘ macron below ( <i>Africa</i> )

## Group DD: Diacritics; Group DS: Spacing Diacritics

(for the group DM: see below)

	Group DD, Level 1	Group DD, Level 2	Group DS, Level 1	Group DS, Level 2
[Q]	U+0301 ´ acute accent	U+0347 = equals sign below	U+02CA ´ acute accent	
[W]	U+0300 ` grave accent	U+0328 ˘ ogonek ( <i>Polish</i> )	U+02CB ` grave accent	U+02DB ˘ ogonek
[E]	U+0308 ¨ diaeresis	U+0324 ˙ diaeresis below ( <i>Hakka</i> )	U+00A8 ¨ diaeresis	
[R]	U+0303 ~ tilde	U+0330 ˘ tilde below	U+02DC ~ small tilde (not U+007E)	U+02F7 ~
[T]	U+030B ˆ double acute accent	U+0329 ˘ vertical line below ( <i>Yorùbá</i> )	U+02DD ˆ double acute accent	U+02CC ˘ vertical line
[Y]	U+0306 ˘ breve	U+032E ˘ breve below ( <i>Arabic transliteration</i> )	U+02D8 ˘ breve	
[U]	U+030C ˇ caron	U+0332 ˘ low line ( <i>Comanche</i> )	U+02C7 ˇ caron	

[I]	U+0302 ^ circumflex accent	U+032D ^ circumflex accent below ( <i>Venda</i> )	U+02C6 ^ circumflex (not U+005E)	U+A788 ^ low circumflex accent
[O]	U+0309 ' hook above ( <i>hoi</i> )	U+0327 _ cedilla ( <i>Turkish</i> )		U+00B8 _ cedilla
[P]	U+030A ° ring above	U+0325 ° ring below	U+02DA ° ring above	U+02F3 ° low ring
[A]	U+031B ' horn ( <i>Vietnam; Thai transliteration</i> )	U+0326 , comma below ( <i>Romanian</i> )		U+002C , comma
[S]	U+0307 · dot above	U+0323 · dot below ( <i>Africa</i> )	U+02D9 · dot above	U+002E · full stop
[D]	U+0304 ¯ macron	U+0331 _ macron below ( <i>Africa</i> )	U+02C9 ¯ macron	U+02CD _ low macron
[F]	U+0312 ˆ turned comma above	U+0483 ˆ	U+02BB ˆ turned comma	U+A717 ˆ
[G]	U+0313 ' comma above ( <i>Minnan</i> )	U+0486 ' apostrophe	U+02BC ' apostrophe	U+A718 ' apostrophe
[H]	U+0314 ˆ reversed comma above	U+0485 ˆ	U+02BD ˆ reversed comma	U+A719 ˆ
[J]	U+030F `` double grave ( <i>Croat poetry</i> )	U+0484 ^		U+A71A ^
[K]	U+0311 ^ inverted breve ( <i>Croat poetry</i> )	U+0487 ^		U+1DCA ^
[L]	U+0360 ˜ double tilde	U+035F __ double macron below	U+2053 ~ swung dash	
[Z]	U+0361 ^ double inverted breve	U+035C ˘ double breve below	U+2040 ^ character tie	U+203F _ undertie
[X]	U+0358 · dot above right ( <i>Minnan</i> )	U+0338 / long diagonal stroke		
[C]	U+0310 ˆ candrabindu	U+0337 / short diagonal stroke		
[V]	U+030D ' vertical line above ( <i>Minnan</i> )	U+0336 - long horizontal stroke	U+02C8 ' vertical line	
[B]	U+030E " double v.l. above ( <i>Marshallese</i> )	U+0335 - short horizontal stroke		
[N]		U+1DFD		
[M]	U+0342 ˘ perispomeni ( <i>Greek</i> )	U+0345 ˘ iota subscriptum ( <i>Greek</i> )	U+1FC0 ^	U+037A ˘

## Group DI: Diacritics for IPA; Group DJ: Spacing Diacritics and Symbols for IPA

(for the group DM: see below)

	Group DI, Level 1	Group DI, Level 2	Group DJ, Level 1	Group DJ, Level 2
[Q]	IPA 513: U+0301 ' ́	IPA 599: U+0317 , ̣	IPA 504: U+02D1 · ̣	IPA 599: U+02CF , ̣
[W]	IPA 515: U+0300 ` ̀	IPA 598: U+0316 ˘ ̣	IPA 503: U+02D0 : ̣	IPA 598: U+02CE ˘ ̣
[E]	IPA 415: U+0308 `` ̂	IPA 405: U+0324 .. ̣		
[R]	IPA 424: U+0303 ˘ ̂	IPA 406: U+0330 ˘ ̂	IPA 419: U+02DE ˘ ̂	
[T]	IPA 512: U+030B ˘ ̂	IPA 431: U+0329 , ̣	IPA 490: U+02F9 ˘ ̂	IPA 502: U+02CC , ̣
[Y]	IPA 505: U+0306 ˘ ̂	IPA 414: U+0320 _ ̣	IPA 519: U+02E5 ˘ ̂	IPA 494: U+02D7 - ̣

[U]	IPA 524: U+030C ˇ	IPA 413: U+031F ₊	IPA 520: U+02E6 1	IPA 495: U+02D6 +
[I]	IPA 525: U+0302 ^	IPA 430: U+031E ₋	IPA 521: U+02E7 1	IPA 430: U+02D5 -
[O]	IPA 427: U+031A ˘	IPA 429: U+031D ˘	IPA 522: U+02E8 1	IPA 429: U+02D4 -
[P]	IPA 402: U+030A °	IPA 402: U+0325 ˚	IPA 523: U+02E9 1	
[A]	IPA 416: U+033D ×	IPA 408: U+032A ˘		IPA 491: U+002C ,
[S]	IPA 493: U+0307 ˙	IPA 497: U+0323 ˙		IPA 506: U+002E .
[D]	IPA 514: U+0304 ˘	IPA 403: U+032C ˘		
[F]		IPA 412: U+031C ˘	IPA 492: U+02BB ˘	
[G]		IPA 411: U+0339 ˘	IPA 401: U+02BC ˘	
[H]		IPA 418: U+0319 ˘	IPA 901: U+005B [	IPA 910: U+007B {
[J]	IPA 516: U+030F ˘	IPA 417: U+0318 ˘	IPA 902: U+005D ]	IPA 911: U+007D }
[K]	IPA 595: U+0311 ˘	IPA 432: U+032F ˘	IPA 518: U+A71B †	IPA 510: U+2197 ↗
[L]		IPA 409: U+033A ˘	IPA 517: U+A71C †	IPA 511: U+2198 ↘
[Z]	IPA 433: U+0361 ˘	IPA 410: U+033B ˘		IPA 509: U+203F ˘
[X]		IPA 498: U+0321 ˘	IPA 906: U+0028 (	IPA 908: U+2E28 ((
[C]		IPA 489: U+0322 ˘	IPA 907: U+0029 )	IPA 909: U+2E29 ))
[V]		IPA 407: U+033C ˘	IPA 501: U+02C8 ˘	
[B]	IPA 526: U+1DC4 ˘	IPA 428: U+0334 ˘	IPA 903: U+002F /	
[N]	IPA 527: U+1DC5 ˘		IPA 507: U+007C	
[M]	IPA 528: U+1DC8 ˘	IPA 499: U+032B ˘	IPA 508: U+2016	

## Group DM: Modifier letters

	Group DM, Level 1 ( <i>unshifted</i> )	Group DM, Level 2 ( <i>shifted</i> )
[1]	U+00B4 ˘	U+01C0   ( <i>Khoisan click letter</i> )
[2]	U+02F4 ˘	U+01C1   ( <i>Khoisan click letter</i> )
[3]	U+02EE ˘	U+01C2 † ( <i>Khoisan click letter</i> )
[4]	U+00AF ˘	U+01C3 ! ( <i>Khoisan click letter</i> )
[5]	U+02B9 ˘ ( <i>Cyrillic transliteration</i> )	U+0298 O ( <i>Khoisan click letter</i> )
[6]	U+02BA ˘ ( <i>Cyrillic transliteration</i> )	U+02EC ˘
[7]	U+02BF ˘ ( <i>Arabian and Hebrew translit.</i> )	U+02C1 ˘
[8]	U+02BE ˘ ( <i>Arabian and Hebrew translit.</i> )	U+02C0 ˘
[9]	U+A789 : colon	U+02D0 : triangular colon
[0]	U+A78A = short equals sign	U+2E17 ˘ ( <i>Coptic transliteration</i> )

## Group G: Greek; Group GE: Greek extra letters

	Group G, Level 1	Group G, Level 2	Group GE, Level 1	Group GE, Level 2
[Q]	U+003B ;	U+003A :	U+03D9 ϣ	U+03D8 Ϙ
[W]	U+03C2 Ϙ	U+007E ~	U+03DD ϝ	U+03DC Ϝ
[E]	U+03B5 ε	U+0395 Ε	U+03F5 €	U+2059 ∴
[R]	U+03C1 ρ	U+03A1 Ρ	U+03F1 ϱ	U+03FC ϣ
[T]	U+03C4 τ	U+03A4 Τ	U+03DF ϣ	U+03DE Ϛ
[Y]	U+03C5 υ	U+03A5 Υ	U+03F6 Ϸ	U+03D2 Υ
[U]	U+03B8 θ	U+0398 Θ	U+03D1 ϑ	U+03F4 ϑ
[I]	U+03B9 ι	U+0399 Ι	U+02B9 ’	U+0375 ,
[O]	U+03BF ο	U+039F Ο	U+037B Ϸ	U+03FD Ϸ
[P]	U+03C0 π	U+03A0 Π	U+03D6 ω	U+0384 ’
[A]	U+03B1 α	U+0391 Α	U+037C ϰ	U+03FE ϰ
[S]	U+03C3 σ	U+03A3 Σ	U+03F2 ϰ	U+03F9 ϰ
[D]	U+03B4 δ	U+0394 Δ	U+037D Ϸ	U+03FF Ϸ
[F]	U+03C6 φ	U+03A6 Φ	U+03D5 ϕ	
[G]	U+03B3 γ	U+0393 Γ	U+0377 Ϸ	U+0376 Ϸ
[H]	U+03B7 η	U+0397 Η	U+0371 Ϸ	U+0370 Ϸ
[J]	U+03BE ξ	U+039E Ξ	U+03F3 Ϸ	U+037A Ϸ
[K]	U+03BA κ	U+039A Κ	U+03F0 Ϸ	U+1FFE ’
[L]	U+03BB λ	U+039B Λ	U+1FBD ’	U+1FBF ’
[Z]	U+03B6 ζ	U+0396 Ζ	U+0373 Ϸ	U+0372 Ϸ
[X]	U+03C7 χ	U+03A7 Χ	U+03E1 Ϸ	U+03E0 Ϸ
[C]	U+03C8 ψ	U+03A8 Ψ	U+03DB ϰ	U+03DA ϰ
[V]	U+03C9 ω	U+03A9 Ω	U+03FB Ϸ	U+03FA Ϸ
[B]	U+03B2 β	U+0392 Β	U+03D0 β	
[N]	U+03BD ν	U+039D Ν	U+03F8 Ϸ	U+03F7 Ϸ
[M]	U+03BC μ	U+039C Μ	U+03D7 Ϸ	U+03CF Ϸ

## Group H: Hebrew; Group HE: Hebrew extra letters

	Group H, Level 1	Group H, Level 2	Group HE, Level 1	Group HE, Level 2
[Q]	U+002F /	U+05F4 ״ gershayim	U+0301 ’	U+0308 ˆ (number marker)

[W]	U+0027 '	U+05F3 ׳ geresh	U+0300 ˘	U+0307 ˙ (number marker)
[E]	U+05E7 ׀ qof	U+05BB װ qubuts	U+0591 ˆ	U+05A9 ˚
[R]	U+05E8 ׁ resh	U+05BF ױ rafe	U+0592 ˜	U+FB1E ˘ varika
[T]	U+05D0 ׀ alef	U+05B0 ׁ sheva	U+0593 ˚	U+FB4F ˚
[Y]	U+05D8 ׃ tet	U+05EA ׃ tav	U+0594 ˙	
[U]	U+05D5 ׁ vav	U+05F0 ׁ tsvey vovn	U+0595 ˚	U+05AB ˘
[I]	U+05DF ׀ final nun	U+05B4 ׁ hiriq	U+0596 ˘	U+05AC ˙
[O]	U+05DD ׀ final mem	U+05B5 ׁ tsere	U+0597 ˙	U+05AD ˘
[P]	U+05E4 ׀ pe	U+05E3 ׀ final pe	U+0598 ˘	U+05AE ˘
[A]	U+05E9 ׀ shin	U+05B6 ׁ segol	U+0599 ˙	U+20AA ˚ new sheqel
[S]	U+05D3 ׀ dalet	U+05B7 ׁ patah	U+059A ˘	
[D]	U+05D2 ׀ gimel	U+05B8 ׁ qamats	U+059B ˘	U+05C7 ˘ qamats qatan
[F]	U+05DB ׀ kaf	U+05C2 ׀ sin dot	U+059C ˙	U+05C5 ˙ p.ext. lower
[G]	U+05E2 ׀ ayin	U+05C1 ׀ shin dot	U+059D ˙	U+05C4 ˙ p.ext. upper
[H]	U+05D9 ׁ yod	U+05F2 ׁ tsvey yudn	U+059E ˙	
[J]	U+05D7 ׀ het	U+05F1 ׁ vav yod	U+059F ˙	
[K]	U+05DC ׀ lamed	U+05B9 ˙ holam	U+05A0 ˙	U+05BA ˙ holam haser
[L]	U+05DA ׀ final kaf	U+05BC ˙ dagesh	U+05A1 ˙	U+200C ZWNJ (for left meteg)
[Z]	U+05D6 ˙ zayin	U+05B1 ˙ hataf segol	U+05A2 ˘	U+05AA ˘
[X]	U+05E1 ˙ samekh	U+05B2 ˙ hataf patah	U+05A3 ˘	U+200D ZWJ (for middle meteg)
[C]	U+05D1 ˙ bet	U+05B3 ˙ hataf qamats	U+05A4 ˘	U+034F CGJ (for right meteg)
[V]	U+05D4 ˙ he	U+05BE ˙ maqaf	U+05A5 ˘	U+FB29 ˙ alt. plus
[B]	U+05E0 ˙ nun	U+05C3 ˙ sof pasuq	U+05A6 ˘	U+05C6 ˙ nun hafukha
[N]	U+05DE ˙ mem	U+05C0 ˙ paseq	U+05A7 ˘	U+05BD ˙ meteg
[M]	U+05E6 ˙ tsadi	U+05E5 ˙ final tsadi	U+05A8 ˙	U+05AF ˙

## Group HW: Hebrew diacritics (niqqud), by number keys

	Group HW, Level 1 (unshifted)	Group HW, Level 2 (shifted)
[1]	U+05B1 ˙ hataf segol	U+05B1 ˙ hataf segol

[2]	U+05B2 ٲ	U+05B2 ٲ hataf patah
[3]	U+05B3 ٳ	U+05B3 ٳ hataf qamats
[4]	U+05B4 ٴ	U+05B4 ٴ hiriq
[5]	U+05B5 ٵ	U+05B5 ٵ tsere
[6]	U+05B6 ٶ	U+05B6 ٶ segol
[7]	U+05B7 ٷ	U+05B7 ٷ patah
[8]	U+05B8 ٸ	U+05B8 ٸ qamats
[9]	U+05C2 ͇	U+05C2 ͇ sin dot
[0]	U+05C1 ͆	U+05C1 ͆ shin dot
[comma]		
[dot]		
[dash]	U+05B9 ٹ	U+05B9 ٹ holam
[tilde]	U+05B0 ٺ	U+05B0 ٺ sheva
[equal]	U+05BC ٻ	U+05BC ٻ shuruk
[rev. slash]	U+05BB ٽ	U+05BB ٽ qubuts

## Group LE: Latin extra letters; Group LR: Latin letters raised

	Group LE, Level 1	Group LE, Level 2	Gr. LR, L.1	Gr. LR, L.2
[Q]	U+0265 ɥ ( <i>Dan/Gio, Liberia</i> )	U+A78D Ɔ ( <i>Dan/Gio, Liberia</i> )		
[W]	U+01DD ə ( <i>Nigeria</i> )	U+018E Ǝ ( <i>Nigeria</i> )	U+02B7 <sup>w</sup> ( <i>Canada</i> )	U+1D42 <sup>w</sup>
[E]	U+0259 ə ( <i>Azerbaijani</i> )	U+018F Ɛ ( <i>Azerbaijani</i> )	U+1D49 <sup>e</sup>	U+1D31 <sup>E</sup>
[R]	U+027C ɀ ( <i>Gaelic</i> )	U+0295 Ɂ ( <i>transliteration</i> )	U+02B3 <sup>r</sup>	U+1D3F <sup>R</sup>
[T]	U+00FE þ ( <i>Icelandic</i> )	U+00DE Ʈ ( <i>Icelandic</i> )	U+1D57 <sup>t</sup>	U+1D40 <sup>T</sup>
[Y]	U+00DF ß ( <i>German</i> )	U+1E9E Ɓ ( <i>German special applications</i> )	U+02B8 <sup>y</sup>	
[U]	U+0223 ɖ ( <i>Algonquin</i> )	U+0222 ɗ ( <i>Algonquin</i> )	U+1D58 <sup>u</sup>	U+1D41 <sup>U</sup>
[I]	U+0131 ı ( <i>Turkish</i> )	U+0130 İ ( <i>Turkish</i> )	U+2071 <sup>i</sup>	U+1D35 <sup>I</sup>
[O]	U+0153 œ ( <i>French</i> )	U+0152 Œ ( <i>French</i> )	U+1D52 <sup>o</sup>	U+1D3C <sup>O</sup>
[P]	U+0242 ɢ ( <i>Chipewyan</i> )	U+0241 ɣ ( <i>Chipewyan</i> )	U+1D56 <sup>p</sup>	U+1D3E <sup>P</sup>
[A]	U+00E6 æ ( <i>Danish</i> )	U+00C6 Æ ( <i>Danish</i> )	U+1D43 <sup>a</sup>	U+1D2C <sup>A</sup>
[S]	U+017F ƿ ( <i>Gaelic, Fraktur</i> )	U+0294 ɥ ( <i>Nootka</i> )	U+02E2 <sup>s</sup>	
[D]	U+00F0 ǫ ( <i>Icelandic</i> )	U+00D0 Ɗ ( <i>Icelandic</i> )	U+1D48 <sup>d</sup>	U+1D30 <sup>D</sup>

[F]	U+018B ƒ ( <i>Africa</i> )	U+018C ɸ ( <i>Africa</i> )	U+1DA0 ƒ	
[G]	U+028C ɰ ( <i>Temne</i> )	U+0245 ɰ ( <i>Temne</i> )	U+1D4D ɰ	U+1D33 ɰ
[H]	U+0251 ɔ ( <i>Fe'fe'</i> )	U+2C6D ɔ ( <i>Fe'fe'</i> )	U+02B0 ɔ	U+1D34 ɔ
[J]	U+025B ɛ ( <i>Nigeria</i> )	U+0190 ɛ ( <i>Nigeria</i> )	U+02B2 ɛ	U+1D36 ɛ
[K]	U+0254 ɔ ( <i>Nigeria</i> )	U+0186 ɔ ( <i>Nigeria</i> )	U+1D4F ɔ	U+1D37 ɔ
[L]	U+028A ɔ ( <i>Africa</i> )	U+01B1 ɔ ( <i>Africa</i> )	U+02E1 ɔ	U+1D38 ɔ
[Z]	U+019E ɰ ( <i>Lakota</i> )	U+0220 ɰ ( <i>Lakota</i> )	U+1DBB ɰ	
[X]	U+A78C ʼ small Saltillo ( <i>Mexico</i> )	U+A78B ʼ capital Saltillo ( <i>Mexico</i> )	U+02E3 ʼ	U+2093 ʼ
[C]	U+0292 ɜ ( <i>Sami</i> )	U+01B7 ɜ ( <i>Sami</i> )	U+1D9C ɜ	
[V]	U+01B9 ɛ ( <i>Africa</i> )	U+01B8 ɛ ( <i>Africa</i> )	U+1D5B ɛ	U+2C7D ɛ
[B]	U+0182 Ƀ ( <i>Dan/Gio, Liberia</i> )	U+0183 Ƀ ( <i>Dan/Gio, Liberia</i> )	U+1D47 Ƀ	U+1D2E Ƀ
[N]	U+014B ɰ ( <i>Sami</i> )	U+014A ɰ ( <i>Sami</i> )	U+207F ɰ ( <i>Minnan</i> )	U+1D3A ɰ
[M]	U+0283 ɰ ( <i>Africa</i> )	U+01A9 ɰ ( <i>Africa</i> )	U+1D50 ɰ	U+1D39 ɰ

**Group LQ: Latin letters with hook below and related special characters**  
**Group LV: Latin letters with hook above and related special characters**

	Group LQ, Level 1	Group LQ, Level 2	Group LV, Level 1	Group LV, Level 2
[Q]	U+024B ɔ ( <i>Africa</i> )	U+024A ɔ ( <i>Africa</i> )		
[W]	U+01BF ƿ ( <i>Old English</i> )	U+01F7 ƿ ( <i>Old English</i> )	U+2C73 ƿ ( <i>Africa</i> )	U+2C72 ƿ ( <i>Africa</i> )
[E]			U+1D4A ɔ	
[R]	U+027D ɣ ( <i>Africa</i> )	U+2C64 ɣ ( <i>Africa</i> )	U+0280 ɣ ( <i>Old Norse</i> )	U+01A6 ɣ ( <i>Old Norse</i> )
[T]	U+0288 ɣ ( <i>Africa</i> )	U+01AE ɣ ( <i>Africa</i> )	U+01AD ɣ ( <i>Africa</i> )	U+01AC ɣ ( <i>Africa</i> )
[Y]	U+0195 ɣ ( <i>Gothic</i> )	U+01F6 ɣ ( <i>Gothic</i> )	U+01B4 ɣ ( <i>Africa</i> )	U+01B3 ɣ ( <i>Africa</i> )
[U]	U+026F ɣ ( <i>Africa</i> )	U+019C ɣ ( <i>Africa</i> )		
[I]	U+0269 ɣ ( <i>Africa</i> )	U+0196 ɣ ( <i>Africa</i> )	U+026A ɣ ( <i>Africa</i> )	
[O]				
[P]			U+01A5 ɣ ( <i>Africa</i> )	U+01A4 ɣ ( <i>Africa</i> )
[A]			U+A723 ɣ ( <i>Egypt hieroglyph ...</i> )	U+A722 ɣ ( <i>... transliteration</i> )
[S]				
[D]	U+0256 ɔ ( <i>Africa</i> )	U+0189 ɔ ( <i>Africa</i> )	U+0257 ɔ ( <i>Africa</i> )	U+018A ɔ ( <i>Africa</i> )
[F]	U+0192 ɔ ( <i>Africa</i> )	U+0191 ɔ ( <i>Africa</i> )		
[G]	U+01A2 ɔj ( <i>Tatar, old orthography</i> )	U+01A3 ɔj ( <i>Tatar, old orthography</i> )	U+0260 ɔj ( <i>Africa</i> )	U+0193 ɔj ( <i>Africa</i> )
[H]	U+A727 ɣ ( <i>Judeo-Tat</i> )	U+A726 ɣ ( <i>Judeo-Tat</i> )	U+0266 ɣ ( <i>Nawdm, Togo</i> )	



[J]	U+021D ȝ ( <i>Old English</i> )	U+021C ȝ ( <i>Old English</i> )	U+A725 𐀀 ( <i>Egypt hieroglyph ...</i> )	U+A724 𐀁 (... transliteration)
[K]	U+0138 ƙ ( <i>Greenlandic, old orthography</i> )		U+0199 ƙ ( <i>Africa</i> )	U+0198 Ƙ ( <i>Africa</i> )
[L]	U+2C61 ł	U+2C60 Ł	U+026B ł	U+2C62 Ł
[Z]	U+0225 z ( <i>Middle High German</i> )	U+0224 Z ( <i>Middle High German</i> )		
[X]				
[C]			U+0188 Ɔ ( <i>Africa</i> )	U+0187 Ɔ ( <i>Africa</i> )
[V]	U+0263 Ƴ ( <i>Africa</i> )	U+0194 Ƴ ( <i>Africa</i> )	U+028B Ƶ ( <i>Africa</i> )	U+01B2 ƴ ( <i>Africa</i> )
[B]			U+0253 ƶ ( <i>Africa</i> )	U+0181 ƶ ( <i>Africa</i> )
[N]	U+0272 ɲ ( <i>Africa</i> )	U+019D ɲ ( <i>Africa</i> )		
[M]	U+0271 ɱ ( <i>Africa</i> )	U+2C6E ɱ ( <i>Africa</i> )		

**Group LX: Latin letters with diagonal stroke;  
Group LZ: Latin letters with horizontal stroke**

	Group LX, Level 1	Group LX, Level 2	Group LZ, Level 1	Group LZ, Level 2
[Q]				
[W]				
[E]	U+0247 Ɖ	U+0246 Ɛ		
[R]			U+024D ƚ	U+024C ƚ
[T]	U+2C66 Ƨ ( <i>SenĆoten</i> )	U+023E Ƨ	U+0167 Ƨ ( <i>Sami</i> )	U+0166 Ƨ
[Y]			U+024F Ƨ	U+024E Ƨ
[U]			U+0289 Ƨ ( <i>Comanche</i> )	U+0244 Ƨ
[I]			U+0268 Ƨ ( <i>Africa</i> )	U+0197 Ƨ
[O]	U+00F8 Ƨ ( <i>Danish</i> )	U+00D8 Ƨ	U+0275 Ƨ ( <i>Africa</i> )	U+019F Ƨ
[P]			U+1D7D Ƨ	U+2C63 Ƨ
[A]	U+2C65 Ƨ ( <i>SenĆoten</i> )	U+023A Ƨ		
[S]				
[D]			U+0111 Ƨ ( <i>Croatian</i> )	U+0110 Ƨ
[F]				
[G]			U+01E5 Ƨ ( <i>Sami</i> )	U+01E4 Ƨ
[H]			U+0127 Ƨ ( <i>Maltese</i> )	U+0126 Ƨ
[J]			U+0249 Ƨ	U+0248 Ƨ
[K]				
[L]	U+0142 Ƨ ( <i>Polish</i> )	U+0141 Ƨ	U+019A Ƨ ( <i>SenĆoten</i> )	U+023D Ƨ

[Z]			U+01B6 z	U+01B5 Z
[X]				
[C]	U+023C <i>Ꝑ (Senóaten)</i>	U+023B <i>ꝑ</i>		
[V]				
[B]			U+0180 <i>ᵔ (OldSaxon)</i>	U+0243 <i>ᵕ</i>
[N]				
[M]				

## Group Q: Georgian

	Group Q, Level 1 ( <i>unshifted</i> )	Group Q, Level 2 ( <i>shifted</i> )
[Q]	U+10E6 <i>ჟ</i>	U+10F7 <i>ჟ</i>
[W]	U+10EF <i>ჟ</i>	U+10F8 <i>ჟ</i>
[E]	U+10E3 <i>ჟ</i>	U+10F9 <i>ჟ</i>
[R]	U+10D9 <i>ჟ</i>	U+10FA <i>ჟ</i>
[T]	U+10D4 <i>ჟ</i>	U+10F1 <i>ჟ</i>
[Y]	U+10DC <i>ჟ</i>	U+10FC <i>ჟ</i>
[U]	U+10D2 <i>ჟ</i>	
[I]	U+10E8 <i>ჟ</i>	U+10EE <i>ჟ</i>
[O]	U+10EC <i>ჟ</i>	U+10EA <i>ჟ</i>
[P]	U+10D6 <i>ჟ</i>	U+10F4 <i>ჟ</i>
[A]	U+10E4 <i>ჟ</i>	U+10F6 <i>ჟ</i>
[S]	U+10EB <i>ჟ</i>	
[D]	U+10D5 <i>ჟ</i>	U+10F3 <i>ჟ</i>
[F]	U+10D7 <i>ჟ</i>	
[G]	U+10D0 <i>ჟ</i>	
[H]	U+10DE <i>ჟ</i>	
[J]	U+10E0 <i>ჟ</i>	
[K]	U+10DD <i>ჟ</i>	U+10D3 <i>ჟ</i>
[L]	U+10DA <i>ჟ</i>	U+10DF <i>ჟ</i>
[Z]	U+10ED <i>ჟ</i>	U+0589 <i>:</i>
[X]	U+10E9 <i>ჟ</i>	U+10FB <i>·</i>
[C]	U+10E7 <i>ჟ</i>	U+10E5 <i>ჟ</i>
[V]	U+10E1 <i>ჟ</i>	U+10D1 <i>ჟ</i>

[B]	U+10DB ծ	U+10F0 Յ
[N]	U+10D8 ո	U+10F2 ղ
[M]	U+10E2 ժ	U+10F5 թ

## Group W: Armenian; Group WE: Armenian extra letters

	Group W, Level 1	Group W, Level 2	Group WE, Level 1	Group WE, Level 2
[Q]	U+056D զ	U+053D Զ	U+055F փ	
[W]	U+0582 լ	U+0552 Լ	U+055B ք	
[E]	U+0567 է	U+0537 Է	U+0587 լ	
[R]	U+0580 ր	U+0550 Բ	U+057C ռ	U+054C Ռ
[T]	U+057F տ	U+054F Տ	U+0569 թ	U+0539 Թ
[Y]	U+0565 ե	U+0535 Ե	U+0575 յ	U+0545 Յ
[U]	U+0568 ը	U+0538 Ը	U+058A խ	
[I]	U+056B ի	U+053B Ի	U+FB15 լի	
[O]	U+0578 ո	U+0548 Ո	U+0585 օ	U+0555 Օ
[P]	U+057A պ	U+054A Պ	U+0583 փ	U+0553 Փ
[A]	U+0561 ա	U+0531 Ա	U+2024 .	U+055A ք
[S]	U+057D ս	U+054D Ս	U+0577 շ	U+0547 Շ
[D]	U+0564 զ	U+0534 Զ	U+055C ք	
[F]	U+0586 ֆ	U+0556 Ֆ	U+055E օ	
[G]	U+0584 ք	U+0554 Զ	U+0572 ղ	U+0542 Զ
[H]	U+0570 հ	U+0540 Հ	U+057B շ	U+054B Շ
[J]	U+0573 ճ	U+0543 Ժ	U+0571 ձ	U+0541 Զ
[K]	U+056F կ	U+053F Կ	U+055D ք	
[L]	U+056C լ	U+053C Լ	U+0589 :	
[Z]	U+0566 զ	U+0536 Զ	U+056A ժ	U+053A Ժ
[X]	U+0581 ց	U+0551 Յ	U+0579 շ	U+0549 Շ
[C]	U+0563 զ	U+0533 Զ	U+056E ծ	U+053E Ծ
[V]	U+057E վ	U+054E Վ	U+FB16 վա	
[B]	U+0562 բ	U+0532 Բ	U+FB17 վի	
[N]	U+0576 ն	U+0546 Ն	U+FB13 նա	

[M]	U+0574 ₺	U+0544 ₴	U+FB14 Ɱ	
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## Group YC: Currency symbols

	Group YC, Level 1 ( <i>unshifted</i> )	Group YC, Level 2 ( <i>shifted</i> )
[Q]	U+20A1 ₧	U+20A7 ₧
[W]	U+20A9 ₩	
[E]	U+20AC €	U+20A0 Ⓔ
[R]	U+20A8 ₨	
[T]	U+20AE ₱	U+20B8
[Y]	U+00A5 ¥	
[U]		
[I]		
[O]		
[P]	U+20B0 ₪	U+20B1 ₪
[A]	U+20B3 ₺	
[S]	U+20AA ₪	
[D]	U+20AB Ɐ	U+20AF Ɐ
[F]	U+0192 f	U+20A3 ₣
[G]	U+20B2 Ⱨ	
[H]	U+20B4 ⱡ	
[J]		
[K]	U+20AD ₣	
[L]	U+00A3 £	U+20A4 £
[Z]		
[X]	U+20A2 Ⱨ	
[C]	U+00A2 ¢	U+20B5 ¢
[V]		
[B]	U+0E3F ₪	
[N]	U+20A6 ₪	
[M]	U+20A5 ₪	U+2133 ₪


**Group YO: Universal compatibility;**  
**Group YU: Universal symbols and fractions;**

## Group YT: Digits raised and lowered

(for the group YM: see below)

	Gr. YO, L.1	Gr. YO, L.2	Gr. YU, L.1	Gr. YU, L.2	Gr. YT, L.1	Gr. YT, L.2
[1]	U+0027 '	U+0021 !	U+0040 @	U+2153 ⅓	U+00B9 <sup>1</sup>	U+2081 <sub>1</sub>
[2]	U+0022 "	U+003F ?	U+0024 \$	U+2154 ⅔	U+00B2 <sup>2</sup>	U+2082 <sub>2</sub>
[3]	U+002F /	U+003C <	U+005C \	U+215C ¾	U+00B3 <sup>3</sup>	U+2083 <sub>3</sub>
[4]	U+002D -	U+003E >	U+007C	U+215A ⅝	U+2074 <sup>4</sup>	U+2084 <sub>4</sub>
[5]	U+002B +	U+0025 %	U+005B [	U+215D ⅞	U+2075 <sup>5</sup>	U+2085 <sub>5</sub>
[6]	U+003B ;	U+003D =	U+005D ]	U+2159 ⅙	U+2076 <sup>6</sup>	U+2086 <sub>6</sub>
[7]	U+003A :	U+0026 &	U+007B {	U+215E ⅞	U+2077 <sup>7</sup>	U+2087 <sub>7</sub>
[8]	U+002C ,	U+002A *	U+007D }	U+215B ⅚	U+2078 <sup>8</sup>	U+2088 <sub>8</sub>
[9]	U+002E .	U+0028 (	U+007E ~	U+0023 #	U+2079 <sup>9</sup>	U+2089 <sub>9</sub>
[0]	U+005F _	U+0029 )	U+005E ^	U+0060 `	U+2070 <sup>0</sup>	U+2080 <sub>0</sub>

## Group YP: Punctuation

	Group YP, Level 1 ( <i>unshifted</i> )	Group YP, Level 2 ( <i>shifted</i> )
[1]	U+00A1 ¡	U+27E8 { left angle bracket
[2]	U+00BF ¿	U+27E9 } right angle bracket
[3]	U+00B7 · middle dot	U+2026 …
[4]	U+2036 ``	U+2035 ` reverse prime
[5]	U+2033 ``	U+2032 ´
[6]	U+201E „	U+201A ,
[7]	U+201C “	U+2018 ‘
[8]	U+201D ”	U+2019 ’ ( <i>also typographical apostrophe</i> )
[9]	U+00AB «	U+2039 <
[0]	U+00BB »	U+203A >
[comma]	U+200C ZWNJ (zero width non-joiner)	U+200D ZWJ (zero width joiner)
[dot]	U+034F CGJ (combining grapheme joiner)	U+FFFD  ( <i>substitution for wrong input</i> )
[dash]	U+2011 - non-breaking hyphen	U+00AD soft hyphen

## Group YS: Symbols; Group YM: Mathematical and extra symbols

	Group YS, Level 1	Group YS, Level 2	Gr. YM, L.1	Gr. YM, L.2
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[Q]	U+00B1 ±	U+00BC ¼	U+221E ∞	U+266A ♪
[W]	U+2013 – en dash ( <i>Europe</i> )	U+00BD ½	U+2423 ▬	U+266B ♫
[E]	U+2014 — em dash ( <i>USA</i> )	U+00BE ¾	U+212E €	U+2208 €
[R]	U+00B0 °	U+00AE ®	U+2713 ✓	U+221A √
[T]	U+2300 ∅ diameter	U+2122 ™	U+2205 ∅	U+2022 •
[Y]	U+2212 − minus sign	U+2015 — citation dash	U+25CB ○	U+25CF ●
[U]	U+2248 ≈	U+223C ~ typographical tilde	U+25CC ◌	U+25C9 ●
[I]	U+00A7 §	U+2030 ‰	U+2261 ≡	U+222B ∫
[O]	U+00BA °	U+03A9 Ω ( <i>not U+2126 !</i> )	U+2295 ⊕	U+2297 ⊗
[P]	U+00B6 ¶	U+2117 ©	U+2259 ≎	U+220F ∏
[A]	U+00AA ª	U+214D ⅆ ( <i>Norwegian</i> )	U+2200 ∇	U+2203 ∃
[S]	U+263A ☺	U+2120 ™ service mark	U+2639 ☹	U+2211 ∑
[D]	U+2020 †	U+2021 ‡	U+2202 ∂	U+2206 Δ
[F]	U+2264 ≤	U+2260 ≠	U+226A ≪	U+2640 ♀
[G]	U+2265 ≥	U+00F7 ÷	U+226B ≫	U+221F ∟
[H]	U+2190 ←	U+203B ※	U+27EA «	U+FD3E (
[J]	U+2192 →	U+00A4 ¤	U+27EB »	U+FD3F )
[K]	U+2191 ↑	U+2197 ↗	U+2016 ∥	U+00A6 ¦
[L]	U+2193 ↓	U+2198 ↘	U+21B2 ↵	U+2194 ↔
[Z]	U+2215 / typographical slash	U+2044 ⁄ fraction slash	U+2AFD	U+25CA ◇
[X]	U+00D7 ×	U+2217 * typographical not-raised asterisk	U+2E28 ((	U+2282 ⊂
[C]	U+2105 ‰	U+00A9 ©	U+2E29 ))	U+2283 ⊃
[V]	U+2010 - typographical hyphen	U+2027 · hyphenation point	U+2228 √	U+222A ∪
[B]	U+266D ♭ musical flat sign ( <i>for music titles</i> )	U+266F ♯ musical sharp sign ( <i>for music titles</i> )	U+2227 ∟	U+2229 ∩
[N]	U+25E6 ◦	U+2116 №	U+00AC ¬	U+2310 ⇐
[M]	U+00B5 μ	U+204A 7 Tironian et	U+2052 ‰	U+2642 ♂
[space]	U+00A0 NBSP (no-break space)	U+202F NNBS (narrow no-break space)	U+2007 figure space	

## Group YY: Compatibility Characters and Symbols

	Group YY, Level 1 ( <i>unshifted</i> )	Group YY, Level 2 ( <i>shifted</i> )
[Q]	U+203D ?	U+2E18 ð
[W]	U+2302 △	U+25B2 ▲

[E]	U+2195 †	U+21A8 ‡
[R]	U+A75B ƚ	U+211B ℞
[T]	U+2034 ⁂	U+203C !!
[Y]	U+203E ⁞	U+2017 =
[U]	U+263C ✱	U+2756 ♦
[I]	U+0133 ij	U+0132 IJ
[O]	U+037E ;	U+2126 Ω
[P]	U+0387 ·	U+260E ☎
[A]	U+2219 •	U+25C4 ◀
[S]	U+263B ☺	U+25BC ▼
[D]	U+2114 Ъ	U+25BA ▶
[F]	U+FB01 fi	U+2663 ♣
[G]	U+FB02 fl	U+2666 ♦
[H]	U+2661 ♥	U+2665 ♥
[J]	U+1FBE ,	U+2660 ♠
[K]	U+0374 '	U+205E †
[L]	U+0140 Ь	U+013F Ь
[Z]	U+2113 ℓ	U+2311 ▣
[X]	U+1FEF `	U+261E ☞
[C]	U+1FFD ´	U+261C ☜
[V]	U+25AB □	U+25AA ■
[B]	U+25A1 □	U+25A0 ■
[N]	U+0149 'n	U+25AC ■
[M]	U+201B ´	U+201F ˆ

## Appendix C: Table for the special mode "IPA"

This appendix is normative.

