

Contents:

FOREWORD	iv
INTRODUCTION	v
1 Scope	1
2 Conformance	2
3 Normative References	2
4 Definitions	4
5 Symbols and abbreviations	5
6 String comparison	5
6.1 Preparation of character strings prior to comparison	5
6.2 Key building and comparison	56
6.2.1 Preliminary considerations	6
6.2.1.1 Assumptions	6
6.2.1.2 Processing properties	6
6.2.2 Ordering key formation	7
6.2.2.1 Formation of a subkey with the <i>forward</i> parameter	78
6.2.2.2 Formation of a subkey with the <i>backward</i> parameter	8
6.2.2.3 Formation of a subkey which uses the <i>forward position</i> parameter	8
6.2.3 Reference comparison method for ordering character strings	8
6.3 Common Template Table: formation and interpretation	940
6.3.1 BNF syntax rules	10
6.3.1.1 Keyword usage	11
6.3.2 Well-formedness conditions	11
6.3.3 Interpretation of tailored tables	13
6.3.4 Evaluation of weight tables	14
6.3.5 Conditions for considering specific table equivalences	15
6.3.6 Conditions for results to be considered equivalent	15
6.4 Declaration of a delta	15
6.5 Name of the Common Template Table and name declaration	17
Annex A -- Common Template Table (normative)	19
Annex B -- Tailoring deltas (informative)	113409
B.1 Example 1 – Canadian delta and benchmark	113409
B.2 Example 2 – Danish delta and benchmark	116442
B.3 Example 3 – Reversing the order of lower case and upper case letters	120446
B.4 Cyrillic (issue)	126424
C -- Preparation (informative)	128123
C.1 General considerations	128423
C.2 Handling of numeral substrings in collation	128423
C.2.1 Handling of ‘ordinary’ numerals for natural numbers	128423
C.2.2 Handling of positional numerals in other scripts	132427
C.2.3 Handling of other non-pure positional system numerals or non-positional system numerals (e.g. Roman numerals)	132427
C.2.4 Handling of numerals for whole numbers	132427
C.2.5 Handling of positive positional numerals with fractional parts	134429
C.2.6 Handling of positive positional numerals with fraction parts and exponent parts	135430
C.2.8 Handling of date and time of day indications	135431
C.2.9 Making numbers less significant than letters	137432
C.2.10 Maintaining determinacy	137432
C.3 Thai string ordering – a case involving special preparation	138434
Annex D -- Tutorial on solutions brought by this standard to problems of lexical ordering (informative)	143438
Annex E – BIBLIOGRAPHY (informative)	152447
FOREWORD	iii
INTRODUCTION	iv
1 Scope	1

2 Conformance	2
3 Normative References	2
4 Definitions	4
5 Symbols and abbreviations	5
6 Requirements	5
6.1 Preparation of character strings prior to comparison	5
6.2 Key building and comparison	5
6.2.1 Preliminary considerations	5
6.2.1.1 Assumptions	5
6.2.1.2 Processing properties	6
6.2.2 Key formation	6
6.2.2.2 Formation of a subkey with the backward parameter	7
6.2.2.3 Formation of a subkey which uses the forward position parameter	7
6.2.3 Reference comparison method resulting in ordering two character strings	8
6.3 Common Template Table: formation and interpretation	8
6.3.1 BNF syntax rules	8
6.3.2 Well formedness conditions	10
6.3.3 Interpretation of tailored tables	2
6.3.4 Conditions for considering specific table equivalences	3
6.3.5 Conditions for results to be considered equivalent	3
6.4 Declaration of a delta	14
6.5 Name of the Common Template Table and name declaration	14
Annex A — Common Template Table (normative)	16
Annex B — Tailoring deltas (informative)	107
B.1 Example 1 — Canadian delta and benchmark	107
B.2 Example 2 — Danish delta and benchmark	110
B.3 Example 3 — Reversing the order of lower case and upper case letters	113
B.4 Thai string ordering — a case involving special preparation	114
B.5 Cyrillic (issue)	118
C — Preparation (informative)	120
C.1 General considerations	120
C.2 Handling of numeral substrings in collation	120
C.2.1 Handling of ‘ordinary’ numerals for natural numbers	121
C.2.2 Handling of positional numerals in other scripts	124
C.2.3 Handling of other non pure positional system numerals or non positional system numerals (e.g. Roman numerals) ..	124
C.2.4 Handling of numerals for whole numbers	125
C.2.5 Handling of positive positional numerals with fractional parts	127
C.2.6 Handling of positive positional numerals with fraction parts and exponent parts	127
C.2.8 Handling of date and time of day indications	128
C.2.9 Making numbers less significant than letters	130
C.2.10 Maintaining determinacy	130
Annex D — Tutorial on solutions brought by this standard to problems of lexical ordering (informative)	132
Annex E — Description of a collating sequence definition (informative)	136
Annex F — BIBLIOGRAPHY (informative)	141

FOREWORD

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee known as ISO/IEC JTC1. Draft International Standards adopted by the joint technical committee are circulated to the national bodies for voting. Publication as an international standard requires approval by at least 75% of the national bodies that cast a vote.

The ISO/IEC 14651 International Standard has been prepared by the Joint Technical Committee ISO/IEC JTC1, Information Technology.

INTRODUCTION

This International Standard provides a method for ordering text data world-wide, and provides a Common Template Table whose tailoring meets the requirements of a-given languages and cultures while retaining universal-reasonable ordering properties for other scripts.

The Common Template Table requires some tailoring in different local environments. However conformance to this International Standard requires that all deviations from the Template, called "deltas", be declared to document resultant discrepancies.

This International Standard describes a method to order text data independently of context.

The Draft Technical Report ISO/IEC DTR 14652 (under development) has specifications for ordering that complements the specifications in this International Standard, and where additional information may be sought on ordering keywords defined in this International Standard.

1 Scope

This International Standard defines:

-- A reference comparison method applicable to two ~~characters~~character strings in order to determine their respective order in a sorted list. The method can be applied ~~on~~to strings ~~exploiting containing characters from~~ the full repertoire of ISO/IEC 10646-1. This method is also applicable to subsets of that repertoire, such as, ~~for example~~, those of the different ISO/IEC 8-bit standard character sets, or any other character set, standardized or private, to produce ordering results valid (after tailoring) for a given set of languages for each script. This method uses ~~transformation-collation~~ tables derived either from the Common Template Table defined in this International Standard or from one of its tailorings.

-- A reference format, using the Backus-Naur Form (BNF) to describe the Common Template Table used normatively ~~in~~within this International Standard.

- A ~~specific~~ Common Template Table used by the reference comparison method. This table describes ~~an basic~~ order for all characters encoded in the first edition of ISO/IEC 10646-1 up to Amendment 7. It allows for a ~~further~~ specification of a fully deterministic ordering. ~~Theis~~ table ~~is a starting point for enabling-enables~~ the specification of an international string ordering adapted to different cultures, without requiring an implementor to have a knowledge of all the different scripts already encoded in the UCS.

NOTE 1: This Common Template Table ~~mayis to~~ be modified ~~with a minimum of effort~~ to suit the needs of a local environment. The main benefit, worldwide, is that for other scripts, ~~often~~ no modification ~~should may~~ be required and that the order will remain as consistent as possible and predictable from an international point of view.

NOTE 2: The character repertoire ~~describused~~ in this International Standard is equivalent to that of the Unicode Standard Version 2.1.

- A reference name, representing this particular version of the Common Template Table for use ~~by various processes~~ as a ~~starting base reference~~ for tailoring. In particular, this name implies that the table is linked to a particular stage of development of the ISO/IEC 10646 Universal multiple-octet coded character set.
- Requirements for a declaration of the differences (delta) between the ~~comparison-collation~~ table ~~used in processes~~ and the Common Template Table.

This International Standard does *not* mandate:

- A specific comparison method; any equivalent method giving the same results is acceptable.
- A specific format for describing or tailoring tables in a given implementation.
- Specific symbols to be used by implementations except the name of the Common Template Table.
- A specific user interface for choosing options.
- A specific internal format for intermediate keys used in comparisons nor for the table used. The use of numeric keys is not mandated either.

- A context-dependent ordering ~~which would require complex transformation of data.~~
- Any particular preparation of character strings prior to comparison.

NOTE 1: It is normally necessary to do preparation of character strings prior to comparison even if it is not prescribed by this International standard (see informative annex C).

NOTE 2: Although no user interface is required to choose options or to specify tailoring of the Common Template Table, conformance requires always declaring the applicable delta, a declaration of differences with this table. It is recommended that processes present available tailoring options to users.

2 Conformance

A process is conformant to this International Standard if it meets the requirements prescribed in subclauses 6.2 to 6.5.

A declaration of conformity to this International Standard shall be accompanied by a statement, either directly or by reference, of the following:

- the number of levels that the process supports. This number shall be at least three;
- whether the process supports the `position` parameter;
- whether the process supports the `backward` parameter and at which level;
- the tailoring *delta* described in 6.4 and how many levels are defined in the delta.

It is the responsibility of implementors to show how their delta declaration is related to the table syntax described in 6.3, and how the comparison method they use, if different from the one mentioned in clause 6, can be considered as giving the same results as those prescribed by the method specified in clause 6.

3 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below.

Members of IEC and ISO maintain registers of currently valid International Standards.

- ISO/IEC 10646-1:1993 *Information technology -- Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane*
- ISO/IEC 10646-1:1993/Amd.1:1996 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 1: Transformation Format for 16 planes of group 00 (UTF-16)*
- ISO/IEC 10646-1:1993/Amd.2:1996 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 2: UCS Transformation Format 8 (UTF-8)*

~~ISO/IEC 10646-1:1993/Amd.3:1996 Information technology — Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 3~~

- ISO/IEC 10646-1:1993/Amd.4:1996 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 4*
- ISO/IEC 10646-1:1993/Amd.5:1998 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 5: Hangul syllables*
- ISO/IEC 10646-1:1993/Amd.6:1997 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 6: Tibetan*
- ISO/IEC 10646-1:1993/Amd.7:1997 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 7: 33 additional characters*
- ISO/IEC 10646-1:1993/Amd.9:1997 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 9: Identifiers for characters*
- ISO/IEC 10646-1:1993/Amd.18:1997 *Information technology – Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane Amendment 18: Symbols and other characters*

NOTE concerning Amendment 18: Only the EURO SIGN and the OBJECT REPLACEMENT CHARACTER from Amendment 18 are accounted for in Annex A of this International Standard at this time.

4 Definitions

For the purposes of this International Standard, the following definitions apply:

- 4.1 character string** a sequence of characters ~~considered as a single entity~~
- 4.2 collation** equivalent to the term “ordering”
- 4.3 collating symbol** a symbol used to specify weights assigned to a collating element
- 4.4 collation (weighting) table** a mapping from collating elements to weighting elements
- 4.5 collating element** a sequence of one or more characters that ~~has an entry in the collating table~~ are considered a single element for ordering
- 4.6 delta** differences from a given collation table. The given collation table, together with a given delta, forms a new collation table. Unless otherwise specified in this International Standard, the term "delta" always refers to differences from the Common Template Table as defined in this International Standard list of differences of a specific ordering table relative to the Common Template Table defined in this International Standard
- 4.7 (collation) level** ~~whenever used without qualification in this International Standard, level stands for the number of the pass done over a string to compute a complete ordering the sequence number for a subkey~~
- 4.8 ordering** a process by which two strings ~~are~~ determined to be in exactly one of the relationships of **less than**, **greater than**, or **equal** to one another
- 4.9 ~~(complete)~~ ordering key** a ~~series~~sequence of ~~numerical values~~subkeys used to determine an order
- 4.10 (collation) preparation** a process in which given character strings are mapped to (other) character strings logically before ~~using the key~~the calculation specified in the reference comparison method of this International Standard of the ordering key for each of the strings
- 4.11 reference comparison method** the method for establishing an order between two ~~character string~~ordering keys (see clause 6.4)
- 4.12 ~~(collation)~~ subkey** a sequence of weights computed for a character string for a particular level.
- 4.13 ~~symbolic collating element~~** ~~a name bound to a non-empty character string. The name may be used in specifying collating elements~~
- 4.14 ~~symbolic weight~~** ~~name bound to a weight. Each symbolic weight is defined for a particular level~~
- 4.145 (collation) weight** ~~length b digit sequence. For the reference comparison method, the value of b must be fixed for each level (but may be different for different levels) and the radix of the digits must be the same for all levels. a positive integer value, used in subkeys, reflecting the relative order of collating elements~~
- 4.156 weighting element** ~~a list of sequence of weights [To be completed offline]~~ a list of a given number of weights sequentially ordered by level

5 Symbols and abbreviations

Following ISO/IEC_10646-1 requirement (~~followed by exact location of syntax~~ Amendment 9) characters are referenced as UXXXX where X stands for any hexadecimal digit (using upper case letters where applicable) and refers to the value of that character in ISO/IEC 10646-1. This convention is used throughout this International Standard.

~~By convention, if a character outside of the standard repertoire of ISO/IEC 10646 is to be used in tailored ordering tables, it is recommended that this character be identified using the form <Pyyyyyyy>. Private zone characters will normally be used for meeting such special requirements, and the sequence yyyyyyy used in the symbol represents private zone UCS coding."~~

In the Common Template Table arbitrary symbols representing weights are used according to the BNF notation description in 6.3.1.

6 Requirements 6 String comparison

6.1 Preparation of character strings prior to comparison

It may be necessary to transform character strings before the reference comparison method is applied to them (see annex C for an example of such preparation). Although not part of the scope of this International Standard, ~~context-sensitive~~ preparation may be an important part of the ordering process, as for example in telephone-book ordering, a complex case in point.

Where applicable, it can be an important part of the prehandling phase to map characters from a non-UCS encoding scheme to the UCS for input into the reference comparison method. This task can amongst other things encompass the correct handling of escape sequences in the originating encoding scheme, the mapping of characters without an allocated UCS codepoint to an application-defined codepoint in the private zone area and inverting strings which are not stored in UCSlogical order. For example, visual order Arabic code sets must be put into logical order; bibliographic code sets with accents before base characters require reversal. The resulting string sequence may then have to be remapped into its original encoding scheme.

NOTE 1: The Common Template Table is designed so that combining sequences and equivalent-corresponding single characters (precomposed) will have precisely the same ordering. To avoid inadvertently breaking this invariant (and in the process breaking Unicode conformance), tailoring should reorder combining sequences when corresponding equivalent characters are reordered. For example, if Å is reordered after Z, then the sequence <A>+<combining diaeresis> should also be reordered. To avoid exposing encoding differences that may be invisible to the end-user, it is recommended that sStrings can also be normalized according to Unicode normalization to achieve this equivalence – see ReferencesBibliography, Unicode Technical Report no. 15.

NOTE 2: Escape sequences and control characters constitute very sensitive data to interpret, and it is highly recommended that preparation should filter out or transform these sequences. ~~—Ideally, all control characters should be filtered out before comparison and reintroduced afterward, in case of absolute homography, to distinguish two character strings being compared~~

~~NOTE 3: Since the reference method is a logical statement for the mechanism for string comparison, it does not preclude an implementation from using a non-UCS character encoding only, as long as it produces results as if it were using the reference comparison method.~~

6.2 Key building and comparison

6.2.1 Preliminary considerations

6.2.1.1 Assumptions

The collation table is a mapping from collating elements to weighting elements. In each weighting element, four levels are described in the Common Template Table. This number of levels can be extended or reduced (but not below 3 levels) in ~~the tailoring phase~~.

NOTE: Normally the last level is intended to specify "special" characters, i.e., characters normally not part of the spelling of words of a language (such as dingbats, punctuation, etc.), sometimes called "ignorable" characters in the context of computerized ordering.

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6.2.1.2 Processing properties

The whole table has specific scanning and ordering properties. These properties ~~can~~may be changed.

The scanning direction (forward or backward) used to process the string is a global property of each level defined in the table.

An optional property of the last level of comparison is that, before comparing weights of each "ignorable" character, a comparison on the numeric position of each such character in the two strings may be effected. This property is known as the position parameter. In other words, for two strings equivalent at all levels except the last one, the string having an ignorable in the lowest position comes before the other one. In case ignorables share the same positions, then weights are considered, until a difference is found). This processing is optional and is not necessary to claim conformance.

NOTE: The scanning direction (forward or backward) is not normally related to the natural writing direction of scripts. The scanning direction applies to the logical sequence of the coded character string.

According to ISO/IEC 10646, for scripts written right to left, such as Arabic, the lowest positions in the logical sequence of characters correspond to the rightmost characters of a string (from the point of view of their natural presentation sequence). Conversely, for the Latin script, written left to right, the lowest positions in the logical sequence of characters correspond to the leftmost characters of the string (from the point of view of their natural presentation sequence).

Scanning forward starts with the lowest position in the logical sequence, while scanning backward starts from the highest position, independently of the presentation sequence. The scanning direction for ordering purposes is a global property of each level described in the table.

In ISO/IEC 10646-1, the Arabic script is artificially separated into two pseudoscripts: 1) the logical, intrinsic Arabic, coded independently of shapes, and 2) the Arabic presentation forms. Both allow the complete coding of Arabic, but intrinsic Arabic is normally preferred for better processing, while presentation-form Arabic is preferred by some presentation-oriented applications. ISO/IEC 10646-1 does not prescribe that the presentation forms be coded in any specific order and in some implementations, the coded order for the latter is exactly the opposite of the one used for "intrinsic Arabic". It is therefore eventually advisable that prehandling be used to make sure that coded Arabic presentation forms and other coded Arabic characters be fed to the comparison method in the same logical order.

A tailored table may be separated into sections for ease of tailoring. Each section is then assigned ~~an arbitrary~~a name consistent with the specification in subclause 6.3.1. One of the tailoring possibilities is to assign a given order to each section and to change the relative order of an entire section relative to other sections.

6.2.2 Ordering Key-key formation

When two strings are compared to determine their relative order, the two strings are first broken up into a sequence of collating elements, making use of any applicable multi-character collating elements that have been declared by a 'collating_element' statement in the tailored table.

. Then a series-sequence of m intermediary subkeys is formed out of a character string, where m is the maximum number of levels described in either the Common Template Table or in the tailored collation weighting table. The following subclauses describe the formation of an complete-ordering key.

Each ordering key is a sequence of subkeys. Each subkey is a list of numeric weights. A subkey is formed by successively appending the list of the weights assigned, at the level of the subkey, to each collating element of the string. The keyword "IGNORE" in the Common Template Table at the place of a sequence of collating symbols at a level, indicates that the sequence of weights at that level for that collating element is an empty sequence of weights.

There are three types of subkeys: subkeys using the "forward" parameter; subkeys using the "backward" parameter; and subkeys using the "forward,position" parameter. Subkeys that use the position parameter can only occur at the last level. Support of the position parameter is not required for conformance but shall be declared if used.

Each complete ordering key is a list of subkeys. Each subkey is a list of numeric weights, formed by successively appending each of the weights assigned to corresponding characters at a given level. There are three types of subkeys, subkeys using the forward parameter, subkeys using the backward parameter and subkeys using the forward position parameter. Subkeys that use the position parameter may only occur at the last level. Support of the position parameter is not required for conformance but shall be declared if used. The special keyword "IGNORE" as a weight indicates that when strings are compared using the weights at the level where "IGNORE" is specified, the collating element shall be ignored; i.e., as if the string did not contain the collating element.

If there is no entry in the tailored table for a character of the input string, then the character weights are undefined. Characters with undefined weights are ordered with respect to characters that have defined weights as if they were given the weight "UNDEFINED" at each level in the Common Template Table. If there is no weight assigned to the symbol "UNDEFINED" in the table, then the table is interpreted as if there were one at the very end. The ordering of characters with undefined weights with respect to other characters with undefined weights is not specified in this standard."

If there are no weights corresponding to a character of the input string, then the character is undefined. Undefined characters are ordered with respect to defined characters as if they were given the weight "UNDEFINED" at any particular level in the Common Template Table. If there is no weight assigned to symbol "UNDEFINED" in the table, then the table is interpreted as if there were one at the very end. The ordering of undefined characters with respect to other undefined characters is not specified in this standard.

NOTE: there are two common treatments of undefined characters. The first is to sort among them as if their level-one weight differences were based upon their UCS character code. The second is to sort them as if they all had the same level-one weight, and their second-level weights were the same as their UCS character codes.