See clause 8.

The row index is the letter to be entered first.

The column index is the digit to be entered second.

	[0]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
[a]	IPA 304: U+0061 a			IPA 324: U+0250 ɐ		IPA 305: U+0251 ɑ	IPA 313: U+0252 ɒ			IPA 325: U+00E6 æ

[b]	IPA 102: U+0062 b		IPA 121: U+0299 B		IPA 160: U+0253 6	IPA 127: U+03B2 β			IPA 901: U+005B [	IPA 902: U+005D ]
[c]	IPA 107: U+0063 c				IPA 163: U+0188 c̣	IPA 138: U+00E7 ç	IPA 202: U+0297 ċ		IPA 182: U+0255 ċ	
[d]	IPA 104: U+0064 d		IPA 219: U+1D91 ḍ		IPA 162: U+0257 ḍ	IPA 131: U+00F0 ð	U+0256 ḍ	IPA 212: U+02A3 dz	IPA 214: U+02A4 ḍz	IPA 216: U+02A5 ḍz
[e]	IPA 302: U+0065 e	IPA 218: U+1D4A ɶ	U+025D ɶ̣	IPA 322: U+0259 ɶ̣	IPA 327: U+025A ɶ̣	IPA 303: U+025B ε	IPA 326: U+025C ɶ̣	IPA 395: U+025E ɶ̣	IPA 396: U+029A ɶ̣	IPA 397: U+0258 ɶ̣
[f]	IPA 128: U+0066 f	IPA 177: U+01C0 l	IPA 180: U+01C1 l	IPA 179: U+01C2 †	IPA 178: U+01C3 !	IPA 176: U+0298 ɸ		IPA 126: U+0278 φ		
[g]	IPA 210: U+0067 g		IPA 112: U+0262 G		IPA 166: U+0260 ġ	IPA 141: U+0263 γ	IPA 110: U+0261 g	IPA 168: U+029B ġ	IPA 315: U+0264 γ̣	IPA 422: U+02E0 γ̣
[h]	IPA 146: U+0068 h	IPA 404: U+02B0 ḥ	IPA 172: U+029C H	IPA 171: U+0265 ħ	IPA 147: U+0266 ħ̣		IPA 175: U+0267 ħ̣	IPA 144: U+0127 ħ̣	U+02AE ħ̣	U+02AF ħ̣
[i]	IPA 301: U+0069 i		IPA 319: U+026A I			IPA 399: U+0269 ị		IPA 317: U+0268 ị	IPA 504: U+02D1 ị	IPA 503: U+02D0 ị
[j]	IPA 153: U+006A j	IPA 421: U+02B2 j̣					IPA 139: U+029D j̣	IPA 108: U+025F j̣	IPA 164: U+0284 j̣	IPA 509: U+203F j̣
[k]	IPA 109: U+006B k			IPA 291: U+029E ƙ	IPA 165: U+0199 ḳ					
[l]	IPA 155: U+006C l	IPA 426: U+02E1 ḷ	IPA 158: U+029F L	IPA 294: U+019B λ̣	IPA 148: U+026C ł	IPA 295: U+03BB λ̣	IPA 156: U+026D ḷ	IPA 209: U+026B ł	U+0234 ḷ	IPA 149: U+026E λ̣
[m]	IPA 114: U+006D m			IPA 316: U+026F ɱ			IPA 115: U+0271 ɱ̣		IPA 154: U+0270 ɱ̣	
[n]	IPA 116: U+006E n	IPA 425: U+207F ṇ	IPA 120: U+0274 N			IPA 117: U+0273 ɳ̣	IPA 119: U+014B ɳ̣	IPA 293: U+019E ɳ̣	U+0235 ɳ̣	IPA 118: U+0272 ɳ̣
[o]	IPA 307: U+006F o		IPA 312: U+0276 œ̣			IPA 398: U+0277 ɔ̣	IPA 306: U+0254 ɔ̣	IPA 323: U+0275 ɔ̣	IPA 310: U+00F8 ø̣	IPA 311: U+0153 œ̣
[p]	IPA 101: U+0070 p				IPA 159: U+01A5 p̣					
[q]	IPA 111: U+0071 q	IPA 423: U+02E4 q̣			IPA 167: U+02A0 q̣	IPA 113: U+0294 ?̣	IPA 145: U+0295 ?̣	IPA 173: U+02A1 ?̣	IPA 174: U+02A2 ?̣	IPA 203: U+0296 ?̣
[r]	IPA 122: U+0072 r	U+027F ṛ	IPA 123: U+0280 R	IPA 151: U+0279 ṛ	IPA 124: U+027E ṛ	IPA 143: U+0281 ɽ̣	IPA 125: U+027D ṛ	IPA 152: U+027B ṛ	IPA 181: U+027A ṛ	IPA 206: U+027C ṛ
[s]	IPA 132: U+0073 s	IPA 207: U+02E2 ṣ		U+0285 ṣ			IPA 134: U+0283 ṣ́	IPA 136: U+0282 ṣ́	IPA 204: U+0286 ṣ́	
[t]	IPA 103: U+0074 t			IPA 201: U+0287 ṭ	IPA 161: U+01AD ṭ	IPA 130: U+03B8 θ̣	IPA 105: U+0288 ṭ	IPA 208: U+01AB ṭ	U+0236 ṭ	IPA 217: U+1DBF θ̣
[u]	IPA 308: U+0075 u							IPA 318: U+0289 ụ	IPA 502: U+02CC ụ	IPA 501: U+02C8 ụ
[v]	IPA 129: U+0076 v			IPA 314: U+028C ṿ	IPA 184: U+2C71 ṿ	IPA 150: U+028B ṿ			IPA 507: U+007C ṿ	IPA 508: U+2016 ṿ
[w]	IPA 170: U+0077 w	IPA 420: U+02B7 ẉ		IPA 169: U+028D ẉ						



[x]	IPA 140: U+0078 x	IPA 292: U+02E3 x				IPA 142: U+03C7 χ		IPA 211: U+02A6 ts	IPA 213: U+02A7 fj	IPA 215: U+02A8 tç
[y]	IPA 309: U+0079 y	IPA 496: U+02B8 y	IPA 320: U+028F γ	IPA 157: U+028E λ		IPA 321: U+028A υ				
[z]	IPA 133: U+007A z					IPA 135: U+0292 ζ	IPA 137: U+0290 ζ	IPA 290: U+01BB 2	IPA 183: U+0291 2	IPA 205: U+0293 3

## Appendix D: Summary of Unicode characters

This appendix is informative.

### D.1 - Unicode characters contained in any group, by code point:

0020-007E	0300-0304	05D0-05EA	207F-2089	25B2
00A0-00BF	0306-0314	05F0-05F4	2093	25BA
00C6	0316-0332	0E3F	20A0-20B5	25BC
00D0	0334-033D	10D0-10FC	20B8	25C4
00D7-00D8	0342	1D2C	20DD	25C9-25CC
00DE-00DF	0345	1D2E	2105	25CF
00E6-00E7	0347	1D30-1D31	2113-2114	25E6
00F0	034F	1D33-1D3A	2116-2117	260E
00F7-00F8	0358	1D3C	211B	261C
00FE	035C	1D3E-1D43	2120	261E
0110-0111	035F-0361	1D47-1D4A	2122	2639-263C
0126-0127	0370-0377	1D4D	2126	2640
0130-0133	037A-037E	1D4F-1D50	212E	2642
0138	0384	1D52	2133	2660-2661
013F-0142	0387	1D56-1D58	214D	2663
0149-014B	0391-03A1	1D5B	2153-2154	2665-2666
0152-0153	03A3-03A9	1D7D	2159-215E	266A-266B
0166-0167	03B1-03C9	1D91	2190-2195	266D
017F-0183	03CF-03D2	1D9C	2197-2198	266F
0186-018C	03D5-03E1	1DA0	21A8	2713
018E-019F	03F0-03FF	1DBB	21B2	2756
01A2-01A6	0402	1DBF	2200	27E8-27EB
01A9	0404-0406	1DC4-1DC5	2202-2203	2AFD
01AB-01AE	0408-040B	1DC8	2205-2206	2C60-2C66
01B1-01B9	040F-044F	1DCA	2208	2C6D-2C6E
01BB	0452	1DFD	220F	2C71-2C73
01BF-01C3	0454-0456	1E9E	2211-2212	2C7D
01DD	0458-045B	1FBD-1FC0	2215	2E17-2E18
01E4-01E5	045F-0475	1FEF	2217	2E28-2E29
01F6-01F7	0478-0489	1FFD-1FFE	2219-221A	A640-A643
021C-021D	0490-04C0	2007	221E-221F	A64A-A64B
0220	04C3-04C4	200C-200D	2227-222B	A650-A651
0222-0225	04C7-04C8	2010-2011	223C	A656-A657
0234-0236	04CB-04CC	2013-2022	2248	A717-A71C
023A-023E	04CF	2024	2259	A722-A727
0241-02A8	04D4-04D5	2026-2027	2260-2261	A75B
02AE-02B0	04D8-04D9	202F-2030	2264-2265	A788-A78D
02B2-02B3	04E0-04E1	2032-2036	226A-226B	FB01-FB02
02B7-02C1	04E8-04E9	2039-2040	2282-2283	FB13-FB17
02C6-02D1	04F6-04F7	2044	2295	FB1E
02D4-02DE	0510-0513	204A	2297	FB29
02E0-02E9	0524-0527	2052-2053	2300	FB4F
02EC	0531-0556	2056	2302	FD3E-FD3F
02EE	055A-055F	2058-2059	2310-2311	FFFD
02F3-02F4	0561-0587	205E	2423	
02F7	0589-058A	2070-2071	25A0-25A1	
02F9	0591-05C7	2074-2079	25AA-25AC	

D. 2 - Unicode characters contained in any group and precomposed characters enterable by diacritic sequences, excluding characters included only for compatibility (Group YY), by code point:

D. 2. 1 - Digits, punctuation and symbols:

0020- 0040	2020- 2022	2120	2215	2423
005B- 0060	2026- 2027	2122	2217	25C9- 25CC
007B- 007E	202F- 2030	212B	221A	25CF
00A0- 00AE	2032- 2033	212E	221E- 221F	25E6
00B0- 00B3	2035- 2036	2133	2227- 222B	2639- 263A
00B5- 00BF	2039- 203B	214D	223C	2640
00D7	203F- 2040	2153- 2154	2241	2642
00F7	2044	2159- 215E	2248- 2249	266A- 266B
02C8	204A	2190- 2194	2259	266D
02CC- 02CD	2052- 2053	2197- 2198	2260- 2262	266F
02D0	2070	219A- 219B	2264- 2265	2713
03A9	2074- 2079	21AE	226A- 226B	27E8- 27EB
0E3F	2080- 2089	21B2	226E- 2271	2AFD
2007	20A0- 20A9	2200	2282- 2285	2E28- 2E29
2010- 2011	20AB- 20B5	2202- 2206	2295	FD3E- FD3F
2013- 2016	20B8	2208- 2209	2297	FFFD
2018- 201A	2105	220F	2300	
201C- 201E	2116- 2117	2211- 2212	2310	

D. 2. 2 - Latin:

0041- 005A	023A- 023E	0298	0358	1DFD
0061- 007A	0241- 024F	02B0	035C	1E00- 1E99
00AF	0251	02B2- 02B3	035F- 0361	1E9B
00B4	0253- 0254	02B7- 02C1	1D2C	1E9E
00C0- 00D6	0256- 0257	02C6- 02C7	1D2E	1EA0- 1EF9
00D8- 00E6	0259	02C9- 02CB	1D30- 1D31	2071
00E8- 00F6	025B	02D8- 02DD	1D33- 1D3A	207F
00F8- 0131	0260	02E1- 02E3	1D3C	2093
0134- 013E	0263	02EC	1D3E- 1D43	2C60- 2C66
0141- 0148	0265- 0266	02EE	1D47- 1D4A	2C6D- 2C6E
014A- 0183	0268- 026B	02F3- 02F4	1D4D	2C72- 2C73
0186- 018C	026F	02F7	1D4F- 1D50	2C7D
018E- 019A	0271- 0272	0300- 0304	1D52	2E17
019C- 01A6	0275	0306- 0314	1D56- 1D58	A717- A71A
01A9	027C- 027D	031B	1D5B	A722- A727
01AC- 01B9	0280	0323- 0329	1D7D	A788- A78D
01BF- 01C3	0283	032D- 032E	1D9C	
01CD- 01F0	0288- 028C	0330- 0332	1DA0	
01F4- 0220	0292	0335- 0338	1DBB	
0222- 0233	0294- 0295	0347	1DCA	

D. 2. 3 - Greek:

0300- 0301	037A- 037D	1F00- 1F15	1F5D	1FDD- 1FEE
0308	0384- 0386	1F18- 1F1D	1F5F- 1F7D	1FF2- 1FF4
0313- 0314	0388- 038A	1F20- 1F45	1F80- 1FB4	1FF6- 1FFC
0342	038C	1F48- 1F4D	1FB6- 1FBD	1FFE
0344- 0345	038E- 03A1	1F50- 1F57	1FBF- 1FC4	2059
0370- 0373	03A3- 03E1	1F59	1FC6- 1FD3	
0375- 0377	03F0- 03FF	1F5B	1FD6- 1FDB	

D. 2. 4 - Cyrillic:

0300- 0301	030F	04CF- 04F9	2056	A650- A651
0304	0400- 0489	0510- 0513	2058- 2059	A656- A657
0306	0490- 04C4	0524- 0527	20DD	

0308	04C7- 04C8	0589	A640- A643
030B	04CB- 04CC	10FB	A64A- A64B

D. 2. 5 - Armeni an:

0531- 0556	0561- 0587	2024
055A- 055F	0589- 058A	FB13- FB17

D. 2. 6 - Georgi an:

0589	10D0- 10FC
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D. 2. 7 - Hebrew:

0300- 0301	0591- 05C7	200C- 200D	FB29- FB36	FB40- FB41
0307- 0308	05D0- 05EA	20AA	FB38- FB3C	FB43- FB44
034F	05F0- 05F4	FB1D- FB1F	FB3E	FB46- FB4F

D. 2. 8 - IPA:

0028- 0029	0199	02BB- 02BC	0316- 031A	1DBF
002C	019B	02C8	031C- 0325	1DC4- 1DC5
002E- 002F	019E	02CC	0329- 032C	1DC8
005B	01A5	02CE- 02D1	032F- 0330	2016
005D	01AB	02D4- 02D7	0334	203F
0061- 007D	01AD	02DE	0339- 033D	207F
00E6- 00E7	01BB	02E0- 02E9	0361	2197- 2198
00F0	01C0- 01C3	02F9	03B2	2C71
00F8	0234- 0236	0300- 0304	03B8	2E28- 2E29
0127	0250- 02A8	0306- 0308	03BB	A71B- A71C
014B	02AE- 02B0	030A- 030C	03C7	
0153	02B2	030F	1D4A	
0188	02B7- 02B8	0311	1D91	

Regarding the tone letters U+02E5- 02E9:

The combinations listed on p.252 of the printed Unicode Standard 5.0 must be possible.

D. 2. 9 - Included only for compatibility reasons:

0132- 0133	1FFD	211B	25AA- 25AC	263B- 263C
013F- 0140	2017	2126	25B2	2660- 2661
0149	201B	2195	25BA	2663
0374	201F	21A8	25BC	2665- 2666
037E	2034	2219	25C4	2756
0387	203C- 203E	2302	260E	2E18
1FBE	205E	2311	261C	A75B
1FEF	2113- 2114	25A0- 25A1	261E	FB01- FB02

# Appendix E:

## List of enterable Unicode characters

This appendix is informative.

Column IPA: IPA code (if any). - Column "U+...": Unicode value.

Characters deliberately not included as enterable are marked by "x".

Characters replaced by their Unicode decomposition are marked by "=".

Characters included only for compatibility (Group YY) are marked by "y".

Other characters contained in MES-1, MES-2, WGL4 but not enterable are marked with an asterisk.

Column "124X": Character contained in MES-1, MES-2, WGL4,

or in a special script (L=Latin, G=Greek, c=Cyrillic, Q=Armenian, W=Georgian, H=Hebrew)

Column "Entered by": Group + Level digit + "-" + Key ("#" means SPACE),

Alternatives denoted by ";", sequences denoted by "'"

IPA input (Special Mode "I") denoted by "i~" + letter + digit

Column "Name": Unicode name (followed by a remark if deliberately not enterable)

followed by IPA name and purpose (if applicable).

IPA	U+...	124X	Entered by	Name
0020	124-	L1-#; L2-#	....	SPACE
0021	124-	Y02-1	....	EXCLAMATION MARK
0022	124-	Y01-2	....	QUOTATION MARK
0023	124-	YU2-9	....	NUMBER SIGN
0024	124-	YU1-2	....	DOLLAR SIGN
0025	124-	Y02-5	....	PERCENT SIGN
0026	124-	Y02-7	....	AMPERSAND
0027	124-	H1-w; Y01-1	....	APOSTROPHE
906 0028	124-	DJ1-x; Y02-9	....	LEFT PARENTHESIS
				Left parenthesis; Silent articulation (Mouthing)
907 0029	124-	DJ1-c; Y02-0	....	RIGHT PARENTHESIS
				Right parenthesis; Silent articulation (Mouthing)
002A	124-	Y02-8	....	ASTERISK
002B	124-	Y01-5	....	PLUS SIGN
491 002C	124-	DS2-A; DJ2-A; Y01-8	....	COMMA
				Comma; Pause (comma)
002D	124-	Y01-4	....	HYPHEN-MINUS
506 002E	124-	DS2-S; DJ2-S; Y01-9	....	FULL STOP
				Period; Syllable break
903 002F	124-	DJ1-b; H1-q; Y01-3	....	SOLIDUS
				Slash; Begin/end phonemic transcription
0030	124-	L1-0	....	DIGIT ZERO
0031	124-	L1-1	....	DIGIT ONE
0032	124-	L1-2	....	DIGIT TWO
0033	124-	L1-3	....	DIGIT THREE
0034	124-	L1-4	....	DIGIT FOUR
0035	124-	L1-5	....	DIGIT FIVE
0036	124-	L1-6	....	DIGIT SIX
0037	124-	L1-7	....	DIGIT SEVEN
0038	124-	L1-8	....	DIGIT EIGHT
0039	124-	L1-9	....	DIGIT NINE
003A	124-	G2-Q; Y01-7	....	COLON
003B	124-	G1-q; Y01-6	....	SEMICOLON
003C	124-	Y02-3	....	LESS-THAN SIGN
003D	124-	Y02-6	....	EQUALS SIGN
003E	124-	Y02-4	....	GREATER-THAN SIGN
003F	124-	Y02-2	....	QUESTION MARK
0040	124-	YU1-1	....	COMMERCIAL AT
0041	124L	L2-A	....	LATIN CAPITAL LETTER A
0042	124L	L2-B	....	LATIN CAPITAL LETTER B
0043	124L	L2-C	....	LATIN CAPITAL LETTER C
0044	124L	L2-D	....	LATIN CAPITAL LETTER D
0045	124L	L2-E	....	LATIN CAPITAL LETTER E
0046	124L	L2-F	....	LATIN CAPITAL LETTER F
0047	124L	L2-G	....	LATIN CAPITAL LETTER G
0048	124L	L2-H	....	LATIN CAPITAL LETTER H
0049	124L	L2-I	....	LATIN CAPITAL LETTER I
004A	124L	L2-J	....	LATIN CAPITAL LETTER J
004B	124L	L2-K	....	LATIN CAPITAL LETTER K
004C	124L	L2-L	....	LATIN CAPITAL LETTER L
004D	124L	L2-M	....	LATIN CAPITAL LETTER M
004E	124L	L2-N	....	LATIN CAPITAL LETTER N
004F	124L	L2-O	....	LATIN CAPITAL LETTER O
0050	124L	L2-P	....	LATIN CAPITAL LETTER P
0051	124L	L2-Q	....	LATIN CAPITAL LETTER Q
0052	124L	L2-R	....	LATIN CAPITAL LETTER R
0053	124L	L2-S	....	LATIN CAPITAL LETTER S
0054	124L	L2-T	....	LATIN CAPITAL LETTER T
0055	124L	L2-U	....	LATIN CAPITAL LETTER U
0056	124L	L2-V	....	LATIN CAPITAL LETTER V
0057	124L	L2-W	....	LATIN CAPITAL LETTER W
0058	124L	L2-X	....	LATIN CAPITAL LETTER X
0059	124L	L2-Y	....	LATIN CAPITAL LETTER Y
005A	124L	L2-Z	....	LATIN CAPITAL LETTER Z
901 005B	124-	DJ1-h; YU1-5; i~b8	....	LEFT SQUARE BRACKET
				Left square bracket; Begin phonetic transcription
005C	124-	YU1-3	....	REVERSE SOLIDUS
902 005D	124-	DJ1-j; YU1-6; i~b9	....	RIGHT SQUARE BRACKET
				Right square bracket; End phonetic transcription
005E	124-	YU1-0	....	CIRCUMFLEX ACCENT
005F	124-	Y01-0	....	LOW LINE
0060	124-	YU2-0	....	GRAVE ACCENT
304 0061	124L	L1-a; i~a0	....	LATIN SMALL LETTER A

102	0062	124L	L1-b; i~b0	.....	.....	.....	Lower-case A; Open front unrounded vowel
							LATIN SMALL LETTER B
107	0063	124L	L1-c; i~c0	.....	.....	.....	Lower-case B; Voiced bilabial plosive
							LATIN SMALL LETTER C
104	0064	124L	L1-d; i~d0	.....	.....	.....	Lower-case C; Voiceless palatal plosive
							LATIN SMALL LETTER D
302	0065	124L	L1-e; i~e0	.....	.....	.....	Lower-case D; Voiced dental or alveolar plosive
							LATIN SMALL LETTER E
128	0066	124L	L1-f; i~f0	.....	.....	.....	Lower-case E; Close-mid front unrounded vowel
							LATIN SMALL LETTER F
210	0067	124L	L1-g; i~g0	.....	.....	.....	Lower-case F; Voiceless labiodental fricative
							LATIN SMALL LETTER G
146	0068	124L	L1-h; i~h0	.....	.....	.....	Looptail G; Voiced velar plosive
							LATIN SMALL LETTER H
301	0069	124L	L1-i; i~i0	.....	.....	.....	Lower-case H; Voiceless glottal fricative
							LATIN SMALL LETTER I
153	006A	124L	L1-j; i~j0	.....	.....	.....	Lower-case I; Close front unrounded vowel
							LATIN SMALL LETTER J
109	006B	124L	L1-k; i~k0	.....	.....	.....	Lower-case J; Voiced palatal approximant
							LATIN SMALL LETTER K
155	006C	124L	L1-l; i~l0	.....	.....	.....	Lower-case K; Voiceless velar plosive
							LATIN SMALL LETTER L
114	006D	124L	L1-m; i~m0	.....	.....	.....	Lower-case L; Voiced dental or alveolar lateral approximant
							LATIN SMALL LETTER M
116	006E	124L	L1-n; i~n0	.....	.....	.....	Lower-case M; Voiced bilabial nasal
							LATIN SMALL LETTER N
307	006F	124L	L1-o; i~o0	.....	.....	.....	Lower-case N; Voiced dental or alveolar nasal
							LATIN SMALL LETTER O
101	0070	124L	L1-p; i~p0	.....	.....	.....	Lower-case O; Close-mid back rounded vowel
							LATIN SMALL LETTER P
111	0071	124L	L1-q; i~q0	.....	.....	.....	Lower-case P; Voiceless bilabial plosive
							LATIN SMALL LETTER Q
122	0072	124L	L1-r; i~r0	.....	.....	.....	Lower-case Q; Voiceless uvular plosive
							LATIN SMALL LETTER R
132	0073	124L	L1-s; i~s0	.....	.....	.....	Lower-case R; Voiced dental or alveolar trill
							LATIN SMALL LETTER S
103	0074	124L	L1-t; i~t0	.....	.....	.....	Lower-case S; Voiceless alveolar fricative
							LATIN SMALL LETTER T
308	0075	124L	L1-u; i~u0	.....	.....	.....	Lower-case T; Voiceless dental or alveolar plosive
							LATIN SMALL LETTER U
129	0076	124L	L1-v; i~v0	.....	.....	.....	Lower-case U; Close back rounded vowel
							LATIN SMALL LETTER V
170	0077	124L	L1-w; i~w0	.....	.....	.....	Lower-case V; Voiced labiodental fricative
							LATIN SMALL LETTER W
140	0078	124L	L1-x; i~x0	.....	.....	.....	Lower-case W; Voiced labial-velar approximant
							LATIN SMALL LETTER X
309	0079	124L	L1-y; i~y0	.....	.....	.....	Lower-case X; Voiceless velar fricative
							LATIN SMALL LETTER Y
133	007A	124L	L1-z; i~z0	.....	.....	.....	Lower-case Y; Close front rounded vowel
							LATIN SMALL LETTER Z
910	007B	124-	DJ2-H; YU1-7	.....	.....	.....	Lower-case Z; Voiced alveolar fricative
							LEFT CURLY BRACKET
507	007C	124-	DJ1-n; YU1-4; i~v8	.....	.....	.....	Left brace; Begin prosodic notation
							VERTICAL LINE
911	007D	124-	DJ2-J; YU1-8	.....	.....	.....	Vertical line (thick); Minor (foot) group
							RIGHT CURLY BRACKET
							Right brace; End prosodic notation
007E	124-	G2-W; YU1-9	.....	.....	.....	.....	TILDE
00A0	124-	YS1-#	.....	.....	.....	.....	NO-BREAK SPACE
00A1	124-	YP1-1	.....	.....	.....	.....	INVERTED EXCLAMATION MARK
00A2	124-	YC1-c	.....	.....	.....	.....	CENT SIGN
00A3	124-	YC1-l	.....	.....	.....	.....	POUND SIGN
00A4	124-	YS2-J	.....	.....	.....	.....	CURRENCY SIGN
00A5	124-	YC1-y	.....	.....	.....	.....	YEN SIGN
00A6	124-	YM2-K	.....	.....	.....	.....	BROKEN BAR
00A7	124-	YS1-i	.....	.....	.....	.....	SECTION SIGN
00A8	124-	DS1-e	.....	.....	.....	.....	DI AERESIS
00A9	124-	YS2-C	.....	.....	.....	.....	COPYRIGHT SIGN
00AA	124-	YS1-a	.....	.....	.....	.....	FEMININE ORDINAL INDICATOR
00AB	124-	YP1-9	.....	.....	.....	.....	LEFT-POINTING DOUBLE ANGLE QUOTATION MARK
00AC	124-	YM1-n	.....	.....	.....	.....	NOT SIGN
00AD	124-	YP2--	.....	.....	.....	.....	SOFT HYPHEN
00AE	124-	YS2-R	.....	.....	.....	.....	REGISTERED SIGN
00AF	124L	DM1-4	.....	.....	.....	.....	MACRON
00B0	124-	YS1-r	.....	.....	.....	.....	DEGREE SIGN
00B1	124-	YS1-q	.....	.....	.....	.....	PLUS-MINUS SIGN
00B2	124-	YT1-2	.....	.....	.....	.....	SUPERSCRIP T TWO
00B3	124-	YT1-3	.....	.....	.....	.....	SUPERSCRIP T THREE
00B4	124L	DM1-1	.....	.....	.....	.....	ACUTE ACCENT
00B5	124-	YS1-m	.....	.....	.....	.....	MICRO SIGN
00B6	124-	YS1-p	.....	.....	.....	.....	PILCROW SIGN
00B7	124-	CX2-D; YP1-3	.....	.....	.....	.....	MIDDLE DOT
00B8	124-	DS2-0	.....	.....	.....	.....	CEDILLA
00B9	124-	YT1-1	.....	.....	.....	.....	SUPERSCRIP T ONE
00BA	124-	YS1-o	.....	.....	.....	.....	MASCULINE ORDINAL INDICATOR
00BB	124-	YP1-0	.....	.....	.....	.....	RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK
00BC	124-	YS2-Q	.....	.....	.....	.....	VULGAR FRACTION ONE QUARTER
00BD	124-	YS2-W	.....	.....	.....	.....	VULGAR FRACTION ONE HALF
00BE	124-	YS2-E	.....	.....	.....	.....	VULGAR FRACTION THREE QUARTERS
00BF	124-	YP1-2	.....	.....	.....	.....	INVERTED QUESTION MARK
00C0	124L	.....	L2-A' DW1-2	.....	.....	.....	LATIN CAPITAL LETTER A WITH GRAVE
00C1	124L	.....	L2-A' DW1-1	.....	.....	.....	LATIN CAPITAL LETTER A WITH ACUTE
00C2	124L	.....	L2-A' DW1-8	.....	.....	.....	LATIN CAPITAL LETTER A WITH CIRCUMFLEX
00C3	124L	.....	L2-A' DW1-4	.....	.....	.....	LATIN CAPITAL LETTER A WITH TILDE
00C4	124L	.....	L2-A' DW1-3	.....	.....	.....	LATIN CAPITAL LETTER A WITH DIAERESIS
00C5	124L	.....	L2-A' DW1-0	.....	.....	.....	LATIN CAPITAL LETTER A WITH RING ABOVE
00C6	124L	LE2-A	.....	.....	.....	.....	LATIN CAPITAL LETTER AE
00C7	124L	.....	L2-C' DW2-9	.....	.....	.....	LATIN CAPITAL LETTER C WITH CEDILLA
00C8	124L	.....	L2-E' DW1-2	.....	.....	.....	LATIN CAPITAL LETTER E WITH GRAVE

00C9	124L	....	L2-E'	DW1-1	....	LATIN CAPITAL LETTER E WITH ACUTE
00CA	124L	....	L2-E'	DW1-8	....	LATIN CAPITAL LETTER E WITH CIRCUMFLEX
00CB	124L	....	L2-E'	DW1-3	....	LATIN CAPITAL LETTER E WITH DIAERESIS
00CC	124L	....	L2-I'	DW1-2	....	LATIN CAPITAL LETTER I WITH GRAVE
00CD	124L	....	L2-I'	DW1-1	....	LATIN CAPITAL LETTER I WITH ACUTE
00CE	124L	....	L2-I'	DW1-8	....	LATIN CAPITAL LETTER I WITH CIRCUMFLEX
00CF	124L	....	L2-I'	DW1-3	....	LATIN CAPITAL LETTER I WITH DIAERESIS
00D0	124L	LE2-D	....	....	....	LATIN CAPITAL LETTER ETH
00D1	124L	....	L2-N'	DW1-4	....	LATIN CAPITAL LETTER N WITH TILDE
00D2	124L	....	L2-O'	DW1-2	....	LATIN CAPITAL LETTER O WITH GRAVE
00D3	124L	....	L2-O'	DW1-1	....	LATIN CAPITAL LETTER O WITH ACUTE
00D4	124L	....	L2-O'	DW1-8	....	LATIN CAPITAL LETTER O WITH CIRCUMFLEX
00D5	124L	....	L2-O'	DW1-4	....	LATIN CAPITAL LETTER O WITH TILDE
00D6	124L	....	L2-O'	DW1-3	....	LATIN CAPITAL LETTER O WITH DIAERESIS
00D7	124-	YS1-x	....	....	....	MULTIPLICATION SIGN
00D8	124L	LX2-0	....	....	....	LATIN CAPITAL LETTER O WITH STROKE
00D9	124L	....	L2-U'	DW1-2	....	LATIN CAPITAL LETTER U WITH GRAVE
00DA	124L	....	L2-U'	DW1-1	....	LATIN CAPITAL LETTER U WITH ACUTE
00DB	124L	....	L2-U'	DW1-8	....	LATIN CAPITAL LETTER U WITH CIRCUMFLEX
00DC	124L	....	L2-U'	DW1-3	....	LATIN CAPITAL LETTER U WITH DIAERESIS
00DD	124L	....	L2-Y'	DW1-1	....	LATIN CAPITAL LETTER Y WITH ACUTE
00DE	124L	LE2-T	....	....	....	LATIN CAPITAL LETTER THORN
00DF	124L	LE1-y	....	....	....	LATIN SMALL LETTER SHARP S
00E0	124L	....	L1-a'	DW1-2	....	LATIN SMALL LETTER A WITH GRAVE
00E1	124L	....	L1-a'	DW1-1	....	LATIN SMALL LETTER A WITH ACUTE
00E2	124L	....	L1-a'	DW1-8	....	LATIN SMALL LETTER A WITH CIRCUMFLEX
00E3	124L	....	L1-a'	DW1-4	....	LATIN SMALL LETTER A WITH TILDE
00E4	124L	....	L1-a'	DW1-3	....	LATIN SMALL LETTER A WITH DIAERESIS
00E5	124L	....	L1-a'	DW1-0	....	LATIN SMALL LETTER A WITH RING ABOVE
325 00E6	124L	LE1-a;	i~a9	....	....	LATIN SMALL LETTER AE Ash, Lower-case A-E ligature; Near-open front unrounded vowel
138 00E7	124L	L1-c'	DW2-9'	i~c5	....	LATIN SMALL LETTER C WITH CEDILLA C cedilla; Voiceless palatal fricative
00E8	124L	....	L1-e'	DW1-2	....	LATIN SMALL LETTER E WITH GRAVE
00E9	124L	....	L1-e'	DW1-1	....	LATIN SMALL LETTER E WITH ACUTE
00EA	124L	....	L1-e'	DW1-8	....	LATIN SMALL LETTER E WITH CIRCUMFLEX
00EB	124L	....	L1-e'	DW1-3	....	LATIN SMALL LETTER E WITH DIAERESIS
00EC	124L	....	L1-i'	DW1-2	....	LATIN SMALL LETTER I WITH GRAVE
00ED	124L	....	L1-i'	DW1-1	....	LATIN SMALL LETTER I WITH ACUTE
00EE	124L	....	L1-i'	DW1-8	....	LATIN SMALL LETTER I WITH CIRCUMFLEX
00EF	124L	....	L1-i'	DW1-3	....	LATIN SMALL LETTER I WITH DIAERESIS
131 00F0	124L	LE1-d;	i~d5	....	....	LATIN SMALL LETTER ETH Eth; Voiced dental fricative
00F1	124L	....	L1-n'	DW1-4	....	LATIN SMALL LETTER N WITH TILDE
00F2	124L	....	L1-o'	DW1-2	....	LATIN SMALL LETTER O WITH GRAVE
00F3	124L	....	L1-o'	DW1-1	....	LATIN SMALL LETTER O WITH ACUTE
00F4	124L	....	L1-o'	DW1-8	....	LATIN SMALL LETTER O WITH CIRCUMFLEX
00F5	124L	....	L1-o'	DW1-4	....	LATIN SMALL LETTER O WITH TILDE
00F6	124L	....	L1-o'	DW1-3	....	LATIN SMALL LETTER O WITH DIAERESIS
00F7	124-	YS2-G	....	....	....	DIVISION SIGN
310 00F8	124L	LX1-o;	i~o8	....	....	LATIN SMALL LETTER O WITH STROKE Slashed 0; Close-mid front rounded vowel
00F9	124L	....	L1-u'	DW1-2	....	LATIN SMALL LETTER U WITH GRAVE
00FA	124L	....	L1-u'	DW1-1	....	LATIN SMALL LETTER U WITH ACUTE
00FB	124L	....	L1-u'	DW1-8	....	LATIN SMALL LETTER U WITH CIRCUMFLEX
00FC	124L	....	L1-u'	DW1-3	....	LATIN SMALL LETTER U WITH DIAERESIS
00FD	124L	....	L1-y'	DW1-1	....	LATIN SMALL LETTER Y WITH ACUTE
00FE	124L	LE1-t	....	....	....	LATIN SMALL LETTER THORN
00FF	124L	....	L1-y'	DW1-3	....	LATIN SMALL LETTER Y WITH DIAERESIS
0100	124L	....	L2-A'	DW1--	....	LATIN CAPITAL LETTER A WITH MACRON
0101	124L	....	L1-a'	DW1--	....	LATIN SMALL LETTER A WITH MACRON
0102	124L	....	L2-A'	DW1-6	....	LATIN CAPITAL LETTER A WITH BREVE
0103	124L	....	L1-a'	DW1-6	....	LATIN SMALL LETTER A WITH BREVE
0104	124L	....	L2-A'	DW2-2	....	LATIN CAPITAL LETTER A WITH OGONEK
0105	124L	....	L1-a'	DW2-2	....	LATIN SMALL LETTER A WITH OGONEK
0106	124L	....	L2-C'	DW1-1	....	LATIN CAPITAL LETTER C WITH ACUTE
0107	124L	....	L1-c'	DW1-1	....	LATIN SMALL LETTER C WITH ACUTE
0108	124L	....	L2-C'	DW1-8	....	LATIN CAPITAL LETTER C WITH CIRCUMFLEX
0109	124L	....	L1-c'	DW1-8	....	LATIN SMALL LETTER C WITH CIRCUMFLEX
010A	124L	....	L2-C'	DW1--	....	LATIN CAPITAL LETTER C WITH DOT ABOVE
010B	124L	....	L1-c'	DW1--	....	LATIN SMALL LETTER C WITH DOT ABOVE
010C	124L	....	L2-C'	DW1-7	....	LATIN CAPITAL LETTER C WITH CARON
010D	124L	....	L1-c'	DW1-7	....	LATIN SMALL LETTER C WITH CARON
010E	124L	....	L2-D'	DW1-7	....	LATIN CAPITAL LETTER D WITH CARON
010F	124L	....	L1-d'	DW1-7	....	LATIN SMALL LETTER D WITH CARON
0110	124L	LZ2-D	....	....	....	LATIN CAPITAL LETTER D WITH STROKE
0111	124L	LZ1-d	....	....	....	LATIN SMALL LETTER D WITH STROKE
0112	124L	....	L2-E'	DW1--	....	LATIN CAPITAL LETTER E WITH MACRON
0113	124L	....	L1-e'	DW1--	....	LATIN SMALL LETTER E WITH MACRON
0114	-24L	....	L2-E'	DW1-6	....	LATIN CAPITAL LETTER E WITH BREVE
0115	-24L	....	L1-e'	DW1-6	....	LATIN SMALL LETTER E WITH BREVE
0116	124L	....	L2-E'	DW1--	....	LATIN CAPITAL LETTER E WITH DOT ABOVE
0117	124L	....	L1-e'	DW1--	....	LATIN SMALL LETTER E WITH DOT ABOVE
0118	124L	....	L2-E'	DW2-2	....	LATIN CAPITAL LETTER E WITH OGONEK
0119	124L	....	L1-e'	DW2-2	....	LATIN SMALL LETTER E WITH OGONEK
011A	124L	....	L2-E'	DW1-7	....	LATIN CAPITAL LETTER E WITH CARON
011B	124L	....	L1-e'	DW1-7	....	LATIN SMALL LETTER E WITH CARON
011C	124L	....	L2-G'	DW1-8	....	LATIN CAPITAL LETTER G WITH CIRCUMFLEX
011D	124L	....	L1-g'	DW1-8	....	LATIN SMALL LETTER G WITH CIRCUMFLEX
011E	124L	....	L2-G'	DW1-6	....	LATIN CAPITAL LETTER G WITH BREVE
011F	124L	....	L1-g'	DW1-6	....	LATIN SMALL LETTER G WITH BREVE
0120	124L	....	L2-G'	DW1--	....	LATIN CAPITAL LETTER G WITH DOT ABOVE
0121	124L	....	L1-g'	DW1--	....	LATIN SMALL LETTER G WITH DOT ABOVE
0122	124L	....	L2-G'	DW2-9	....	LATIN CAPITAL LETTER G WITH CEDILLA
0123	124L	....	L1-g'	DW2-9	....	LATIN SMALL LETTER G WITH CEDILLA
0124	124L	....	L2-H'	DW1-8	....	LATIN CAPITAL LETTER H WITH CIRCUMFLEX
0125	124L	....	L1-h'	DW1-8	....	LATIN SMALL LETTER H WITH CIRCUMFLEX
0126	124L	LZ2-H	....	....	....	LATIN CAPITAL LETTER H WITH STROKE
144 0127	124L	LZ1-h;	i~h7	....	....	LATIN SMALL LETTER H WITH STROKE

ISO 10646-3	ISO 10646-2	ISO 10646-1	ISO 10646-3	ISO 10646-2	ISO 10646-1	ISO 10646-3	ISO 10646-2	ISO 10646-1	ISO 10646-3	ISO 10646-2	ISO 10646-1
											Barred H; Voiceless pharyngeal fricative
0128	124L	.....	L2-I'	DW1-4	.....	.....	.....	.....	LATIN CAPITAL LETTER I WITH TILDE		
0129	124L	.....	L1-i'	DW1-4	.....	.....	.....	.....	LATIN SMALL LETTER I WITH TILDE		
012A	124L	.....	L2-I'	DW1--	.....	.....	.....	.....	LATIN CAPITAL LETTER I WITH MACRON		
012B	124L	.....	L1-i'	DW1--	.....	.....	.....	.....	LATIN SMALL LETTER I WITH MACRON		
012C	-24L	.....	L2-I'	DW1-6	.....	.....	.....	.....	LATIN CAPITAL LETTER I WITH BREVE		
012D	-24L	.....	L1-i'	DW1-6	.....	.....	.....	.....	LATIN SMALL LETTER I WITH BREVE		
012E	124L	.....	L2-I'	DW2-2	.....	.....	.....	.....	LATIN CAPITAL LETTER I WITH OGONEK		
012F	124L	.....	L1-i'	DW2-2	.....	.....	.....	.....	LATIN SMALL LETTER I WITH OGONEK		
0130	124L	LE2-I;	L2-I'	DW1-.	.....	.....	.....	.....	LATIN CAPITAL LETTER I WITH DOT ABOVE		
0131	124L	LE1-i	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER DOTLESS I		
0132y	124L	YY2-I	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LIGATURE I J		
0133y	124L	YY1-i	.....	.....	.....	.....	.....	.....	LATIN SMALL LIGATURE I J		
0134	124L	.....	L2-J'	DW1-8	.....	.....	.....	.....	LATIN CAPITAL LETTER J WITH CIRCUMFLEX		
0135	124L	.....	L1-j'	DW1-8	.....	.....	.....	.....	LATIN SMALL LETTER J WITH CIRCUMFLEX		
0136	124L	.....	L2-K'	DW2-9	.....	.....	.....	.....	LATIN CAPITAL LETTER K WITH CEDILLA		
0137	124L	.....	L1-k'	DW2-9	.....	.....	.....	.....	LATIN SMALL LETTER K WITH CEDILLA		
0138	124L	LQ1-k	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER KRA		
0139	124L	.....	L2-L'	DW1-1	.....	.....	.....	.....	LATIN CAPITAL LETTER L WITH ACUTE		
013A	124L	.....	L1-l'	DW1-1	.....	.....	.....	.....	LATIN SMALL LETTER L WITH ACUTE		
013B	124L	.....	L2-L'	DW2-9	.....	.....	.....	.....	LATIN CAPITAL LETTER L WITH CEDILLA		
013C	124L	.....	L1-l'	DW2-9	.....	.....	.....	.....	LATIN SMALL LETTER L WITH CEDILLA		
013D	124L	.....	L2-L'	DW1-7	.....	.....	.....	.....	LATIN CAPITAL LETTER L WITH CARON		
013E	124L	.....	L1-l'	DW1-7	.....	.....	.....	.....	LATIN SMALL LETTER L WITH CARON		
013Fy	124L	YY2-L	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER L WITH MIDDLE DOT		
0140y	124L	YY1-l	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER L WITH MIDDLE DOT		
0141	124L	LX2-L	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER L WITH STROKE		
0142	124L	LX1-l	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER L WITH STROKE		
0143	124L	.....	L2-N'	DW1-1	.....	.....	.....	.....	LATIN CAPITAL LETTER N WITH ACUTE		
0144	124L	.....	L1-n'	DW1-1	.....	.....	.....	.....	LATIN SMALL LETTER N WITH ACUTE		
0145	124L	.....	L2-N'	DW2-9	.....	.....	.....	.....	LATIN CAPITAL LETTER N WITH CEDILLA		
0146	124L	.....	L1-n'	DW2-9	.....	.....	.....	.....	LATIN SMALL LETTER N WITH CEDILLA		
0147	124L	.....	L2-N'	DW1-7	.....	.....	.....	.....	LATIN CAPITAL LETTER N WITH CARON		
0148	124L	.....	L1-n'	DW1-7	.....	.....	.....	.....	LATIN SMALL LETTER N WITH CARON		
0149y	124L	YY1-n	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER N PRECEDED BY APOSTROPHE		
014A	124L	LE2-N	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER ENG		
119 014B	124L	LE1-n;	i~n6	.....	.....	.....	.....	.....	LATIN SMALL LETTER ENG		
									Eng; Voiced velar nasal		
014C	124L	.....	L2-O'	DW1--	.....	.....	.....	.....	LATIN CAPITAL LETTER O WITH MACRON		
014D	124L	.....	L1-o'	DW1--	.....	.....	.....	.....	LATIN SMALL LETTER O WITH MACRON		
014E	-24L	.....	L2-O'	DW1-6	.....	.....	.....	.....	LATIN CAPITAL LETTER O WITH BREVE		
014F	-24L	.....	L1-o'	DW1-6	.....	.....	.....	.....	LATIN SMALL LETTER O WITH BREVE		
0150	124L	.....	L2-O'	DW1-5	.....	.....	.....	.....	LATIN CAPITAL LETTER O WITH DOUBLE ACUTE		
0151	124L	.....	L1-o'	DW1-5	.....	.....	.....	.....	LATIN SMALL LETTER O WITH DOUBLE ACUTE		
0152	124L	LE2-O	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LIGATURE OE		
311 0153	124L	LE1-o;	i~o9	.....	.....	.....	.....	.....	LATIN SMALL LIGATURE OE		
									Lower-case O-E ligature; Open-mid front rounded vowel		
0154	124L	.....	L2-R'	DW1-1	.....	.....	.....	.....	LATIN CAPITAL LETTER R WITH ACUTE		
0155	124L	.....	L1-r'	DW1-1	.....	.....	.....	.....	LATIN SMALL LETTER R WITH ACUTE		
0156	124L	.....	L2-R'	DW2-9	.....	.....	.....	.....	LATIN CAPITAL LETTER R WITH CEDILLA		
0157	124L	.....	L1-r'	DW2-9	.....	.....	.....	.....	LATIN SMALL LETTER R WITH CEDILLA		
0158	124L	.....	L2-R'	DW1-7	.....	.....	.....	.....	LATIN CAPITAL LETTER R WITH CARON		
0159	124L	.....	L1-r'	DW1-7	.....	.....	.....	.....	LATIN SMALL LETTER R WITH CARON		
015A	124L	.....	L2-S'	DW1-1	.....	.....	.....	.....	LATIN CAPITAL LETTER S WITH ACUTE		
015B	124L	.....	L1-s'	DW1-1	.....	.....	.....	.....	LATIN SMALL LETTER S WITH ACUTE		
015C	124L	.....	L2-S'	DW1-8	.....	.....	.....	.....	LATIN CAPITAL LETTER S WITH CIRCUMFLEX		
015D	124L	.....	L1-s'	DW1-8	.....	.....	.....	.....	LATIN SMALL LETTER S WITH CIRCUMFLEX		
015E	124L	.....	L2-S'	DW2-9	.....	.....	.....	.....	LATIN CAPITAL LETTER S WITH CEDILLA		
015F	124L	.....	L1-s'	DW2-9	.....	.....	.....	.....	LATIN SMALL LETTER S WITH CEDILLA		
0160	124L	.....	L2-S'	DW1-7	.....	.....	.....	.....	LATIN CAPITAL LETTER S WITH CARON		
0161	124L	.....	L1-s'	DW1-7	.....	.....	.....	.....	LATIN SMALL LETTER S WITH CARON		
0162	124L	.....	L2-T'	DW2-9	.....	.....	.....	.....	LATIN CAPITAL LETTER T WITH CEDILLA		
0163	124L	.....	L1-t'	DW2-9	.....	.....	.....	.....	LATIN SMALL LETTER T WITH CEDILLA		
0164	124L	.....	L2-T'	DW1-7	.....	.....	.....	.....	LATIN CAPITAL LETTER T WITH CARON		
0165	124L	.....	L1-t'	DW1-7	.....	.....	.....	.....	LATIN SMALL LETTER T WITH CARON		
0166	124L	LZ2-T	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER T WITH STROKE		
0167	124L	LZ1-t	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER T WITH STROKE		
0168	124L	.....	L2-U'	DW1-4	.....	.....	.....	.....	LATIN CAPITAL LETTER U WITH TILDE		
0169	124L	.....	L1-u'	DW1-4	.....	.....	.....	.....	LATIN SMALL LETTER U WITH TILDE		
016A	124L	.....	L2-U'	DW1--	.....	.....	.....	.....	LATIN CAPITAL LETTER U WITH MACRON		
016B	124L	.....	L1-u'	DW1--	.....	.....	.....	.....	LATIN SMALL LETTER U WITH MACRON		
016C	124L	.....	L2-U'	DW1-6	.....	.....	.....	.....	LATIN CAPITAL LETTER U WITH BREVE		
016D	124L	.....	L1-u'	DW1-6	.....	.....	.....	.....	LATIN SMALL LETTER U WITH BREVE		
016E	124L	.....	L2-U'	DW1-0	.....	.....	.....	.....	LATIN CAPITAL LETTER U WITH RING ABOVE		
016F	124L	.....	L1-u'	DW1-0	.....	.....	.....	.....	LATIN SMALL LETTER U WITH RING ABOVE		
0170	124L	.....	L2-U'	DW1-5	.....	.....	.....	.....	LATIN CAPITAL LETTER U WITH DOUBLE ACUTE		
0171	124L	.....	L1-u'	DW1-5	.....	.....	.....	.....	LATIN SMALL LETTER U WITH DOUBLE ACUTE		
0172	124L	.....	L2-U'	DW2-2	.....	.....	.....	.....	LATIN CAPITAL LETTER U WITH OGONEK		
0173	124L	.....	L1-u'	DW2-2	.....	.....	.....	.....	LATIN SMALL LETTER U WITH OGONEK		
0174	124L	.....	L2-W'	DW1-8	.....	.....	.....	.....	LATIN CAPITAL LETTER W WITH CIRCUMFLEX		
0175	124L	.....	L1-w'	DW1-8	.....	.....	.....	.....	LATIN SMALL LETTER W WITH CIRCUMFLEX		
0176	124L	.....	L2-Y'	DW1-8	.....	.....	.....	.....	LATIN CAPITAL LETTER Y WITH CIRCUMFLEX		
0177	124L	.....	L1-y'	DW1-8	.....	.....	.....	.....	LATIN SMALL LETTER Y WITH CIRCUMFLEX		
0178	124L	.....	L2-Y'	DW1-3	.....	.....	.....	.....	LATIN CAPITAL LETTER Y WITH DIAERESIS		
0179	124L	.....	L2-Z'	DW1-1	.....	.....	.....	.....	LATIN CAPITAL LETTER Z WITH ACUTE		
017A	124L	.....	L1-z'	DW1-1	.....	.....	.....	.....	LATIN SMALL LETTER Z WITH ACUTE		
017B	124L	.....	L2-Z'	DW1-.	.....	.....	.....	.....	LATIN CAPITAL LETTER Z WITH DOT ABOVE		
017C	124L	.....	L1-z'	DW1-.	.....	.....	.....	.....	LATIN SMALL LETTER Z WITH DOT ABOVE		
017D	124L	.....	L2-Z'	DW1-7	.....	.....	.....	.....	LATIN CAPITAL LETTER Z WITH CARON		
017E	124L	.....	L1-z'	DW1-7	.....	.....	.....	.....	LATIN SMALL LETTER Z WITH CARON		
017F	-24L	LE1-s	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER LONG S		
0180	---L	LZ1-b	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER B WITH STROKE		
0181	---L	LV2-B	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER B WITH HOOK		
0182	---L	LE1-b	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER B WITH TOPBAR		
0183	---L	LE2-B	.....	.....	.....	.....	.....	.....	LATIN SMALL LETTER B WITH TOPBAR		
0186	---L	LE2-K	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER OPEN O		
0187	---L	LV2-C	.....	.....	.....	.....	.....	.....	LATIN CAPITAL LETTER C WITH HOOK		
163 0188	---L	LV1-c;	i~c4	.....	.....	.....	.....	.....	LATIN SMALL LETTER C WITH HOOK		
									Hooktop C; Voiceless palatal implosive		



0189	---	L	LQ2-D	....	....	....	LATIN CAPITAL LETTER AFRICAN D
018A	---	L	LV2-D	....	....	....	LATIN CAPITAL LETTER D WITH HOOK
018B	---	L	LE1-f	....	....	....	LATIN CAPITAL LETTER D WITH TOPBAR
018C	---	L	LE2-F	....	....	....	LATIN SMALL LETTER D WITH TOPBAR
018E	---	L	LE2-W	....	....	....	LATIN CAPITAL LETTER REVERSED E
018F	-2-L		LE2-E	....	....	....	LATIN CAPITAL LETTER SCHWA
0190	---	L	LE2-J	....	....	....	LATIN CAPITAL LETTER OPEN E
0191	---	L	LQ2-F	....	....	....	LATIN CAPITAL LETTER F WITH HOOK
0192	-24L		LQ1-f; YC1-f	....	....	....	LATIN SMALL LETTER F WITH HOOK
0193	---	L	LV2-G	....	....	....	LATIN CAPITAL LETTER G WITH HOOK
0194	---	L	LQ2-V	....	....	....	LATIN CAPITAL LETTER GAMMA
0195	---	L	LQ1-y	....	....	....	LATIN SMALL LETTER HV
0196	---	L	LQ2-I	....	....	....	LATIN CAPITAL LETTER IOTA
0197	---	L	LZ2-I	....	....	....	LATIN CAPITAL LETTER I WITH STROKE
0198	---	L	LV2-K	....	....	....	LATIN CAPITAL LETTER K WITH HOOK
165	0199	---	L	LV1-k; i~k4	....	....	LATIN SMALL LETTER K WITH HOOK Hooktop K; Voiceless velar implosive
	019A	---	L	LZ1-l	....	....	LATIN SMALL LETTER L WITH BAR
294	019B	---	L	i-13	....	....	LATIN SMALL LETTER LAMBDA WITH STROKE Barred lambda; Voiceless dental or alveolar lateral affricate
	019C	---	L	LQ2-U	....	....	LATIN CAPITAL LETTER TURNED M
	019D	---	L	LQ2-N	....	....	LATIN CAPITAL LETTER N WITH LEFT HOOK
293	019E	---	L	LE1-z; i~n7	....	....	LATIN SMALL LETTER N WITH LONG RIGHT LEG N, right leg; Syllabic nasal
	019F	---	L	LZ2-0	....	....	LATIN CAPITAL LETTER O WITH MIDDLE TILDE
	01A0	---	L	.... L2-0' DW1-	....	....	LATIN CAPITAL LETTER O WITH HORN
	01A1	---	L	.... L1-0' DW1-	....	....	LATIN SMALL LETTER O WITH HORN
	01A2	---	L	LQ1-g	....	....	LATIN CAPITAL LETTER OI
	01A3	---	L	LQ2-G	....	....	LATIN SMALL LETTER OI
	01A4	---	L	LV2-P	....	....	LATIN CAPITAL LETTER P WITH HOOK
159	01A5	---	L	LV1-p; i~p4	....	....	LATIN SMALL LETTER P WITH HOOK Hooktop P; Voiceless bilabial implosive
	01A6	---	L	LV2-R	....	....	LATIN LETTER YR
	01A9	---	L	LE2-M	....	....	LATIN CAPITAL LETTER ESH
208	01AB	---	L	i~t7	....	....	LATIN SMALL LETTER T WITH PALATAL HOOK Left-hook T; Palatalized voiceless dental or alveolar plosive
	01AC	---	L	LV2-T	....	....	LATIN CAPITAL LETTER T WITH HOOK
161	01AD	---	L	LV1-t; i~t4	....	....	LATIN SMALL LETTER T WITH HOOK Hooktop T; Voiceless dental or alveolar implosive
	01AE	---	L	LQ2-T	....	....	LATIN CAPITAL LETTER T WITH RETROFLEX HOOK
	01AF	---	L	.... L2-U' DW1-	....	....	LATIN CAPITAL LETTER U WITH HORN
	01B0	---	L	.... L1-u' DW1-	....	....	LATIN SMALL LETTER U WITH HORN
	01B1	---	L	LE2-L	....	....	LATIN CAPITAL LETTER UPSILON
	01B2	---	L	LV2-V	....	....	LATIN CAPITAL LETTER V WITH HOOK
	01B3	---	L	LV2-Y	....	....	LATIN CAPITAL LETTER Y WITH HOOK
	01B4	---	L	LV1-y	....	....	LATIN SMALL LETTER Y WITH HOOK
	01B5	---	L	LZ2-Z	....	....	LATIN CAPITAL LETTER Z WITH STROKE
	01B6	---	L	LZ1-z	....	....	LATIN SMALL LETTER Z WITH STROKE
	01B7	-2-L		LE2-C	....	....	LATIN CAPITAL LETTER EZH
	01B8	---	L	LE2-V	....	....	LATIN CAPITAL LETTER EZH REVERSED
	01B9	---	L	LE1-v	....	....	LATIN SMALL LETTER EZH REVERSED
290	01BB	---	L	i~z7	....	....	LATIN LETTER TWO WITH STROKE Barred two
	01BF	---	L	LQ1-w	....	....	LATIN LETTER WYNN
177	01C0	---	L	DM2-1; i~f1	....	....	LATIN LETTER DENTAL CLICK Pipe; Dental click
180	01C1	---	L	DM2-2; i~f2	....	....	LATIN LETTER LATERAL CLICK Double pipe; Alveolar lateral click
179	01C2	---	L	DM2-3; i~f3	....	....	LATIN LETTER ALVEOLAR CLICK Double-barred pipe; Palatoalveolar click
178	01C3	---	L	DM2-4; i~f4	....	....	LATIN LETTER RETROFLEX CLICK Exclamation point; (Post)alveolar click
	01CD	---	L	.... L2-A' DW1-7	....	....	LATIN CAPITAL LETTER A WITH CARON
	01CE	---	L	.... L1-a' DW1-7	....	....	LATIN SMALL LETTER A WITH CARON
	01CF	---	L	.... L2-I' DW1-7	....	....	LATIN CAPITAL LETTER I WITH CARON
	01D0	---	L	.... L1-i' DW1-7	....	....	LATIN SMALL LETTER I WITH CARON
	01D1	---	L	.... L2-O' DW1-7	....	....	LATIN CAPITAL LETTER O WITH CARON
	01D2	---	L	.... L1-o' DW1-7	....	....	LATIN SMALL LETTER O WITH CARON
	01D3	---	L	.... L2-U' DW1-7	....	....	LATIN CAPITAL LETTER U WITH CARON
	01D4	---	L	.... L1-u' DW1-7	....	....	LATIN SMALL LETTER U WITH CARON
	01D5	---	L	.... L2-U' DW1-3' DW1--	....	....	LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON
	01D6	---	L	.... L1-u' DW1-3' DW1--	....	....	LATIN SMALL LETTER U WITH DIAERESIS AND MACRON
	01D7	---	L	.... L2-U' DW1-3' DW1-1	....	....	LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE
	01D8	---	L	.... L1-u' DW1-3' DW1-1	....	....	LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE
	01D9	---	L	.... L2-U' DW1-3' DW1-7	....	....	LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON
	01DA	---	L	.... L1-u' DW1-3' DW1-7	....	....	LATIN SMALL LETTER U WITH DIAERESIS AND CARON
	01DB	---	L	.... L2-U' DW1-3' DW1-2	....	....	LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE
	01DC	---	L	.... L1-u' DW1-3' DW1-2	....	....	LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE
	01DD	---	L	LE1-w	....	....	LATIN SMALL LETTER TURNED E
	01DE	-2-L		.... L2-A' DW1-3' DW1--	....	....	LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON
	01DF	-2-L		.... L1-a' DW1-3' DW1--	....	....	LATIN SMALL LETTER A WITH DIAERESIS AND MACRON
	01E0	-2-L		.... L2-A' DW1-' DW1--	....	....	LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACRON
	01E1	-2-L		.... L1-a' DW1-' DW1--	....	....	LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON
	01E2	-2-L		.... LE2-A' DW1--	....	....	LATIN CAPITAL LETTER AE WITH MACRON
	01E3	-2-L		.... LE1-a' DW1--	....	....	LATIN SMALL LETTER AE WITH MACRON
	01E4	-2-L		LZ2-G	....	....	LATIN CAPITAL LETTER G WITH STROKE
	01E5	-2-L		LZ1-g	....	....	LATIN SMALL LETTER G WITH STROKE
	01E6	-2-L		.... L2-G' DW1-7	....	....	LATIN CAPITAL LETTER G WITH CARON
	01E7	-2-L		.... L1-g' DW1-7	....	....	LATIN SMALL LETTER G WITH CARON
	01E8	-2-L		.... L2-K' DW1-7	....	....	LATIN CAPITAL LETTER K WITH CARON
	01E9	-2-L		.... L1-k' DW1-7	....	....	LATIN SMALL LETTER K WITH CARON
	01EA	-2-L		.... L2-O' DW2-2	....	....	LATIN CAPITAL LETTER O WITH OGONEK
	01EB	-2-L		.... L1-o' DW2-2	....	....	LATIN SMALL LETTER O WITH OGONEK
	01EC	-2-L		.... L2-O' DW2-2' DW1--	....	....	LATIN CAPITAL LETTER O WITH OGONEK AND MACRON
	01ED	-2-L		.... L1-o' DW2-2' DW1--	....	....	LATIN SMALL LETTER O WITH OGONEK AND MACRON
	01EE	-2-L		.... LE2-C' DW1-7	....	....	LATIN CAPITAL LETTER EZH WITH CARON
	01EF	-2-L		.... LE1-c' DW1-7	....	....	LATIN SMALL LETTER EZH WITH CARON
	01FO	---	L	.... L1-j' DW1-7	....	....	LATIN SMALL LETTER J WITH CARON
	01F4	---	L	.... L2-G' DW1-1	....	....	LATIN CAPITAL LETTER G WITH ACUTE

01F5	---	L	....	L1-g'	DW1-1	....	....	LATIN SMALL LETTER G WITH ACUTE
01F6	---	L	LQ2-Y	....	....	....	....	LATIN CAPITAL LETTER HWAIR
01F7	---	L	LQ2-W	....	....	....	....	LATIN CAPITAL LETTER WYNN
01F8	---	L	....	L2-N'	DW1-2	....	....	LATIN CAPITAL LETTER N WITH GRAVE
01F9	---	L	....	L1-n'	DW1-2	....	....	LATIN SMALL LETTER N WITH GRAVE
01FA	-24L	....	....	L2-A'	DW1-0'	DW1-1	....	LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE
01FB	-24L	....	....	L1-a'	DW1-0'	DW1-1	....	LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE
01FC	-24L	....	....	LE2-A'	DW1-1	....	....	LATIN CAPITAL LETTER AE WITH ACUTE
01FD	-24L	....	....	LE1-a'	DW1-1	....	....	LATIN SMALL LETTER AE WITH ACUTE
01FE	-24L	....	....	LX2-O'	DW1-1	....	....	LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
01FF	-24L	....	....	LX1-o'	DW1-1	....	....	LATIN SMALL LETTER O WITH STROKE AND ACUTE
0200	---	L	....	L2-A'	DD1-j	....	....	LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
0201	---	L	....	L1-a'	DD1-j	....	....	LATIN SMALL LETTER A WITH DOUBLE GRAVE
0202	---	L	....	L2-A'	DD1-k	....	....	LATIN CAPITAL LETTER A WITH INVERTED BREVE
0203	---	L	....	L1-a'	DD1-k	....	....	LATIN SMALL LETTER A WITH INVERTED BREVE
0204	---	L	....	L2-E'	DD1-j	....	....	LATIN CAPITAL LETTER E WITH DOUBLE GRAVE
0205	---	L	....	L1-e'	DD1-j	....	....	LATIN SMALL LETTER E WITH DOUBLE GRAVE
0206	---	L	....	L2-E'	DD1-k	....	....	LATIN CAPITAL LETTER E WITH INVERTED BREVE
0207	---	L	....	L1-e'	DD1-k	....	....	LATIN SMALL LETTER E WITH INVERTED BREVE
0208	---	L	....	L2-I'	DD1-j	....	....	LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
0209	---	L	....	L1-i'	DD1-j	....	....	LATIN SMALL LETTER I WITH DOUBLE GRAVE
020A	---	L	....	L2-I'	DD1-k	....	....	LATIN CAPITAL LETTER I WITH INVERTED BREVE
020B	---	L	....	L1-i'	DD1-k	....	....	LATIN SMALL LETTER I WITH INVERTED BREVE
020C	---	L	....	L2-O'	DD1-j	....	....	LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
020D	---	L	....	L1-o'	DD1-j	....	....	LATIN SMALL LETTER O WITH DOUBLE GRAVE
020E	---	L	....	L2-O'	DD1-k	....	....	LATIN CAPITAL LETTER O WITH INVERTED BREVE
020F	---	L	....	L1-o'	DD1-k	....	....	LATIN SMALL LETTER O WITH INVERTED BREVE
0210	---	L	....	L2-R'	DD1-j	....	....	LATIN CAPITAL LETTER R WITH DOUBLE GRAVE
0211	---	L	....	L1-r'	DD1-j	....	....	LATIN SMALL LETTER R WITH DOUBLE GRAVE
0212	---	L	....	L2-R'	DD1-k	....	....	LATIN CAPITAL LETTER R WITH INVERTED BREVE
0213	---	L	....	L1-r'	DD1-k	....	....	LATIN SMALL LETTER R WITH INVERTED BREVE
0214	---	L	....	L2-U'	DD1-j	....	....	LATIN CAPITAL LETTER U WITH DOUBLE GRAVE
0215	---	L	....	L1-u'	DD1-j	....	....	LATIN SMALL LETTER U WITH DOUBLE GRAVE
0216	---	L	....	L2-U'	DD1-k	....	....	LATIN CAPITAL LETTER U WITH INVERTED BREVE
0217	---	L	....	L1-u'	DD1-k	....	....	LATIN SMALL LETTER U WITH INVERTED BREVE
0218	-2-L	....	....	L2-S'	DW2-	....	....	LATIN CAPITAL LETTER S WITH COMMA BELOW
0219	-2-L	....	....	L1-s'	DW2-	....	....	LATIN SMALL LETTER S WITH COMMA BELOW
021A	-2-L	....	....	L2-T'	DW2-	....	....	LATIN CAPITAL LETTER T WITH COMMA BELOW
021B	-2-L	....	....	L1-t'	DW2-	....	....	LATIN SMALL LETTER T WITH COMMA BELOW
021C	---	L	LQ2-J	....	....	....	....	LATIN CAPITAL LETTER YOGH
021D	---	L	LQ1-j	....	....	....	....	LATIN SMALL LETTER YOGH
021E	-2-L	....	....	L2-H'	DW1-7	....	....	LATIN CAPITAL LETTER H WITH CARON
021F	-2-L	....	....	L1-h'	DW1-7	....	....	LATIN SMALL LETTER H WITH CARON
0220	---	L	LE2-Z	....	....	....	....	LATIN CAPITAL LETTER N WITH LONG RIGHT LEG
0222	---	L	LE2-U	....	....	....	....	LATIN CAPITAL LETTER OU
0223	---	L	LE1-u	....	....	....	....	LATIN SMALL LETTER OU
0224	---	L	LQ2-Z	....	....	....	....	LATIN CAPITAL LETTER Z WITH HOOK
0225	---	L	LQ1-z	....	....	....	....	LATIN SMALL LETTER Z WITH HOOK
0226	---	L	....	L2-A'	DW1-	....	....	LATIN CAPITAL LETTER A WITH DOT ABOVE
0227	---	L	....	L1-a'	DW1-	....	....	LATIN SMALL LETTER A WITH DOT ABOVE
0228	---	L	....	L2-E'	DW2-9	....	....	LATIN CAPITAL LETTER E WITH CEDILLA
0229	---	L	....	L1-e'	DW2-9	....	....	LATIN SMALL LETTER E WITH CEDILLA
022A	---	L	....	L2-O'	DW1-3'	DW1--	....	LATIN CAPITAL LETTER O WITH DIAERESIS AND MACRON
022B	---	L	....	L1-o'	DW1-3'	DW1--	....	LATIN SMALL LETTER O WITH DIAERESIS AND MACRON
022C	---	L	....	L2-O'	DW1-4'	DW1--	....	LATIN CAPITAL LETTER O WITH TILDE AND MACRON
022D	---	L	....	L1-o'	DW1-4'	DW1--	....	LATIN SMALL LETTER O WITH TILDE AND MACRON
022E	---	L	....	L2-O'	DW1-	....	....	LATIN CAPITAL LETTER O WITH DOT ABOVE
022F	---	L	....	L1-o'	DW1-	....	....	LATIN SMALL LETTER O WITH DOT ABOVE
0230	---	L	....	L2-O'	DW1--'	DW1--	....	LATIN CAPITAL LETTER O WITH DOT ABOVE AND MACRON
0231	---	L	....	L1-o'	DW1--'	DW1--	....	LATIN SMALL LETTER O WITH DOT ABOVE AND MACRON
0232	---	L	....	L2-Y'	DW1--	....	....	LATIN CAPITAL LETTER Y WITH MACRON
0233	---	L	....	L1-y'	DW1--	....	....	LATIN SMALL LETTER Y WITH MACRON
? 0234	---	L	i~l8	....	....	....	....	LATIN SMALL LETTER L WITH CURL
? 0235	---	L	i~n8	....	....	....	....	LATIN SMALL LETTER N WITH CURL
? 0236	---	L	i~t8	....	....	....	....	LATIN SMALL LETTER T WITH CURL
023A	---	L	LX2-A	....	....	....	....	LATIN CAPITAL LETTER A WITH STROKE
023B	---	L	LX2-C	....	....	....	....	LATIN CAPITAL LETTER C WITH STROKE
023C	---	L	LX1-c	....	....	....	....	LATIN SMALL LETTER C WITH STROKE
023D	---	L	LZ2-L	....	....	....	....	LATIN CAPITAL LETTER L WITH BAR
023E	---	L	LX2-T	....	....	....	....	LATIN CAPITAL LETTER T WITH DIAGONAL STROKE
0241	---	L	LE2-P	....	....	....	....	LATIN CAPITAL LETTER GLOTTAL STOP
0242	---	L	LE1-p	....	....	....	....	LATIN SMALL LETTER GLOTTAL STOP
0243	---	L	LZ2-B	....	....	....	....	LATIN CAPITAL LETTER B WITH STROKE
0244	---	L	LZ2-U	....	....	....	....	LATIN CAPITAL LETTER U BAR
0245	---	L	LE2-G	....	....	....	....	LATIN CAPITAL LETTER TURNED V
0246	---	L	LX2-E	....	....	....	....	LATIN CAPITAL LETTER E WITH STROKE
0247	---	L	LX1-e	....	....	....	....	LATIN SMALL LETTER E WITH STROKE
0248	---	L	LZ2-J	....	....	....	....	LATIN CAPITAL LETTER J WITH STROKE
0249	---	L	LZ1-j	....	....	....	....	LATIN SMALL LETTER J WITH STROKE
024A	---	L	LQ2-Q	....	....	....	....	LATIN CAPITAL LETTER SMALL Q WITH HOOK TAIL
024B	---	L	LQ1-q	....	....	....	....	LATIN SMALL LETTER Q WITH HOOK TAIL
024C	---	L	LZ2-R	....	....	....	....	LATIN CAPITAL LETTER R WITH STROKE
024D	---	L	LZ1-r	....	....	....	....	LATIN SMALL LETTER R WITH STROKE
024E	---	L	LZ2-Y	....	....	....	....	LATIN CAPITAL LETTER Y WITH STROKE
024F	---	L	LZ1-y	....	....	....	....	LATIN SMALL LETTER Y WITH STROKE
324 0250	---	L	i~a3	....	....	....	....	LATIN SMALL LETTER TURNED A Turned A; Near-Open central vowel
305 0251	---	L	LE1-h;	i~a5	....	....	....	LATIN SMALL LETTER ALPHA Script A; Open back unrounded vowel
313 0252	---	L	i~a6	....	....	....	....	LATIN SMALL LETTER TURNED ALPHA Turned script A; Open back rounded vowel
160 0253	---	L	LV1-b;	i~b4	....	....	....	LATIN SMALL LETTER B WITH HOOK Hooktop B; Voiced bilabial implosive
306 0254	---	L	LE1-k;	i~o6	....	....	....	LATIN SMALL LETTER OPEN O Open O; Open-mid back rounded vowel
182 0255	---	L	i~c8	....	....	....	....	LATIN SMALL LETTER C WITH CURL Curly-tail C; Voiceless alveolo-palatal fricative
? 0256	---	L	LQ1-d;	i~d6	....	....	....	LATIN SMALL LETTER D WITH TAIL voiced retroflex stop