6.2.2.1 Formation of a subkey with the forward parameter

Subkeys with the `forward` parameter are formed in the following way at a particular level:

During forward scanning of each collating element of the input character string, one or more weights are obtained. These weights are obtained by matching the name of the collating element in a tailored

collation weighting table, and then obtaining the list of weights assigned at the particular level to the collating element. The obtained weight list is appended to the end of the subkey.

For the syntax used for expressing the Common Template Table, the name of a collating element consisting of a single character, is formed by the UCS value of the character, expressed as a hexadecimal string, prefixed with "U". For multi-character collating elements, the name and association to characters can be found via the collating elements declarations. During forward scanning of each character of the input character string, one or more weights are obtained. These weights are obtained by matching the UCS value of each character, expressed as a hexadecimal string, against a corresponding symbol prefixed with "U" in the Common Template Table or in the tailored collation weighting table, and then evaluating the symbolic weight or weights associated with that level. These weights are appended to the end of the subkey.

6.2.2.2 Formation of a subkey with the backward parameter

Subkeys with the `backward` parameter are formed by forming a subkey with the `forward` parameter at a particular level, then reversing that subkey.

6.2.2.3 Formation of a subkey which uses the forward position parameter

Subkeys using the `forward position` parameter are formed at a particular level in the following way:

During forward scanning of each character collating element of the input character string, two weights are appended to the end of the subkey. The first weight corresponds to the logical position in the original character string of the collating element character being processed. The second weight corresponds to the weight assigned to that collating element character at the subkey's level in the table.

NOTE: In the Common Template Table, levels generally have the following characteristics, although the purpose of each level is not absolute:

Level 1: This level generally corresponds to the set of common letters of the alphabets for that script, if the script is alphabetic, and to the set of common characters of the script if the script is ideographic or syllabic.

Level 2: This level generally corresponds to diacritical marks affecting each basic character of the script. For some languages, letters with diacritics are always considered an integral part of the basic letters of the alphabet, and are not considered at this second level, but rather at the first. For example, in Spanish, N TILDE is considered a basic letter of the Latin script. Therefore, tailoring for Spanish will change the definition of N TILDE from "the weight of an N in the first level and the weight of a TILDE in the second level" to "the weight of an N TILDE (placed after N and before O) in the first level, and indication of the absence of a diacritic in the second level". For some characters, variant letter shapes are also dealt with on level_2. An example of this is ß, the LATIN LETTER SHARP S, which is treated as equivalent to ss on level_1, but traditionally distinguished from it on level_2.

Level 3: This level generally corresponds to case distinctions or, mainly in non-Latin scripts, to distinctions based on variant character shapes.

Level 4: This level generally corresponds to weighting differences that are less significant than those at the other levels.

6.2.3 Reference comparison method resulting infor ordering two-character strings

The following describes the reference comparison method used as a reference to determine conformance to this International Standard:

1. In considering a table describing weights (each instance a of weight is noted wt(a) below) at m levels (an instance of a subkey at a given level b is noted sk(b) below) for each of n characters in

the implementation character set, build an ~~an complete~~-ordering key for each of two arbitrary character strings being compared, according to the algorithm of key formation described in ~~sub-clauses 6.2.21 and 6.2.3~~ of this International Standard.

~~2. A complete ordering key x is less than a complete ordering key y if and only if there is some integer i such that all $(i-1)$ subkeys in x and y are equal, and the i th subkey of x is less than the i th subkey for y ;~~

~~2. An ordering key x is less than an ordering key y at level s where $1 \leq s \leq n$ if and only if there exists some integer i where $1 \leq i \leq s$ such that $x_{sk(i)} < y_{sk(i)}$ and $x_{sk(j)} = y_{sk(j)}$ for all integers j where $1 \leq j < i$.~~

~~An complete~~-ordering key x is greater than an ~~an complete~~-ordering key y if and only if y is less than x ;

~~An complete~~-ordering key x is equal to an ~~an complete~~-ordering key y if neither x is less than y nor y is less than x .

~~3. A subkey v is less than a subkey w if and only if there is some integer j such that all $(j-1)$ weights in v and w are equal, and either the j th weight of v is less than the j th weight for w or the length of v equals $(j-1)$ and the length of w is greater than $(j-1)$;~~

~~3. A subkey v of length l_v is less than a subkey w of length l_w if and only if $l_v = 0$ and $l_w > 0$ or if there exists some integer p where $p \leq l_v$ and $p \leq l_w$ such that for all integers q , where $1 \leq q \leq p$, $v_{wt(q)} = w_{wt(q)}$ and either $l_v = p$ and $l_w > p$ and $v_{wt(p)} = w_{wt(p)}$ or $v_{wt(p)} < w_{wt(p)}$.~~

A subkey v is greater than a subkey w if and only if w is less than v ;

A subkey v is equal to a subkey w if neither v is less than w nor w is less than v .

The table used in this reference comparison method is the result of the numeric interpretation of the symbols in a tailored table.

NOTE: The comparison may be made "on-the-fly" while generating the ordering keys for two strings to be compared, stopping the comparison when two collating elements have got different weights at a given level. This avoids generating the full ordering key, when a difference may be found in the beginning of the strings. When a bigger set of strings are to be ordered, it is advisable to generate the full ordering keys before comparison.

6.3 Common Template Table: formation and interpretation

This clause specifies:

- the syntax used to form the Common Template Table in annex A of this International Standard or a tailored table based upon the Common Template Table
- conditions of well-formedness of a table using this syntax
- interpretation of tables formed using this syntax
- conditions for considering two tables as equivalent

- conditions for considering comparison results as equivalent

6.3.1 BNF syntax rules

Definitions between <angle brackets> make use of terms not defined in this BNF syntax, and assume general English usage.

Other conventions:

- * indicates 0 or more repetitions of a token or a group of tokens
- + indicates 1 or more repetitions of a token or a group of tokens
- ? indicates optional occurrence of a token or a group of tokens (0 or 1 occurrences)
- parentheses are used to group tokens
- production rules are terminated by a semicolon
- comments start with a % character on a separate line

```
% Define collation tables as sequences of lines.
weight_table = common_template_table | tailored_table ;
tailored_table = table_line+ ;
common_template_table = simple_line+ ;

% Define the line types.
table_line = simple_line | tailoring_line ;
tailoring_line = (section_definition | reorder_after | reorder_end |
                 reorder_section_after | order_start | order_end)
                 line_completion ;
simple_line = (symbol_definition | symbol_weight_assignment |
             collating_element_definition)? line_completion ;

% Define the tailoring syntax.
order_start = 'order_start' space+ identifier_semicolon
             multiple_level_direction ('position')? line_completion ;
order_end = 'order_end' line_completion ;
multiple_level_direction = direction (semicolon direction)* ;
direction = 'forward' | 'backward' ;
reorder_section_after = 'reorder-section-after' space+ section_identifier
                      space+ target_symbol line_completion ;
reorder_after = 'reorder-after' space+ target_symbol line_completion ;
reorder_end = 'reorder-end' line_completion ;
target_symbol = symbol ;
section_definition = section_definition_simple | section_definition_list ;
section_definition_list = 'section' space+ section_identifier space+
                          symbol_list ;
section_definition_simple = 'section' space+ section_identifier ;
section_identifier = identifier ;
symbol_list = symbol_element (semicolon symbol_element)* ;

% Define the basic syntax for collation weighting.
collating_element = 'collating-element' space+ symbol space+ 'from' space+
                  quoted_symbol_sequence ;
weight_assignment = simple_weight | symbol_weight | 'UNDEFINED' ;
simple_weight = symbol_element ;
symbol_weight = symbol_element space+ weight_list ;

symbol_definition = ('collating-symbol' space+ symbol_element) +
UNDEFINED ;
weight_list = level_token (semicolon level_token)* ;
level_token = symbol_group | 'IGNORE' ;
symbol_group = symbol_element | quoted_symbol_sequence ;
quoted_symbol_sequence = '"' symbol+ '"' ;
symbol_element = symbol | symbol_range ;
symbol_range = symbol '..' symbol ;
symbol = simple_symbol | ucs_symbol ;
```



```

ucs_symbol = ('<U' four_digit_hex_string '>') | ('<U-'
            eight_digit_hex_string '>') ;
simple_symbol = '<' identifier '>' ;

% Define low-level tokens used by the rest of the syntax.
identifier = (letter | digit) id_part* ;
id_part = letter | digit | '-' | '_' ;
line_completion = +space* comment+? EOL ;
comment = comment_char character* ;
eight_digit_hex_string = hex_upper hex_upper hex_upper hex_upper hex_upper
            hex_upper hex_upper hex_upper hex_upper ;
four_digit_hex_string = hex_upper hex_upper hex_upper hex_upper ;
hex_numeric_string = hex_upper+ ;
space = ' ' | <TAB> ;
semicolon = ';' ;
comment_char = '%' ;
letter = 'a' | 'b' | 'c' | 'd' | 'e' | 'f' | 'g' | 'h' | 'i' | 'j' | 'k' |
        'l' | 'm' | 'n' | 'o' | 'p' | 'q' | 'r' | 's' | 't' | 'u' | 'v' |
        'w' | 'x' | 'y' | 'z' | 'A' | 'B' | 'C' | 'D' | 'E' | 'F' |
        'G' | 'H' | 'I' | 'J' | 'K' | 'L' | 'M' | 'N' | 'O' | 'P' | 'Q' |
        'R' | 'S' | 'T' | 'U' | 'V' | 'W' | 'X' | 'Y' | 'Z' ;
hex_upper = 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | digit ;
digit = '0' | '1' | '2' | '3' | '4' | '5' | '6' | '7' | '8' | '9' ;
EOL = <end-of-line in the text conventions in use> ;
character = <any member of the repertoire of the encoded character set in
            use, not including any characters used to delimit the end of
            lines> ;

```

6.3.1.1 Keyword usage

The following keywords were inherited from POSIX locale syntax. The original usage of these keywords is as follows:

<u>collating-element</u>	<u>Define a collating-element symbol representing a multicharacter collating element. This keyword is optional.</u>
<u>order_start</u>	<u>Define collation rules. This statement is followed by one or more collation order statements, assigning character collation values and collation weights to collating elements.</u>
<u>order_end</u>	<u>Specify the end of the collation-order statements.</u>
<u>reorder-after</u>	<u>Redefine collating rules. Specify after which collating element the redefinition of collation order shall take order. This statement is followed by one or more collation order statements, reassigning character collation values and collation weights to collating elements.</u>
<u>reorder-end</u>	<u>Specify the end of the "reorder-after" collating order statements.</u>
<u>reorder-section-after</u>	<u>Redefine the order of sections. This statement is followed by one or more section symbols, reassigning character collation values and collation weights to collating elements.</u>
<u>reorder-section-end</u>	<u>Specify the end of the "reorder-sections" section order statements.</u>

6.3.2 Well-formedness conditions

WF1. Any simple_symbol occurring in a weight_list shall also occur in the initial symbol_element of the symbol_weight in which that weight_list occurs, or in a symbol_definition that occurs earlier in the sequence of lines that constitute a weight_table.