162	0257	---	L	LV1-d;	i~d4	....	....	....	LATIN SMALL LETTER D WITH HOOK Hooktop D; Voiced dental or alveolar implosive
397	0258	----		i~e9	....	....	....	LATIN SMALL LETTER REVERSED E Reversed E; Close-mid central unrounded vowel	
322	0259	-2-L	LE1-e;	i~e3	....	....	....	LATIN SMALL LETTER SCHWA Schwa; Mid central vowel	
327	025A	----		i~e4	....	....	....	LATIN SMALL LETTER SCHWA WITH HOOK Right-hook schwa; R-coloured mid central vowel	
303	025B	---	L	LE1-j;	i~e5	....	....	LATIN SMALL LETTER OPEN E Epsilon; Open-mid front unrounded vowel	
326	025C	----		i~e6	....	....	....	LATIN SMALL LETTER REVERSED OPEN E Reversed epsilon; Open-mid central unrounded vowel	
?	025D	----		i~e2	....	....	....	LATIN SMALL LETTER REVERSED OPEN E WITH HOOK rhotacized lower-mid central vowel	
395	025E	----		i~e7	....	....	....	LATIN SMALL LETTER CLOSED REVERSED OPEN E Closed reversed epsilon; Open-mid central rounded vowel	
108	025F	----		i~j7	....	....	....	LATIN SMALL LETTER DOTLESS J WITH STROKE Barred-dotless J; Voiced palatal plosive	
166	0260	---	L	LV1-g;	i~g4	....	....	LATIN SMALL LETTER G WITH HOOK Hooktop G; Voiced velar implosive	
110	0261	----		i~g6	....	....	....	LATIN SMALL LETTER SCRIPT G Opentail G; Voiced velar plosive	
112	0262	----		i~g2	....	....	....	LATIN LETTER SMALL CAPITAL G Small-capital G; Voiced uvular plosive	
141	0263	---	L	LQ1-v;	i~g5	....	....	LATIN SMALL LETTER GAMMA Gamma; Voiced velar fricative	
315	0264	----		i~g8	....	....	....	LATIN SMALL LETTER RAMS HORN Ram's horns; Close-mid back unrounded vowel	
171	0265	---	L	LE1-q;	i~h3	....	....	LATIN SMALL LETTER TURNED H Turned H; Voiced labial-palatal approximant	
147	0266	---	L	LV1-h;	i~h4	....	....	LATIN SMALL LETTER H WITH HOOK Hooktop H; Voiced glottal fricative	
175	0267	----		i~h6	....	....	....	LATIN SMALL LETTER HENG WITH HOOK Hooktop heng; Simultaneous voiceless postalveolar and velar fricative	
317	0268	---	L	LZ1-i;	i~i7	....	....	LATIN SMALL LETTER I WITH STROKE Barred I; Close central unrounded vowel	
399	0269	---	L	LQ1-i;	i~i5	....	....	LATIN SMALL LETTER IOTA Iota; Near-close near-front unrounded vowel	
319	026A	---	L	LV1-i;	i~i2	....	....	LATIN LETTER SMALL CAPITAL I Small capital I; Near-close near-front unrounded vowel	
209	026B	---	L	LV1-l;	i~l7	....	....	LATIN SMALL LETTER L WITH MIDDLE TILDE L with tilde; Velarized voiced dental or alveolar lateral approximant	
148	026C	----		i~l4	....	....	....	LATIN SMALL LETTER L WITH BELT Belted L; Voiceless dental or alveolar lateral fricative	
156	026D	----		i~l6	....	....	....	LATIN SMALL LETTER L WITH RETROFLEX HOOK Right-tail L; Voiced retroflex lateral approximant	
149	026E	----		i~l9	....	....	....	LATIN SMALL LETTER LEZH L-Ezh ligature; Voiced dental or alveolar lateral fricative	
316	026F	---	L	LQ1-u;	i~m3	....	....	LATIN SMALL LETTER TURNED M Turned M; Close back unrounded vowel	
154	0270	----		i~m8	....	....	....	LATIN SMALL LETTER TURNED M WITH LONG LEG Turned M, right leg; Voiced velar approximant	
115	0271	---	L	LQ1-m;	i~m6	....	....	LATIN SMALL LETTER M WITH HOOK Left-tail M (at right); Voiced labiodental nasal	
118	0272	---	L	LQ1-n;	i~n9	....	....	LATIN SMALL LETTER N WITH LEFT HOOK Left-tail N (at left); Voiced palatal nasal	
117	0273	----		i~n5	....	....	....	LATIN SMALL LETTER N WITH RETROFLEX HOOK Right-tail N; Voiced retroflex nasal	
120	0274	----		i~n2	....	....	....	LATIN LETTER SMALL CAPITAL N Small capital N; Voiced uvular nasal	
323	0275	---	L	LZ1-o;	i~o7	....	....	LATIN SMALL LETTER BARRED O Barred O; Close-mid central rounded vowel	
312	0276	----		i~o2	....	....	....	LATIN LETTER SMALL CAPITAL OE Small capital O-E ligature; Open front rounded vowel	
398	0277	----		i~o5	....	....	....	LATIN SMALL LETTER CLOSED OMEGA Closed omega; Near-close near-back rounded vowel	
126	0278	----		i~f7	....	....	....	LATIN SMALL LETTER PHI Phi; Voiceless bilabial fricative	
151	0279	----		i~r3	....	....	....	LATIN SMALL LETTER TURNED R Turned R; Voiced dental or alveolar approximant	
181	027A	----		i~r8	....	....	....	LATIN SMALL LETTER TURNED R WITH LONG LEG Turned long-leg R; Voiced alveolar lateral flap	
152	027B	----		i~r7	....	....	....	LATIN SMALL LETTER TURNED R WITH HOOK Turned R, right tail; Voiced retroflex approximant	
206	027C	-2-L	LE1-r;	i~r9	....	....	....	LATIN SMALL LETTER R WITH LONG LEG Long-leg R	
125	027D	---	L	LQ1-r;	i~r6	....	....	LATIN SMALL LETTER R WITH TAIL Right-tail R; Voiced retroflex flap	
124	027E	----		i~r4	....	....	....	LATIN SMALL LETTER R WITH FISHHOOK Fish-hook R; Voiced dental or alveolar tap	
?	027F	----		i~r1	....	....	....	LATIN SMALL LETTER REVERSED R WITH FISHHOOK apical dental vowel	
123	0280	---	L	LV1-r;	i~r2	....	....	LATIN LETTER SMALL CAPITAL R Small capital R; Voiced uvular trill	
143	0281	----		i~r5	....	....	....	LATIN LETTER SMALL CAPITAL INVERTED R Inverted small capital R; Voiced uvular fricative	
136	0282	----		i~s7	....	....	....	LATIN SMALL LETTER S WITH HOOK Right-tail S (at left); Voiceless retroflex fricative	
134	0283	---	L	LE1-m;	i~s6	....	....	LATIN SMALL LETTER ESH Esh; Voiceless postalveolar fricative	
164	0284	----		i~j8	....	....	....	LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK Hooktop barred dotless J; Voiced palatal implosive	
?	0285	----		i~s3	....	....	....	LATIN SMALL LETTER SQUAT REVERSED ESH apical retroflex vowel	
204	0286	----		i~s8	....	....	....	LATIN SMALL LETTER ESH WITH CURL Curly-tail esh	
201	0287	----		i~t3	....	....	....	LATIN SMALL LETTER TURNED T Turned T; Dental click	
105	0288	---	L	LQ1-t;	i~t6	....	....	LATIN SMALL LETTER T WITH RETROFLEX HOOK	

318	0289	---	L	LZ1-u;	i~u7	....	....	....	....	Right-tail T; Voiceless retroflex plosive LATIN SMALL LETTER U BAR
321	028A	---	L	LE1-l;	i~y5	....	....	....	....	Barred U; Close central rounded vowel LATIN SMALL LETTER UPSILON
150	028B	---	L	LV1-v;	i~v5	....	....	....	....	Upsilon; Near-close near-back rounded vowel LATIN SMALL LETTER V WITH HOOK
314	028C	---	L	LE1-g;	i~v3	....	....	....	....	Cursive V; Voiced labiodental approximant LATIN SMALL LETTER TURNED V
169	028D	----		i~w3	....	....	....	....	....	Turned V; Open-mid back unrounded vowel LATIN SMALL LETTER TURNED W
157	028E	----		i~y3	....	....	....	....	....	Turned W; Voiceless labial-velar fricative LATIN SMALL LETTER TURNED Y
320	028F	----		i~y2	....	....	....	....	....	Turned Y; Voiced palatal lateral approximant LATIN LETTER SMALL CAPITAL Y
137	0290	----		i~z6	....	....	....	....	....	Small capital Y; Near-close near-front rounded vowel LATIN SMALL LETTER Z WITH RETROFLEX HOOK
183	0291	----		i~z8	....	....	....	....	....	Right-tail Z; Voiced retroflex fricative LATIN SMALL LETTER Z WITH CURL
135	0292	-2-L		LE1-c;	i~z5	....	....	....	....	Curly-tail Z; Voiced alveolo-palatal fricative LATIN SMALL LETTER EZH
205	0293	----		i~z9	....	....	....	....	....	Ezh, Tailed Z; Voiced postalveolar fricative LATIN SMALL LETTER EZH WITH CURL
113	0294	---	L	LE2-S;	i~q5	....	....	....	....	Curly-tail ezh LATIN LETTER GLOTTAL STOP
145	0295	---	L	LE2-R;	i~q6	....	....	....	....	Glottal stop; Glottal plosiv LATIN LETTER PHARYNGEAL VOICED FRICATIVE
203	0296	----		i~q9	....	....	....	....	....	Reversed glottal stop; Voiced pharyngeal fricative or approximant LATIN LETTER INVERTED GLOTTAL STOP
202	0297	----		i~c6	....	....	....	....	....	Inverted glottal stop; Alveolar lateral click LATIN LETTER STRETCHED C
176	0298	---	L	DM2-5;	i~f5	....	....	....	....	Stretched C; Postalveolar click LATIN LETTER BILABIAL CLICK
121	0299	----		i~b2	....	....	....	....	....	Bull's eye; Bilabial click LATIN LETTER SMALL CAPITAL B
396	029A	----		i~e8	....	....	....	....	....	Small capital B; Voiced bilabial trill LATIN SMALL LETTER CLOSED OPEN E
168	029B	----		i~g7	....	....	....	....	....	Closed epsilon LATIN LETTER SMALL CAPITAL G WITH HOOK
172	029C	----		i~h2	....	....	....	....	....	Hooktop small capital G; Voiced uvular implosive LATIN LETTER SMALL CAPITAL H
139	029D	----		i~j6	....	....	....	....	....	Small capital H; Voiceless epiglottal fricative LATIN SMALL LETTER J WITH CROSSED-TAIL
291	029E	----		i~k3	....	....	....	....	....	Curly-tail J; Voiced palatal fricative LATIN SMALL LETTER TURNED K
158	029F	----		i~l2	....	....	....	....	....	Turned K LATIN LETTER SMALL CAPITAL L
167	02A0	----		i~q4	....	....	....	....	....	Small capital L; Voiced velar lateral approximant LATIN SMALL LETTER Q WITH HOOK
173	02A1	----		i~q7	....	....	....	....	....	Hooktop Q; Voiceless uvular implosive LATIN LETTER GLOTTAL STOP WITH STROKE
174	02A2	----		i~q8	....	....	....	....	....	Barred glottal stop; Epiglottal plosive LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE
212	02A3	----		i~d7	....	....	....	....	....	Barred reversed glottal stop; Voiced epiglottal fricative or approximant LATIN SMALL LETTER DZ DIGRAPH
214	02A4	----		i~d8	....	....	....	....	....	D-Z ligature; Voiced alveolar affricate LATIN SMALL LETTER DEZH DIGRAPH
216	02A5	----		i~d9	....	....	....	....	....	D-Ezh ligature; Voiced postalveolar affricate LATIN SMALL LETTER DZ DIGRAPH WITH CURL
211	02A6	----		i~x7	....	....	....	....	....	D-Curly-tail-Z ligature; Voiced alveolo-palatal affricate LATIN SMALL LETTER TS DIGRAPH
213	02A7	----		i~x8	....	....	....	....	....	T-S ligature; Voiceless dental or alveolar affricate LATIN SMALL LETTER TESH DIGRAPH
215	02A8	----		i~x9	....	....	....	....	....	T-Esh ligature; Voiceless postalveolar affricate LATIN SMALL LETTER TC DIGRAPH WITH CURL
?	02AE	----		i~h8	....	....	....	....	....	T-Curly-tail-C ligature; Voiceless alveolo-palatal affricate LATIN SMALL LETTER TURNED H WITH FISHHOOK
?	02AF	----		i~h9	....	....	....	....	....	LATIN SMALL LETTER TURNED H WITH FISHHOOK AND TAIL
404	02B0	---	L	LR1-h;	i~h1	....	....	....	....	MODIFIER LETTER SMALL H
421	02B2	---	L	LR1-j;	i~j1	....	....	....	....	Superscript H; Aspirated MODIFIER LETTER SMALL J
	02B3	---	L	LR1-r	....	....	....	....	....	Superscript J; Palatalized MODIFIER LETTER SMALL R
420	02B7	---	L	LR1-w;	i~w1	....	....	....	....	MODIFIER LETTER SMALL W
496	02B8	---	L	LR1-y;	i~y1	....	....	....	....	Superscript W; Labialized MODIFIER LETTER SMALL Y
	02B9	---	L	DM1-5;	GE1-i	....	....	....	....	Superscript Y; High-front rounding/ palatalized MODIFIER LETTER PRIME
	02BA	---	L	DM1-6	....	....	....	....	....	MODIFIER LETTER DOUBLE PRIME
492	02BB	-2-L		DS1-f;	DJ1-f	....	....	....	....	MODIFIER LETTER TURNED COMMA
401	02BC	-2-L		DS1-g;	DJ1-g	....	....	....	....	Reversed apostrophe; Weak aspiration MODIFIER LETTER APOSTROPHE
	02BD	-2-L		DS1-h	....	....	....	....	....	Apostrophe; Ejective MODIFIER LETTER REVERSED COMMA
	02BE	---	L	DM1-8	....	....	....	....	....	MODIFIER LETTER RIGHT HALF RING
	02BF	---	L	DM1-7	....	....	....	....	....	MODIFIER LETTER LEFT HALF RING
	02C0	---	L	DM2-8	....	....	....	....	....	MODIFIER LETTER GLOTTAL STOP
	02C1	---	L	DM2-7	....	....	....	....	....	MODIFIER LETTER REVERSED GLOTTAL STOP
	02C6	-24L		DS1-i	....	....	....	....	....	MODIFIER LETTER CIRCUMFLEX ACCENT
	02C7	124L		DS1-u	....	....	....	....	....	CARON
501	02C8	----		DS1-v;	DJ1-v;	i~u9	....	....	....	MODIFIER LETTER VERTICAL LINE
	02C9	-24L		DS1-d	....	....	....	....	....	Vertical stroke (Superior); Primary stress MODIFIER LETTER MACRON
	02CA	---	L	DS1-q	....	....	....	....	....	MODIFIER LETTER ACUTE ACCENT
	02CB	---	L	DS1-w	....	....	....	....	....	MODIFIER LETTER GRAVE ACCENT
502	02CC	----		DS2-T;	DJ2-T;	i~u8	....	....	....	MODIFIER LETTER LOW VERTICAL LINE
	02CD	----		DS2-D	....	....	....	....	....	Vertical stroke (Inferior); Secondary stress MODIFIER LETTER LOW MACRON
598	02CE*	----		DJ2-W	....	....	....	....	....	MODIFIER LETTER LOW GRAVE ACCENT
										Subscript grave accent; Low falling tone

599	02CF*	----	DJ2-Q	....	....	....	....	....	....	MODIFIER LETTER LOW ACUTE ACCENT Subscript acute accent; Low rising tone
503	02D0	----	DJ1-w; DM2-9;	i~i9	....	....	....	....	....	MODIFIER LETTER TRIANGULAR COLON Length mark; Long
504	02D1	----	DJ1-q;	i~i8	....	....	....	....	....	MODIFIER LETTER HALF TRIANGULAR COLON Half-length mark; Half-long
429	02D4*	----	DJ2-0	....	....	....	....	....	....	MODIFIER LETTER UP TACK Raising sign; Raised
430	02D5*	----	DJ2-I	....	....	....	....	....	....	MODIFIER LETTER DOWN TACK Lowering sign; Lowered
495	02D6*	----	DJ2-U	....	....	....	....	....	....	MODIFIER LETTER PLUS SIGN Plus sign; Advanced variety (fronted)
494	02D7*	----	DJ2-Y	....	....	....	....	....	....	MODIFIER LETTER MINUS SIGN Minus sign; Retraced variety (backed)
	02D8	124L	DS1-y	....	....	....	....	....	....	BREVE
	02D9	124L	DS1-s	....	....	....	....	....	....	DOT ABOVE
	02DA	124L	DS1-p	....	....	....	....	....	....	RING ABOVE
	02DB	124L	DS2-W	....	....	....	....	....	....	OGONEK
	02DC	-24L	DS1-r	....	....	....	....	....	....	SMALL TILDE
	02DD	124L	DS1-t	....	....	....	....	....	....	DOUBLE ACUTE ACCENT
419	02DE*	----	DJ1-r	....	....	....	....	....	....	MODIFIER LETTER RHOTIC HOOK Right hook; Rhoticity
422	02E0	----	i~g9	....	....	....	....	....	....	MODIFIER LETTER SMALL GAMMA Superscript gamma; Velarized
426	02E1	---L	LR1-l;	i~l1	....	....	....	....	....	MODIFIER LETTER SMALL L Superscript L; Lateral release
207	02E2	---L	LR1-s;	i~s1	....	....	....	....	....	MODIFIER LETTER SMALL S Superscript S
292	02E3	---L	LR1-x;	i~x1	....	....	....	....	....	MODIFIER LETTER SMALL X Superscript X; Voiceless velar fricative release
423	02E4	----	i~q1	....	....	....	....	....	....	MODIFIER LETTER SMALL REVERSED GLOTTAL STOP Superscript reversed glottal stop; Pharyngalized
519	02E5*	----	DJ1-y	....	....	....	....	....	....	MODIFIER LETTER EXTRA-HIGH TONE BAR Extra-high tone letter; Extra high level
520	02E6*	----	DJ1-u	....	....	....	....	....	....	MODIFIER LETTER HIGH TONE BAR High tone letter; High level
521	02E7*	----	DJ1-i	....	....	....	....	....	....	MODIFIER LETTER MID TONE BAR Mid tone letter; Mid level
522	02E8*	----	DJ1-o	....	....	....	....	....	....	MODIFIER LETTER LOW TONE BAR Low tone letter; Low level
523	02E9*	----	DJ1-p	....	....	....	....	....	....	MODIFIER LETTER EXTRA-LOW TONE BAR Extra-low tone letter; Extra low level
	02EC	---L	DM2-6	....	....	....	....	....	....	MODIFIER LETTER VOICING
	02EE	-2-L	DM1-3	....	....	....	....	....	....	MODIFIER LETTER DOUBLE APOSTROPHE
	02F3	---L	DS2-P	....	....	....	....	....	....	MODIFIER LETTER LOW RING
	02F4	---L	DM1-2	....	....	....	....	....	....	MODIFIER LETTER MIDDLE GRAVE ACCENT
	02F7	---L	DS2-R	....	....	....	....	....	....	MODIFIER LETTER LOW TILDE
490	02F9*	----	DJ1-t	....	....	....	....	....	....	MODIFIER LETTER BEGIN HIGH TONE Open corner; Release/ burst
515	0300	---L	DW1-2; DD1-w; DI1-w; HE1-w	....	....	....	....	....	....	COMBINING GRAVE ACCENT Grave accent (over); Low level
513	0301	---L	DW1-1; DD1-q; DI1-q; HE1-q	....	....	....	....	....	....	COMBINING ACUTE ACCENT Acute accent (over); High level
525	0302	---L	DW1-8; DD1-i; DI1-i	....	....	....	....	....	....	COMBINING CIRCUMFLEX ACCENT Circumflex; Falling contour
424	0303	---L	DW1-4; DD1-r; DI1-r	....	....	....	....	....	....	COMBINING TILDE Superscript tilde; Nasalized
514	0304	---L	DW1-; DD1-d; DI1-d	....	....	....	....	....	....	COMBINING MACRON Macron; Mid level
505	0306	---L	DW1-6; DD1-y; DI1-y	....	....	....	....	....	....	COMBINING BREVE Breve; Extra-short
493	0307	---L	DW1-; DD1-s; DI1-s; HE2-W	....	....	....	....	....	....	COMBINING DOT ABOVE Over-dot; Palatalization/ centralization
415	0308	---L	DW1-3; DD1-e; DI1-e; HE2-Q	....	....	....	....	....	....	COMBINING DIAERESIS Umlaut; Centralized
	0309	---L	DW1-9; DD1-o	....	....	....	....	....	....	COMBINING HOOK ABOVE
402	030A	---L	DW1-0; DD1-p; DI1-p	....	....	....	....	....	....	COMBINING RING ABOVE Over-ring; Voiceless
512	030B	---L	DW1-5; DD1-t; DI1-t	....	....	....	....	....	....	COMBINING DOUBLE ACUTE ACCENT Double acute accent (over); Extra high level
524	030C	---L	DW1-7; DD1-u; DI1-u	....	....	....	....	....	....	COMBINING CARON "Wedge; hacek"; Rising contour
	030D	---L	DD1-v	....	....	....	....	....	....	COMBINING VERTICAL LINE ABOVE
	030E	---L	DD1-b	....	....	....	....	....	....	COMBINING DOUBLE VERTICAL LINE ABOVE
516	030F	---L	DD1-j; DI1-j	....	....	....	....	....	....	COMBINING DOUBLE GRAVE ACCENT Double grave accent (over); Extra low level
	0310	---L	DD1-c	....	....	....	....	....	....	COMBINING CANDRABINDU
595	0311	---L	DD1-k; DI1-k	....	....	....	....	....	....	COMBINING INVERTED BREVE Superscript arch; Long falling tone/ advanced/ palatal
	0312	---L	DD1-f	....	....	....	....	....	....	COMBINING TURNED COMMA ABOVE
	0313	---L	DD1-g	....	....	....	....	....	....	COMBINING COMMA ABOVE
	0314	---L	DD1-h	....	....	....	....	....	....	COMBINING REVERSED COMMA ABOVE
598	0316*	----	DI2-W	....	....	....	....	....	....	COMBINING GRAVE ACCENT BELOW Subscript grave accent; Low falling tone
599	0317*	----	DI2-Q	....	....	....	....	....	....	COMBINING ACUTE ACCENT BELOW Subscript acute accent; Low rising tone
417	0318*	----	DI2-J	....	....	....	....	....	....	COMBINING LEFT TACK BELOW Advancing sign; Advanced tongue root
418	0319*	----	DI2-H	....	....	....	....	....	....	COMBINING RIGHT TACK BELOW Retracing sign; Retraced tongue root
427	031A*	----	DI1-o	....	....	....	....	....	....	COMBINING LEFT ANGLE ABOVE Corner; No audible release
	031B	---L	DW1-; DD1-a	....	....	....	....	....	....	COMBINING HORN
412	031C*	----	DI2-F	....	....	....	....	....	....	COMBINING LEFT HALF RING BELOW Subscript left half-ring; Less rounded
429	031D*	----	DI2-0	....	....	....	....	....	....	COMBINING UP TACK BELOW Raising sign; Raised
430	031E*	----	DI2-I	....	....	....	....	....	....	COMBINING DOWN TACK BELOW Lowering sign; Lowered

413	031F*	----	DI 2-U	.....	.....	.....	.....	COMBINING PLUS SIGN BELOW Subscript plus; Advanced
414	0320*	----	DI 2-Y	.....	.....	.....	.....	COMBINING MINUS SIGN BELOW Under-bar; Retraced
498	0321*	----	DI 2-X	.....	.....	.....	.....	COMBINING PALATALIZED HOOK BELOW Subscript left hook; Palatalized
489	0322*	----	DI 2-C	.....	.....	.....	.....	COMBINING RETROFLEX HOOK BELOW Subscript right hook; Rhoticity
497	0323	---L	DW2-.; DD2-S; DI2-S	.....	.....	.....	.....	COMBINING DOT BELOW Under-dot; Closer variety/ fricative
405	0324	---L	DW2-3; DD2-E; DI2-E	.....	.....	.....	.....	COMBINING DIAERESIS BELOW Subscript umlaut; Breathily voiced
402	0325	---L	DW2-0; DD2-P; DI2-P	.....	.....	.....	.....	COMBINING RING BELOW Under-ring; Voiceless
	0326	---L	DW2-.; DD2-A	.....	.....	.....	.....	COMBINING COMMA BELOW
	0327	---L	DW2-9; DD2-0	.....	.....	.....	.....	COMBINING CEDILLA
	0328	---L	DW2-2; DD2-W	.....	.....	.....	.....	COMBINING OGONEK
431	0329	---L	DW2-5; DD2-T; DI2-T	.....	.....	.....	.....	COMBINING VERTICAL LINE BELOW Syllabicity mark; Syllabic
408	032A*	----	DI 2-A	.....	.....	.....	.....	COMBINING BRIDGE BELOW Subscript bridge; Dental
499	032B*	----	DI 2-M	.....	.....	.....	.....	COMBINING INVERTED DOUBLE ARCH BELOW Subscript W; Labialized
403	032C*	----	DI 2-D	.....	.....	.....	.....	COMBINING CARON BELOW Subscript wedge; Voiced
	032D	---L	DW2-8; DD2-I	.....	.....	.....	.....	COMBINING CIRCUMFLEX ACCENT BELOW
	032E	---L	DW2-6; DD2-Y	.....	.....	.....	.....	COMBINING BREVE BELOW
432	032F*	----	DI 2-K	.....	.....	.....	.....	COMBINING INVERTED BREVE BELOW Subscript arch; Non-syllabic
406	0330	---L	DW2-4; DD2-R; DI2-R	.....	.....	.....	.....	COMBINING TILDE BELOW Subscript tilde; Creaky voiced
	0331	---L	DW2-.; DD2-D	.....	.....	.....	.....	COMBINING MACRON BELOW
	0332	---L	DW2-7; DD2-U	.....	.....	.....	.....	COMBINING LOW LINE
428	0334*	----	DI 2-B	.....	.....	.....	.....	COMBINING TILDE OVERLAY Superimposed tilde; Velarized or pharyngealized
	0335	---L	DD2-B	.....	.....	.....	.....	COMBINING SHORT STROKE OVERLAY
	0336	---L	DD2-V	.....	.....	.....	.....	COMBINING LONG STROKE OVERLAY
	0337	---L	DD2-C	.....	.....	.....	.....	COMBINING SHORT SOLIDUS OVERLAY
	0338	---L	DD2-X	.....	.....	.....	.....	COMBINING LONG SOLIDUS OVERLAY
411	0339*	----	DI 2-G	.....	.....	.....	.....	COMBINING RIGHT HALF RING BELOW Subscript right half-ring; More rounded
409	033A*	----	DI 2-L	.....	.....	.....	.....	COMBINING INVERTED BRIDGE BELOW Inverted subscript bridge; Apical
410	033B*	----	DI 2-Z	.....	.....	.....	.....	COMBINING SQUARE BELOW Subscript square; Laminal
407	033C*	----	DI 2-V	.....	.....	.....	.....	COMBINING SEAGULL BELOW Subscript seagull; Linguoal
416	033D*	----	DI 1-a	.....	.....	.....	.....	COMBINING X ABOVE Over-cross; Mid-centralized
	0342	---G	DD1-m	.....	.....	.....	.....	COMBINING GREEK PERI SPOMENI
	0344	---G	.....	DW1-3'	DW1-1	.....	.....	COMBINING GREEK DIALYTIKA TONOS
	0345	---G	DD2-M	.....	.....	.....	.....	COMBINING GREEK YPOGEGRAMMENI
	0347	---L	DW2-1; DD2-Q	.....	.....	.....	.....	COMBINING EQUALS SIGN BELOW
	034F	---H	HE2-C; YP1-.	.....	.....	.....	.....	COMBINING GRAPHEME JOINER
	0358	---L	DD1-x	.....	.....	.....	.....	COMBINING DOT ABOVE RIGHT
	035C	---L	DD2-Z	.....	.....	.....	.....	COMBINING DOUBLE BREVE BELOW
	035F	---L	DD2-L	.....	.....	.....	.....	COMBINING DOUBLE MACRON BELOW
	0360	---L	DD1-1	.....	.....	.....	.....	COMBINING DOUBLE TILDE
433	0361	---L	DD1-z; DI 1-z	.....	.....	.....	.....	COMBINING DOUBLE INVERTED BREVE Top tie bar; Affricate or double articulation
	0370	---G	GE2-H	.....	.....	.....	.....	GREEK CAPITAL LETTER HETA
	0371	---G	GE1-h	.....	.....	.....	.....	GREEK SMALL LETTER HETA
	0372	---G	GE2-Z	.....	.....	.....	.....	GREEK CAPITAL LETTER ARCHAIC SAMPI
	0373	---G	GE1-z	.....	.....	.....	.....	GREEK SMALL LETTER ARCHAIC SAMPI
	0374y	-2-G	YY1-k; DM1-5	.....	.....	.....	.....	GREEK NUMERAL SIGN
	0375	-2-G	GE2-I	.....	.....	.....	.....	GREEK LOWER NUMERAL SIGN
	0376	---G	GE2-G	.....	.....	.....	.....	GREEK CAPITAL LETTER PAMPHYLIAN DIGAMMA
	0377	---G	GE1-g	.....	.....	.....	.....	GREEK SMALL LETTER PAMPHYLIAN DIGAMMA
	037A	-2-G	DS2-M; GE2-J	.....	.....	.....	.....	GREEK YPOGEGRAMMENI
	037B	---G	GE1-o	.....	.....	.....	.....	GREEK SMALL REVERSED LUNATE SIGMA SYMBOL
	037C	---G	GE1-a	.....	.....	.....	.....	GREEK SMALL DOTTED LUNATE SIGMA SYMBOL
	037D	---G	GE1-d	.....	.....	.....	.....	GREEK SMALL REVERSED DOTTED LUNATE SIGMA SYMBOL
	037Ey	-2-G	YY1-o; G1-q	.....	.....	.....	.....	GREEK QUESTION MARK
	0384	-24G	GE2-P	.....	.....	.....	.....	GREEK TONOS
	0385	-24G	.....	DS1-e'	DW1-1	.....	.....	GREEK DIALYTIKA TONOS
	0386	-24G	.....	G2-A'	DW1-1	.....	.....	GREEK CAPITAL LETTER ALPHA WITH TONOS
	0387y	-24G	YY1-p; CX2-D	.....	.....	.....	.....	GREEK ANO TELEIA
	0388	-24G	.....	G2-E'	DW1-1	.....	.....	GREEK CAPITAL LETTER EPSILON WITH TONOS
	0389	-24G	.....	G2-H'	DW1-1	.....	.....	GREEK CAPITAL LETTER ETA WITH TONOS
	038A	-24G	.....	G2-I'	DW1-1	.....	.....	GREEK CAPITAL LETTER IOTA WITH TONOS
	038C	-24G	.....	G2-O'	DW1-1	.....	.....	GREEK CAPITAL LETTER OMEGA WITH TONOS
	038E	-24G	.....	G2-Y'	DW1-1	.....	.....	GREEK CAPITAL LETTER UPSILON WITH TONOS
	038F	-24G	.....	G2-V'	DW1-1	.....	.....	GREEK CAPITAL LETTER OMEGA WITH TONOS
	0390	-24G	.....	G1-1'	DW1-3'	DW1-1	.....	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS
	0391	-24G	G2-A	.....	.....	.....	.....	GREEK CAPITAL LETTER ALPHA
	0392	-24G	G2-B	.....	.....	.....	.....	GREEK CAPITAL LETTER BETA
	0393	-24G	G2-G	.....	.....	.....	.....	GREEK CAPITAL LETTER GAMMA
	0394	-24G	G2-D	.....	.....	.....	.....	GREEK CAPITAL LETTER DELTA
	0395	-24G	G2-E	.....	.....	.....	.....	GREEK CAPITAL LETTER EPSILON
	0396	-24G	G2-Z	.....	.....	.....	.....	GREEK CAPITAL LETTER ZETA
	0397	-24G	G2-H	.....	.....	.....	.....	GREEK CAPITAL LETTER ETA
	0398	-24G	G2-U	.....	.....	.....	.....	GREEK CAPITAL LETTER THETA
	0399	-24G	G2-I	.....	.....	.....	.....	GREEK CAPITAL LETTER IOTA
	039A	-24G	G2-K	.....	.....	.....	.....	GREEK CAPITAL LETTER KAPPA
	039B	-24G	G2-L	.....	.....	.....	.....	GREEK CAPITAL LETTER LAMDA
	039C	-24G	G2-M	.....	.....	.....	.....	GREEK CAPITAL LETTER MU
	039D	-24G	G2-N	.....	.....	.....	.....	GREEK CAPITAL LETTER NU
	039E	-24G	G2-J	.....	.....	.....	.....	GREEK CAPITAL LETTER XI
	039F	-24G	G2-O	.....	.....	.....	.....	GREEK CAPITAL LETTER OMEGA

03A0	-24G	G2-P	....	....	....	....	GREEK CAPITAL LETTER PI
03A1	-24G	G2-R	....	....	....	....	GREEK CAPITAL LETTER RHO
03A3	-24G	G2-S	....	....	....	....	GREEK CAPITAL LETTER SIGMA
03A4	-24G	G2-T	....	....	....	....	GREEK CAPITAL LETTER TAU
03A5	-24G	G2-Y	....	....	....	....	GREEK CAPITAL LETTER UPSILON
03A6	-24G	G2-F	....	....	....	....	GREEK CAPITAL LETTER PHI
03A7	-24G	G2-X	....	....	....	....	GREEK CAPITAL LETTER CHI
03A8	-24G	G2-C	....	....	....	....	GREEK CAPITAL LETTER PSI
03A9	-24G	G2-V;	YS2-0	....	....	....	GREEK CAPITAL LETTER OMEGA
03AA	-24G	....	G2-I'	DW1-3	....	....	GREEK CAPITAL LETTER IOTA WITH DIALYTIKA
03AB	-24G	....	G2-Y'	DW1-3	....	....	GREEK CAPITAL LETTER UPSILON WITH DIALYTIKA
03AC	-24G	....	G1-a'	DW1-1	....	....	GREEK SMALL LETTER ALPHA WITH TONOS
03AD	-24G	....	G1-e'	DW1-1	....	....	GREEK SMALL LETTER EPSILON WITH TONOS
03AE	-24G	....	G1-h'	DW1-1	....	....	GREEK SMALL LETTER ETA WITH TONOS
03AF	-24G	....	G1-i'	DW1-1	....	....	GREEK SMALL LETTER IOTA WITH TONOS
03B0	-24G	....	G1-y'	DW1-3'	DW1-1	....	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND TONOS
03B1	-24G	G1-a	....	....	....	....	GREEK SMALL LETTER ALPHA
127 03B2	-24G	G1-b;	i~b5	....	....	....	GREEK SMALL LETTER BETA Beta; Voiced bilabial fricative
03B3	-24G	G1-g	....	....	....	....	GREEK SMALL LETTER GAMMA
03B4	-24G	G1-d	....	....	....	....	GREEK SMALL LETTER DELTA
03B5	-24G	G1-e	....	....	....	....	GREEK SMALL LETTER EPSILON
03B6	-24G	G1-z	....	....	....	....	GREEK SMALL LETTER ZETA
03B7	-24G	G1-h	....	....	....	....	GREEK SMALL LETTER ETA
130 03B8	-24G	G1-u;	i~t5	....	....	....	GREEK SMALL LETTER THETA Theta; Voiceless dental fricative
03B9	-24G	G1-i	....	....	....	....	GREEK SMALL LETTER IOTA
03BA	-24G	G1-k	....	....	....	....	GREEK SMALL LETTER KAPPA
295 03BB	-24G	G1-l;	i~l5	....	....	....	GREEK SMALL LETTER LAMDA Lambda; Voiceless dental or alveolar lateral fricative
03BC	-24G	G1-m	....	....	....	....	GREEK SMALL LETTER MU
03BD	-24G	G1-n	....	....	....	....	GREEK SMALL LETTER NU
03BE	-24G	G1-j	....	....	....	....	GREEK SMALL LETTER XI
03BF	-24G	G1-o	....	....	....	....	GREEK SMALL LETTER OMICRON
03C0	-24G	G1-p	....	....	....	....	GREEK SMALL LETTER PI
03C1	-24G	G1-r	....	....	....	....	GREEK SMALL LETTER RHO
03C2	-24G	G1-w	....	....	....	....	GREEK SMALL LETTER FINAL SIGMA
03C3	-24G	G1-s	....	....	....	....	GREEK SMALL LETTER SIGMA
03C4	-24G	G1-t	....	....	....	....	GREEK SMALL LETTER TAU
03C5	-24G	G1-y	....	....	....	....	GREEK SMALL LETTER UPSILON
03C6	-24G	G1-f	....	....	....	....	GREEK SMALL LETTER PHI
142 03C7	-24G	G1-x;	i~x5	....	....	....	GREEK SMALL LETTER CHI Chi; Voiceless uvular fricative
03C8	-24G	G1-c	....	....	....	....	GREEK SMALL LETTER PSI
03C9	-24G	G1-v	....	....	....	....	GREEK SMALL LETTER OMEGA
03CA	-24G	....	G1-I'	DW1-3	....	....	GREEK SMALL LETTER IOTA WITH DIALYTIKA
03CB	-24G	....	G1-y'	DW1-3	....	....	GREEK SMALL LETTER UPSILON WITH DIALYTIKA
03CC	-24G	....	G1-o'	DW1-1	....	....	GREEK SMALL LETTER OMICRON WITH TONOS
03CD	-24G	....	G1-y'	DW1-1	....	....	GREEK SMALL LETTER UPSILON WITH TONOS
03CE	-24G	....	G1-v'	DW1-1	....	....	GREEK SMALL LETTER OMEGA WITH TONOS
03CF	--G	GE2-M	....	....	....	....	GREEK CAPITAL KAI SYMBOL
03D0	--G	GE1-b	....	....	....	....	GREEK BETA SYMBOL
03D1	--G	GE1-u	....	....	....	....	GREEK THETA SYMBOL
03D2	--G	GE2-Y	....	....	....	....	GREEK UPSILON WITH HOOK SYMBOL
03D3	--G	....	GE2-Y'	DW1-1	....	....	GREEK UPSILON WITH ACUTE AND HOOK SYMBOL
03D4	--G	....	GE2-Y'	DW1-3	....	....	GREEK UPSILON WITH DIAERESIS AND HOOK SYMBOL
03D5	--G	GE1-f	....	....	....	....	GREEK PHI SYMBOL
03D6	--G	GE1-p	....	....	....	....	GREEK PI SYMBOL
03D7	-2-G	GE1-m	....	....	....	....	GREEK KAI SYMBOL
03D8	--G	GE2-Q	....	....	....	....	GREEK LETTER ARCHAIC KOPPA
03D9	--G	GE1-q	....	....	....	....	GREEK SMALL LETTER ARCHAIC KOPPA
03DA	-2-G	GE2-C	....	....	....	....	GREEK LETTER STIGMA
03DB	-2-G	GE1-c	....	....	....	....	GREEK SMALL LETTER STIGMA
03DC	-2-G	GE2-W	....	....	....	....	GREEK LETTER DIGAMMA
03DD	-2-G	GE1-w	....	....	....	....	GREEK SMALL LETTER DIGAMMA
03DE	-2-G	GE2-T	....	....	....	....	GREEK LETTER KOPPA
03DF	-2-G	GE1-t	....	....	....	....	GREEK SMALL LETTER KOPPA
03E0	-2-G	GE2-X	....	....	....	....	GREEK LETTER SAMPI
03E1	-2-G	GE1-x	....	....	....	....	GREEK SMALL LETTER SAMPI
03F0	--G	GE1-k	....	....	....	....	GREEK KAPPA SYMBOL
03F1	--G	GE1-r	....	....	....	....	GREEK RHO SYMBOL
03F2	--G	GE1-s	....	....	....	....	GREEK LUNATE SIGMA SYMBOL
03F3	--G	GE1-j	....	....	....	....	GREEK LETTER YOT
03F4	--G	GE2-U	....	....	....	....	GREEK CAPITAL THETA SYMBOL
03F5	--G	GE1-e	....	....	....	....	GREEK LUNATE EPSILON SYMBOL
03F6	--G	GE1-y	....	....	....	....	GREEK REVERSED LUNATE EPSILON SYMBOL
03F7	--G	GE2-N	....	....	....	....	GREEK CAPITAL LETTER SHO
03F8	--G	GE1-n	....	....	....	....	GREEK SMALL LETTER SHO
03F9	--G	GE2-S	....	....	....	....	GREEK CAPITAL LUNATE SIGMA SYMBOL
03FA	--G	GE2-V	....	....	....	....	GREEK CAPITAL LETTER SAN
03FB	--G	GE1-v	....	....	....	....	GREEK SMALL LETTER SAN
03FC	--G	GE2-R	....	....	....	....	GREEK RHO WITH STROKE SYMBOL
03FD	--G	GE2-O	....	....	....	....	GREEK CAPITAL REVERSED LUNATE SIGMA SYMBOL
03FE	--G	GE2-A	....	....	....	....	GREEK CAPITAL DOTTED LUNATE SIGMA SYMBOL
03FF	--G	GE2-D	....	....	....	....	GREEK CAPITAL REVERSED DOTTED LUNATE SIGMA SYMBOL
0400	-24c	....	C2-E'	DW1-2	....	....	CYRILLIC CAPITAL LETTER IE WITH GRAVE
0401	-24c	....	C2-E'	DW1-3	....	....	CYRILLIC CAPITAL LETTER IO
0402	-24c	CE2-D	....	....	....	....	CYRILLIC CAPITAL LETTER DJE
0403	-24c	....	C2-G'	DW1-1	....	....	CYRILLIC CAPITAL LETTER GJE
0404	-24c	CE2-E	....	....	....	....	CYRILLIC CAPITAL LETTER UKRAINIAN IE
0405	-24c	CE2-S	....	....	....	....	CYRILLIC CAPITAL LETTER DZE
0406	-24c	CE2-I	....	....	....	....	CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I
0407	-24c	....	CE2-I'	DW1-3	....	....	CYRILLIC CAPITAL LETTER YI
0408	-24c	CE2-J	....	....	....	....	CYRILLIC CAPITAL LETTER JE
0409	-24c	CE2-L	....	....	....	....	CYRILLIC CAPITAL LETTER LJE
040A	-24c	CE2-N	....	....	....	....	CYRILLIC CAPITAL LETTER NJE
040B	-24c	CE2-X	....	....	....	....	CYRILLIC CAPITAL LETTER TSHE
040C	-24c	....	C2-K'	DW1-1	....	....	CYRILLIC CAPITAL LETTER KJE
040D	-24c	....	C2-I'	DW1-2	....	....	CYRILLIC CAPITAL LETTER I WITH GRAVE

040E	-24c	....	C2-U'	DW1-6	....	....	CYRILLIC CAPITAL LETTER SHORT U
040F	-24c	CE2-C	....	....	....	....	CYRILLIC CAPITAL LETTER DZHE
0410	-24c	C2-A	....	....	....	....	CYRILLIC CAPITAL LETTER A
0411	-24c	C2-B	....	....	....	....	CYRILLIC CAPITAL LETTER BE
0412	-24c	C2-V	....	....	....	....	CYRILLIC CAPITAL LETTER VE
0413	-24c	C2-G	....	....	....	....	CYRILLIC CAPITAL LETTER GHE
0414	-24c	C2-D	....	....	....	....	CYRILLIC CAPITAL LETTER DE
0415	-24c	C2-E	....	....	....	....	CYRILLIC CAPITAL LETTER IE
0416	-24c	C2-Q	....	....	....	....	CYRILLIC CAPITAL LETTER ZHE
0417	-24c	C2-Z	....	....	....	....	CYRILLIC CAPITAL LETTER ZE
0418	-24c	C2-I	....	....	....	....	CYRILLIC CAPITAL LETTER I
0419	-24c	CE2-Q;	C2-I'	DW1-6	....	....	CYRILLIC CAPITAL LETTER SHORT I
041A	-24c	C2-K	....	....	....	....	CYRILLIC CAPITAL LETTER KA
041B	-24c	C2-L	....	....	....	....	CYRILLIC CAPITAL LETTER EL
041C	-24c	C2-M	....	....	....	....	CYRILLIC CAPITAL LETTER EM
041D	-24c	C2-N	....	....	....	....	CYRILLIC CAPITAL LETTER EN
041E	-24c	C2-O	....	....	....	....	CYRILLIC CAPITAL LETTER O
041F	-24c	C2-P	....	....	....	....	CYRILLIC CAPITAL LETTER PE
0420	-24c	C2-R	....	....	....	....	CYRILLIC CAPITAL LETTER ER
0421	-24c	C2-S	....	....	....	....	CYRILLIC CAPITAL LETTER ES
0422	-24c	C2-T	....	....	....	....	CYRILLIC CAPITAL LETTER TE
0423	-24c	C2-U	....	....	....	....	CYRILLIC CAPITAL LETTER U
0424	-24c	C2-F	....	....	....	....	CYRILLIC CAPITAL LETTER EF
0425	-24c	C2-H	....	....	....	....	CYRILLIC CAPITAL LETTER HA
0426	-24c	C2-C	....	....	....	....	CYRILLIC CAPITAL LETTER TSE
0427	-24c	C2-X	....	....	....	....	CYRILLIC CAPITAL LETTER CHE
0428	-24c	C2-W	....	....	....	....	CYRILLIC CAPITAL LETTER SHA
0429	-24c	CE2-W	....	....	....	....	CYRILLIC CAPITAL LETTER SHCHA
042A	-24c	CE2-T	....	....	....	....	CYRILLIC CAPITAL LETTER HARD SIGN
042B	-24c	C2-Y	....	....	....	....	CYRILLIC CAPITAL LETTER YERU
042C	-24c	CE2-Y	....	....	....	....	CYRILLIC CAPITAL LETTER SOFT SIGN
042D	-24c	C2-J	....	....	....	....	CYRILLIC CAPITAL LETTER E
042E	-24c	CE2-U	....	....	....	....	CYRILLIC CAPITAL LETTER YU
042F	-24c	CE2-A	....	....	....	....	CYRILLIC CAPITAL LETTER YA
0430	-24c	C1-a	....	....	....	....	CYRILLIC SMALL LETTER A
0431	-24c	C1-b	....	....	....	....	CYRILLIC SMALL LETTER BE
0432	-24c	C1-v	....	....	....	....	CYRILLIC SMALL LETTER VE
0433	-24c	C1-g	....	....	....	....	CYRILLIC SMALL LETTER GHE
0434	-24c	C1-d	....	....	....	....	CYRILLIC SMALL LETTER DE
0435	-24c	C1-e	....	....	....	....	CYRILLIC SMALL LETTER IE
0436	-24c	C1-q	....	....	....	....	CYRILLIC SMALL LETTER ZHE
0437	-24c	C1-z	....	....	....	....	CYRILLIC SMALL LETTER ZE
0438	-24c	C1-i	....	....	....	....	CYRILLIC SMALL LETTER I
0439	-24c	CE1-q;	C1-i'	DW1-6	....	....	CYRILLIC SMALL LETTER SHORT I
043A	-24c	C1-k	....	....	....	....	CYRILLIC SMALL LETTER KA
043B	-24c	C1-l	....	....	....	....	CYRILLIC SMALL LETTER EL
043C	-24c	C1-m	....	....	....	....	CYRILLIC SMALL LETTER EM
043D	-24c	C1-n	....	....	....	....	CYRILLIC SMALL LETTER EN
043E	-24c	C1-o	....	....	....	....	CYRILLIC SMALL LETTER O
043F	-24c	C1-p	....	....	....	....	CYRILLIC SMALL LETTER PE
0440	-24c	C1-r	....	....	....	....	CYRILLIC SMALL LETTER ER
0441	-24c	C1-s	....	....	....	....	CYRILLIC SMALL LETTER ES
0442	-24c	C1-t	....	....	....	....	CYRILLIC SMALL LETTER TE
0443	-24c	C1-u	....	....	....	....	CYRILLIC SMALL LETTER U
0444	-24c	C1-f	....	....	....	....	CYRILLIC SMALL LETTER EF
0445	-24c	C1-h	....	....	....	....	CYRILLIC SMALL LETTER HA
0446	-24c	C1-c	....	....	....	....	CYRILLIC SMALL LETTER TSE
0447	-24c	C1-x	....	....	....	....	CYRILLIC SMALL LETTER CHE
0448	-24c	C1-w	....	....	....	....	CYRILLIC SMALL LETTER SHA
0449	-24c	CE1-w	....	....	....	....	CYRILLIC SMALL LETTER SHCHA
044A	-24c	CE1-t	....	....	....	....	CYRILLIC SMALL LETTER HARD SIGN
044B	-24c	C1-y	....	....	....	....	CYRILLIC SMALL LETTER YERU
044C	-24c	CE1-y	....	....	....	....	CYRILLIC SMALL LETTER SOFT SIGN
044D	-24c	C1-j	....	....	....	....	CYRILLIC SMALL LETTER E
044E	-24c	CE1-u	....	....	....	....	CYRILLIC SMALL LETTER YU
044F	-24c	CE1-a	....	....	....	....	CYRILLIC SMALL LETTER YA
0450	-24c	....	C1-e'	DW1-2	....	....	CYRILLIC SMALL LETTER IE WITH GRAVE
0451	-24c	....	C1-e'	DW1-3	....	....	CYRILLIC SMALL LETTER IO
0452	-24c	CE1-d	....	....	....	....	CYRILLIC SMALL LETTER DJE
0453	-24c	....	C1-g'	DW1-1	....	....	CYRILLIC SMALL LETTER GJE
0454	-24c	CE1-e	....	....	....	....	CYRILLIC SMALL LETTER UKRAINIAN IE
0455	-24c	CE1-s	....	....	....	....	CYRILLIC SMALL LETTER DZE
0456	-24c	CE1-i	....	....	....	....	CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
0457	-24c	....	CE1-i'	DW1-3	....	....	CYRILLIC SMALL LETTER YI
0458	-24c	CE1-j	....	....	....	....	CYRILLIC SMALL LETTER JE
0459	-24c	CE1-l	....	....	....	....	CYRILLIC SMALL LETTER LJE
045A	-24c	CE1-n	....	....	....	....	CYRILLIC SMALL LETTER NJE
045B	-24c	CE1-x	....	....	....	....	CYRILLIC SMALL LETTER TSHE
045C	-24c	....	C1-k'	DW1-1	....	....	CYRILLIC SMALL LETTER KJE
045D	-24c	....	C1-i'	DW1-2	....	....	CYRILLIC SMALL LETTER I WITH GRAVE
045E	-24c	....	C1-u'	DW1-6	....	....	CYRILLIC SMALL LETTER SHORT U
045F	-24c	CE1-c	....	....	....	....	CYRILLIC SMALL LETTER DZHE
0460	---c	CX2-W	....	....	....	....	CYRILLIC CAPITAL LETTER OMEGA
0461	---c	CX1-w	....	....	....	....	CYRILLIC SMALL LETTER OMEGA
0462	---c	CX2-E	....	....	....	....	CYRILLIC CAPITAL LETTER YAT
0463	---c	CX1-e	....	....	....	....	CYRILLIC SMALL LETTER YAT
0464	---c	CX2-G	....	....	....	....	CYRILLIC CAPITAL LETTER IOTIFIED E
0465	---c	CX1-g	....	....	....	....	CYRILLIC SMALL LETTER IOTIFIED E
0466	---c	CX2-H	....	....	....	....	CYRILLIC CAPITAL LETTER LITTLE YUS
0467	---c	CX1-h	....	....	....	....	CYRILLIC SMALL LETTER LITTLE YUS
0468	---c	CX2-J	....	....	....	....	CYRILLIC CAPITAL LETTER IOTIFIED LITTLE YUS
0469	---c	CX1-j	....	....	....	....	CYRILLIC SMALL LETTER IOTIFIED LITTLE YUS
046A	---c	CX2-K	....	....	....	....	CYRILLIC CAPITAL LETTER BIG YUS
046B	---c	CX1-k	....	....	....	....	CYRILLIC SMALL LETTER BIG YUS
046C	---c	CX2-L	....	....	....	....	CYRILLIC CAPITAL LETTER IOTIFIED BIG YUS
046D	---c	CX1-l	....	....	....	....	CYRILLIC SMALL LETTER IOTIFIED BIG YUS
046E	---c	CX2-X	....	....	....	....	CYRILLIC CAPITAL LETTER KSI
046F	---c	CX1-x	....	....	....	....	CYRILLIC SMALL LETTER KSI
0470	---c	CX2-C	....	....	....	....	CYRILLIC CAPITAL LETTER PSI



0471	---	c	CX1-c	....	....	....	....	CYRILLIC SMALL LETTER PSI
0472	---	c	CX2-F	....	....	....	....	CYRILLIC CAPITAL LETTER FITA
0473	---	c	CX1-f	....	....	....	....	CYRILLIC SMALL LETTER FITA
0474	---	c	CX2-I	....	....	....	....	CYRILLIC CAPITAL LETTER IZHITSA
0475	---	c	CX1-i	....	....	....	....	CYRILLIC SMALL LETTER IZHITSA
0476	---	c	....	CX2-I'	DD1-j	....	....	CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT
0477	---	c	....	CX1-I'	DD1-j	....	....	CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT
0478	---	c	CX2-U	....	....	....	....	CYRILLIC CAPITAL LETTER UK
0479	---	c	CX1-u	....	....	....	....	CYRILLIC SMALL LETTER UK
047A	---	c	CX2-O	....	....	....	....	CYRILLIC CAPITAL LETTER ROUND OMEGA
047B	---	c	CX1-o	....	....	....	....	CYRILLIC SMALL LETTER ROUND OMEGA
047C	---	c	CX2-N	....	....	....	....	CYRILLIC CAPITAL LETTER OMEGA WITH TITLO
047D	---	c	CX1-n	....	....	....	....	CYRILLIC SMALL LETTER OMEGA WITH TITLO
047E	---	c	CX2-M	....	....	....	....	CYRILLIC CAPITAL LETTER OT
047F	---	c	CX1-m	....	....	....	....	CYRILLIC SMALL LETTER OT
0480	---	c	CX2-Q	....	....	....	....	CYRILLIC CAPITAL LETTER KOPPA
0481	---	c	CX1-q	....	....	....	....	CYRILLIC SMALL LETTER KOPPA
0482	---	c	CX1-v	....	....	....	....	CYRILLIC THOUSANDS SIGN
0483	---	c	DD2-F	....	....	....	....	COMBINING CYRILLIC TITLO
0484	---	c	DD2-J	....	....	....	....	COMBINING CYRILLIC PALATALIZATI ON
0485	---	c	DD2-H	....	....	....	....	COMBINING CYRILLIC DASIA PNEUMATA
0486	---	c	DD2-G	....	....	....	....	COMBINING CYRILLIC PSILI PNEUMATA
0487	---	c	DD2-K	....	....	....	....	COMBINING CYRILLIC POKRYTIE
0488	---	c	CX1-b	....	....	....	....	COMBINING CYRILLIC HUNDRED THOUSANDS SIGN
0489	---	c	CX2-B	....	....	....	....	COMBINING CYRILLIC MILLIONS SIGN
0490	-24c		CE2-G	....	....	....	....	CYRILLIC CAPITAL LETTER GHE WITH UPTURN
0491	-24c		CE1-g	....	....	....	....	CYRILLIC SMALL LETTER GHE WITH UPTURN
0492	-2-c		CE2-Z	....	....	....	....	CYRILLIC CAPITAL LETTER GHE WITH STROKE
0493	-2-c		CE1-z	....	....	....	....	CYRILLIC SMALL LETTER GHE WITH STROKE
0494	-2-c		CX2-G	....	....	....	....	CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
0495	-2-c		CX1-g	....	....	....	....	CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
0496	-2-c		CX2-Q	....	....	....	....	CYRILLIC CAPITAL LETTER ZHE WITH DESCENDER
0497	-2-c		CX1-q	....	....	....	....	CYRILLIC SMALL LETTER ZHE WITH DESCENDER
0498	-2-c		CX2-Z	....	....	....	....	CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
0499	-2-c		CX1-z	....	....	....	....	CYRILLIC SMALL LETTER ZE WITH DESCENDER
049A	-2-c		CE2-K	....	....	....	....	CYRILLIC CAPITAL LETTER KA WITH DESCENDER
049B	-2-c		CE1-k	....	....	....	....	CYRILLIC SMALL LETTER KA WITH DESCENDER
049C	-2-c		CE2-P	....	....	....	....	CYRILLIC CAPITAL LETTER KA WITH VERTICAL STROKE
049D	-2-c		CE1-p	....	....	....	....	CYRILLIC SMALL LETTER KA WITH VERTICAL STROKE
049E	-2-c		CX2-K	....	....	....	....	CYRILLIC CAPITAL LETTER KA WITH STROKE
049F	-2-c		CX1-k	....	....	....	....	CYRILLIC SMALL LETTER KA WITH STROKE
04A0	-2-c		CX2-F	....	....	....	....	CYRILLIC CAPITAL LETTER BASHKIR KA
04A1	-2-c		CX1-f	....	....	....	....	CYRILLIC SMALL LETTER BASHKIR KA
04A2	-2-c		CE2-B	....	....	....	....	CYRILLIC CAPITAL LETTER EN WITH DESCENDER
04A3	-2-c		CE1-b	....	....	....	....	CYRILLIC SMALL LETTER EN WITH DESCENDER
04A4	-2-c		CX2-B	....	....	....	....	CYRILLIC CAPITAL LIGATURE EN GHE
04A5	-2-c		CX1-b	....	....	....	....	CYRILLIC SMALL LIGATURE EN GHE
04A6	-2-c		CX2-U	....	....	....	....	CYRILLIC CAPITAL LETTER PE WITH MIDDLE HOOK
04A7	-2-c		CX1-u	....	....	....	....	CYRILLIC SMALL LETTER PE WITH MIDDLE HOOK
04A8	-2-c		CX2-H	....	....	....	....	CYRILLIC CAPITAL LETTER ABKHASIAN HA
04A9	-2-c		CX1-h	....	....	....	....	CYRILLIC SMALL LETTER ABKHASIAN HA
04AA	-2-c		CX2-S	....	....	....	....	CYRILLIC CAPITAL LETTER ES WITH DESCENDER
04AB	-2-c		CX1-s	....	....	....	....	CYRILLIC SMALL LETTER ES WITH DESCENDER
04AC	-2-c		CX2-T	....	....	....	....	CYRILLIC CAPITAL LETTER TE WITH DESCENDER
04AD	-2-c		CX1-t	....	....	....	....	CYRILLIC SMALL LETTER TE WITH DESCENDER
04AE	-2-c		CE2-M	....	....	....	....	CYRILLIC CAPITAL LETTER STRAIGHT U
04AF	-2-c		CE1-m	....	....	....	....	CYRILLIC SMALL LETTER STRAIGHT U
04B0	-2-c		CE2-V	....	....	....	....	CYRILLIC CAPITAL LETTER STRAIGHT U WITH STROKE
04B1	-2-c		CE1-v	....	....	....	....	CYRILLIC SMALL LETTER STRAIGHT U WITH STROKE
04B2	-2-c		CE2-H	....	....	....	....	CYRILLIC CAPITAL LETTER HA WITH DESCENDER
04B3	-2-c		CE1-h	....	....	....	....	CYRILLIC SMALL LETTER HA WITH DESCENDER
04B4	-2-c		CX2-C	....	....	....	....	CYRILLIC CAPITAL LIGATURE TE TSE
04B5	-2-c		CX1-c	....	....	....	....	CYRILLIC SMALL LIGATURE TE TSE
04B6	-2-c		CX2-X	....	....	....	....	CYRILLIC CAPITAL LETTER CHE WITH DESCENDER
04B7	-2-c		CX1-x	....	....	....	....	CYRILLIC SMALL LETTER CHE WITH DESCENDER
04B8	-2-c		CX2-M	....	....	....	....	CYRILLIC CAPITAL LETTER CHE WITH VERTICAL STROKE
04B9	-2-c		CX1-m	....	....	....	....	CYRILLIC SMALL LETTER CHE WITH VERTICAL STROKE
04BA	-2-c		CE2-F	....	....	....	....	CYRILLIC CAPITAL LETTER SHHA
04BB	-2-c		CE1-f	....	....	....	....	CYRILLIC SMALL LETTER SHHA
04BC	-2-c		CX2-R	....	....	....	....	CYRILLIC CAPITAL LETTER ABKHASIAN CHE
04BD	-2-c		CX1-r	....	....	....	....	CYRILLIC SMALL LETTER ABKHASIAN CHE
04BE	-2-c		CX2-W	....	....	....	....	CYRILLIC CAPITAL LETTER ABKHASIAN CHE WITH DESCENDER
04BF	-2-c		CX1-w	....	....	....	....	CYRILLIC SMALL LETTER ABKHASIAN CHE WITH DESCENDER
04C0	-2-c		CX2-Y	....	....	....	....	CYRILLIC LETTER PALOCHKA
04C1	-2-c		....	C2-Q'	DW1-6	....	....	CYRILLIC CAPITAL LETTER ZHE WITH BREVE
04C2	-2-c		....	C1-q'	DW1-6	....	....	CYRILLIC SMALL LETTER ZHE WITH BREVE
04C3	-2-c		CX2-J	....	....	....	....	CYRILLIC CAPITAL LETTER KA WITH HOOK
04C4	-2-c		CX1-j	....	....	....	....	CYRILLIC SMALL LETTER KA WITH HOOK
04C7	-2-c		CX2-N	....	....	....	....	CYRILLIC CAPITAL LETTER EN WITH HOOK
04C8	-2-c		CX1-n	....	....	....	....	CYRILLIC SMALL LETTER EN WITH HOOK
04CB	-2-c		CX2-V	....	....	....	....	CYRILLIC CAPITAL LETTER KHAKASSIAN CHE
04CC	-2-c		CX1-v	....	....	....	....	CYRILLIC SMALL LETTER KHAKASSIAN CHE
04CF	---	c	CX1-y	....	....	....	....	CYRILLIC SMALL LETTER PALOCHKA
04D0	-2-c		....	C2-A'	DW1-6	....	....	CYRILLIC CAPITAL LETTER A WITH BREVE
04D1	-2-c		....	C1-a'	DW1-6	....	....	CYRILLIC SMALL LETTER A WITH BREVE
04D2	-2-c		....	C2-A'	DW1-3	....	....	CYRILLIC CAPITAL LETTER A WITH DIAERESIS
04D3	-2-c		....	C1-a'	DW1-3	....	....	CYRILLIC SMALL LETTER A WITH DIAERESIS
04D4	-2-c		CX2-A	....	....	....	....	CYRILLIC CAPITAL LIGATURE A IE
04D5	-2-c		CX1-a	....	....	....	....	CYRILLIC SMALL LIGATURE A IE
04D6	-2-c		....	C2-E'	DW1-6	....	....	CYRILLIC CAPITAL LETTER IE WITH BREVE
04D7	-2-c		....	C1-e'	DW1-6	....	....	CYRILLIC SMALL LETTER IE WITH BREVE
04D8	-2-c		CE2-R	....	....	....	....	CYRILLIC CAPITAL LETTER SCHWA
04D9	-2-c		CE1-r	....	....	....	....	CYRILLIC SMALL LETTER SCHWA
04DA	-2-c		....	CE2-R'	DW1-3	....	....	CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS
04DB	-2-c		....	CE1-r'	DW1-3	....	....	CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS
04DC	-2-c		....	C2-Q'	DW1-3	....	....	CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS
04DD	-2-c		....	C1-q'	DW1-3	....	....	CYRILLIC SMALL LETTER ZHE WITH DIAERESIS
04DE	-2-c		....	C2-Z'	DW1-3	....	....	CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS
04DF	-2-c		....	C1-z'	DW1-3	....	....	CYRILLIC SMALL LETTER ZE WITH DIAERESIS

04E0	-2-c	CX2-D	....	....	....	CYRILLIC CAPITAL LETTER ABKHASIAN DZE
04E1	-2-c	CX1-d	....	....	....	CYRILLIC SMALL LETTER ABKHASIAN DZE
04E2	-2-c	....	C2-1'	DW1--	....	CYRILLIC CAPITAL LETTER I WITH MACRON
04E3	-2-c	....	C1-i'	DW1--	....	CYRILLIC SMALL LETTER I WITH MACRON
04E4	-2-c	....	C2-1'	DW1-3	....	CYRILLIC CAPITAL LETTER I WITH DIAERESIS
04E5	-2-c	....	C1-i'	DW1-3	....	CYRILLIC SMALL LETTER I WITH DIAERESIS
04E6	-2-c	....	C2-0'	DW1-3	....	CYRILLIC CAPITAL LETTER O WITH DIAERESIS
04E7	-2-c	....	C1-o'	DW1-3	....	CYRILLIC SMALL LETTER O WITH DIAERESIS
04E8	-2-c	CE2-0	....	....	....	CYRILLIC CAPITAL LETTER BARRED O
04E9	-2-c	CE1-o	....	....	....	CYRILLIC SMALL LETTER BARRED O
04EA	-2-c	....	CE2-0'	DW1-3	....	CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS
04EB	-2-c	....	CE1-o'	DW1-3	....	CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS
04EC	--c	....	C2-J'	DW1-3	....	CYRILLIC CAPITAL LETTER E WITH DIAERESIS
04ED	--c	....	C1-j'	DW1-3	....	CYRILLIC SMALL LETTER E WITH DIAERESIS
04EE	-2-c	....	C2-U'	DW1--	....	CYRILLIC CAPITAL LETTER U WITH MACRON
04EF	-2-c	....	C1-u'	DW1--	....	CYRILLIC SMALL LETTER U WITH MACRON
04F0	-2-c	....	C2-U'	DW1-3	....	CYRILLIC CAPITAL LETTER U WITH DIAERESIS
04F1	-2-c	....	C1-u'	DW1-3	....	CYRILLIC SMALL LETTER U WITH DIAERESIS
04F2	-2-c	....	C2-U'	DW1-5	....	CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
04F3	-2-c	....	C1-u'	DW1-5	....	CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
04F4	-2-c	....	C2-X'	DW1-3	....	CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS
04F5	-2-c	....	C1-x'	DW1-3	....	CYRILLIC SMALL LETTER CHE WITH DIAERESIS
04F6	--c	CX2-0	....	....	....	CYRILLIC CAPITAL LETTER GHE WITH DESCENDER
04F7	--c	CX1-o	....	....	....	CYRILLIC SMALL LETTER GHE WITH DESCENDER
04F8	-2-c	....	C2-Y'	DW1-3	....	CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS
04F9	-2-c	....	C1-y'	DW1-3	....	CYRILLIC SMALL LETTER YERU WITH DIAERESIS
0510	--c	CX2-E	....	....	....	CYRILLIC CAPITAL LETTER REVERSED ZE
0511	--c	CX1-e	....	....	....	CYRILLIC SMALL LETTER REVERSED ZE
0512	--c	CX2-L	....	....	....	CYRILLIC CAPITAL LETTER EL WITH HOOK
0513	--c	CX1-l	....	....	....	CYRILLIC SMALL LETTER EL WITH HOOK
0524	--c	CX2-P	....	....	....	CYRILLIC CAPITAL LETTER PE WITH DESCENDER [Uni code 5.2]
0525	--c	CX1-p	....	....	....	CYRILLIC SMALL LETTER PE WITH DESCENDER [Uni code 5.2]
0526	--c	CX2-I	....	....	....	CYRILLIC CAPITAL LETTER SHHA WITH DESCENDER [Uni code 5.2]
0527	--c	CX1-i	....	....	....	CYRILLIC SMALL LETTER SHHA WITH DESCENDER [Uni code 5.2]
0531	--W	W2-A	....	....	....	ARMENIAN CAPITAL LETTER AYB
0532	--W	W2-B	....	....	....	ARMENIAN CAPITAL LETTER BEN
0533	--W	W2-C	....	....	....	ARMENIAN CAPITAL LETTER GIM
0534	--W	W2-D	....	....	....	ARMENIAN CAPITAL LETTER DA
0535	--W	W2-Y	....	....	....	ARMENIAN CAPITAL LETTER ECH
0536	--W	W2-Z	....	....	....	ARMENIAN CAPITAL LETTER ZA
0537	--W	W2-E	....	....	....	ARMENIAN CAPITAL LETTER EH
0538	--W	W2-U	....	....	....	ARMENIAN CAPITAL LETTER ET
0539	--W	WE2-T	....	....	....	ARMENIAN CAPITAL LETTER TO
053A	--W	WE2-Z	....	....	....	ARMENIAN CAPITAL LETTER ZHE
053B	--W	W2-I	....	....	....	ARMENIAN CAPITAL LETTER INI
053C	--W	W2-L	....	....	....	ARMENIAN CAPITAL LETTER LIWN
053D	--W	W2-Q	....	....	....	ARMENIAN CAPITAL LETTER XEH
053E	--W	WE2-C	....	....	....	ARMENIAN CAPITAL LETTER CA
053F	--W	W2-K	....	....	....	ARMENIAN CAPITAL LETTER KEN
0540	--W	W2-H	....	....	....	ARMENIAN CAPITAL LETTER HO
0541	--W	WE2-J	....	....	....	ARMENIAN CAPITAL LETTER JA
0542	--W	WE2-G	....	....	....	ARMENIAN CAPITAL LETTER GHAD
0543	--W	W2-J	....	....	....	ARMENIAN CAPITAL LETTER CHEH
0544	--W	W2-M	....	....	....	ARMENIAN CAPITAL LETTER MEN
0545	--W	WE2-Y	....	....	....	ARMENIAN CAPITAL LETTER YI
0546	--W	W2-N	....	....	....	ARMENIAN CAPITAL LETTER NOW
0547	--W	WE2-S	....	....	....	ARMENIAN CAPITAL LETTER SHA
0548	--W	W2-O	....	....	....	ARMENIAN CAPITAL LETTER VO
0549	--W	WE2-X	....	....	....	ARMENIAN CAPITAL LETTER CHA
054A	--W	W2-P	....	....	....	ARMENIAN CAPITAL LETTER PEH
054B	--W	WE2-H	....	....	....	ARMENIAN CAPITAL LETTER JHEH
054C	--W	WE2-R	....	....	....	ARMENIAN CAPITAL LETTER RA
054D	--W	W2-S	....	....	....	ARMENIAN CAPITAL LETTER SEH
054E	--W	W2-V	....	....	....	ARMENIAN CAPITAL LETTER VEW
054F	--W	W2-T	....	....	....	ARMENIAN CAPITAL LETTER TIWN
0550	--W	W2-R	....	....	....	ARMENIAN CAPITAL LETTER REH
0551	--W	W2-X	....	....	....	ARMENIAN CAPITAL LETTER CO
0552	--W	W2-W	....	....	....	ARMENIAN CAPITAL LETTER YIWN
0553	--W	WE2-P	....	....	....	ARMENIAN CAPITAL LETTER PIWR
0554	--W	W2-G	....	....	....	ARMENIAN CAPITAL LETTER KEH
0555	--W	WE2-0	....	....	....	ARMENIAN CAPITAL LETTER OH
0556	--W	W2-F	....	....	....	ARMENIAN CAPITAL LETTER FEH
055A	--W	WE2-A	....	....	....	ARMENIAN APOSTROPHE
055B	--W	WE1-w	....	....	....	ARMENIAN EMPHASIS MARK
055C	--W	WE1-d	....	....	....	ARMENIAN EXCLAMATION MARK
055D	--W	WE1-k	....	....	....	ARMENIAN COMMA
055E	--W	WE1-f	....	....	....	ARMENIAN QUESTION MARK
055F	--W	WE1-q	....	....	....	ARMENIAN ABBREVIATION MARK
0561	--W	W1-a	....	....	....	ARMENIAN SMALL LETTER AYB
0562	--W	W1-b	....	....	....	ARMENIAN SMALL LETTER BEN
0563	--W	W1-c	....	....	....	ARMENIAN SMALL LETTER GIM
0564	--W	W1-d	....	....	....	ARMENIAN SMALL LETTER DA
0565	--W	W1-y	....	....	....	ARMENIAN SMALL LETTER ECH
0566	--W	W1-z	....	....	....	ARMENIAN SMALL LETTER ZA
0567	--W	W1-e	....	....	....	ARMENIAN SMALL LETTER EH
0568	--W	W1-u	....	....	....	ARMENIAN SMALL LETTER ET
0569	--W	WE1-t	....	....	....	ARMENIAN SMALL LETTER TO
056A	--W	WE1-z	....	....	....	ARMENIAN SMALL LETTER ZHE
056B	--W	W1-i	....	....	....	ARMENIAN SMALL LETTER INI
056C	--W	W1-l	....	....	....	ARMENIAN SMALL LETTER LIWN
056D	--W	W1-q	....	....	....	ARMENIAN SMALL LETTER XEH
056E	--W	WE1-c	....	....	....	ARMENIAN SMALL LETTER CA
056F	--W	W1-k	....	....	....	ARMENIAN SMALL LETTER KEN
0570	--W	W1-h	....	....	....	ARMENIAN SMALL LETTER HO
0571	--W	WE1-j	....	....	....	ARMENIAN SMALL LETTER JA
0572	--W	WE1-g	....	....	....	ARMENIAN SMALL LETTER GHAD
0573	--W	W1-j	....	....	....	ARMENIAN SMALL LETTER CHEH
0574	--W	W1-m	....	....	....	ARMENIAN SMALL LETTER MEN
0575	--W	WE1-y	....	....	....	ARMENIAN SMALL LETTER YI