WF1. Any simple_symbol occurring in a weight_list shall occur in a symbol_definition in the same symbol_weight in which the weight_list occurs, or in a symbol_weight or symbol_definition that occurs earlier in the sequence of table_lines that constitute a tailored_table.

NOTE: All simple_symbols shall be “defined” before they are “used”.~~ues_symbol's are all assumed to be predefined.~~

WF2. ~~The values of any tw~~No symbol's that ~~comprise occurs in~~ a symbol_definition in a weight_table that contains no tailoring_line's ~~shall not be identical~~may occur in another symbol definition in the same weight table.

NOTE: Duplication of collation weighting symbols is prohibited. This is true for the Common Template Table itself, and must also remain true for a tailored_table, once the results of all reordering of lines has been applied.

WF3. All weight_list's in a tailored_table shall contain the same number of level_token's. An empty level token shall be interpreted as the collating element itself.

NOTE: A tailorable table shall be consistent in its use of levels throughout.

WF4. A tailored_table ~~may not~~shall contain ~~a multiple_level_direction if it does not also contain a weight_list consisting of more than one level_token~~one order_start statement.

NOTE: ~~No order_start~~This statement shall be used in a table which defines no multi-level appear after symbol definition entries and before the symbol weight entries.

WF5. A multiple_level_direction in a tailored_table shall contain the same number of direction's as the number of level_token's of any weight_list in that tailored_table.

NOTE: Any order_start shall have the same number of levels as is generally used in the table.

WF6. If a level_token in a weight_list consists of a symbol_group, all successive level_token's in that weight_list shall also consist of a symbol_group.

NOTE: 'IGNORE' shall not be used at a level after an explicit symbol for a weighting.

WF7. Any section_identifier occurring in a reorder_section_after shall occur in a section_definition which occurs earlier in the sequence of table_lines that constitutes a tailored_table.

~~NOTE:~~All section_identifiers ~~shall be~~ shall be “defined” before they are “used”.

WF8. No two section_definition_entrys in a tailored_table shall contain the same values in their section_identifiers.

NOTE: Multiple definition of sections is prohibited; section_identifiers shall be unique.

WF9. Each reorder_after in a tailored_table shall be followed at a later point in that tailored table by a reorder_end or another reorder_after.

WF10. ~~If a~~ tailored_table shall contains one ~~or more~~ order_start's, ~~it shall be terminated with~~ and one order_end.

WF11. No reorder_section_after shall contain a target_symbol whose value is the same as any symbol in the section_definition_list whose section_identifier is the same as the section_identifier in that reorder_section_after.

NOTE: A section shall not be reordered after a line which the section itself contains; attempts at recursive relocation of lines are prohibited.

WF12. Any *symbol_range* shall contain two *symbol*'s which meet the following conditions: Each *symbol* shall contain a common prefix, ~~consisting of one or more characters that are not hex_upper's~~; the portions of *identifier* of each *symbol* following the common prefix shall be a *hex_numeric_string*; and when interpreted as numeric values, the *hex_numeric_string* of the first *symbol* shall be less than the *hex_numeric_string* of the second *symbol*. The positive integral difference between the *hex_numeric_string* of the second *symbol*, interpreted as a numeric value, and the *hex_numeric_string* of the first *symbol*, interpreted as a numeric value, ~~is termed constitutes~~ the range of values_range of the *symbol_range*.

NOTE: A well-formed *symbol_range* is of a form such as <S4E00>..<>S9FA5>, where the common prefix is "S", and the rest of the *identifier* portion of each *symbol* is a *hex_numeric_string*.

WF13. Any ~~or~~ *symbol_weight* which contains more than one *symbol_range* shall contain only *symbol_range*'s that meet the following requirement: Each *symbol_range* following the first *symbol_range* shall have the same number of values in the value_range identical tos that of the first *symbol_range*.

NOTE: This condition guarantees that all expanded ranges will be well-formed, since for any one *symbol_weight*, all of the range expansions will have the same number of values.:-

6.3.3 Interpretation of tailored tables

I1. A *section* consists either 1) of the list of *simple_lines* which contain a *symbol_definition* whose value is equal to any *symbol* contained in the *symbol_list* in a *section_definition_list_entry*, or 2) of the list of *simple_line*'s following a *section_definition_simple* in a *tailored_table*.

NOTE: A *section* is defined 1) by a specific *symbol_list*, or 2) by taking all the lines following the *section_definition* until another tailoring line such as an *order_start*, a *reorder_section_after*, another *section_definition*, or the end of the entire table is encountered.

I2. A *simple_line* consisting of a *symbol_definition* containing a *symbol_range* is equivalent to a sequence of *simple_line*'s, each containing a *symbol* in place of the *symbol_range*, where the *symbol* for each successive *simple_line* is generated by concatenating a *hex_numeric_string* to the common prefix of the *symbol_range*, in numeric order, starting with the hex value associated with the *hex_numeric_string* of the first *symbol*, and ending with the hex value associated with the *hex_numeric_string* of the second *symbol*. The hex_numeric_string concatenated to the common prefix must contain the same number of digits as the hex_numeric_string of the first symbol. The number of *simple_line*'s thus generated is equal to the number of symbols in the one more than the value_range of the symbol_range.

NOTE: A *symbol_definition* of the form "collating-symbol <S0301>..<>S0303>" is equivalent to the three lines:
collating-symbol <S0301>
collating-symbol <S0302>
collating-symbol <S0303>

I3. A *simple_line* consisting of a *symbol_weight* containing one or more *symbol_range*'s is equivalent to a sequence of *simple_line*'s, where each *symbol_range* has been expanded into a sequence of *symbol*'s, as described in I2 for *symbol_definition*'s.

NOTE: A symbol_weight of the form “<U2000>..~~<U2002>~~ <S0301>..~~<S0303>~~; <BLANK>; <MIN>; <U2000>..~~<U2002>~~” is equivalent to the three lines:
 <U2000> <S0301>; <BLANK>; <MIN>; <U2000>
 <U2001> <S0302>; <BLANK>; <MIN>; <U2001>
 <U2002> <S0303>; <BLANK>; <MIN>; <U2002>

I4a. A tailored_table containing a reorder_after is equivalent to the tailored_table where:
 1) ~~1) with have been removed~~ all table_line's-~~that were~~ ahead of the reorder_after and that contained symbol_definition's whose symbol matches the symbol of any symbol_definition in the table_line's between the reorder_after and reorder_end-~~removed~~,
 2) ~~2) with have been reordered~~ the table_lines between that reorder_after and the first subsequent reorder_end ~~reordered~~ to immediately follow the first table_line in the tailored_table containing a symbol_definition whose symbol is the same as the target_symbol in the reorder_after, and
 3) ~~3) with have been removed~~ that reorder_after and that reorder_end-~~removed~~.

NOTE: Move the block of lines between the reorder_after and the reorder_end to follow the target_symbol, delete any prior lines that duplicate the symbol_definition's of the reordered lines, and remove the reorder_after and reorder_end themselves.

I4b.NOTE: When a tailored_table contains multiple groups of lines to be reordered, the table is interpreted by processing each reorder_after sequentially, starting from the first line of the table.

NOTE: Subsequent line reorderings may impact lines that themselves were reordered by prior reorderings.

I5. A tailored_table containing a section_reorder_after is equivalent to the tailored_table with the section associated with that section-reorder_after reordered (in the same relative order as the table_lines have in that section) to immediately follow the last table_line in the tailored_table containing a symbol_definition whose symbol is the same as the target_symbol in the section_reorder_after, and with that section_reorder_after removed.

I6. A weight_table is said to be in normal form when it contains no reorder_after's or section_reorder_after's.

NOTE: ~~In general, a~~ tailored_table can be put into normal form by the operations implied by I4-I4 and I2-I5.

6.3.4 Evaluation of weight tables

I7E1. A weight_table in normal form is said to be evaluated when each ~~symbol_definition~~weight_assignment in the weight_table is mapped to a positive ~~integral-integer~~numeric value (a weight) such that those values increase monotonically by the order in which the ~~weight_assignmentsymbol_definition~~'s occur in the weight_table.

NOTE 1: ~~The table_line's of the weight_table are first mapped to the set of positive integers, by sequential order in the table. This mapping defines an ordered set of line numbers. The weight_assignmentsymbol_definition's are then mapped to a set of positive integers (weights) that varies monotonically with the set of line numbers.~~

NOTE 2: this does not restrict the starting number for the weight of the first ~~weight_assignmentsymbol_definition~~, nor does it require that the numbers for these weights be immediately consecutive.

I8E2. An evaluated weight_table is said to be collation-element-weighted when each simple_symbol occurring in each weight_list in that evaluated weight_table has been mapped to the ~~integral~~

value_weight which corresponds to the **weight_assignment_symbol_definition** which contains the same **simple_symbol**.

NOTE 1: Each **weight_list** can be interpreted as containing either symbol's mapped to integral weight values, or as instances of the string 'IGNORE'. At this point the mathematical injection of strings can be defined using the **weight_table**. *The string 'IGNORE' is equivalent to an empty list of weight symbols.*

NOTE 2: In a tailored table the value of any **hex_numeric_string** associated with a symbol typically does not reflect the numeric weighting of the symbol.

6.3.4-5 Conditions for considering specific table equivalences

A **weight_table** W1 and a **weight_table** W2 are said to be equivalent **at a particular level** if any comparison of strings—using those tables **up to that level** results in the same ordering.

NOTE: If one takes two strings, builds keys for each based on W1 and compares them, one should always get the same results as when one builds keys for those strings based on W2 and compares them.

6.3.56 Conditions for results to be considered equivalent

An implementation of international string ordering is conformant with this International Standard if for any set of strings S defined on a repertoire R, the implementation can duplicate the same comparisons as those resulting from comparison of the numbers from an injection constructed according to the rules of clause 6.2.3 of this International Standard.

~~An implementation of international string ordering is conformant with this International Standard if any tailoring it uses can be demonstrated to be equivalent to a **weight_table** constructed according to the rules of clause 6.2.3 of this standard.~~

6.4 Declaration of a delta

Tailoring shall be based upon the Common Template Table described in annex A. Tailoring may be accomplished using any syntax that is equivalent to the one described in this International ~~standard~~Standard.

NOTE: For example, ISO/IEC **DTR** 14652, uses a compatible extension of the syntax used in this International ~~standard~~Standard for tailoring. A tailoring delta can also be expressed using the syntax of the Unicode collation algorithm (see ~~references~~Bibliography - Unicode Technical Report no. 10). It has also been demonstrated that a tailoring delta can also be expressed using an XML-conformant markup scheme.

Any declaration of conformance to this International Standard shall be accompanied with a declaration of the differences between the collation weighting table and the Common Template Table. ~~These differences are called a delta according to this International Standard. Such a~~ delta shall contain the equivalent of:

1. At least one valid **order_start_entry** described in clause 6.3.1; an unlimited number of sections containing an **order_start_entry** and an **order_end_entry** may be declared.
2. The number of levels used for comparison.
3. The list of **symbol_definition** weights (as defined in 6.2.1) added and after which **symbol_definition** entry each insertion is made.

4. The list of *simple_line* entries (as defined in 6.2.1) deleted or inserted, referencing after which *simple_line* entry in the Common Template Table the insertions are made

NOTE: It is recommended that a delta should not be bigger than necessary.

In cases where a process has provision to allow the end-user to tailor the table himself or herself, a statement of conformance shall indicate which of the 4 elements of the previous list are tailorable and which of those 4 elements are not tailorable. For those which are not tailorable, the delta of fixed elements relative to the Common Template Table shall be declared.

NOTE: The declaration may use a different syntax from the one specified in 6.3 provided that the relationship with this syntax can be reasonably established. For example, the following declarations are valid:

"Collate U+00E5 after U+007A at the primary level.
Collate U+00E4 after U+00E5 at the primary level. "

or

The primary alphabet order is modified so that in all cases $z < b < \acute{a} < \grave{a}$ (to be noted that the letters \acute{a} and \grave{a} are sorted after Icelandic letter thorn (þ), itself already coming after all the variants of the letter z, i.e. they have a weight value higher at level 1 than the one for thorn (þ), which itself comes after the one for all variants of the letter z.

"The primary alphabet order is modified so that in all cases $z < \acute{a} < \grave{a}$ "

These two notations can reasonably be considered to be equivalent to the following more precise expressions (which also give weights at levels 2 and 3 and take care of accented \acute{a} 's, accented \grave{a} 's and Ångström sign):

reorder-after <S00FE> % weighting for THORN (after z)

% declare new collation symbols:

collation-symbol <S00E5> % for \acute{a}

collation-symbol <S00E4> % for \grave{a}

%declare new collating elements for the decompositions:

collation-element <U0061_030A> from "<U0061><U030A>" % decomposition of \acute{A}

collation-element <U0041_030A> from "<U0041><U030A>" % decomposition of \grave{A}

collation-element <U0061_0308> from "<U0061><U0308>" % decomposition of \acute{a}

collation-element <U0041_0308> from "<U0041><U0308>" % decomposition of \grave{a}

% assign weights to these new collation symbols (after THORN):

<S00E5> % for \acute{a}

<S00E4> % for \grave{a}

reorder-end

reorder-after <SFFFF>

order start forward;forward;forward;forward

% use the new weights to do the change of collation rules:

<U00E5> <S00E5>;<BASE>;<MIN>;<U00E5> % LATIN SMALL LETTER A WITH RING ABOVE

<U0061_030A> <S00E5>;<BASE>;<MIN>;"<U0061_030A>" % decomposition of å

<U00C5> <S00E5>;<BASE>;<CAP>;<U00C5> % LATIN CAPITAL LETTER A WITH RING ABOVE

<U0041_030A> <S00E5>;<BASE>;<CAP>;"<U0041_030A>" % decomposition of Å

<U212B> <S00E5>;<BASE>;<CAP>;<U212B> % ANGSTROM SIGN

<U01FB> <S00E5>;"<BASE><AIGUT>";"<MIN><MIN>";<U01FB> % LATIN SMALL LETTER A WITH

RING ABOVE AND ACUTE

<U01FA> <S00E5>;"<BASE><AIGUT>";"<CAP><MIN>";<U01FA> % LATIN CAPITAL LETTER A WITH

RING ABOVE AND ACUTE

<U00E4> <S00E4>;<BASE>;<MIN>;<U00E5> % LATIN SMALL LETTER A WITH DIAERESIS

<U0061_0308> <S00E4>;<BASE>;<MIN>;"<U0061_0308>" % decomposition of ä

<U00C4> <S00E4>;<BASE>;<CAP>;<U00C4> % LATIN CAPITAL LETTER A WITH DIAERESIS

<U0041_0308> <S00E4>;<BASE>;<CAP>;"<U0041_0308>" % decomposition of Ä

<U01DF> <S00E4>;"<BASE><MACRO>";"<MIN><MIN>";<U01DF> % LATIN SMALL LETTER A WITH

DIAERESIS AND MACRON

<U01DE> <S00E4>;"<BASE><MACRO>";"<CAP><MIN>";<U01DE> % LATIN CAPITAL LETTER A

WITH DIAERESIS AND MACRON

reorder-end

reorder after <U007A>

<U00E5> <U00E5>;<BLANK>;<MIN>

reorder-end

reorder after <U00E5>

<U00E4> <U00E4>;<BLANK>;<MIN>

reorder-end

6.5 Name of the Common Template Table and name declaration

Whenever the Common Template Table is referred externally as a base point in a given context, whether in a process, contract, or procurement requirement, it shall be referenced using the name ISO14651_49992000_TABLE1. If another name is used due to practical constraints, a declaration of conformance shall indicate how the correspondence between this other name and the name ISO14651_49992000_TABLE1 is taken care of.

The use of a defined name is necessary to manage the different stages of development of this table. This follows from the nature of the reference character repertoire, for which development will be ongoing for a number of years or even decades.

Annex A -- Common Template Table (normative)

In this ordering table, a number of characters and scripts of the world are missing, due to the fact that those characters or scripts have not yet been encoded in the reference character set repertoire, ISO/IEC 10646-1 (Universal multiple-octet coded Character Set, or UCS) at time of the preparation of this International Standard.

It is the intent of ISO/IEC to include the ordering of those scripts explicitly in the Common Template Table when data becomes available, by way of amendments to this International Standard. If the Common Template Table is not tailored for unspecified characters, then an implicit order is assigned in the following table, which may not meet the user requirements of a particular community. Any delta with this table shall be declared in a statement of conformance to this International Standard as per the specifications of the conformance clause.

Name used for referring to this table in this version of this International standard:
ISO14651_19992000_TABLE1

***** TEXT TO BE MODIFIED WHEN WE KNOW THE PERMANENT URL OF THE MACHINE READABLE TABLE ON ITTF SITE *****

NOTE: Some lines in the following table spill in presentation because of ~~too~~-long ~~comments~~line lengths. An eventual machine-readable table using this format shall be corrected to avoid this minor presentation problem. In case of doubt a copy of the source file (which does not present this presentation problem as it is a machine-readable file) is available from the SC22/WG20 convenor or from the editor of this International Standard. At time of publishing of the International Standard, it is currently the intent that the machine-readable table will be assigned a permanent URL which will be referred in the final document ~~as well~~ in addition to being reproduced fully in the International Standard.

% escape_char /
□% comment_char %

□% LC_COLLATE

□% Decoment the lines above to create a 14652-style
% LC_COLLATE definition.

```

***** THE FULL TABLE COMES AROUND HERE*****
% Autogenerated Common Template Table
% created from unidata-2.1.9.txt
% Equivalent to weights of basekeys.txt + compkeys.txt

% Order of collating symbols

% Third-level collating symbols

collating-symbol<RES-1>
collating-symbol<BLK>
collating-symbol<MIN>
collating-symbol<WIDE>
collating-symbol<COMPAT>
collating-symbol<FONT>
collating-symbol<CIRCLE>
collating-symbol<RES-2>
collating-symbol<CAP>
collating-symbol<WIDECAP>
collating-symbol<COMPATCAP>
collating-symbol<FONTCAP>
collating-symbol<CIRCLECAP>
collating-symbol<HIRA-SMALL>
collating-symbol<HIRA>
collating-symbol<SMALL>
collating-symbol<SMALL-NARROW>
collating-symbol<KATA>
collating-symbol<NARROW>
collating-symbol<CIRCLE-KATA>
collating-symbol<MNN>
collating-symbol<MNS>
collating-symbol<AIN>
collating-symbol<AMED>
collating-symbol<AFIN>
collating-symbol<AISO>
collating-symbol<SQUARED>
collating-symbol<SQUARED CAP>
collating-symbol<FRACTION>

% Second-level collating symbols

collating-symbol<BASE>
collating-symbol<LOWLINE>-% COMBINING LOW LINE
collating-symbol<PSILI>-% COMBINING COMMA ABOVE
% "<PSILI><AIGUT>"
% "<PSILI><GRAVE>"
% "<PSILI><PERIS>"
% "<PSILI><YPOGE>"
% "<PSILI><AIGUT><YPOGE>"
% "<PSILI><GRAVE><YPOGE>"
% "<PSILI><PERIS><YPOGE>"
collating-symbol<DASIA>-% COMBINING REVERSED COMMA ABOVE
% "<DASIA><AIGUT>"
% "<DASIA><GRAVE>"
% "<DASIA><PERIS>"
% "<DASIA><YPOGE>"
% "<DASIA><AIGUT><YPOGE>"
% "<DASIA><GRAVE><YPOGE>"
% "<DASIA><PERIS><YPOGE>"
collating-symbol<AIGUT>-% COMBINING ACUTE ACCENT
% "<AIGUT><POINT>"
% "<AIGUT><YPOGE>"
collating-symbol<GRAVE>-% COMBINING GRAVE ACCENT
% "<GRAVE><YPOGE>"
collating-symbol<BREVE>-% COMBINING BREVE
% "<BREVE><AIGUT>"
% "<BREVE><GRAVE>"
% "<BREVE><TILDE>"
% "<BREVE><CROOK>"
collating-symbol<CIRCF>-% COMBINING CIRCUMFLEX ACCENT
% "<CIRCF><AIGUT>"
% "<CIRCF><GRAVE>"
% "<CIRCF><TILDE>"
% "<CIRCF><CROOK>"
collating-symbol<CARON>-% COMBINING CARON
% "<CARON><POINT>"
collating-symbol<CRCLC>-% COMBINING RING ABOVE
% "<CRCLC><AIGUT>"
collating-symbol<PERIS>-% COMBINING GREEK PERISPOMENI
% "<PERIS><YPOGE>"
collating-symbol<TREMA>-% COMBINING DIAERESIS
% "<TREMA><MACRO>"