0576	---	W	W1-n	....	....	....	....	ARMENIAN SMALL LETTER NOW
0577	---	W	WE1-s	....	....	....	....	ARMENIAN SMALL LETTER SHA
0578	---	W	W1-o	....	....	....	....	ARMENIAN SMALL LETTER VO
0579	---	W	WE1-x	....	....	....	....	ARMENIAN SMALL LETTER CHA
057A	---	W	W1-p	....	....	....	....	ARMENIAN SMALL LETTER PEH
057B	---	W	WE1-h	....	....	....	....	ARMENIAN SMALL LETTER JHEH
057C	---	W	WE1-r	....	....	....	....	ARMENIAN SMALL LETTER RA
057D	---	W	W1-s	....	....	....	....	ARMENIAN SMALL LETTER SEH
057E	---	W	W1-v	....	....	....	....	ARMENIAN SMALL LETTER VEW
057F	---	W	W1-t	....	....	....	....	ARMENIAN SMALL LETTER TI WN
0580	---	W	W1-r	....	....	....	....	ARMENIAN SMALL LETTER REH
0581	---	W	W1-x	....	....	....	....	ARMENIAN SMALL LETTER CO
0582	---	W	W1-w	....	....	....	....	ARMENIAN SMALL LETTER YI WN
0583	---	W	WE1-p	....	....	....	....	ARMENIAN SMALL LETTER PI WR
0584	---	W	W1-g	....	....	....	....	ARMENIAN SMALL LETTER KEH
0585	---	W	WE1-o	....	....	....	....	ARMENIAN SMALL LETTER OH
0586	---	W	W1-f	....	....	....	....	ARMENIAN SMALL LETTER FEH
0587	---	W	WE1-e	....	....	....	....	ARMENIAN SMALL LI GATURE ECH YI WN
0589	---	W	CX1-d; Q2-Z; WE1-l	....	....	....	....	ARMENIAN FULL STOP
058A	---	W	WE1-u	....	....	....	....	ARMENIAN HYPHEN
0591	---	H	HE1-e	....	....	....	....	HEBREW ACCENT ETNAHTA
0592	---	H	HE1-r	....	....	....	....	HEBREW ACCENT SEGOL
0593	---	H	HE1-t	....	....	....	....	HEBREW ACCENT SHALSHELET
0594	---	H	HE1-y	....	....	....	....	HEBREW ACCENT ZAQEF QATAN
0595	---	H	HE1-u	....	....	....	....	HEBREW ACCENT ZAQEF GADOL
0596	---	H	HE1-i	....	....	....	....	HEBREW ACCENT TI PEHA
0597	---	H	HE1-o	....	....	....	....	HEBREW ACCENT REVI A
0598	---	H	HE1-p	....	....	....	....	HEBREW ACCENT ZARQA
0599	---	H	HE1-a	....	....	....	....	HEBREW ACCENT PASHTA
059A	---	H	HE1-s	....	....	....	....	HEBREW ACCENT YETI V
059B	---	H	HE1-d	....	....	....	....	HEBREW ACCENT TEVI R
059C	---	H	HE1-f	....	....	....	....	HEBREW ACCENT GERESH
059D	---	H	HE1-g	....	....	....	....	HEBREW ACCENT GERESH MUQDAM
059E	---	H	HE1-h	....	....	....	....	HEBREW ACCENT GERSHAYI M
059F	---	H	HE1-j	....	....	....	....	HEBREW ACCENT QARNEY PARA
05A0	---	H	HE1-k	....	....	....	....	HEBREW ACCENT TELI SHA GEDOLA
05A1	---	H	HE1-l	....	....	....	....	HEBREW ACCENT PAZER
05A2	---	H	HE1-z	....	....	....	....	HEBREW ACCENT ATNAH HAFUKH
05A3	---	H	HE1-x	....	....	....	....	HEBREW ACCENT MUNAH
05A4	---	H	HE1-c	....	....	....	....	HEBREW ACCENT MAHAPAKH
05A5	---	H	HE1-v	....	....	....	....	HEBREW ACCENT MERKHA
05A6	---	H	HE1-b	....	....	....	....	HEBREW ACCENT MERKHA KEFULA
05A7	---	H	HE1-n	....	....	....	....	HEBREW ACCENT DARGA
05A8	---	H	HE1-m	....	....	....	....	HEBREW ACCENT QADMA
05A9	---	H	HE2-E	....	....	....	....	HEBREW ACCENT TELI SHA QETANA
05AA	---	H	HE2-Z	....	....	....	....	HEBREW ACCENT YERAH BEN YOMO
05AB	---	H	HE2-U	....	....	....	....	HEBREW ACCENT OLE
05AC	---	H	HE2-I	....	....	....	....	HEBREW ACCENT ILUY
05AD	---	H	HE2-O	....	....	....	....	HEBREW ACCENT DEHI
05AE	---	H	HE2-P	....	....	....	....	HEBREW ACCENT ZI NOR
05AF	---	H	HE2-M	....	....	....	....	HEBREW MARK MASORA CI RCLE
05B0	---	H	H2-T; HW1-; HW2--	....	....	....	....	HEBREW POINT SHEVA
05B1	---	H	H2-Z; HW1-1; HW2-1	....	....	....	....	HEBREW POINT HATAF SEGOL
05B2	---	H	H2-X; HW1-2; HW2-2	....	....	....	....	HEBREW POINT HATAF PATAH
05B3	---	H	H2-C; HW1-3; HW2-3	....	....	....	....	HEBREW POINT HATAF QAMATS
05B4	---	H	H2-I; HW1-4; HW2-4	....	....	....	....	HEBREW POINT HIRIQ
05B5	---	H	H2-O; HW1-5; HW2-5	....	....	....	....	HEBREW POINT TSERE
05B6	---	H	H2-A; HW1-6; HW2-6	....	....	....	....	HEBREW POINT SEGOL
05B7	---	H	H2-S; HW1-7; HW2-7	....	....	....	....	HEBREW POINT PATAH
05B8	---	H	H2-D; HW1-8; HW2-8	....	....	....	....	HEBREW POINT QAMATS
05B9	---	H	H2-K; HW1--; HW2--	....	....	....	....	HEBREW POINT HOLAM
05BA	---	H	HE2-K	....	....	....	....	HEBREW POINT HOLAM HASER FOR VAV
05BB	---	H	H2-E; HW1-\; HW2-\	....	....	....	....	HEBREW POINT QUBUTS
05BC	---	H	H2-L; HW1-=; HW2-=	....	....	....	....	HEBREW POINT DAGESH OR MAPI Q
05BD	---	H	HE2-N	....	....	....	....	HEBREW POINT METEG
05BE	---	H	H2-V	....	....	....	....	HEBREW PUNCTUATION MAQAF
05BF	---	H	H2-R	....	....	....	....	HEBREW POINT RAFE
05C0	---	H	H2-N	....	....	....	....	HEBREW PUNCTUATION PASEQ
05C1	---	H	H2-G; HW1-O; HW2-O	....	....	....	....	HEBREW POINT SHI N DOT
05C2	---	H	H2-F; HW1-9; HW2-9	....	....	....	....	HEBREW POINT SIN DOT
05C3	---	H	H2-B	....	....	....	....	HEBREW PUNCTUATION SOF PASUQ
05C4	---	H	HE2-G	....	....	....	....	HEBREW MARK UPPER DOT
05C5	---	H	HE2-F	....	....	....	....	HEBREW MARK LOWER DOT
05C6	---	H	HE2-B	....	....	....	....	HEBREW PUNCTUATION NUN HAFUKHA
05C7	---	H	HE2-D	....	....	....	....	HEBREW POINT QAMATS QATAN
05D0	---	H	H1-t	....	....	....	....	HEBREW LETTER ALEF
05D1	---	H	H1-c	....	....	....	....	HEBREW LETTER BET
05D2	---	H	H1-d	....	....	....	....	HEBREW LETTER GIMEL
05D3	---	H	H1-s	....	....	....	....	HEBREW LETTER DALET
05D4	---	H	H1-v	....	....	....	....	HEBREW LETTER HE
05D5	---	H	H1-u	....	....	....	....	HEBREW LETTER VAV
05D6	---	H	H1-z	....	....	....	....	HEBREW LETTER ZAYI N
05D7	---	H	H1-j	....	....	....	....	HEBREW LETTER HET
05D8	---	H	H1-y	....	....	....	....	HEBREW LETTER TET
05D9	---	H	H1-h	....	....	....	....	HEBREW LETTER YOD
05DA	---	H	H1-l	....	....	....	....	HEBREW LETTER FINAL KAF
05DB	---	H	H1-f	....	....	....	....	HEBREW LETTER KAF
05DC	---	H	H1-k	....	....	....	....	HEBREW LETTER LAMED
05DD	---	H	H1-o	....	....	....	....	HEBREW LETTER FINAL MEM
05DE	---	H	H1-n	....	....	....	....	HEBREW LETTER MEM
05DF	---	H	H1-i	....	....	....	....	HEBREW LETTER FINAL NUN
05E0	---	H	H1-b	....	....	....	....	HEBREW LETTER NUN
05E1	---	H	H1-x	....	....	....	....	HEBREW LETTER SAMEKH
05E2	---	H	H1-g	....	....	....	....	HEBREW LETTER AYI N
05E3	---	H	H2-P	....	....	....	....	HEBREW LETTER FINAL PE
05E4	---	H	H1-p	....	....	....	....	HEBREW LETTER PE
05E5	---	H	H2-M	....	....	....	....	HEBREW LETTER FINAL TSADI
05E6	---	H	H1-m	....	....	....	....	HEBREW LETTER TSADI
05E7	---	H	H1-e	....	....	....	....	HEBREW LETTER QOF

05E8	---	H	H1-r	....	....	....	....	HEBREW LETTER RESH
05E9	---	H	H1-a	....	....	....	....	HEBREW LETTER SHIN
05EA	---	H	H2-Y	....	....	....	....	HEBREW LETTER TAV
05F0	---	H	H2-U	....	....	....	....	HEBREW LI GATURE YIDDI SH DOUBLE VAV
05F1	---	H	H2-J	....	....	....	....	HEBREW LI GATURE YIDDI SH VAV YOD
05F2	---	H	H2-H	....	....	....	....	HEBREW LI GATURE YIDDI SH DOUBLE YOD
05F3	---	H	H2-W	....	....	....	....	HEBREW PUNCTUATION GERESH
05F4	---	H	H2-Q	....	....	....	....	HEBREW PUNCTUATION GERSHAYIM
0E3F	----		YC1-b	....	....	....	....	THAI CURRENCY SYMBOL BAHT
10D0	---	Q	Q1-g	....	....	....	....	GEORGIAN LETTER AN
10D1	---	Q	Q2-V	....	....	....	....	GEORGIAN LETTER BAN
10D2	---	Q	Q1-u	....	....	....	....	GEORGIAN LETTER GAN
10D3	---	Q	Q2-K	....	....	....	....	GEORGIAN LETTER DON
10D4	---	Q	Q1-t	....	....	....	....	GEORGIAN LETTER EN
10D5	---	Q	Q1-d	....	....	....	....	GEORGIAN LETTER VIN
10D6	---	Q	Q1-p	....	....	....	....	GEORGIAN LETTER ZEN
10D7	---	Q	Q1-f	....	....	....	....	GEORGIAN LETTER TAN
10D8	---	Q	Q1-n	....	....	....	....	GEORGIAN LETTER IN
10D9	---	Q	Q1-r	....	....	....	....	GEORGIAN LETTER KAN
10DA	---	Q	Q1-l	....	....	....	....	GEORGIAN LETTER LAS
10DB	---	Q	Q1-b	....	....	....	....	GEORGIAN LETTER MAN
10DC	---	Q	Q1-y	....	....	....	....	GEORGIAN LETTER NAR
10DD	---	Q	Q1-k	....	....	....	....	GEORGIAN LETTER ON
10DE	---	Q	Q1-h	....	....	....	....	GEORGIAN LETTER PAR
10DF	---	Q	Q2-L	....	....	....	....	GEORGIAN LETTER ZHAR
10E0	---	Q	Q1-j	....	....	....	....	GEORGIAN LETTER RAE
10E1	---	Q	Q1-v	....	....	....	....	GEORGIAN LETTER SAN
10E2	---	Q	Q1-m	....	....	....	....	GEORGIAN LETTER TAR
10E3	---	Q	Q1-e	....	....	....	....	GEORGIAN LETTER UN
10E4	---	Q	Q1-a	....	....	....	....	GEORGIAN LETTER PHAR
10E5	---	Q	Q2-C	....	....	....	....	GEORGIAN LETTER KHAR
10E6	---	Q	Q1-q	....	....	....	....	GEORGIAN LETTER GHAN
10E7	---	Q	Q1-c	....	....	....	....	GEORGIAN LETTER QAR
10E8	---	Q	Q1-i	....	....	....	....	GEORGIAN LETTER SHIN
10E9	---	Q	Q1-x	....	....	....	....	GEORGIAN LETTER CHIN
10EA	---	Q	Q2-0	....	....	....	....	GEORGIAN LETTER CAN
10EB	---	Q	Q1-s	....	....	....	....	GEORGIAN LETTER JIL
10EC	---	Q	Q1-o	....	....	....	....	GEORGIAN LETTER CIL
10ED	---	Q	Q1-z	....	....	....	....	GEORGIAN LETTER CHAR
10EE	---	Q	Q2-I	....	....	....	....	GEORGIAN LETTER XAN
10EF	---	Q	Q1-w	....	....	....	....	GEORGIAN LETTER JHAN
10F0	---	Q	Q2-B	....	....	....	....	GEORGIAN LETTER HAE
10F1	---	Q	Q2-T	....	....	....	....	GEORGIAN LETTER HE
10F2	---	Q	Q2-N	....	....	....	....	GEORGIAN LETTER HIE
10F3	---	Q	Q2-D	....	....	....	....	GEORGIAN LETTER WE
10F4	---	Q	Q2-P	....	....	....	....	GEORGIAN LETTER HAR
10F5	---	Q	Q2-M	....	....	....	....	GEORGIAN LETTER HOE
10F6	---	Q	Q2-A	....	....	....	....	GEORGIAN LETTER FI
10F7	---	Q	Q2-Q	....	....	....	....	GEORGIAN LETTER YN
10F8	---	Q	Q2-W	....	....	....	....	GEORGIAN LETTER ELIFI
10F9	---	Q	Q2-E	....	....	....	....	GEORGIAN LETTER TURNED GAN
10FA	---	Q	Q2-R	....	....	....	....	GEORGIAN LETTER AIN
10FB	---	Q	CX2-R; Q2-X	....	....	....	....	GEORGIAN PARAGRAPH SEPARATOR
10FC	---	Q	Q2-Y	....	....	....	....	MODIFIER LETTER GEORGIAN NAR
1D2C	---	L	LR2-A	....	....	....	....	MODIFIER LETTER CAPITAL A
1D2E	---	L	LR2-B	....	....	....	....	MODIFIER LETTER CAPITAL B
1D30	---	L	LR2-D	....	....	....	....	MODIFIER LETTER CAPITAL D
1D31	---	L	LR2-E	....	....	....	....	MODIFIER LETTER CAPITAL E
1D33	---	L	LR2-G	....	....	....	....	MODIFIER LETTER CAPITAL G
1D34	---	L	LR2-H	....	....	....	....	MODIFIER LETTER CAPITAL H
1D35	---	L	LR2-I	....	....	....	....	MODIFIER LETTER CAPITAL I
1D36	---	L	LR2-J	....	....	....	....	MODIFIER LETTER CAPITAL J
1D37	---	L	LR2-K	....	....	....	....	MODIFIER LETTER CAPITAL K
1D38	---	L	LR2-L	....	....	....	....	MODIFIER LETTER CAPITAL L
1D39	---	L	LR2-M	....	....	....	....	MODIFIER LETTER CAPITAL M
1D3A	---	L	LR2-N	....	....	....	....	MODIFIER LETTER CAPITAL N
1D3C	---	L	LR2-O	....	....	....	....	MODIFIER LETTER CAPITAL O
1D3E	---	L	LR2-P	....	....	....	....	MODIFIER LETTER CAPITAL P
1D3F	---	L	LR2-R	....	....	....	....	MODIFIER LETTER CAPITAL R
1D40	---	L	LR2-T	....	....	....	....	MODIFIER LETTER CAPITAL T
1D41	---	L	LR2-U	....	....	....	....	MODIFIER LETTER CAPITAL U
1D42	---	L	LR2-W	....	....	....	....	MODIFIER LETTER CAPITAL W
1D43	---	L	LR1-a	....	....	....	....	MODIFIER LETTER SMALL A
1D47	---	L	LR1-b	....	....	....	....	MODIFIER LETTER SMALL B
1D48	---	L	LR1-d	....	....	....	....	MODIFIER LETTER SMALL D
1D49	---	L	LR1-e	....	....	....	....	MODIFIER LETTER SMALL E
218 1D4A	---	L	LV1-e; i-e1	....	....	....	....	MODIFIER LETTER SMALL SCHWA Superscript schwa; Mid central vowel release
1D4D	---	L	LR1-g	....	....	....	....	MODIFIER LETTER SMALL G
1D4F	---	L	LR1-k	....	....	....	....	MODIFIER LETTER SMALL K
1D50	---	L	LR1-m	....	....	....	....	MODIFIER LETTER SMALL M
1D52	---	L	LR1-o	....	....	....	....	MODIFIER LETTER SMALL O
1D56	---	L	LR1-p	....	....	....	....	MODIFIER LETTER SMALL P
1D57	---	L	LR1-t	....	....	....	....	MODIFIER LETTER SMALL T
1D58	---	L	LR1-u	....	....	....	....	MODIFIER LETTER SMALL U
1D5B	---	L	LR1-v	....	....	....	....	MODIFIER LETTER SMALL V
1D7D	---	L	LZ1-p	....	....	....	....	LATIN SMALL LETTER P WITH STROKE
219 1D91	---		i-d2	....	....	....	....	LATIN SMALL LETTER D WITH HOOK AND TAIL Hooktop right-tail D; Voiced retroflex implosive
1D9C	---	L	LR1-c	....	....	....	....	MODIFIER LETTER SMALL C
1DA0	---	L	LR1-f	....	....	....	....	MODIFIER LETTER SMALL F
1DBB	---	L	LR1-z	....	....	....	....	MODIFIER LETTER SMALL Z
217 1DBF	----		i-t9	....	....	....	....	MODIFIER LETTER SMALL THETA Superscript theta; Voiceless dental fricative release
526 1DC4*	----		DI 1-b	....	....	....	....	COMBINING MACRON-ACUTE Macron plus acute accent; High rising contour
527 1DC5*	----		DI 1-n	....	....	....	....	COMBINING GRAVE-MACRON Grave accent plus macron; Low rising contour
528 1DC8*	----		DI 1-m	....	....	....	....	COMBINING GRAVE-ACUTE-GRAVE

Code	Category	Character	Unicode	Latin Name	Latin Description
1DCA	---L	DS2-K	.....	.....	Grave plus acute plus grave accent; Rising-falling contour
1DFD	---L	DD2-N	.....	.....	COMBINING LATIN SMALL LETTER R BELOW
1E00	---L	L2-A'	DW2-0	.....	COMBINING ALMOST EQUAL TO BELOW [Uni code 5.2]
1E01	---L	L1-a'	DW2-0	.....	LATIN CAPITAL LETTER A WITH RING BELOW
1E02	-2-L	L2-B'	DW1--	.....	LATIN SMALL LETTER A WITH RING BELOW
1E03	-2-L	L1-b'	DW1--	.....	LATIN CAPITAL LETTER B WITH DOT ABOVE
1E04	---L	L2-B'	DW2--	.....	LATIN SMALL LETTER B WITH DOT ABOVE
1E05	---L	L1-b'	DW2--	.....	LATIN CAPITAL LETTER B WITH DOT BELOW
1E06	---L	L2-B'	DW2--	.....	LATIN SMALL LETTER B WITH DOT BELOW
1E07	---L	L1-b'	DW2--	.....	LATIN CAPITAL LETTER B WITH LINE BELOW
1E08	---L	L2-C'	DW2-9'	DW1-1	LATIN SMALL LETTER B WITH LINE BELOW
1E09	---L	L1-c'	DW2-9'	DW1-1	LATIN CAPITAL LETTER C WITH CEDILLA AND ACUTE
1E0A	-2-L	L2-D'	DW1--	.....	LATIN SMALL LETTER C WITH CEDILLA AND ACUTE
1E0B	-2-L	L1-d'	DW1--	.....	LATIN CAPITAL LETTER D WITH DOT ABOVE
1E0C	---L	L2-D'	DW2--	.....	LATIN SMALL LETTER D WITH DOT ABOVE
1E0D	---L	L1-d'	DW2--	.....	LATIN CAPITAL LETTER D WITH DOT BELOW
1E0E	---L	L2-D'	DW2--	.....	LATIN SMALL LETTER D WITH DOT BELOW
1E0F	---L	L1-d'	DW2--	.....	LATIN CAPITAL LETTER D WITH LINE BELOW
1E10	---L	L2-D'	DW2-9	.....	LATIN SMALL LETTER D WITH LINE BELOW
1E11	---L	L1-d'	DW2-9	.....	LATIN CAPITAL LETTER D WITH CEDILLA
1E12	---L	L2-D'	DW2-8	.....	LATIN SMALL LETTER D WITH CEDILLA
1E13	---L	L1-d'	DW2-8	.....	LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW
1E14	---L	L2-E'	DW1--'	DW1-2	LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW
1E15	---L	L1-e'	DW1--'	DW1-2	LATIN CAPITAL LETTER E WITH MACRON AND GRAVE
1E16	---L	L2-E'	DW1--'	DW1-1	LATIN SMALL LETTER E WITH MACRON AND GRAVE
1E17	---L	L1-e'	DW1--'	DW1-1	LATIN CAPITAL LETTER E WITH MACRON AND ACUTE
1E18	---L	L2-E'	DW2-8	.....	LATIN SMALL LETTER E WITH MACRON AND ACUTE
1E19	---L	L1-e'	DW2-8	.....	LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW
1E1A	---L	L2-E'	DW2-4	.....	LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW
1E1B	---L	L1-e'	DW2-4	.....	LATIN CAPITAL LETTER E WITH TILDE BELOW
1E1C	---L	L2-E'	DW2-9'	DW1-6	LATIN SMALL LETTER E WITH TILDE BELOW
1E1D	---L	L1-e'	DW2-9'	DW1-6	LATIN CAPITAL LETTER E WITH CEDILLA AND BREVE
1E1E	-2-L	L2-F'	DW1--	.....	LATIN SMALL LETTER E WITH CEDILLA AND BREVE
1E1F	-2-L	L1-f'	DW1--	.....	LATIN CAPITAL LETTER F WITH DOT ABOVE
1E20	---L	L2-G'	DW1--	.....	LATIN SMALL LETTER F WITH DOT ABOVE
1E21	---L	L1-g'	DW1--	.....	LATIN CAPITAL LETTER G WITH MACRON
1E22	---L	L2-H'	DW1--	.....	LATIN SMALL LETTER G WITH MACRON
1E23	---L	L1-h'	DW1--	.....	LATIN CAPITAL LETTER H WITH DOT ABOVE
1E24	---L	L2-H'	DW2--	.....	LATIN SMALL LETTER H WITH DOT ABOVE
1E25	---L	L1-h'	DW2--	.....	LATIN CAPITAL LETTER H WITH DOT BELOW
1E26	---L	L2-H'	DW1-3	.....	LATIN SMALL LETTER H WITH DOT BELOW
1E27	---L	L1-h'	DW1-3	.....	LATIN CAPITAL LETTER H WITH DIAERESIS
1E28	---L	L2-H'	DW2-9	.....	LATIN SMALL LETTER H WITH DIAERESIS
1E29	---L	L1-h'	DW2-9	.....	LATIN CAPITAL LETTER H WITH CEDILLA
1E2A	---L	L2-H'	DW2-6	.....	LATIN SMALL LETTER H WITH CEDILLA
1E2B	---L	L1-h'	DW2-6	.....	LATIN CAPITAL LETTER H WITH BREVE BELOW
1E2C	---L	L2-I'	DW2-4	.....	LATIN SMALL LETTER H WITH BREVE BELOW
1E2D	---L	L1-i'	DW2-4	.....	LATIN CAPITAL LETTER I WITH TILDE BELOW
1E2E	---L	L2-I'	DW1-3'	DW1-1	LATIN SMALL LETTER I WITH TILDE BELOW
1E2F	---L	L1-i'	DW1-3'	DW1-1	LATIN CAPITAL LETTER I WITH DIAERESIS AND ACUTE
1E30	---L	L2-K'	DW1-1	.....	LATIN SMALL LETTER I WITH DIAERESIS AND ACUTE
1E31	---L	L1-k'	DW1-1	.....	LATIN CAPITAL LETTER K WITH ACUTE
1E32	---L	L2-K'	DW2--	.....	LATIN SMALL LETTER K WITH ACUTE
1E33	---L	L1-k'	DW2--	.....	LATIN CAPITAL LETTER K WITH DOT BELOW
1E34	---L	L2-K'	DW2--	.....	LATIN SMALL LETTER K WITH DOT BELOW
1E35	---L	L1-k'	DW2--	.....	LATIN CAPITAL LETTER K WITH LINE BELOW
1E36	---L	L2-L'	DW2--	.....	LATIN SMALL LETTER K WITH LINE BELOW
1E37	---L	L1-l'	DW2--	.....	LATIN CAPITAL LETTER L WITH DOT BELOW
1E38	---L	L2-L'	DW2--'	DW1--	LATIN SMALL LETTER L WITH DOT BELOW
1E39	---L	L1-l'	DW2--'	DW1--	LATIN CAPITAL LETTER L WITH DOT BELOW AND MACRON
1E3A	---L	L2-L'	DW2--	.....	LATIN SMALL LETTER L WITH DOT BELOW AND MACRON
1E3B	---L	L1-l'	DW2--	.....	LATIN CAPITAL LETTER L WITH LINE BELOW
1E3C	---L	L2-L'	DW2-8	.....	LATIN SMALL LETTER L WITH LINE BELOW
1E3D	---L	L1-l'	DW2-8	.....	LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW
1E3E	---L	L2-M'	DW1-1	.....	LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW
1E3F	---L	L1-m'	DW1-1	.....	LATIN CAPITAL LETTER M WITH ACUTE
1E40	-2-L	L2-M'	DW1--	.....	LATIN SMALL LETTER M WITH ACUTE
1E41	-2-L	L1-m'	DW1--	.....	LATIN CAPITAL LETTER M WITH DOT ABOVE
1E42	---L	L2-M'	DW2--	.....	LATIN SMALL LETTER M WITH DOT ABOVE
1E43	---L	L1-m'	DW2--	.....	LATIN CAPITAL LETTER M WITH DOT BELOW
1E44	---L	L2-N'	DW1--	.....	LATIN SMALL LETTER M WITH DOT BELOW
1E45	---L	L1-n'	DW1--	.....	LATIN CAPITAL LETTER N WITH DOT ABOVE
1E46	---L	L2-N'	DW2--	.....	LATIN SMALL LETTER N WITH DOT ABOVE
1E47	---L	L1-n'	DW2--	.....	LATIN CAPITAL LETTER N WITH DOT BELOW
1E48	---L	L2-N'	DW2--	.....	LATIN SMALL LETTER N WITH DOT BELOW
1E49	---L	L1-n'	DW2--	.....	LATIN CAPITAL LETTER N WITH LINE BELOW
1E4A	---L	L2-N'	DW2-8	.....	LATIN SMALL LETTER N WITH LINE BELOW
1E4B	---L	L1-n'	DW2-8	.....	LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW
1E4C	---L	L2-O'	DW1-4'	DW1-1	LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW
1E4D	---L	L1-o'	DW1-4'	DW1-1	LATIN CAPITAL LETTER O WITH TILDE AND ACUTE
1E4E	---L	L2-O'	DW1-4'	DW1-3	LATIN SMALL LETTER O WITH TILDE AND ACUTE
1E4F	---L	L1-o'	DW1-4'	DW1-3	LATIN CAPITAL LETTER O WITH TILDE AND DIAERESIS
1E50	---L	L2-O'	DW1--'	DW1-2	LATIN SMALL LETTER O WITH TILDE AND DIAERESIS
1E51	---L	L1-o'	DW1--'	DW1-2	LATIN CAPITAL LETTER O WITH MACRON AND GRAVE
1E52	---L	L2-O'	DW1--'	DW1-1	LATIN SMALL LETTER O WITH MACRON AND GRAVE
1E53	---L	L1-o'	DW1--'	DW1-1	LATIN CAPITAL LETTER O WITH MACRON AND ACUTE
1E54	---L	L2-P'	DW1-1	.....	LATIN SMALL LETTER O WITH MACRON AND ACUTE
1E55	---L	L1-p'	DW1-1	.....	LATIN CAPITAL LETTER P WITH ACUTE
1E56	-2-L	L2-P'	DW1--	.....	LATIN SMALL LETTER P WITH ACUTE
1E57	-2-L	L1-p'	DW1--	.....	LATIN CAPITAL LETTER P WITH DOT ABOVE
1E58	---L	L2-R'	DW1--	.....	LATIN SMALL LETTER P WITH DOT ABOVE
1E59	---L	L1-r'	DW1--	.....	LATIN CAPITAL LETTER R WITH DOT ABOVE
1E5A	---L	L2-R'	DW2--	.....	LATIN SMALL LETTER R WITH DOT ABOVE
1E5B	---L	L1-r'	DW2--	.....	LATIN CAPITAL LETTER R WITH DOT BELOW
1E5C	---L	L2-R'	DW2--'	DW1--	LATIN SMALL LETTER R WITH DOT BELOW
1E5D	---L	L1-r'	DW2--'	DW1--	LATIN CAPITAL LETTER R WITH DOT BELOW AND MACRON
1E5E	---L	L2-R'	DW2--	.....	LATIN SMALL LETTER R WITH DOT BELOW AND MACRON
1E5F	---L	L1-r'	DW2--	.....	LATIN CAPITAL LETTER R WITH LINE BELOW

1E60	-2-L	....	L2-S'	DW1-.	....	LATIN CAPITAL LETTER S WITH DOT ABOVE
1E61	-2-L	....	L1-s'	DW1-.	....	LATIN SMALL LETTER S WITH DOT ABOVE
1E62	---	....	L2-S'	DW2-.	....	LATIN CAPITAL LETTER S WITH DOT BELOW
1E63	---	....	L1-s'	DW2-.	....	LATIN SMALL LETTER S WITH DOT BELOW
1E64	---	....	L2-S'	DW1-1'	DW1-.	LATIN CAPITAL LETTER S WITH ACUTE AND DOT ABOVE
1E65	---	....	L1-s'	DW1-1'	DW1-.	LATIN SMALL LETTER S WITH ACUTE AND DOT ABOVE
1E66	---	....	L2-S'	DW1-7'	DW1-.	LATIN CAPITAL LETTER S WITH CARON AND DOT ABOVE
1E67	---	....	L1-s'	DW1-7'	DW1-.	LATIN SMALL LETTER S WITH CARON AND DOT ABOVE
1E68	---	....	L2-S'	DW2-.'	DW1-.	LATIN CAPITAL LETTER S WITH DOT BELOW AND DOT ABOVE
1E69	---	....	L1-s'	DW2-.'	DW1-.	LATIN SMALL LETTER S WITH DOT BELOW AND DOT ABOVE
1E6A	-2-L	....	L2-T'	DW1-.	....	LATIN CAPITAL LETTER T WITH DOT ABOVE
1E6B	-2-L	....	L1-t'	DW1-.	....	LATIN SMALL LETTER T WITH DOT ABOVE
1E6C	---	....	L2-T'	DW2-.	....	LATIN CAPITAL LETTER T WITH DOT BELOW
1E6D	---	....	L1-t'	DW2-.	....	LATIN SMALL LETTER T WITH DOT BELOW
1E6E	---	....	L2-T'	DW2-.	....	LATIN CAPITAL LETTER T WITH LINE BELOW
1E6F	---	....	L1-t'	DW2-.	....	LATIN SMALL LETTER T WITH LINE BELOW
1E70	---	....	L2-T'	DW2-8	....	LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW
1E71	---	....	L1-t'	DW2-8	....	LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW
1E72	---	....	L2-U'	DW2-3	....	LATIN CAPITAL LETTER U WITH DIAERESIS BELOW
1E73	---	....	L1-u'	DW2-3	....	LATIN SMALL LETTER U WITH DIAERESIS BELOW
1E74	---	....	L2-U'	DW2-4	....	LATIN CAPITAL LETTER U WITH TILDE BELOW
1E75	---	....	L1-u'	DW2-4	....	LATIN SMALL LETTER U WITH TILDE BELOW
1E76	---	....	L2-U'	DW2-8	....	LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW
1E77	---	....	L1-u'	DW2-8	....	LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW
1E78	---	....	L2-U'	DW1-4'	DW1-1	LATIN CAPITAL LETTER U WITH TILDE AND ACUTE
1E79	---	....	L1-u'	DW1-4'	DW1-1	LATIN SMALL LETTER U WITH TILDE AND ACUTE
1E7A	---	....	L2-U'	DW1-.'	DW1-3	LATIN CAPITAL LETTER U WITH MACRON AND DIAERESIS
1E7B	---	....	L1-u'	DW1-.'	DW1-3	LATIN SMALL LETTER U WITH MACRON AND DIAERESIS
1E7C	---	....	L2-V'	DW1-4	....	LATIN CAPITAL LETTER V WITH TILDE
1E7D	---	....	L1-v'	DW1-4	....	LATIN SMALL LETTER V WITH TILDE
1E7E	---	....	L2-V'	DW2-.	....	LATIN CAPITAL LETTER V WITH DOT BELOW
1E7F	---	....	L1-v'	DW2-.	....	LATIN SMALL LETTER V WITH DOT BELOW
1E80	-24L	....	L2-W'	DW1-2	....	LATIN CAPITAL LETTER W WITH GRAVE
1E81	-24L	....	L1-w'	DW1-2	....	LATIN SMALL LETTER W WITH GRAVE
1E82	-24L	....	L2-W'	DW1-1	....	LATIN CAPITAL LETTER W WITH ACUTE
1E83	-24L	....	L1-w'	DW1-1	....	LATIN SMALL LETTER W WITH ACUTE
1E84	-24L	....	L2-W'	DW1-3	....	LATIN CAPITAL LETTER W WITH DIAERESIS
1E85	-24L	....	L1-w'	DW1-3	....	LATIN SMALL LETTER W WITH DIAERESIS
1E86	---	....	L2-W'	DW1-.	....	LATIN CAPITAL LETTER W WITH DOT ABOVE
1E87	---	....	L1-w'	DW1-.	....	LATIN SMALL LETTER W WITH DOT ABOVE
1E88	---	....	L2-W'	DW2-.	....	LATIN CAPITAL LETTER W WITH DOT BELOW
1E89	---	....	L1-w'	DW2-.	....	LATIN SMALL LETTER W WITH DOT BELOW
1E8A	---	....	L2-X'	DW1-.	....	LATIN CAPITAL LETTER X WITH DOT ABOVE
1E8B	---	....	L1-x'	DW1-.	....	LATIN SMALL LETTER X WITH DOT ABOVE
1E8C	---	....	L2-X'	DW1-3	....	LATIN CAPITAL LETTER X WITH DIAERESIS
1E8D	---	....	L1-x'	DW1-3	....	LATIN SMALL LETTER X WITH DIAERESIS
1E8E	---	....	L2-Y'	DW1-.	....	LATIN CAPITAL LETTER Y WITH DOT ABOVE
1E8F	---	....	L1-y'	DW1-.	....	LATIN SMALL LETTER Y WITH DOT ABOVE
1E90	---	....	L2-Z'	DW1-8	....	LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
1E91	---	....	L1-z'	DW1-8	....	LATIN SMALL LETTER Z WITH CIRCUMFLEX
1E92	---	....	L2-Z'	DW2-.	....	LATIN CAPITAL LETTER Z WITH DOT BELOW
1E93	---	....	L1-z'	DW2-.	....	LATIN SMALL LETTER Z WITH DOT BELOW
1E94	---	....	L2-Z'	DW2-.	....	LATIN CAPITAL LETTER Z WITH LINE BELOW
1E95	---	....	L1-z'	DW2-.	....	LATIN SMALL LETTER Z WITH LINE BELOW
1E96	---	....	L1-h'	DW2-.	....	LATIN SMALL LETTER H WITH LINE BELOW
1E97	---	....	L1-t'	DW1-3	....	LATIN SMALL LETTER T WITH DIAERESIS
1E98	---	....	L1-w'	DW1-0	....	LATIN SMALL LETTER W WITH RING ABOVE
1E99	---	....	L1-y'	DW1-0	....	LATIN SMALL LETTER Y WITH RING ABOVE
1E9B	-2-L	....	LE1-S'	DW1-.	....	LATIN SMALL LETTER LONG S WITH DOT ABOVE
1E9E	---	LE2-Y	....	....	....	LATIN CAPITAL LETTER SHARP S
1EA0	---	....	L2-A'	DW2-.	....	LATIN CAPITAL LETTER A WITH DOT BELOW
1EA1	---	....	L1-a'	DW2-.	....	LATIN SMALL LETTER A WITH DOT BELOW
1EA2	---	....	L2-A'	DW1-9	....	LATIN CAPITAL LETTER A WITH HOOK ABOVE
1EA3	---	....	L1-a'	DW1-9	....	LATIN SMALL LETTER A WITH HOOK ABOVE
1EA4	---	....	L2-A'	DW1-8'	DW1-1	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND ACUTE
1EA5	---	....	L1-a'	DW1-8'	DW1-1	LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE
1EA6	---	....	L2-A'	DW1-8'	DW1-2	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND GRAVE
1EA7	---	....	L1-a'	DW1-8'	DW1-2	LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE
1EA8	---	....	L2-A'	DW1-8'	DW1-9	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE
1EA9	---	....	L1-a'	DW1-8'	DW1-9	LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE
1EAA	---	....	L2-A'	DW1-8'	DW1-4	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND TILDE
1EAB	---	....	L1-a'	DW1-8'	DW1-4	LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE
1EAC	---	....	L2-A'	DW2-.'	DW1-8	LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND DOT BELOW
1EAD	---	....	L1-a'	DW2-.'	DW1-8	LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT BELOW
1EAE	---	....	L2-A'	DW1-6'	DW1-1	LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
1EAF	---	....	L1-a'	DW1-6'	DW1-1	LATIN SMALL LETTER A WITH BREVE AND ACUTE
1EB0	---	....	L2-A'	DW1-6'	DW1-2	LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
1EB1	---	....	L1-a'	DW1-6'	DW1-2	LATIN SMALL LETTER A WITH BREVE AND GRAVE
1EB2	---	....	L2-A'	DW1-6'	DW1-9	LATIN CAPITAL LETTER A WITH BREVE AND HOOK ABOVE
1EB3	---	....	L1-a'	DW1-6'	DW1-9	LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE
1EB4	---	....	L2-A'	DW1-6'	DW1-4	LATIN CAPITAL LETTER A WITH BREVE AND TILDE
1EB5	---	....	L1-a'	DW1-6'	DW1-4	LATIN SMALL LETTER A WITH BREVE AND TILDE
1EB6	---	....	L2-A'	DW2-.'	DW1-6	LATIN CAPITAL LETTER A WITH BREVE AND DOT BELOW
1EB7	---	....	L1-a'	DW2-.'	DW1-6	LATIN SMALL LETTER A WITH BREVE AND DOT BELOW
1EB8	---	....	L2-E'	DW2-.	....	LATIN CAPITAL LETTER E WITH DOT BELOW
1EB9	---	....	L1-e'	DW2-.	....	LATIN SMALL LETTER E WITH DOT BELOW
1EBA	---	....	L2-E'	DW1-9	....	LATIN CAPITAL LETTER E WITH HOOK ABOVE
1EBB	---	....	L1-e'	DW1-9	....	LATIN SMALL LETTER E WITH HOOK ABOVE
1EBC	---	....	L2-E'	DW1-4	....	LATIN CAPITAL LETTER E WITH TILDE
1EBD	---	....	L1-e'	DW1-4	....	LATIN SMALL LETTER E WITH TILDE
1EBE	---	....	L2-E'	DW1-8'	DW1-1	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND ACUTE
1EBF	---	....	L1-e'	DW1-8'	DW1-1	LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE
1ECO	---	....	L2-E'	DW1-8'	DW1-2	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND GRAVE
1EC1	---	....	L1-e'	DW1-8'	DW1-2	LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE
1EC2	---	....	L2-E'	DW1-8'	DW1-9	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE
1EC3	---	....	L1-e'	DW1-8'	DW1-9	LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE
1EC4	---	....	L2-E'	DW1-8'	DW1-4	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND TILDE
1EC5	---	....	L1-e'	DW1-8'	DW1-4	LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE
1EC6	---	....	L2-E'	DW2-.'	DW1-8	LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT BELOW