```

% "<TREMA><AIGUT>"
 % "<TREMA><GRAVE>"
 % "<TREMA><CARON>"
 % "<TREMA><TONOS>"
 % "<TREMA><PERIS>"
 collating-symbol <2AIGU> % COMBINING DOUBLE ACUTE ACCENT
 collating-symbol <TILDE> % COMBINING TILDE
 % "<TILDE><AIGUT>"
 % "<TILDE><TREMA>"
 collating-symbol <POINT> % COMBINING DOT ABOVE
 % "<POINT><MACRO>"
 collating-symbol <OBLIK> % COMBINING LONG SOLIDUS OVERLAY
 collating-symbol <CEDIL> % COMBINING CEDILLA
 % "<CEDIL><AIGUT>"
 % "<CEDIL><BREVE>"
 collating-symbol <OGONK> % COMBINING OGONEK
 % "<OGONK><MACRO>"
 collating-symbol <MACRO> % COMBINING MACRON
 % "<MACRO><AIGUT>"
 % "<MACRO><GRAVE>"
 % "<MACRO><TREMA>"
 collating-symbol <OVERLINE> % COMBINING OVERLINE
 collating-symbol <CROOK> % COMBINING HOOK ABOVE
 collating-symbol <TONOS> % COMBINING VERTICAL LINE ABOVE
 collating-symbol <D030E> % COMBINING DOUBLE VERTICAL LINE ABOVE
 collating-symbol <2GRAV> % COMBINING DOUBLE GRAVE ACCENT
 collating-symbol <D0310> % COMBINING CANDRABINDU
 collating-symbol <BREVR> % COMBINING INVERTED BREVE
 collating-symbol <D0312> % COMBINING TURNED COMMA ABOVE
 collating-symbol <D0315> % COMBINING COMMA ABOVE RIGHT
 collating-symbol <D0316> % COMBINING GRAVE ACCENT BELOW
 collating-symbol <D0317> % COMBINING ACUTE ACCENT BELOW
 collating-symbol <D0318> % COMBINING LEFT TACK BELOW
 collating-symbol <D0319> % COMBINING RIGHT TACK BELOW
 collating-symbol <D031A> % COMBINING LEFT ANGLE ABOVE
 collating-symbol <HORNU> % COMBINING HORN
 % "<HORNU><AIGUT>"
 % "<HORNU><GRAVE>"
 % "<HORNU><TILDE>"
 % "<HORNU><CROOK>"
 collating-symbol <D031C> % COMBINING LEFT HALF RING BELOW
 collating-symbol <D031D> % COMBINING UP TACK BELOW
 collating-symbol <D031E> % COMBINING DOWN TACK BELOW
 collating-symbol <D031F> % COMBINING PLUS SIGN BELOW
 collating-symbol <D0320> % COMBINING MINUS SIGN BELOW
 collating-symbol <PALCR> % COMBINING PALATALIZED HOOK BELOW
 collating-symbol <RETCR> % COMBINING RETROFLEX HOOK BELOW
 collating-symbol <POINS> % COMBINING DOT BELOW
 % "<POINS><MACRO>"
 % "<POINS><BREVE>"
 % "<POINS><CIRCE>"
 % "<POINS><POINT>"
 % "<POINS><HORNU>"
 collating-symbol <TREMS> % COMBINING DIAERESIS BELOW
 collating-symbol <CRCLS> % COMBINING RING BELOW
 collating-symbol <COMMS> % COMBINING COMMA BELOW
 collating-symbol <D0329> % COMBINING VERTICAL LINE BELOW
 collating-symbol <D032A> % COMBINING BRIDGE BELOW
 collating-symbol <D032B> % COMBINING INVERTED DOUBLE ARCH BELOW
 collating-symbol <D032C> % COMBINING CARON BELOW
 collating-symbol <CIRCS> % COMBINING CIRCUMFLEX ACCENT BELOW
 collating-symbol <BREVS> % COMBINING BREVE BELOW
 collating-symbol <D032F> % COMBINING INVERTED BREVE BELOW
 collating-symbol <TILDS> % COMBINING TILDE BELOW
 collating-symbol <MACRS> % COMBINING MACRON BELOW
 collating-symbol <D0333> % COMBINING DOUBLE LOW LINE
 collating-symbol <TILDX> % COMBINING TILDE OVERLAY
 collating-symbol <BARRR> % COMBINING SHORT STROKE OVERLAY
 collating-symbol <D0336> % COMBINING LONG STROKE OVERLAY
 collating-symbol <D0337> % COMBINING SHORT SOLIDUS OVERLAY
 collating-symbol <CRCL2> % COMBINING RIGHT HALF RING BELOW
 collating-symbol <D033A> % COMBINING INVERTED BRIDGE BELOW
 collating-symbol <D033B> % COMBINING SQUARE BELOW
 collating-symbol <D033C> % COMBINING SEAGULL BELOW
 collating-symbol <D033D> % COMBINING X ABOVE
 collating-symbol <D033E> % COMBINING VERTICAL TILDE
 collating-symbol <D033F> % COMBINING DOUBLE OVERLINE
 collating-symbol <YPOGE> % COMBINING GREEK YPOGEGRAMMENI
 collating-symbol <D0360> % COMBINING DOUBLE TILDE
 collating-symbol <D0361> % COMBINING DOUBLE INVERTED BREVE
 collating-symbol <DFE20> % COMBINING LIGATURE LEFT HALF
 collating-symbol <DFE21> % COMBINING LIGATURE RIGHT HALF
 collating-symbol <DFE22> % COMBINING DOUBLE TILDE LEFT HALF
 collating-symbol <DFE23> % COMBINING DOUBLE TILDE RIGHT HALF
 collating-symbol <D0483> % COMBINING CYRILLIC TITLO
 collating-symbol <D0484> % COMBINING CYRILLIC PALATALIZATION
 collating-symbol <D0485> % COMBINING CYRILLIC DASIA PNEUMATA

collating-symbol<D0486>-% COMBINING-CYRILLIC-PSILI-PNEUMATA
collating-symbol<SHEVA>-% HEBREW-POINT-SHEVA
collating-symbol<HTFSG>-% HEBREW-POINT-HATAF-SEGOL
collating-symbol<HTFPT>-% HEBREW-POINT-HATAF-PATAH
collating-symbol<HTFQM>-% HEBREW-POINT-HATAF-QAMATS
collating-symbol<HIRIQ>-% HEBREW-POINT-HIRIQ
collating-symbol<TSERE>-% HEBREW-POINT-TSERE
collating-symbol<SEGOL>-% HEBREW-POINT-SEGOL
collating-symbol<PATAH>-% HEBREW-POINT-PATAH
collating-symbol<QAMAT>-% HEBREW-POINT-QAMATS
collating-symbol<HOLAM>-% HEBREW-POINT-HOLAM
collating-symbol<QUBUT>-% HEBREW-POINT-QUBUTS
collating-symbol<DAGES>-% HEBREW-POINT-DAGESH-OR-MAPIQ
%<<DAGES><SHINP>"
%<<DAGES><SINPT>"
collating-symbol<RAPHE>-% HEBREW-POINT-RAFE
collating-symbol<SHINP>-% HEBREW-POINT-SHIN-DOT
collating-symbol<SINPT>-% HEBREW-POINT-SIN-DOT
collating-symbol<VARIKA>-% HEBREW-POINT-JUDEO-SPANISH-VARIKA
collating-symbol<FATHATAN>-% ARABIC-FATHATAN
collating-symbol<DAMMATAN>-% ARABIC-DAMMATAN
%<<DAMMATAN><SHADDA>"
collating-symbol<KASRATAN>-% ARABIC-KASRATAN
%<<KASRATAN><SHADDA>"
collating-symbol<FATHA>-% ARABIC-FATHA
%<<FATHA><SHADDA>"
collating-symbol<DAMMA>-% ARABIC-DAMMA
%<<DAMMA><SHADDA>"
collating-symbol<KASRA>-% ARABIC-KASRA
%<<KASRA><SHADDA>"
collating-symbol<SHADDA>-% ARABIC-SHADDA
%<<SHADDA><SUPERALEF>"
collating-symbol<SUKUN>-% ARABIC-SUKUN
collating-symbol<SUPERALEF>-% ARABIC-LETTER-SUPERSCRIPT-ALEF
collating-symbol<D06D6>-% ARABIC-SMALL-HIGH-LIGATURE-SAD-WITH-LAM-WITH-ALEF-MAKSURA
collating-symbol<D06D7>-% ARABIC-SMALL-HIGH-LIGATURE-QAF-WITH-LAM-WITH-ALEF-MAKSURA
collating-symbol<D06D8>-% ARABIC-SMALL-HIGH-MEEM-INITIAL-FORM
collating-symbol<D06D9>-% ARABIC-SMALL-HIGH-LAM-ALEF
collating-symbol<D06DA>-% ARABIC-SMALL-HIGH-JEEM
collating-symbol<D06DB>-% ARABIC-SMALL-HIGH-THREE-DOTS
collating-symbol<D06DC>-% ARABIC-SMALL-HIGH-SEEN
collating-symbol<D06E1>-% ARABIC-SMALL-HIGH-DOTLESS-HEAD-OF-KHAH
collating-symbol<D06E2>-% ARABIC-SMALL-HIGH-MEEM-ISOLATED-FORM
collating-symbol<D06E3>-% ARABIC-SMALL-LOW-SEEN
collating-symbol<AMADD>-% ARABIC-SMALL-HIGH-MADDA
collating-symbol<D06E7>-% ARABIC-SMALL-HIGH-YEH
collating-symbol<D06E8>-% ARABIC-SMALL-HIGH-NOON
collating-symbol<D06ED>-% ARABIC-SMALL-LOW-MEEM
collating-symbol<D093C>-% DEVANAGARI-SIGN-NUKTA
collating-symbol<D0951>-% DEVANAGARI-STRESS-SIGN-UDATTA
collating-symbol<D0952>-% DEVANAGARI-STRESS-SIGN-ANUDATTA
collating-symbol<D0953>-% DEVANAGARI-GRAVE-ACCENT
collating-symbol<D0954>-% DEVANAGARI-ACUTE-ACCENT
collating-symbol<D09BC>-% BENGALI-SIGN-NUKTA
collating-symbol<D0A3C>-% GURMUKHI-SIGN-NUKTA
collating-symbol<D0ABC>-% GUJARATI-SIGN-NUKTA
collating-symbol<D0B3C>-% ORIYA-SIGN-NUKTA
collating-symbol<D0E48>-% THAI-CHARACTER-MAI-EK
collating-symbol<D0E49>-% THAI-CHARACTER-MAI-THO
collating-symbol<D0E4A>-% THAI-CHARACTER-MAI-TRI
collating-symbol<D0E4B>-% THAI-CHARACTER-MAI-CHATTAWA
collating-symbol<D0EC8>-% LAO-TONE-MAI-EK
collating-symbol<D0EC9>-% LAO-TONE-MAI-THO
collating-symbol<D0ECA>-% LAO-TONE-MAI-TI
collating-symbol<D0ECB>-% LAO-TONE-MAI-CATAWA
collating-symbol<D0F39>-% TIBETAN-MARK-TSA-PHRU
collating-symbol<D302A>-% IDEOGRAPHIC-LEVEL-TONE-MARK
collating-symbol<D302B>-% IDEOGRAPHIC-RISING-TONE-MARK
collating-symbol<D302C>-% IDEOGRAPHIC-DEPARTING-TONE-MARK
collating-symbol<D302D>-% IDEOGRAPHIC-ENTERING-TONE-MARK
collating-symbol<D302E>-% HANGUL-SINGLE-DOT-TONE-MARK
collating-symbol<D302F>-% HANGUL-DOUBLE-DOT-TONE-MARK
collating-symbol<KNVCE>-% COMBINING-KATAKANA-HIRAGANA-VOICED-SOUND-MARK
collating-symbol<KNSMV>-% COMBINING-KATAKANA-HIRAGANA-SEMI-VOICED-SOUND-MARK
collating-symbol<D20D0>-% COMBINING-LEFT-HARPOON-ABOVE
collating-symbol<D20D1>-% COMBINING-RIGHT-HARPOON-ABOVE
collating-symbol<D20D2>-% COMBINING-LONG-VERTICAL-LINE-OVERLAY
collating-symbol<D20D3>-% COMBINING-SHORT-VERTICAL-LINE-OVERLAY
collating-symbol<D20D4>-% COMBINING-ANTICLOCKWISE-ARROW-ABOVE
collating-symbol<D20D5>-% COMBINING-CLOCKWISE-ARROW-ABOVE
collating-symbol<D20D6>-% COMBINING-LEFT-ARROW-ABOVE
collating-symbol<D20D7>-% COMBINING-RIGHT-ARROW-ABOVE
collating-symbol<D20D8>-% COMBINING-RING-OVERLAY
collating-symbol<D20D9>-% COMBINING-CLOCKWISE-RING-OVERLAY
collating-symbol<D20DA>-% COMBINING-ANTICLOCKWISE-RING-OVERLAY
collating-symbol<D20DB>-% COMBINING-THREE-DOTS-ABOVE
collating-symbol<D20DC>-% COMBINING-FOUR-DOTS-ABOVE


```

collating-symbol<D20DD>-% COMBINING ENCLOSING CIRCLE
collating-symbol<D20DE>-% COMBINING ENCLOSING SQUARE
collating-symbol<D20DF>-% COMBINING ENCLOSING DIAMOND
collating-symbol<D20E0>-% COMBINING ENCLOSING CIRCLE BACKSLASH
collating-symbol<D20E1>-% COMBINING LEFT RIGHT ARROW ABOVE
collating-symbol<VRNT1>-% PSEUDO-COMBINING-VARIANT-MARK-1
collating-symbol<VRNT2>-% PSEUDO-COMBINING-VARIANT-MARK-2
% "<VRNT2><POINT>"
collating-symbol<VRNT3>-% PSEUDO-COMBINING-VARIANT-MARK-3
collating-symbol<NEGATIVE>
collating-symbol<SANSERIF>
collating-symbol<NEGSANSERIF>
collating-symbol<ARABIC>
collating-symbol<EXTARABIC>
collating-symbol<NAGAR>
collating-symbol<BENGL>
collating-symbol<BENGALINUMERATOR>
collating-symbol<GURMU>
collating-symbol<GUJAR>
collating-symbol<GRIYA>
collating-symbol<TAMIL>
collating-symbol<TELGU>
collating-symbol<KNNDA>
collating-symbol<MALAY>
collating-symbol<SIHHALA>
collating-symbol<THAI>
collating-symbol<LAAOQ>
collating-symbol<BODKA>
collating-symbol<CJKVS>

```

% First-level collating symbols

```
collating-symbol<S0200>...<S1100>-% Alphabetics & syllabics
```

```
collating-symbol<S4E00>...<S9FA5>-% Symbols for Han
```

```
collating-symbol<SAC00>...<SD7A3>-% Symbols for Hangul
```

```
collating-symbol<SFA0E>...<SFA29>-% Symbols for Compatibility Han
```

```
% order_start <TABLE>:forward;forward;forward;forward,position
```

```
% Decoment the previous order_start line to specify directions for each level.
```

```
%—To tailor for French-accent handling, rather decomment
```

```
%—the next line, as follows:
```

```
% order_start Latin;forward;backward;forward;forward,position
```