1EC7	---	L	....	L1-e'	DW2-'	DW1-8	....	LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT BELOW
1EC8	---	L	....	L2-1'	DW1-9	....	....	LATIN CAPITAL LETTER I WITH HOOK ABOVE
1EC9	---	L	....	L1-1'	DW1-9	....	....	LATIN SMALL LETTER I WITH HOOK ABOVE
1ECA	---	L	....	L2-1'	DW2-'	....	....	LATIN CAPITAL LETTER I WITH DOT BELOW
1ECB	---	L	....	L1-i'	DW2-'	....	....	LATIN SMALL LETTER I WITH DOT BELOW
1ECC	---	L	....	L2-0'	DW2-'	....	....	LATIN CAPITAL LETTER O WITH DOT BELOW
1ECD	---	L	....	L1-0'	DW2-'	....	....	LATIN SMALL LETTER O WITH DOT BELOW
1ECE	---	L	....	L2-0'	DW1-9	....	....	LATIN CAPITAL LETTER O WITH HOOK ABOVE
1ECF	---	L	....	L1-0'	DW1-9	....	....	LATIN SMALL LETTER O WITH HOOK ABOVE
1EDO	---	L	....	L2-0'	DW1-8'	DW1-1	....	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND ACUTE
1ED1	---	L	....	L1-0'	DW1-8'	DW1-1	....	LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE
1ED2	---	L	....	L2-0'	DW1-8'	DW1-2	....	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND GRAVE
1ED3	---	L	....	L1-0'	DW1-8'	DW1-2	....	LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE
1ED4	---	L	....	L2-0'	DW1-8'	DW1-9	....	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE
1ED5	---	L	....	L1-0'	DW1-8'	DW1-9	....	LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE
1ED6	---	L	....	L2-0'	DW1-8'	DW1-4	....	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND TILDE
1ED7	---	L	....	L1-0'	DW1-8'	DW1-4	....	LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE
1ED8	---	L	....	L2-0'	DW2-'	DW1-8	....	LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND DOT BELOW
1ED9	---	L	....	L1-0'	DW2-'	DW1-8	....	LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW
1EDA	---	L	....	L2-0'	DW1-'	DW1-1	....	LATIN CAPITAL LETTER O WITH HORN AND ACUTE
1EDB	---	L	....	L1-0'	DW1-'	DW1-1	....	LATIN SMALL LETTER O WITH HORN AND ACUTE
1EDC	---	L	....	L2-0'	DW1-'	DW1-2	....	LATIN CAPITAL LETTER O WITH HORN AND GRAVE
1EDD	---	L	....	L1-0'	DW1-'	DW1-2	....	LATIN SMALL LETTER O WITH HORN AND GRAVE
1EDE	---	L	....	L2-0'	DW1-'	DW1-9	....	LATIN CAPITAL LETTER O WITH HORN AND HOOK ABOVE
1EDF	---	L	....	L1-0'	DW1-'	DW1-9	....	LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE
1EE0	---	L	....	L2-0'	DW1-'	DW1-4	....	LATIN CAPITAL LETTER O WITH HORN AND TILDE
1EE1	---	L	....	L1-0'	DW1-'	DW1-4	....	LATIN SMALL LETTER O WITH HORN AND TILDE
1EE2	---	L	....	L2-0'	DW1-'	DW2-'	....	LATIN CAPITAL LETTER O WITH HORN AND DOT BELOW
1EE3	---	L	....	L1-0'	DW1-'	DW2-'	....	LATIN SMALL LETTER O WITH HORN AND DOT BELOW
1EE4	---	L	....	L2-U'	DW2-'	....	....	LATIN CAPITAL LETTER U WITH DOT BELOW
1EE5	---	L	....	L1-u'	DW2-'	....	....	LATIN SMALL LETTER U WITH DOT BELOW
1EE6	---	L	....	L2-U'	DW1-9	....	....	LATIN CAPITAL LETTER U WITH HOOK ABOVE
1EE7	---	L	....	L1-u'	DW1-9	....	....	LATIN SMALL LETTER U WITH HOOK ABOVE
1EE8	---	L	....	L2-U'	DW1-'	DW1-1	....	LATIN CAPITAL LETTER U WITH HORN AND ACUTE
1EE9	---	L	....	L1-u'	DW1-'	DW1-1	....	LATIN SMALL LETTER U WITH HORN AND ACUTE
1EEA	---	L	....	L2-U'	DW1-'	DW1-2	....	LATIN CAPITAL LETTER U WITH HORN AND GRAVE
1EEB	---	L	....	L1-u'	DW1-'	DW1-2	....	LATIN SMALL LETTER U WITH HORN AND GRAVE
1EEC	---	L	....	L2-U'	DW1-'	DW1-9	....	LATIN CAPITAL LETTER U WITH HORN AND HOOK ABOVE
1EED	---	L	....	L1-u'	DW1-'	DW1-9	....	LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE
1EEE	---	L	....	L2-U'	DW1-'	DW1-4	....	LATIN CAPITAL LETTER U WITH HORN AND TILDE
1EEF	---	L	....	L1-u'	DW1-'	DW1-4	....	LATIN SMALL LETTER U WITH HORN AND TILDE
1EFO	---	L	....	L2-U'	DW1-'	DW2-'	....	LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW
1EF1	---	L	....	L1-u'	DW1-'	DW2-'	....	LATIN SMALL LETTER U WITH HORN AND DOT BELOW
1EF2	-24L		....	L2-Y'	DW1-2	....	....	LATIN CAPITAL LETTER Y WITH GRAVE
1EF3	-24L		....	L1-y'	DW1-2	....	....	LATIN SMALL LETTER Y WITH GRAVE
1EF4	---	L	....	L2-Y'	DW2-'	....	....	LATIN CAPITAL LETTER Y WITH DOT BELOW
1EF5	---	L	....	L1-y'	DW2-'	....	....	LATIN SMALL LETTER Y WITH DOT BELOW
1EF6	---	L	....	L2-Y'	DW1-9	....	....	LATIN CAPITAL LETTER Y WITH HOOK ABOVE
1EF7	---	L	....	L1-y'	DW1-9	....	....	LATIN SMALL LETTER Y WITH HOOK ABOVE
1EF8	---	L	....	L2-Y'	DW1-4	....	....	LATIN CAPITAL LETTER Y WITH TILDE
1EF9	---	L	....	L1-y'	DW1-4	....	....	LATIN SMALL LETTER Y WITH TILDE
1F00	-2-G		....	G1-a'	DD1-g	....	....	GREEK SMALL LETTER ALPHA WITH PSILI
1F01	-2-G		....	G1-a'	DD1-h	....	....	GREEK SMALL LETTER ALPHA WITH DASIA
1F02	-2-G		....	G1-a'	DD1-g'	DW1-2	....	GREEK SMALL LETTER ALPHA WITH PSILI AND VARIA
1F03	-2-G		....	G1-a'	DD1-h'	DW1-2	....	GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA
1F04	-2-G		....	G1-a'	DD1-g'	DW1-1	....	GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA
1F05	-2-G		....	G1-a'	DD1-h'	DW1-1	....	GREEK SMALL LETTER ALPHA WITH DASIA AND OXIA
1F06	-2-G		....	G1-a'	DD1-g'	DD1-m	....	GREEK SMALL LETTER ALPHA WITH PSILI AND PERISPOMENI
1F07	-2-G		....	G1-a'	DD1-h'	DD1-m	....	GREEK SMALL LETTER ALPHA WITH DASIA AND PERISPOMENI
1F08	-2-G		....	G2-A'	DD1-g	....	....	GREEK CAPITAL LETTER ALPHA WITH PSILI
1F09	-2-G		....	G2-A'	DD1-h	....	....	GREEK CAPITAL LETTER ALPHA WITH DASIA
1FOA	-2-G		....	G2-A'	DD1-g'	DW1-2	....	GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA
1FOB	-2-G		....	G2-A'	DD1-h'	DW1-2	....	GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA
1FOC	-2-G		....	G2-A'	DD1-g'	DW1-1	....	GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA
1FOD	-2-G		....	G2-A'	DD1-h'	DW1-1	....	GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA
1FOE	-2-G		....	G2-A'	DD1-g'	DD1-m	....	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERISPOMENI
1FOF	-2-G		....	G2-A'	DD1-h'	DD1-m	....	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERISPOMENI
1F10	-2-G		....	G1-e'	DD1-g	....	....	GREEK SMALL LETTER EPSILON WITH PSILI
1F11	-2-G		....	G1-e'	DD1-h	....	....	GREEK SMALL LETTER EPSILON WITH DASIA
1F12	-2-G		....	G1-e'	DD1-g'	DW1-2	....	GREEK SMALL LETTER EPSILON WITH PSILI AND VARIA
1F13	-2-G		....	G1-e'	DD1-h'	DW1-2	....	GREEK SMALL LETTER EPSILON WITH DASIA AND VARIA
1F14	-2-G		....	G1-e'	DD1-g'	DW1-1	....	GREEK SMALL LETTER EPSILON WITH PSILI AND OXIA
1F15	-2-G		....	G1-e'	DD1-h'	DW1-1	....	GREEK SMALL LETTER EPSILON WITH DASIA AND OXIA
1F18	-2-G		....	G2-E'	DD1-g	....	....	GREEK CAPITAL LETTER EPSILON WITH PSILI
1F19	-2-G		....	G2-E'	DD1-h	....	....	GREEK CAPITAL LETTER EPSILON WITH DASIA
1F1A	-2-G		....	G2-E'	DD1-g'	DW1-2	....	GREEK CAPITAL LETTER EPSILON WITH PSILI AND VARIA
1F1B	-2-G		....	G2-E'	DD1-h'	DW1-2	....	GREEK CAPITAL LETTER EPSILON WITH DASIA AND VARIA
1F1C	-2-G		....	G2-E'	DD1-g'	DW1-1	....	GREEK CAPITAL LETTER EPSILON WITH PSILI AND OXIA
1F1D	-2-G		....	G2-E'	DD1-h'	DW1-1	....	GREEK CAPITAL LETTER EPSILON WITH DASIA AND OXIA
1F20	-2-G		....	G1-h'	DD1-g	....	....	GREEK SMALL LETTER ETA WITH PSILI
1F21	-2-G		....	G1-h'	DD1-h	....	....	GREEK SMALL LETTER ETA WITH DASIA
1F22	-2-G		....	G1-h'	DD1-g'	DW1-2	....	GREEK SMALL LETTER ETA WITH PSILI AND VARIA
1F23	-2-G		....	G1-h'	DD1-h'	DW1-2	....	GREEK SMALL LETTER ETA WITH DASIA AND VARIA
1F24	-2-G		....	G1-h'	DD1-g'	DW1-1	....	GREEK SMALL LETTER ETA WITH PSILI AND OXIA
1F25	-2-G		....	G1-h'	DD1-h'	DW1-1	....	GREEK SMALL LETTER ETA WITH DASIA AND OXIA
1F26	-2-G		....	G1-h'	DD1-g'	DD1-m	....	GREEK SMALL LETTER ETA WITH PSILI AND PERISPOMENI
1F27	-2-G		....	G1-h'	DD1-h'	DD1-m	....	GREEK SMALL LETTER ETA WITH DASIA AND PERISPOMENI
1F28	-2-G		....	G2-H'	DD1-g	....	....	GREEK CAPITAL LETTER ETA WITH PSILI
1F29	-2-G		....	G2-H'	DD1-h	....	....	GREEK CAPITAL LETTER ETA WITH DASIA
1F2A	-2-G		....	G2-H'	DD1-g'	DW1-2	....	GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA
1F2B	-2-G		....	G2-H'	DD1-h'	DW1-2	....	GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA
1F2C	-2-G		....	G2-H'	DD1-g'	DW1-1	....	GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA
1F2D	-2-G		....	G2-H'	DD1-h'	DW1-1	....	GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA
1F2E	-2-G		....	G2-H'	DD1-g'	DD1-m	....	GREEK CAPITAL LETTER ETA WITH PSILI AND PERISPOMENI
1F2F	-2-G		....	G2-H'	DD1-h'	DD1-m	....	GREEK CAPITAL LETTER ETA WITH DASIA AND PERISPOMENI
1F30	-2-G		....	G1-i'	DD1-g	....	....	GREEK SMALL LETTER IOTA WITH PSILI
1F31	-2-G		....	G1-i'	DD1-h	....	....	GREEK SMALL LETTER IOTA WITH DASIA
1F32	-2-G		....	G1-i'	DD1-g'	DW1-2	....	GREEK SMALL LETTER IOTA WITH PSILI AND VARIA
1F33	-2-G		....	G1-i'	DD1-h'	DW1-2	....	GREEK SMALL LETTER IOTA WITH DASIA AND VARIA

1F34	-2-G	.....	G1-i'	DD1-g'	DW1-1	.....	GREEK SMALL LETTER IOTA WITH PSILI AND OXIA
1F35	-2-G	.....	G1-i'	DD1-h'	DW1-1	.....	GREEK SMALL LETTER IOTA WITH DASIA AND OXIA
1F36	-2-G	.....	G1-i'	DD1-g'	DD1-m	.....	GREEK SMALL LETTER IOTA WITH PSILI AND PERI SPOMENI
1F37	-2-G	.....	G1-i'	DD1-h'	DD1-m	.....	GREEK SMALL LETTER IOTA WITH DASIA AND PERI SPOMENI
1F38	-2-G	.....	G2-1'	DD1-g	.....	.....	GREEK CAPITAL LETTER IOTA WITH PSILI
1F39	-2-G	.....	G2-1'	DD1-h	.....	.....	GREEK CAPITAL LETTER IOTA WITH DASIA
1F3A	-2-G	.....	G2-1'	DD1-g'	DW1-2	.....	GREEK CAPITAL LETTER IOTA WITH PSILI AND VARIA
1F3B	-2-G	.....	G2-1'	DD1-h'	DW1-2	.....	GREEK CAPITAL LETTER IOTA WITH DASIA AND VARIA
1F3C	-2-G	.....	G2-1'	DD1-g'	DW1-1	.....	GREEK CAPITAL LETTER IOTA WITH PSILI AND OXIA
1F3D	-2-G	.....	G2-1'	DD1-h'	DW1-1	.....	GREEK CAPITAL LETTER IOTA WITH DASIA AND OXIA
1F3E	-2-G	.....	G2-1'	DD1-g'	DD1-m	.....	GREEK CAPITAL LETTER IOTA WITH PSILI AND PERI SPOMENI
1F3F	-2-G	.....	G2-1'	DD1-h'	DD1-m	.....	GREEK CAPITAL LETTER IOTA WITH DASIA AND PERI SPOMENI
1F40	-2-G	.....	G1-o'	DD1-g	.....	.....	GREEK SMALL LETTER OMICRON WITH PSILI
1F41	-2-G	.....	G1-o'	DD1-h	.....	.....	GREEK SMALL LETTER OMICRON WITH DASIA
1F42	-2-G	.....	G1-o'	DD1-g'	DW1-2	.....	GREEK SMALL LETTER OMICRON WITH PSILI AND VARIA
1F43	-2-G	.....	G1-o'	DD1-h'	DW1-2	.....	GREEK SMALL LETTER OMICRON WITH DASIA AND VARIA
1F44	-2-G	.....	G1-o'	DD1-g'	DW1-1	.....	GREEK SMALL LETTER OMICRON WITH PSILI AND OXIA
1F45	-2-G	.....	G1-o'	DD1-h'	DW1-1	.....	GREEK SMALL LETTER OMICRON WITH DASIA AND OXIA
1F48	-2-G	.....	G2-0'	DD1-g	.....	.....	GREEK CAPITAL LETTER OMICRON WITH PSILI
1F49	-2-G	.....	G2-0'	DD1-h	.....	.....	GREEK CAPITAL LETTER OMICRON WITH DASIA
1F4A	-2-G	.....	G2-0'	DD1-g'	DW1-2	.....	GREEK CAPITAL LETTER OMICRON WITH PSILI AND VARIA
1F4B	-2-G	.....	G2-0'	DD1-h'	DW1-2	.....	GREEK CAPITAL LETTER OMICRON WITH DASIA AND VARIA
1F4C	-2-G	.....	G2-0'	DD1-g'	DW1-1	.....	GREEK CAPITAL LETTER OMICRON WITH PSILI AND OXIA
1F4D	-2-G	.....	G2-0'	DD1-h'	DW1-1	.....	GREEK CAPITAL LETTER OMICRON WITH DASIA AND OXIA
1F50	-2-G	.....	G1-y'	DD1-g	.....	.....	GREEK SMALL LETTER UPSILON WITH PSILI
1F51	-2-G	.....	G1-y'	DD1-h	.....	.....	GREEK SMALL LETTER UPSILON WITH DASIA
1F52	-2-G	.....	G1-y'	DD1-g'	DW1-2	.....	GREEK SMALL LETTER UPSILON WITH PSILI AND VARIA
1F53	-2-G	.....	G1-y'	DD1-h'	DW1-2	.....	GREEK SMALL LETTER UPSILON WITH DASIA AND VARIA
1F54	-2-G	.....	G1-y'	DD1-g'	DW1-1	.....	GREEK SMALL LETTER UPSILON WITH PSILI AND OXIA
1F55	-2-G	.....	G1-y'	DD1-h'	DW1-1	.....	GREEK SMALL LETTER UPSILON WITH DASIA AND OXIA
1F56	-2-G	.....	G1-y'	DD1-g'	DD1-m	.....	GREEK SMALL LETTER UPSILON WITH PSILI AND PERI SPOMENI
1F57	-2-G	.....	G1-y'	DD1-h'	DD1-m	.....	GREEK SMALL LETTER UPSILON WITH DASIA AND PERI SPOMENI
1F59	-2-G	.....	G2-Y'	DD1-h	.....	.....	GREEK CAPITAL LETTER UPSILON WITH DASIA
1F5B	-2-G	.....	G2-Y'	DD1-h'	DW1-2	.....	GREEK CAPITAL LETTER UPSILON WITH DASIA AND VARIA
1F5D	-2-G	.....	G2-Y'	DD1-h'	DW1-1	.....	GREEK CAPITAL LETTER UPSILON WITH DASIA AND OXIA
1F5F	-2-G	.....	G2-Y'	DD1-h'	DD1-m	.....	GREEK CAPITAL LETTER UPSILON WITH DASIA AND PERI SPOMENI
1F60	-2-G	.....	G1-v'	DD1-g	.....	.....	GREEK SMALL LETTER OMEGA WITH PSILI
1F61	-2-G	.....	G1-v'	DD1-h	.....	.....	GREEK SMALL LETTER OMEGA WITH DASIA
1F62	-2-G	.....	G1-v'	DD1-g'	DW1-2	.....	GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA
1F63	-2-G	.....	G1-v'	DD1-h'	DW1-2	.....	GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA
1F64	-2-G	.....	G1-v'	DD1-g'	DW1-1	.....	GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA
1F65	-2-G	.....	G1-v'	DD1-h'	DW1-1	.....	GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA
1F66	-2-G	.....	G1-v'	DD1-g'	DD1-m	.....	GREEK SMALL LETTER OMEGA WITH PSILI AND PERI SPOMENI
1F67	-2-G	.....	G1-v'	DD1-h'	DD1-m	.....	GREEK SMALL LETTER OMEGA WITH DASIA AND PERI SPOMENI
1F68	-2-G	.....	G2-V'	DD1-g	.....	.....	GREEK CAPITAL LETTER OMEGA WITH PSILI
1F69	-2-G	.....	G2-V'	DD1-h	.....	.....	GREEK CAPITAL LETTER OMEGA WITH DASIA
1F6A	-2-G	.....	G2-V'	DD1-g'	DW1-2	.....	GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA
1F6B	-2-G	.....	G2-V'	DD1-h'	DW1-2	.....	GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA
1F6C	-2-G	.....	G2-V'	DD1-g'	DW1-1	.....	GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA
1F6D	-2-G	.....	G2-V'	DD1-h'	DW1-1	.....	GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA
1F6E	-2-G	.....	G2-V'	DD1-g'	DD1-m	.....	GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERI SPOMENI
1F6F	-2-G	.....	G2-V'	DD1-h'	DD1-m	.....	GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERI SPOMENI
1F70	-2-G	.....	G1-a'	DW1-2	.....	.....	GREEK SMALL LETTER ALPHA WITH VARIA
1F71	-2-G	.....	G1-a'	DW1-1	.....	.....	GREEK SMALL LETTER ALPHA WITH OXIA
1F72	-2-G	.....	G1-e'	DW1-2	.....	.....	GREEK SMALL LETTER EPSILON WITH VARIA
1F73	-2-G	.....	G1-e'	DW1-1	.....	.....	GREEK SMALL LETTER EPSILON WITH OXIA
1F74	-2-G	.....	G1-h'	DW1-2	.....	.....	GREEK SMALL LETTER ETA WITH VARIA
1F75	-2-G	.....	G1-h'	DW1-1	.....	.....	GREEK SMALL LETTER ETA WITH OXIA
1F76	-2-G	.....	G1-i'	DW1-2	.....	.....	GREEK SMALL LETTER IOTA WITH VARIA
1F77	-2-G	.....	G1-i'	DW1-1	.....	.....	GREEK SMALL LETTER IOTA WITH OXIA
1F78	-2-G	.....	G1-o'	DW1-2	.....	.....	GREEK SMALL LETTER OMICRON WITH VARIA
1F79	-2-G	.....	G1-o'	DW1-1	.....	.....	GREEK SMALL LETTER OMICRON WITH OXIA
1F7A	-2-G	.....	G1-y'	DW1-2	.....	.....	GREEK SMALL LETTER UPSILON WITH VARIA
1F7B	-2-G	.....	G1-y'	DW1-1	.....	.....	GREEK SMALL LETTER UPSILON WITH OXIA
1F7C	-2-G	.....	G1-v'	DW1-2	.....	.....	GREEK SMALL LETTER OMEGA WITH VARIA
1F7D	-2-G	.....	G1-v'	DW1-1	.....	.....	GREEK SMALL LETTER OMEGA WITH OXIA
1F80	-2-G	.....	G1-a'	DD1-g'	DD2-M	.....	GREEK SMALL LETTER ALPHA WITH PSILI AND YPOGEGRAMMENI
1F81	-2-G	.....	G1-a'	DD1-h'	DD2-M	.....	GREEK SMALL LETTER ALPHA WITH DASIA AND YPOGEGRAMMENI
1F82	-2-G	.....	G1-a'	DD1-g'	DW1-2'	DD2-M	GREEK SMALL LETTER ALPHA WITH PSILI AND VARIA AND YPOGEGRAMMENI
1F83	-2-G	.....	G1-a'	DD1-h'	DW1-2'	DD2-M	GREEK SMALL LETTER ALPHA WITH DASIA AND VARIA AND YPOGEGRAMMENI
1F84	-2-G	.....	G1-a'	DD1-g'	DW1-1'	DD2-M	GREEK SMALL LETTER ALPHA WITH PSILI AND OXIA AND YPOGEGRAMMENI
1F85	-2-G	.....	G1-a'	DD1-h'	DW1-1'	DD2-M	GREEK SMALL LETTER ALPHA WITH DASIA AND OXIA AND YPOGEGRAMMENI
1F86	-2-G	.....	G1-a'	DD1-g'	DD1-m'	DD2-M	GREEK SMALL LETTER ALPHA WITH PSILI AND PERI SPOMENI AND YPOGEGRAMMENI
1F87	-2-G	.....	G1-a'	DD1-h'	DD1-m'	DD2-M	GREEK SMALL LETTER ALPHA WITH DASIA AND PERI SPOMENI AND YPOGEGRAMMENI
1F88	-2-G	.....	G2-A'	DD1-g'	DD2-M	.....	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PROSGEGRAMMENI
1F89	-2-G	.....	G2-A'	DD1-h'	DD2-M	.....	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PROSGEGRAMMENI
1F8A	-2-G	.....	G2-A'	DD1-g'	DW1-2'	DD2-M	GREEK CAPITAL LETTER ALPHA WITH PSILI AND VARIA AND PROSGEGRAMMENI
1F8B	-2-G	.....	G2-A'	DD1-h'	DW1-2'	DD2-M	GREEK CAPITAL LETTER ALPHA WITH DASIA AND VARIA AND PROSGEGRAMMENI
1F8C	-2-G	.....	G2-A'	DD1-g'	DW1-1'	DD2-M	GREEK CAPITAL LETTER ALPHA WITH PSILI AND OXIA AND PROSGEGRAMMENI
1F8D	-2-G	.....	G2-A'	DD1-h'	DW1-1'	DD2-M	GREEK CAPITAL LETTER ALPHA WITH DASIA AND OXIA AND PROSGEGRAMMENI
1F8E	-2-G	.....	G2-A'	DD1-g'	DD1-m'	DD2-M	GREEK CAPITAL LETTER ALPHA WITH PSILI AND PERI SPOMENI AND PROSGEGRAMMENI
1F8F	-2-G	.....	G2-A'	DD1-h'	DD1-m'	DD2-M	GREEK CAPITAL LETTER ALPHA WITH DASIA AND PERI SPOMENI AND PROSGEGRAMMENI
1F90	-2-G	.....	G1-h'	DD1-g'	DD2-M	.....	GREEK SMALL LETTER ETA WITH PSILI AND YPOGEGRAMMENI
1F91	-2-G	.....	G1-h'	DD1-h'	DD2-M	.....	GREEK SMALL LETTER ETA WITH DASIA AND YPOGEGRAMMENI
1F92	-2-G	.....	G1-h'	DD1-g'	DW1-2'	DD2-M	GREEK SMALL LETTER ETA WITH PSILI AND VARIA AND YPOGEGRAMMENI
1F93	-2-G	.....	G1-h'	DD1-h'	DW1-2'	DD2-M	GREEK SMALL LETTER ETA WITH DASIA AND VARIA AND YPOGEGRAMMENI
1F94	-2-G	.....	G1-h'	DD1-g'	DW1-1'	DD2-M	GREEK SMALL LETTER ETA WITH PSILI AND OXIA AND YPOGEGRAMMENI
1F95	-2-G	.....	G1-h'	DD1-h'	DW1-1'	DD2-M	GREEK SMALL LETTER ETA WITH DASIA AND OXIA AND YPOGEGRAMMENI
1F96	-2-G	.....	G1-h'	DD1-g'	DD1-m'	DD2-M	GREEK SMALL LETTER ETA WITH PSILI AND PERI SPOMENI AND YPOGEGRAMMENI
1F97	-2-G	.....	G1-h'	DD1-h'	DD1-m'	DD2-M	GREEK SMALL LETTER ETA WITH DASIA AND PERI SPOMENI AND YPOGEGRAMMENI
1F98	-2-G	.....	G2-H'	DD1-g'	DD2-M	.....	GREEK CAPITAL LETTER ETA WITH PSILI AND PROSGEGRAMMENI
1F99	-2-G	.....	G2-H'	DD1-h'	DD2-M	.....	GREEK CAPITAL LETTER ETA WITH DASIA AND PROSGEGRAMMENI
1F9A	-2-G	.....	G2-H'	DD1-g'	DW1-2'	DD2-M	GREEK CAPITAL LETTER ETA WITH PSILI AND VARIA AND PROSGEGRAMMENI
1F9B	-2-G	.....	G2-H'	DD1-h'	DW1-2'	DD2-M	GREEK CAPITAL LETTER ETA WITH DASIA AND VARIA AND PROSGEGRAMMENI
1F9C	-2-G	.....	G2-H'	DD1-g'	DW1-1'	DD2-M	GREEK CAPITAL LETTER ETA WITH PSILI AND OXIA AND PROSGEGRAMMENI
1F9D	-2-G	.....	G2-H'	DD1-h'	DW1-1'	DD2-M	GREEK CAPITAL LETTER ETA WITH DASIA AND OXIA AND PROSGEGRAMMENI
1F9E	-2-G	.....	G2-H'	DD1-g'	DD1-m'	DD2-M	GREEK CAPITAL LETTER ETA WITH PSILI AND PERI SPOMENI AND PROSGEGRAMMENI
1F9F	-2-G	.....	G2-H'	DD1-h'	DD1-m'	DD2-M	GREEK CAPITAL LETTER ETA WITH DASIA AND PERI SPOMENI AND PROSGEGRAMMENI
1FA0	-2-G	.....	G1-v'	DD1-g'	DD2-M	.....	GREEK SMALL LETTER OMEGA WITH PSILI AND YPOGEGRAMMENI



1FA1	-2-G	....	G1-v'	DD1-h'	DD2-M	....	GREEK SMALL LETTER OMEGA WITH DASIA AND YPOGEGRAMMENI
1FA2	-2-G	....	G1-v'	DD1-g'	DW1-2'	DD2-M	GREEK SMALL LETTER OMEGA WITH PSILI AND VARIA AND YPOGEGRAMMENI
1FA3	-2-G	....	G1-v'	DD1-h'	DW1-2'	DD2-M	GREEK SMALL LETTER OMEGA WITH DASIA AND VARIA AND YPOGEGRAMMENI
1FA4	-2-G	....	G1-v'	DD1-g'	DW1-1'	DD2-M	GREEK SMALL LETTER OMEGA WITH PSILI AND OXIA AND YPOGEGRAMMENI
1FA5	-2-G	....	G1-v'	DD1-h'	DW1-1'	DD2-M	GREEK SMALL LETTER OMEGA WITH DASIA AND OXIA AND YPOGEGRAMMENI
1FA6	-2-G	....	G1-v'	DD1-g'	DD1-m'	DD2-M	GREEK SMALL LETTER OMEGA WITH PSILI AND PERISPOMENI AND YPOGEGRAMMENI
1FA7	-2-G	....	G1-v'	DD1-h'	DD1-m'	DD2-M	GREEK SMALL LETTER OMEGA WITH DASIA AND PERISPOMENI AND YPOGEGRAMMENI
1FA8	-2-G	....	G2-V'	DD1-g'	DD2-M	....	GREEK CAPITAL LETTER OMEGA WITH PSILI AND PROSGEGRAMMENI
1FA9	-2-G	....	G2-V'	DD1-h'	DD2-M	....	GREEK CAPITAL LETTER OMEGA WITH DASIA AND PROSGEGRAMMENI
1FAA	-2-G	....	G2-V'	DD1-g'	DW1-2'	DD2-M	GREEK CAPITAL LETTER OMEGA WITH PSILI AND VARIA AND PROSGEGRAMMENI
1FAB	-2-G	....	G2-V'	DD1-h'	DW1-2'	DD2-M	GREEK CAPITAL LETTER OMEGA WITH DASIA AND VARIA AND PROSGEGRAMMENI
1FAC	-2-G	....	G2-V'	DD1-g'	DW1-1'	DD2-M	GREEK CAPITAL LETTER OMEGA WITH PSILI AND OXIA AND PROSGEGRAMMENI
1FAD	-2-G	....	G2-V'	DD1-h'	DW1-1'	DD2-M	GREEK CAPITAL LETTER OMEGA WITH DASIA AND OXIA AND PROSGEGRAMMENI
1FAE	-2-G	....	G2-V'	DD1-g'	DD1-m'	DD2-M	GREEK CAPITAL LETTER OMEGA WITH PSILI AND PERISPOMENI AND PROSGEGRAMMENI
1FAF	-2-G	....	G2-V'	DD1-h'	DD1-m'	DD2-M	GREEK CAPITAL LETTER OMEGA WITH DASIA AND PERISPOMENI AND PROSGEGRAMMENI
1FBO	-2-G	....	G1-a'	DW1-6	....	....	GREEK SMALL LETTER ALPHA WITH VRACHY
1FB1	-2-G	....	G1-a'	DW1--	....	....	GREEK SMALL LETTER ALPHA WITH MACRON
1FB2	-2-G	....	G1-a'	DW1-2'	DD2-M	....	GREEK SMALL LETTER ALPHA WITH VARIA AND YPOGEGRAMMENI
1FB3	-2-G	....	G1-a'	DD2-M	....	....	GREEK SMALL LETTER ALPHA WITH YPOGEGRAMMENI
1FB4	-2-G	....	G1-a'	DW1-1'	DD2-M	....	GREEK SMALL LETTER ALPHA WITH OXIA AND YPOGEGRAMMENI
1FB6	-2-G	....	G1-a'	DD1-m	....	....	GREEK SMALL LETTER ALPHA WITH PERISPOMENI
1FB7	-2-G	....	G1-a'	DD1-m'	DD2-M	....	GREEK SMALL LETTER ALPHA WITH PERISPOMENI AND YPOGEGRAMMENI
1FB8	-2-G	....	G2-A'	DW1-6	....	....	GREEK CAPITAL LETTER ALPHA WITH VRACHY
1FB9	-2-G	....	G2-A'	DW1--	....	....	GREEK CAPITAL LETTER ALPHA WITH MACRON
1FBA	-2-G	....	G2-A'	DW1-2	....	....	GREEK CAPITAL LETTER ALPHA WITH VARIA
1FBB	-2-G	....	G2-A'	DW1-1	....	....	GREEK CAPITAL LETTER ALPHA WITH OXIA
1FBC	-2-G	....	G2-A'	DD2-M	....	....	GREEK CAPITAL LETTER ALPHA WITH PROSGEGRAMMENI
1FBD	-2-G	GE1-l	....	....	....	....	GREEK KORONIS
1FBey	-2-G	YY1-j;	G1-i	....	....	....	GREEK PROSGEGRAMMENI
1FBF	-2-G	GE2-L	....	....	....	....	GREEK PSILI
1FC0	-2-G	DS1-m	....	....	....	....	GREEK PERISPOMENI
1FC1	-2-G	....	DS1-e'	DD1-m	....	....	GREEK DIALYTIKA AND PERISPOMENI
1FC2	-2-G	....	G1-h'	DW1-2'	DD2-M	....	GREEK SMALL LETTER ETA WITH VARIA AND YPOGEGRAMMENI
1FC3	-2-G	....	G1-h'	DD2-M	....	....	GREEK SMALL LETTER ETA WITH YPOGEGRAMMENI
1FC4	-2-G	....	G1-h'	DW1-1'	DD2-M	....	GREEK SMALL LETTER ETA WITH OXIA AND YPOGEGRAMMENI
1FC6	-2-G	....	G1-h'	DD1-m	....	....	GREEK SMALL LETTER ETA WITH PERISPOMENI
1FC7	-2-G	....	G1-h'	DD1-m'	DD2-M	....	GREEK SMALL LETTER ETA WITH PERISPOMENI AND YPOGEGRAMMENI
1FC8	-2-G	....	G2-E'	DW1-2	....	....	GREEK CAPITAL LETTER EPSILON WITH VARIA
1FC9	-2-G	....	G2-E'	DW1-1	....	....	GREEK CAPITAL LETTER EPSILON WITH OXIA
1FCA	-2-G	....	G2-H'	DW1-2	....	....	GREEK CAPITAL LETTER ETA WITH VARIA
1FCB	-2-G	....	G2-H'	DW1-1	....	....	GREEK CAPITAL LETTER ETA WITH OXIA
1FCC	-2-G	....	G2-H'	DD2-M	....	....	GREEK CAPITAL LETTER ETA WITH PROSGEGRAMMENI
1FCD	-2-G	....	GE2-L'	DW1-2	....	....	GREEK PSILI AND VARIA
1FCE	-2-G	....	GE2-L'	DW1-1	....	....	GREEK PSILI AND OXIA
1FCF	-2-G	....	GE2-L'	DD1-m	....	....	GREEK PSILI AND PERISPOMENI
1FDO	-2-G	....	G1-i'	DW1-6	....	....	GREEK SMALL LETTER IOTA WITH VRACHY
1FD1	-2-G	....	G1-i'	DW1--	....	....	GREEK SMALL LETTER IOTA WITH MACRON
1FD2	-2-G	....	G1-i'	DW1-3'	DW1-2	....	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND VARIA
1FD3	-2-G	....	G1-i'	DW1-3'	DW1-1	....	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND OXIA
1FD6	-2-G	....	G1-i'	DD1-m	....	....	GREEK SMALL LETTER IOTA WITH PERISPOMENI
1FD7	-2-G	....	G1-i'	DW1-3'	DD1-m	....	GREEK SMALL LETTER IOTA WITH DIALYTIKA AND PERISPOMENI
1FD8	-2-G	....	G2-I'	DW1-6	....	....	GREEK CAPITAL LETTER IOTA WITH VRACHY
1FD9	-2-G	....	G2-I'	DW1--	....	....	GREEK CAPITAL LETTER IOTA WITH MACRON
1FDA	-2-G	....	G2-I'	DW1-2	....	....	GREEK CAPITAL LETTER IOTA WITH VARIA
1FDB	-2-G	....	G2-I'	DW1-1	....	....	GREEK CAPITAL LETTER IOTA WITH OXIA
1FDD	-2-G	....	GE2-K'	DW1-2	....	....	GREEK DASIA AND VARIA
1FDE	-2-G	....	GE2-K'	DW1-1	....	....	GREEK DASIA AND OXIA
1FDF	-2-G	....	GE2-K'	DD1-m	....	....	GREEK DASIA AND PERISPOMENI
1FEO	-2-G	....	G1-y'	DW1-6	....	....	GREEK SMALL LETTER UPSILON WITH VRACHY
1FE1	-2-G	....	G1-y'	DW1--	....	....	GREEK SMALL LETTER UPSILON WITH MACRON
1FE2	-2-G	....	G1-y'	DW1-3'	DW1-2	....	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND VARIA
1FE3	-2-G	....	G1-y'	DW1-3'	DW1-1	....	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND OXIA
1FE4	-2-G	....	G1-r'	DD1-g	....	....	GREEK SMALL LETTER RHO WITH PSILI
1FE5	-2-G	....	G1-r'	DD1-h	....	....	GREEK SMALL LETTER RHO WITH DASIA
1FE6	-2-G	....	G1-y'	DD1-m	....	....	GREEK SMALL LETTER UPSILON WITH PERISPOMENI
1FE7	-2-G	....	G1-y'	DW1-3'	DD1-m	....	GREEK SMALL LETTER UPSILON WITH DIALYTIKA AND PERISPOMENI
1FE8	-2-G	....	G2-Y'	DW1-6	....	....	GREEK CAPITAL LETTER UPSILON WITH VRACHY
1FE9	-2-G	....	G2-Y'	DW1--	....	....	GREEK CAPITAL LETTER UPSILON WITH MACRON
1FEA	-2-G	....	G2-Y'	DW1-2	....	....	GREEK CAPITAL LETTER UPSILON WITH VARIA
1FEB	-2-G	....	G2-Y'	DW1-1	....	....	GREEK CAPITAL LETTER UPSILON WITH OXIA
1FEC	-2-G	....	G2-R'	DD1-h	....	....	GREEK CAPITAL LETTER RHO WITH DASIA
1FED	-2-G	....	DS1-e'	DW1-2	....	....	GREEK DIALYTIKA AND VARIA
1FEE	-2-G	....	DS1-e'	DW1-1	....	....	GREEK DIALYTIKA AND OXIA
1FEFy	-2-G	YY1-x;	YU2-0	....	....	....	GREEK VARIA
1FF2	-2-G	....	G1-v'	DW1-2'	DD2-M	....	GREEK SMALL LETTER OMEGA WITH VARIA AND YPOGEGRAMMENI
1FF3	-2-G	....	G1-v'	DD2-M	....	....	GREEK SMALL LETTER OMEGA WITH YPOGEGRAMMENI
1FF4	-2-G	....	G1-v'	DW1-1'	DD2-M	....	GREEK SMALL LETTER OMEGA WITH OXIA AND YPOGEGRAMMENI
1FF6	-2-G	....	G1-v'	DD1-m	....	....	GREEK SMALL LETTER OMEGA WITH PERISPOMENI
1FF7	-2-G	....	G1-v'	DD1-m'	DD2-M	....	GREEK SMALL LETTER OMEGA WITH PERISPOMENI AND YPOGEGRAMMENI
1FF8	-2-G	....	G2-O'	DW1-2	....	....	GREEK CAPITAL LETTER OMI CRON WITH VARIA
1FF9	-2-G	....	G2-O'	DW1-1	....	....	GREEK CAPITAL LETTER OMI CRON WITH OXIA
1FFA	-2-G	....	G2-V'	DW1-2	....	....	GREEK CAPITAL LETTER OMEGA WITH VARIA
1FFB	-2-G	....	G2-V'	DW1-1	....	....	GREEK CAPITAL LETTER OMEGA WITH OXIA
1FFC	-2-G	....	G2-V'	DD2-M	....	....	GREEK CAPITAL LETTER OMEGA WITH PROSGEGRAMMENI
1FFDy	-2-G	YY1-c;	DM1-1	....	....	....	GREEK OXIA
1FFE	-2-G	GE2-K	....	....	....	....	GREEK DASIA
2007	---	YMI-#	....	....	....	....	FIGURE SPACE
200C	---H	HE2-L;	YP1-	....	....	....	ZERO WIDTH NON-JOINER
200D	---H	HE2-X;	YP2-	....	....	....	ZERO WIDTH JOINER
2010	---	YS1-v	....	....	....	....	HYPHEN
2011	---	YP1--	....	....	....	....	NON-BREAKING HYPHEN
2013	-24-	YS1-w	....	....	....	....	EN DASH
2014	-24-	YS1-e	....	....	....	....	EM DASH
2015	124-	YS2-Y	....	....	....	....	HORIZONTAL BAR
508 2016	----	DJ1-m;	YMI-k;	i~v9	....	....	DOUBLE VERTICAL LINE Double vertical line (thick); Major (intonation) group
2017y	-24-	YY2-Y	....	....	....	....	DOUBLE LOW LINE
2018	124-	YP2-7	....	....	....	....	LEFT SINGLE QUOTATION MARK
2019	124-	YP2-8	....	....	....	....	RIGHT SINGLE QUOTATION MARK

201A	-24-	YP2-6	....	....	....	SINGLE LOW-9 QUOTATION MARK
201By	-24-	YY1-m	....	....	....	SINGLE HIGH-REVERSED-9 QUOTATION MARK
201C	124-	YP1-7	....	....	....	LEFT DOUBLE QUOTATION MARK
201D	124-	YP1-8	....	....	....	RIGHT DOUBLE QUOTATION MARK
201E	-24-	YP1-6	....	....	....	DOUBLE LOW-9 QUOTATION MARK
201Fy	----	YY2-M	....	....	....	DOUBLE HIGH-REVERSED-9 QUOTATION MARK
2020	-24-	YS1-d	....	....	....	DAGGER
2021	-24-	YS2-D	....	....	....	DOUBLE DAGGER
2022	-24-	YM2-T	....	....	....	BULLET
2024	---W	WE1-a	....	....	....	ONE DOT LEADER
2026	-24-	YP2-3	....	....	....	HORIZONTAL ELLIPSIS
2027	----	YS2-V	....	....	....	HYPHENATION POINT
202F	----	YS2-#	....	....	....	NARROW NO-BREAK SPACE
2030	-24-	YS2-I	....	....	....	PER MILLE SIGN
2032	-24-	YP2-5	....	....	....	PRIME
2033	-24-	YP1-5	....	....	....	DOUBLE PRIME
2034y	----	YY1-t	....	....	....	TRIPLE PRIME
2035	----	YP2-4	....	....	....	REVERSED PRIME
2036	----	YP1-4	....	....	....	REVERSED DOUBLE PRIME
2039	-24-	YP2-9	....	....	....	SINGLE LEFT-POINTING ANGLE QUOTATION MARK
203A	-24-	YP2-0	....	....	....	SINGLE RIGHT-POINTING ANGLE QUOTATION MARK
203B	----	YS2-H	....	....	....	REFERENCE MARK
203Cy	-24-	YY2-T	....	....	....	DOUBLE EXCLAMATION MARK
203Dy	----	YY1-q	....	....	....	INTERROBANG
203Ey	-24-	YY1-y	....	....	....	OVERLINE
509 203F	----	DS2-Z; DJ2-Z;	i-j	9	....	UNDERTIE
						Bottom tie bar; Linking (absence of a break)
2040	----	DS1-z	....	....	....	CHARACTER TIE
2044	-24-	YS2-Z	....	....	....	FRACTION SLASH
204A	-2--	YS2-M	....	....	....	TIRONIAN SIGN ET
2052	----	YM1-m	....	....	....	COMMERCIAL MINUS SIGN
2053	----	DS1-l	....	....	....	SWUNG DASH
2056	---c	CX1-r	....	....	....	THREE DOT PUNCTUATION
2058	---c	CX2-T	....	....	....	FOUR DOT PUNCTUATION
2059	---c	CX1-t; GE2-E	....	....	....	FIVE DOT PUNCTUATION
205Ey	----	YY2-K	....	....	....	VERTICAL FOUR DOTS
2070	----	YT1-0	....	....	....	SUPERSCRIP T ZERO
2071	----L	LR1-i	....	....	....	SUPERSCRI PT LATIN SMALL LETTER I
2074	----	YT1-4	....	....	....	SUPERSCRI PT FOUR
2075	----	YT1-5	....	....	....	SUPERSCRI PT FIVE
2076	----	YT1-6	....	....	....	SUPERSCRI PT SIX
2077	----	YT1-7	....	....	....	SUPERSCRI PT SEVEN
2078	----	YT1-8	....	....	....	SUPERSCRI PT EI GHT
2079	----	YT1-9	....	....	....	SUPERSCRI PT NI NE
425 207F	-24L	LR1-n; i~n1	....	....	....	SUPERSCRI PT LATIN SMALL LETTER N
						Superscript N; Nasal release
2080	----	YT2-0	....	....	....	SUBSCRI PT ZERO
2081	----	YT2-1	....	....	....	SUBSCRI PT ONE
2082	-2--	YT2-2	....	....	....	SUBSCRI PT TWO
2083	----	YT2-3	....	....	....	SUBSCRI PT THREE
2084	----	YT2-4	....	....	....	SUBSCRI PT FOUR
2085	----	YT2-5	....	....	....	SUBSCRI PT FIVE
2086	----	YT2-6	....	....	....	SUBSCRI PT SIX
2087	----	YT2-7	....	....	....	SUBSCRI PT SEVEN
2088	----	YT2-8	....	....	....	SUBSCRI PT EI GHT
2089	----	YT2-9	....	....	....	SUBSCRI PT NI NE
2093	----L	LR2-X	....	....	....	LATIN SUBSCRI PT SMALL LETTER X
20A0	----	YC2-E	....	....	....	EURO-CURRENCY SIGN
20A1	----	YC1-q	....	....	....	COLON SIGN
20A2	----	YC1-x	....	....	....	CRUZEIRO SIGN
20A3	-24-	YC2-F	....	....	....	FRENCH FRANC SIGN
20A4	-24-	YC2-L	....	....	....	LIRA SIGN
20A5	----	YC1-m	....	....	....	MILL SIGN
20A6	----	YC1-n	....	....	....	NAIRA SIGN
20A7	-24-	YC2-Q	....	....	....	PESETA SIGN
20A8	----	YC1-r	....	....	....	RUPEE SIGN
20A9	----	YC1-w	....	....	....	WON SIGN
20AA	---H	HE2-A; YC1-s	....	....	....	NEW SHEQEL SIGN
20AB	----	YC1-d	....	....	....	DONG SIGN
20AC	124-	YC1-e	....	....	....	EURO SIGN
20AD	----	YC1-k	....	....	....	KIP SIGN
20AE	----	YC1-t	....	....	....	TUGRIK SIGN
20AF	-2--	YC2-D	....	....	....	DRACHMA SIGN
20B0	----	YC1-p	....	....	....	GERMAN PENNY SIGN
20B1	----	YC2-P	....	....	....	PESO SIGN
20B2	----	YC1-g	....	....	....	GUARANI SIGN
20B3	----	YC1-a	....	....	....	AUSTRAL SIGN
20B4	----	YC1-h	....	....	....	HRVYNIA SIGN
20B5	----	YC2-C	....	....	....	CEDI SIGN
20B8	----	YC2-T	....	....	....	TENGE SIGN [Unicode 5.2]
20DD	---c	CX2-V	....	....	....	COMBINING ENCLOSING CIRCLE
2105	-24-	YS1-c	....	....	....	CARE OF
2113y	---4-	YY1-z	....	....	....	SCRIPT SMALL L
2114y	----	YY1-d	....	....	....	L B BAR SYMBOL
2116	-24-	YS2-N	....	....	....	NUMERO SIGN
2117	----	YS2-P	....	....	....	SOUND RECORDING COPYRIGHT
211By	----	YY2-R	....	....	....	SCRIPT CAPITAL R
2120	----	YS2-S	....	....	....	SERVICE MARK
2122	124-	YS2-T	....	....	....	TRADE MARK SIGN
2126y	124-	YY2-0; G2-V	....	....	....	OHM SIGN
212B	----	.... L2-A' DW1-0	....	....	....	ANGSTROM SIGN
212E	---4-	YM1-e	....	....	....	ESTIMATED SYMBOL
2133	----	YC2-M	....	....	....	SCRIPT CAPITAL M
214D	----	YS2-A	....	....	....	AKTIESELSKAB
2153	----	YU2-1	....	....	....	VULGAR FRACTION ONE THIRD
2154	----	YU2-2	....	....	....	VULGAR FRACTION TWO THIRDS
2159	----	YU2-6	....	....	....	VULGAR FRACTION ONE SIXTH
215A	----	YU2-4	....	....	....	VULGAR FRACTION FIVE SIXTHS
215B	124-	YU2-8	....	....	....	VULGAR FRACTION ONE EIGHTH

215C	124-	YU2-3	....	....	....	VULGAR FRACTION THREE EIGHTHS
215D	124-	YU2-5	....	....	....	VULGAR FRACTION FIVE EIGHTHS
215E	124-	YU2-7	....	....	....	VULGAR FRACTION SEVEN EIGHTHS
2190	124-	YS1-h	....	....	....	LEFTWARDS ARROW
2191	124-	YS1-k	....	....	....	UPWARDS ARROW
2192	124-	YS1-j	....	....	....	RIGHTWARDS ARROW
2193	124-	YS1-l	....	....	....	DOWNWARDS ARROW
2194	-24-	YM2-L	....	....	....	LEFT RIGHT ARROW
2195y	-24-	YY1-e	....	....	....	UP DOWN ARROW
510	2197	----	DJ2-K;	YS2-K	....	NORTH EAST ARROW
						Upward diagonal arrow; Global rise
511	2198	----	DJ2-L;	YS2-L	....	SOUTH EAST ARROW
						Downward diagonal arrow; Global fall
219A	----	....	YS1-h'	DD2-X	....	LEFTWARDS ARROW WITH STROKE
219B	----	....	YS1-j'	DD2-X	....	RIGHTWARDS ARROW WITH STROKE
21A8y	-24-	YY2-E	....	....	....	UP DOWN ARROW WITH BASE
21AE	----	....	YM2-L'	DD2-X	....	LEFT RIGHT ARROW WITH STROKE
21B2	----	YMI-l	....	....	....	DOWNWARDS ARROW WITH TIP LEFTWARDS
2200	-2--	YMI-a	....	....	....	FOR ALL
2202	-24-	YMI-d	....	....	....	PARTIAL DIFFERENTIAL
2203	-2--	YM2-A	....	....	....	THERE EXISTS
2204	----	....	YM2-A'	DD2-X	....	THERE DOES NOT EXIST
2205	----	YMI-t	....	....	....	EMPTY SET
2206	-24-	YM2-D	....	....	....	INCREMENT
2208	-2--	YM2-E	....	....	....	ELEMENT OF
2209	-2--	....	YM2-E'	DD2-X	....	NOT AN ELEMENT OF
220F	-24-	YM2-P	....	....	....	N-ARY PRODUCT
2211	-24-	YM2-S	....	....	....	N-ARY SUMMATION
2212	-24-	YS1-y	....	....	....	MINUS SIGN
2215	-4-	YS1-z	....	....	....	DIVISION SLASH
2217	----	YS2-X	....	....	....	ASTERISK OPERATOR
2219y	-24-	YY1-a	....	....	....	BULLET OPERATOR
221A	-24-	YM2-R	....	....	....	SQUARE ROOT
221E	-24-	YMI-q	....	....	....	INFINITY
221F	-24-	YM2-G	....	....	....	RIGHT ANGLE
2227	-2--	YMI-b	....	....	....	LOGICAL AND
2228	-2--	YMI-v	....	....	....	LOGICAL OR
2229	-24-	YM2-B	....	....	....	INTERSECTION
222A	-2--	YM2-V	....	....	....	UNION
222B	-24-	YM2-I	....	....	....	INTEGRAL
223C	----	YS2-U	....	....	....	TILDE OPERATOR
2241	----	....	YS2-U'	DD2-X	....	NOT TILDE
2248	-24-	YS1-u	....	....	....	ALMOST EQUAL TO
2249	----	....	YS1-u'	DD2-X	....	NOT ALMOST EQUAL TO
2259	-2--	YMI-p	....	....	....	ESTIMATES
2260	-24-	YS2-F;	Y02-6'	DD2-X	....	NOT EQUAL TO
2261	-24-	YMI-i	....	....	....	IDENTICAL TO
2262	----	....	YMI-i'	DD2-X	....	NOT IDENTICAL TO
2264	-24-	YS1-f	....	....	....	LESS-THAN OR EQUAL TO
2265	-24-	YS1-g	....	....	....	GREATER-THAN OR EQUAL TO
226A	----	YMI-f	....	....	....	MUCH LESS-THAN
226B	----	YMI-g	....	....	....	MUCH GREATER-THAN
226E	----	....	Y02-3'	DD2-X	....	NOT LESS-THAN
226F	----	....	Y02-4'	DD2-X	....	NOT GREATER-THAN
2270	----	....	YS1-f'	DD2-X	....	NEITHER LESS-THAN NOR EQUAL TO
2271	----	....	YS1-g'	DD2-X	....	NEITHER GREATER-THAN NOR EQUAL TO
2282	-2--	YM2-X	....	....	....	SUBSET OF
2283	-2--	YM2-C	....	....	....	SUPERSET OF
2284	----	....	YM2-X'	DD2-X	....	NOT A SUBSET OF
2285	----	....	YM2-C'	DD2-X	....	NOT A SUPERSET OF
2295	-2--	YMI-o	....	....	....	CIRCLED PLUS
2297	-2--	YM2-O	....	....	....	CIRCLED TIMES
2300	----	YS1-t	....	....	....	DIAMETER SIGN
2302y	-24-	YY1-w	....	....	....	HOUSE
2310	-24-	YM2-N	....	....	....	REVERSED NOT SIGN
2311y	----	YY2-Z	....	....	....	SQUARE LOZENGE
2320x	-24-	....	....	....	....	TOP HALF INTEGRAL (for output only)
2321x	-24-	....	....	....	....	BOTTOM HALF INTEGRAL (for output only)
2329x	-2--	....	?3008	....	....	LEFT-POINTING ANGLE BRACKET (replaced by math. angle bracket)
232Ax	-2--	....	?3009	....	....	RIGHT-POINTING ANGLE BRACKET (replaced by math. angle bracket)
2423	----	YMI-w	....	....	....	OPEN BOX
2500x	-24-	....	....	....	....	BOX DRAWINGS LIGHT HORIZONTAL (for output only)
2502x	-24-	....	....	....	....	BOX DRAWINGS LIGHT VERTICAL (for output only)
250Cx	-24-	....	....	....	....	BOX DRAWINGS LIGHT DOWN AND RIGHT (for output only)
2510x	-24-	....	....	....	....	BOX DRAWINGS LIGHT DOWN AND LEFT (for output only)
2514x	-24-	....	....	....	....	BOX DRAWINGS LIGHT UP AND RIGHT (for output only)
2518x	-24-	....	....	....	....	BOX DRAWINGS LIGHT UP AND LEFT (for output only)
251Cx	-24-	....	....	....	....	BOX DRAWINGS LIGHT VERTICAL AND RIGHT (for output only)
2524x	-24-	....	....	....	....	BOX DRAWINGS LIGHT VERTICAL AND LEFT (for output only)
252Cx	-24-	....	....	....	....	BOX DRAWINGS LIGHT DOWN AND HORIZONTAL (for output only)
2534x	-24-	....	....	....	....	BOX DRAWINGS LIGHT UP AND HORIZONTAL (for output only)
253Cx	-24-	....	....	....	....	BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL (for output only)
2550x	-24-	....	....	....	....	BOX DRAWINGS DOUBLE HORIZONTAL (for output only)
2551x	-24-	....	....	....	....	BOX DRAWINGS DOUBLE VERTICAL (for output only)
2552x	-24-	....	....	....	....	BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE (for output only)
2553x	-24-	....	....	....	....	BOX DRAWINGS DOWN DOUBLE AND RIGHT SINGLE (for output only)
2554x	-24-	....	....	....	....	BOX DRAWINGS DOUBLE DOWN AND RIGHT (for output only)
2555x	-24-	....	....	....	....	BOX DRAWINGS DOWN SINGLE AND LEFT DOUBLE (for output only)
2556x	-24-	....	....	....	....	BOX DRAWINGS DOWN DOUBLE AND LEFT SINGLE (for output only)
2557x	-24-	....	....	....	....	BOX DRAWINGS DOUBLE DOWN AND LEFT (for output only)
2558x	-24-	....	....	....	....	BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE (for output only)
2559x	-24-	....	....	....	....	BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE (for output only)
255Ax	-24-	....	....	....	....	BOX DRAWINGS DOUBLE UP AND RIGHT (for output only)
255Bx	-24-	....	....	....	....	BOX DRAWINGS UP SINGLE AND LEFT DOUBLE (for output only)
255Cx	-24-	....	....	....	....	BOX DRAWINGS UP DOUBLE AND LEFT SINGLE (for output only)
255Dx	-24-	....	....	....	....	BOX DRAWINGS DOUBLE UP AND LEFT (for output only)
255Ex	-24-	....	....	....	....	BOX DRAWINGS VERTICAL SINGLE AND RIGHT DOUBLE (for output only)
255Fx	-24-	....	....	....	....	BOX DRAWINGS VERTICAL DOUBLE AND RIGHT SINGLE (for output only)
2560x	-24-	....	....	....	....	BOX DRAWINGS DOUBLE VERTICAL AND RIGHT (for output only)

2561x	-24-	.....	.....	.....	.....	BOX DRAWINGS VERTICAL SINGLE AND LEFT DOUBLE (for output only)
2562x	-24-	.....	.....	.....	.....	BOX DRAWINGS VERTICAL DOUBLE AND LEFT SINGLE (for output only)
2563x	-24-	.....	.....	.....	.....	BOX DRAWINGS DOUBLE VERTICAL AND LEFT (for output only)
2564x	-24-	.....	.....	.....	.....	BOX DRAWINGS DOWN SINGLE AND HORIZONTAL DOUBLE (for output only)
2565x	-24-	.....	.....	.....	.....	BOX DRAWINGS DOWN DOUBLE AND HORIZONTAL SINGLE (for output only)
2566x	-24-	.....	.....	.....	.....	BOX DRAWINGS DOUBLE DOWN AND HORIZONTAL (for output only)
2567x	-24-	.....	.....	.....	.....	BOX DRAWINGS UP SINGLE AND HORIZONTAL DOUBLE (for output only)
2568x	-24-	.....	.....	.....	.....	BOX DRAWINGS UP DOUBLE AND HORIZONTAL SINGLE (for output only)
2569x	-24-	.....	.....	.....	.....	BOX DRAWINGS DOUBLE UP AND HORIZONTAL (for output only)
256Ax	-24-	.....	.....	.....	.....	BOX DRAWINGS VERTICAL SINGLE AND HORIZONTAL DOUBLE (for output only)
256Bx	-24-	.....	.....	.....	.....	BOX DRAWINGS VERTICAL DOUBLE AND HORIZONTAL SINGLE (for output only)
256Cx	-24-	.....	.....	.....	.....	BOX DRAWINGS DOUBLE VERTICAL AND HORIZONTAL (for output only)
2580x	-24-	.....	.....	.....	.....	UPPER HALF BLOCK (for output only)
2584x	-24-	.....	.....	.....	.....	LOWER HALF BLOCK (for output only)
2588x	-24-	.....	.....	.....	.....	FULL BLOCK (for output only)
258Cx	-24-	.....	.....	.....	.....	LEFT HALF BLOCK (for output only)
2590x	-24-	.....	.....	.....	.....	RIGHT HALF BLOCK (for output only)
2591x	-24-	.....	.....	.....	.....	LIGHT SHADE (for output only)
2592x	-24-	.....	.....	.....	.....	MEDIUM SHADE (for output only)
2593x	-24-	.....	.....	.....	.....	DARK SHADE (for output only)
25A0y	-24-	YY2-B	.....	.....	.....	BLACK SQUARE
25A1y	--4-	YY1-b	.....	.....	.....	WHITE SQUARE
25AAy	--4-	YY2-V	.....	.....	.....	BLACK SMALL SQUARE
25ABy	--4-	YY1-v	.....	.....	.....	WHITE SMALL SQUARE
25ACy	-24-	YY2-N	.....	.....	.....	BLACK RECTANGLE
25B2y	-24-	YY2-W	.....	.....	.....	BLACK UP-POINTING TRIANGLE
25BAy	-24-	YY2-D	.....	.....	.....	BLACK RIGHT-POINTING POINTER
25BCy	-24-	YY2-S	.....	.....	.....	BLACK DOWN-POINTING TRIANGLE
25C4y	-24-	YY2-A	.....	.....	.....	BLACK LEFT-POINTING POINTER
25C9	----	YM2-U	.....	.....	.....	FISHEYE
25CA	-24-	YM2-Z	.....	.....	.....	LOZENGE
25CB	-24-	YMI-y	.....	.....	.....	WHITE CIRCLE
25CC	----	YMI-u	.....	.....	.....	DOTTED CIRCLE
25CF	--4-	YM2-Y	.....	.....	.....	BLACK CIRCLE
25D8x	-24-	.....	.....	.....	.....	INVERSE BULLET (for output only)
25D9x	-24-	.....	.....	.....	.....	INVERSE WHITE CIRCLE (for output only)
25E6	--4-	YS1-n	.....	.....	.....	WHITE BULLET
260Ey	----	YY2-P	.....	.....	.....	BLACK TELEPHONE
261Cy	----	YY2-C	.....	.....	.....	WHITE LEFT POINTING INDEX
261Ey	----	YY2-X	.....	.....	.....	WHITE RIGHT POINTING INDEX
2639	----	YMI-s	.....	.....	.....	WHITE FROWNING FACE
263A	-24-	YS1-s	.....	.....	.....	WHITE SMILING FACE
263By	-24-	YY1-s	.....	.....	.....	BLACK SMILING FACE
263Cy	-24-	YY1-u	.....	.....	.....	WHITE SUN WITH RAYS
2640	-24-	YM2-F	.....	.....	.....	FEMALE SIGN
2642	-24-	YM2-M	.....	.....	.....	MALE SIGN
2660y	-24-	YY2-J	.....	.....	.....	BLACK SPADE SUIT
2661y	----	YY1-h	.....	.....	.....	WHITE HEART SUIT
2663y	-24-	YY2-F	.....	.....	.....	BLACK CLUB SUIT
2665y	-24-	YY2-H	.....	.....	.....	BLACK HEART SUIT
2666y	-24-	YY2-G	.....	.....	.....	BLACK DIAMOND SUIT
266A	124-	YM2-Q	.....	.....	.....	EIGHTH NOTE
266B	-24-	YM2-W	.....	.....	.....	BEAMED EIGHTH NOTES
266D	----	YS1-b	.....	.....	.....	MUSIC FLAT SIGN
266F	----	YS2-B	.....	.....	.....	MUSIC SHARP SIGN
2713	----	YMI-r	.....	.....	.....	CHECK MARK
2756y	----	YY2-U	.....	.....	.....	BLACK DIAMOND MINUS WHITE X
27E8	----	YP2-1	.....	.....	.....	MATHEMATICAL LEFT ANGLE BRACKET
27E9	----	YP2-2	.....	.....	.....	MATHEMATICAL RIGHT ANGLE BRACKET
27EA	----	YMI-h	.....	.....	.....	MATHEMATICAL LEFT DOUBLE ANGLE BRACKET
27EB	----	YMI-j	.....	.....	.....	MATHEMATICAL RIGHT DOUBLE ANGLE BRACKET
2AFD	----	YMI-z	.....	.....	.....	DOUBLE SOLIDUS OPERATOR
2C60	---L	LQ2-L	.....	.....	.....	LATIN CAPITAL LETTER L WITH DOUBLE BAR
2C61	---L	LQ1-l	.....	.....	.....	LATIN SMALL LETTER L WITH DOUBLE BAR
2C62	---L	LV2-L	.....	.....	.....	LATIN CAPITAL LETTER L WITH MIDDLE TILDE
2C63	---L	LZ2-P	.....	.....	.....	LATIN CAPITAL LETTER P WITH STROKE
2C64	---L	LQ2-R	.....	.....	.....	LATIN CAPITAL LETTER R WITH TAIL
2C65	---L	LX1-a	.....	.....	.....	LATIN SMALL LETTER A WITH STROKE
2C66	---L	LX1-t	.....	.....	.....	LATIN SMALL LETTER T WITH DIAGONAL STROKE
2C6D	---L	LE2-H	.....	.....	.....	LATIN CAPITAL LETTER ALPHA
2C6E	---L	LQ2-M	.....	.....	.....	LATIN CAPITAL LETTER M WITH HOOK
184 2C71	----	i-v4	.....	.....	.....	LATIN SMALL LETTER V WITH RIGHT HOOK Right-hook V; Labiodental flap
2C72	---L	LV2-W	.....	.....	.....	LATIN CAPITAL LETTER W WITH HOOK
2C73	---L	LV1-w	.....	.....	.....	LATIN SMALL LETTER W WITH HOOK
2C7D	---L	LR2-V	.....	.....	.....	MODIFIER LETTER CAPITAL V
2E17	---L	DM2-O	.....	.....	.....	DOUBLE OBLIQUE HYPHEN
2E18y	----	YY2-Q	.....	.....	.....	INVERTED INTERROBANG
908 2E28	----	DJ2-X; YMI-x	.....	.....	.....	LEFT DOUBLE PARENTHESIS Left double parenthesis; Sound obscured
909 2E29	----	DJ2-C; YMI-c	.....	.....	.....	RIGHT DOUBLE PARENTHESIS Right double parenthesis; Sound obscured
A640	---c	CX2-Z	.....	.....	.....	CYRILLIC CAPITAL LETTER ZEMLYA
A641	---c	CX1-z	.....	.....	.....	CYRILLIC SMALL LETTER ZEMLYA
A642	---c	CX2-S	.....	.....	.....	CYRILLIC CAPITAL LETTER DZELO
A643	---c	CX1-s	.....	.....	.....	CYRILLIC SMALL LETTER DZELO
A64A	---c	CX2-P	.....	.....	.....	CYRILLIC CAPITAL LETTER MONOGRAPH UK
A64B	---c	CX1-p	.....	.....	.....	CYRILLIC SMALL LETTER MONOGRAPH UK
A650	---c	CX2-Y	.....	.....	.....	CYRILLIC CAPITAL LETTER YERU WITH BACK YER
A651	---c	CX1-y	.....	.....	.....	CYRILLIC SMALL LETTER YERU WITH BACK YER
A656	---c	CX2-A	.....	.....	.....	CYRILLIC CAPITAL LETTER IOTIFIED A
A657	---c	CX1-a	.....	.....	.....	CYRILLIC SMALL LETTER IOTIFIED A
A717	---L	DS2-F	.....	.....	.....	MODIFIER LETTER DOT VERTICAL BAR
A718	---L	DS2-G	.....	.....	.....	MODIFIER LETTER DOT SLASH
A719	---L	DS2-H	.....	.....	.....	MODIFIER LETTER DOT HORIZONTAL BAR
A71A	---L	DS2-J	.....	.....	.....	MODIFIER LETTER LOWER RIGHT CORNER ANGLE
518 A71B*	----	DJ1-k	.....	.....	.....	MODIFIER LETTER RAISED UP ARROW Up arrow; Upstep
517 A71C*	----	DJ1-l	.....	.....	.....	MODIFIER LETTER RAISED DOWN ARROW

					Down arrow; Downstep
A722	---L	LV2-A	.....	.....	LATIN CAPITAL LETTER EGYPTOLOGICAL ALEF
A723	---L	LV1-a	.....	.....	LATIN SMALL LETTER EGYPTOLOGICAL ALEF
A724	---L	LV2-J	.....	.....	LATIN CAPITAL LETTER EGYPTOLOGICAL AIN
A725	---L	LV1-j	.....	.....	LATIN SMALL LETTER EGYPTOLOGICAL AIN
A726	---L	LQ2-H	.....	.....	LATIN CAPITAL LETTER HENG
A727	---L	LQ1-h	.....	.....	LATIN SMALL LETTER HENG
A75By	----	YY1-r	.....	.....	LATIN SMALL LETTER R ROTUNDA
A788	---L	DS2-I	.....	.....	MODIFIER LETTER LOW CIRCUMFLEX ACCENT
A789	---L	DM1-9	.....	.....	MODIFIER LETTER COLON
A78A	---L	DM1-0	.....	.....	MODIFIER LETTER SHORT EQUALS SIGN
A78B	---L	LE2-X	.....	.....	LATIN CAPITAL LETTER SALTILLO
A78C	---L	LE1-x	.....	.....	LATIN SMALL LETTER SALTILLO
A78D	---L	LE2-Q	.....	.....	LATIN CAPITAL LETTER TURNED H [Unicode 5.2]
FO01x	---4-	.....	.....	.....	(Microsoft private use)
FO02x	---4-	.....	.....	.....	(Microsoft private use)
FB01y	-24-	YY1-f	.....	.....	LATIN SMALL LIGATURE FI
FB02y	-24-	YY1-g	.....	.....	LATIN SMALL LIGATURE FL
FB13	---W	WE1-n	.....	.....	ARMENIAN SMALL LIGATURE MEN NOW
FB14	---W	WE1-m	.....	.....	ARMENIAN SMALL LIGATURE MEN ECH
FB15	---W	WE1-i	.....	.....	ARMENIAN SMALL LIGATURE MEN INI
FB16	---W	WE1-v	.....	.....	ARMENIAN SMALL LIGATURE VEW NOW
FB17	---W	WE1-b	.....	.....	ARMENIAN SMALL LIGATURE MEN XEH
FB1D	---H	.....	H1-h'	H2-I	HEBREW LETTER YOD WITH HIRIQ
FB1E	---H	HE2-R	.....	.....	HEBREW POINT JUDEO-SPANISH VARIKA
FB1F	---H	.....	H2-H'	H2-S	HEBREW LIGATURE YIDDISH YOD YOD PATAH
FB29	---H	HE2-V	.....	.....	HEBREW LETTER ALTERNATIVE PLUS SIGN
FB2A	---H	.....	H1-a'	H2-G	HEBREW LETTER SHIN WITH SHIN DOT
FB2B	---H	.....	H1-a'	H2-F	HEBREW LETTER SHIN WITH SIN DOT
FB2C	---H	.....	H1-a'	H2-L' H2-G	HEBREW LETTER SHIN WITH DAGESH AND SHIN DOT
FB2D	---H	.....	H1-a'	H2-L' H2-F	HEBREW LETTER SHIN WITH DAGESH AND SIN DOT
FB2E	---H	.....	H1-t'	H2-S	HEBREW LETTER ALEF WITH PATAH
FB2F	---H	.....	H1-t'	H2-D	HEBREW LETTER ALEF WITH QAMATS
FB30	---H	.....	H1-t'	H2-L	HEBREW LETTER ALEF WITH MAPIQ
FB31	---H	.....	H1-c'	H2-L	HEBREW LETTER BET WITH DAGESH
FB32	---H	.....	H1-d'	H2-L	HEBREW LETTER GIMEL WITH DAGESH
FB33	---H	.....	H1-s'	H2-L	HEBREW LETTER DALET WITH DAGESH
FB34	---H	.....	H1-v'	H2-L	HEBREW LETTER HE WITH MAPIQ
FB35	---H	.....	H1-u'	H2-L	HEBREW LETTER VAV WITH DAGESH
FB36	---H	.....	H1-z'	H2-L	HEBREW LETTER ZAYIN WITH DAGESH
FB38	---H	.....	H1-y'	H2-L	HEBREW LETTER TET WITH DAGESH
FB39	---H	.....	H1-h'	H2-L	HEBREW LETTER YOD WITH DAGESH
FB3A	---H	.....	H1-l'	H2-L	HEBREW LETTER FINAL KAF WITH DAGESH
FB3B	---H	.....	H1-f'	H2-L	HEBREW LETTER KAF WITH DAGESH
FB3C	---H	.....	H1-k'	H2-L	HEBREW LETTER LAMED WITH DAGESH
FB3E	---H	.....	H1-n'	H2-L	HEBREW LETTER MEM WITH DAGESH
FB40	---H	.....	H1-b'	H2-L	HEBREW LETTER NUN WITH DAGESH
FB41	---H	.....	H1-x'	H2-L	HEBREW LETTER SAMEKH WITH DAGESH
FB43	---H	.....	H2-P'	H2-L	HEBREW LETTER FINAL PE WITH DAGESH
FB44	---H	.....	H1-p'	H2-L	HEBREW LETTER PE WITH DAGESH
FB46	---H	.....	H1-m'	H2-L	HEBREW LETTER TSADI WITH DAGESH
FB47	---H	.....	H1-e'	H2-L	HEBREW LETTER QOF WITH DAGESH
FB48	---H	.....	H1-r'	H2-L	HEBREW LETTER RESH WITH DAGESH
FB49	---H	.....	H1-a'	H2-L	HEBREW LETTER SHIN WITH DAGESH
FB4A	---H	.....	H2-Y'	H2-L	HEBREW LETTER TAV WITH DAGESH
FB4B	---H	.....	H1-u'	H2-K	HEBREW LETTER VAV WITH HOLAM
FB4C	---H	.....	H1-c'	H2-R	HEBREW LETTER BET WITH RAFA
FB4D	---H	.....	H1-f'	H2-R	HEBREW LETTER KAF WITH RAFA
FB4E	---H	.....	H1-p'	H2-R	HEBREW LETTER PE WITH RAFA
FB4F	---H	HE2-T	.....	.....	HEBREW LIGATURE ALEF LAMED
FD3E	----	YM2-H	.....	.....	ORNATE LEFT PARENTHESIS
FD3F	----	YM2-J	.....	.....	ORNATE RIGHT PARENTHESIS
FFFD	-2--	YP2-	.....	.....	REPLACEMENT CHARACTER