% Note that <Special> may be evaluated as exact hex value
%—and not as an autoweighted symbol—

```

<U000> IGNORE;IGNORE;IGNORE;IGNORE % NULL (in 6429)
<U0001> IGNORE;IGNORE;IGNORE;IGNORE % START OF HEADING (in 6429)
<U0002> IGNORE;IGNORE;IGNORE;IGNORE % START OF TEXT (in 6429)
<U0003> IGNORE;IGNORE;IGNORE;IGNORE % END OF TEXT (in 6429)
<U0004> IGNORE;IGNORE;IGNORE;IGNORE % END OF TRANSMISSION (in 6429)
<U0005> IGNORE;IGNORE;IGNORE;IGNORE % ENQUIRY (in 6429)
<U0006> IGNORE;IGNORE;IGNORE;IGNORE % ACKNOWLEDGE (in 6429)
<U0007> IGNORE;IGNORE;IGNORE;IGNORE % BELL (in 6429)
<U0008> IGNORE;IGNORE;IGNORE;IGNORE % BACKSPACE (in 6429)
<U000E> IGNORE;IGNORE;IGNORE;IGNORE % SHIFT OUT (in 6429)
<U000F> IGNORE;IGNORE;IGNORE;IGNORE % SHIFT IN (in 6429)
<U0010> IGNORE;IGNORE;IGNORE;IGNORE % DATA LINK ESCAPE (in 6429)
<U0011> IGNORE;IGNORE;IGNORE;IGNORE % DEVICE CONTROL ONE (in 6429)
<U0012> IGNORE;IGNORE;IGNORE;IGNORE % DEVICE CONTROL TWO (in 6429)
<U0013> IGNORE;IGNORE;IGNORE;IGNORE % DEVICE CONTROL THREE (in 6429)
<U0014> IGNORE;IGNORE;IGNORE;IGNORE % DEVICE CONTROL FOUR (in 6429)
<U0015> IGNORE;IGNORE;IGNORE;IGNORE % NEGATIVE ACKNOWLEDGE (in 6429)
<U0016> IGNORE;IGNORE;IGNORE;IGNORE % SYNCHRONOUS IDLE (in 6429)
<U0017> IGNORE;IGNORE;IGNORE;IGNORE % END OF TRANSMISSION BLOCK (in 6429)
<U0018> IGNORE;IGNORE;IGNORE;IGNORE % CANCEL (in 6429)
<U0019> IGNORE;IGNORE;IGNORE;IGNORE % END OF MEDIUM (in 6429)
<U001A> IGNORE;IGNORE;IGNORE;IGNORE % SUBSTITUTE (in 6429)
<U001B> IGNORE;IGNORE;IGNORE;IGNORE % ESCAPE (in 6429)
<U001C> IGNORE;IGNORE;IGNORE;IGNORE % FILE SEPARATOR (in 6429)
<U001D> IGNORE;IGNORE;IGNORE;IGNORE % GROUP SEPARATOR (in 6429)
<U001E> IGNORE;IGNORE;IGNORE;IGNORE % RECORD SEPARATOR (in 6429)
<U001F> IGNORE;IGNORE;IGNORE;IGNORE % UNIT SEPARATOR (in 6429)
<U007F> IGNORE;IGNORE;IGNORE;IGNORE % DELETE (in 6429)
<U0080> IGNORE;IGNORE;IGNORE;IGNORE % <control>
<U0081> IGNORE;IGNORE;IGNORE;IGNORE % <control>
<U0082> IGNORE;IGNORE;IGNORE;IGNORE % BREAK PERMITTED HERE (in 6429)
<U0083> IGNORE;IGNORE;IGNORE;IGNORE % NO BREAK HERE (in 6429)
<U0084> IGNORE;IGNORE;IGNORE;IGNORE % INDEX (in 6429)
<U0085> IGNORE;IGNORE;IGNORE;IGNORE % NEXT LINE (in 6429)
<U0086> IGNORE;IGNORE;IGNORE;IGNORE % START OF SELECTED AREA (in 6429)
<U0087> IGNORE;IGNORE;IGNORE;IGNORE % END OF SELECTED AREA (in 6429)
<U0088> IGNORE;IGNORE;IGNORE;IGNORE % CHARACTER TABULATION SET (in 6429)
<U0089> IGNORE;IGNORE;IGNORE;IGNORE % CHARACTER TABULATION WITH JUSTIFICATION (in 6429)
<U008A> IGNORE;IGNORE;IGNORE;IGNORE % LINE TABULATION SET (in 6429)
<U008B> IGNORE;IGNORE;IGNORE;IGNORE % PARTIAL LINE DOWN (in 6429)
<U008C> IGNORE;IGNORE;IGNORE;IGNORE % PARTIAL LINE UP (in 6429)
<U008D> IGNORE;IGNORE;IGNORE;IGNORE % PARTIAL LINE FEED (in 6429)
<U008E> IGNORE;IGNORE;IGNORE;IGNORE % SINGLE SHIFT TWO (in 6429)
<U008F> IGNORE;IGNORE;IGNORE;IGNORE % SINGLE SHIFT THREE (in 6429)
<U0090> IGNORE;IGNORE;IGNORE;IGNORE % DEFICE CONTROL STRING (in 6429)
<U0091> IGNORE;IGNORE;IGNORE;IGNORE % PRIVATE USE ONE (in 6429)
<U0092> IGNORE;IGNORE;IGNORE;IGNORE % PRIVATE USE TWO (in 6429)
<U0093> IGNORE;IGNORE;IGNORE;IGNORE % SET TRANSMIT STATE (in 6429)
<U0094> IGNORE;IGNORE;IGNORE;IGNORE % CANCEL CHARACTER (in 6429)
<U0095> IGNORE;IGNORE;IGNORE;IGNORE % MESSAGE WAITING (in 6429)
<U0096> IGNORE;IGNORE;IGNORE;IGNORE % START OF GUARDED AREA (in 6429)
<U0097> IGNORE;IGNORE;IGNORE;IGNORE % END OF GUARDED AREA (in 6429)
<U0098> IGNORE;IGNORE;IGNORE;IGNORE % START OF STRING (in 6429)
<U0099> IGNORE;IGNORE;IGNORE;IGNORE % <control>
<U009A> IGNORE;IGNORE;IGNORE;IGNORE % SINGLE CHARACTER INTRODUCER (in 6429)
<U009B> IGNORE;IGNORE;IGNORE;IGNORE % CONTROL SEQUENCE INTRODUCER (in 6429)
<U009C> IGNORE;IGNORE;IGNORE;IGNORE % STRING TERMINATOR (in 6429)
<U009D> IGNORE;IGNORE;IGNORE;IGNORE % OPERATING SYSTEM COMMAND (in 6429)
<U009E> IGNORE;IGNORE;IGNORE;IGNORE % PRIVACY MESSAGE (in 6429)
<U009F> IGNORE;IGNORE;IGNORE;IGNORE % APPLICATION PROGRAM COMMAND (in 6429)
<U200C> IGNORE;IGNORE;IGNORE;IGNORE % ZERO WIDTH NON JOINER
<U200D> IGNORE;IGNORE;IGNORE;IGNORE % ZERO WIDTH JOINER
<U200E> IGNORE;IGNORE;IGNORE;IGNORE % LEFT TO RIGHT MARK
<U200F> IGNORE;IGNORE;IGNORE;IGNORE % RIGHT TO LEFT MARK
<U202A> IGNORE;IGNORE;IGNORE;IGNORE % LEFT TO RIGHT EMBEDDING
<U202B> IGNORE;IGNORE;IGNORE;IGNORE % RIGHT TO LEFT EMBEDDING
<U202C> IGNORE;IGNORE;IGNORE;IGNORE % POP DIRECTIONAL FORMATTING
<U202D> IGNORE;IGNORE;IGNORE;IGNORE % LEFT TO RIGHT OVERRIDE
<U202E> IGNORE;IGNORE;IGNORE;IGNORE % RIGHT TO LEFT OVERRIDE
<U206A> IGNORE;IGNORE;IGNORE;IGNORE % INHIBIT SYMMETRIC SWAPPING
<U206B> IGNORE;IGNORE;IGNORE;IGNORE % ACTIVATE SYMMETRIC SWAPPING
<U206C> IGNORE;IGNORE;IGNORE;IGNORE % INHIBIT ARABIC FORM SHAPING
<U206D> IGNORE;IGNORE;IGNORE;IGNORE % ACTIVATE ARABIC FORM SHAPING
<U206E> IGNORE;IGNORE;IGNORE;IGNORE % NATIONAL DIGIT SHAPES
<U206F> IGNORE;IGNORE;IGNORE;IGNORE % NOMINAL DIGIT SHAPES
<U0009> IGNORE;IGNORE;IGNORE;<U0009> % HORIZONTAL TABULATION (in 6429)
<U000A> IGNORE;IGNORE;IGNORE;<U000A> % LINE FEED (in 6429)
<U000B> IGNORE;IGNORE;IGNORE;<U000B> % VERTICAL TABULATION (in 6429)
<U000C> IGNORE;IGNORE;IGNORE;<U000C> % FORM FEED (in 6429)
<U000D> IGNORE;IGNORE;IGNORE;<U000D> % CARRIAGE RETURN (in 6429)
<U0020> IGNORE;IGNORE;IGNORE;<U0020> % SPACE
<U0021> IGNORE;IGNORE;IGNORE;<U0021> % EXCLAMATION MARK
<U0022> IGNORE;IGNORE;IGNORE;<U0022> % QUOTATION MARK
<U0023> IGNORE;IGNORE;IGNORE;<U0023> % NUMBER SIGN

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<U0025> IGNORE;IGNORE;IGNORE;<U0025> % PERCENT SIGN
 <U0026> IGNORE;IGNORE;IGNORE;<U0026> % AMPERSAND
 <U0027> IGNORE;IGNORE;IGNORE;<U0027> % APOSTROPHE
 <U0028> IGNORE;IGNORE;IGNORE;<U0028> % LEFT PARENTHESIS
 <U0029> IGNORE;IGNORE;IGNORE;<U0029> % RIGHT PARENTHESIS
 <U002A> IGNORE;IGNORE;IGNORE;<U002A> % ASTERISK
 <U002B> IGNORE;IGNORE;IGNORE;<U002B> % PLUS SIGN
 <U002C> IGNORE;IGNORE;IGNORE;<U002C> % COMMA
 <U002D> IGNORE;IGNORE;IGNORE;<U002D> % HYPHEN-MINUS
 <U002E> IGNORE;IGNORE;IGNORE;<U002E> % FULL STOP
 <U002F> IGNORE;IGNORE;IGNORE;<U002F> % SOLIDUS
 <U003A> IGNORE;IGNORE;IGNORE;<U003A> % COLON
 <U003B> IGNORE;IGNORE;IGNORE;<U003B> % SEMICOLON
 <U003C> IGNORE;IGNORE;IGNORE;<U003C> % LESS THAN SIGN
 <U003D> IGNORE;IGNORE;IGNORE;<U003D> % EQUALS SIGN
 <U003E> IGNORE;IGNORE;IGNORE;<U003E> % GREATER THAN SIGN
 <U003F> IGNORE;IGNORE;IGNORE;<U003F> % QUESTION MARK
 <U0040> IGNORE;IGNORE;IGNORE;<U0040> % COMMERCIAL AT
 <U005B> IGNORE;IGNORE;IGNORE;<U005B> % LEFT SQUARE BRACKET
 <U005C> IGNORE;IGNORE;IGNORE;<U005C> % REVERSE SOLIDUS
 <U005D> IGNORE;IGNORE;IGNORE;<U005D> % RIGHT SQUARE BRACKET
 <U005E> IGNORE;IGNORE;IGNORE;<U005E> % CIRCUMFLEX ACCENT
 <U005F> IGNORE;IGNORE;IGNORE;<U005F> % LOW LINE
 <U0060> IGNORE;IGNORE;IGNORE;<U0060> % GRAVE ACCENT
 <U007B> IGNORE;IGNORE;IGNORE;<U007B> % LEFT CURLY BRACKET
 <U007C> IGNORE;IGNORE;IGNORE;<U007C> % VERTICAL LINE
 <U007D> IGNORE;IGNORE;IGNORE;<U007D> % RIGHT CURLY BRACKET
 <U007E> IGNORE;IGNORE;IGNORE;<U007E> % TILDE
 <U00A0> IGNORE;IGNORE;IGNORE;<U00A0> % NO-BREAK SPACE
 <U00A1> IGNORE;IGNORE;IGNORE;<U00A1> % INVERTED EXCLAMATION MARK
 <U00A6> IGNORE;IGNORE;IGNORE;<U00A6> % BROKEN BAR
 <U00A7> IGNORE;IGNORE;IGNORE;<U00A7> % SECTION SIGN
 <U00A8> IGNORE;IGNORE;IGNORE;<U00A8> % DIAERESIS
 <U00A9> IGNORE;IGNORE;IGNORE;<U00A9> % COPYRIGHT SIGN
 <U00AB> IGNORE;IGNORE;IGNORE;<U00AB> % LEFT-POINTING DOUBLE ANGLE QUOTATION MARK
 <U00AC> IGNORE;IGNORE;IGNORE;<U00AC> % NOT SIGN
 <U00AD> IGNORE;IGNORE;IGNORE;<U00AD> % SOFT HYPHEN
 <U00AE> IGNORE;IGNORE;IGNORE;<U00AE> % REGISTERED SIGN
 <U00AF> IGNORE;IGNORE;IGNORE;<U00AF> % MACRON
 <U00B0> IGNORE;IGNORE;IGNORE;<U00B0> % DEGREE SIGN
 <U00B1> IGNORE;IGNORE;IGNORE;<U00B1> % PLUS-MINUS SIGN
 <U00B4> IGNORE;IGNORE;IGNORE;<U00B4> % ACUTE ACCENT
 <U00B6> IGNORE;IGNORE;IGNORE;<U00B6> % PILCROW SIGN
 <U00B7> IGNORE;IGNORE;IGNORE;<U00B7> % MIDDLE DOT
 <U00B8> IGNORE;IGNORE;IGNORE;<U00B8> % CEDILLA
 <U00BB> IGNORE;IGNORE;IGNORE;<U00BB> % RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK
 <U00BF> IGNORE;IGNORE;IGNORE;<U00BF> % INVERTED QUESTION MARK
 <U00D7> IGNORE;IGNORE;IGNORE;<U00D7> % MULTIPLICATION SIGN
 <U00F7> IGNORE;IGNORE;IGNORE;<U00F7> % DIVISION SIGN
 <U02B9> IGNORE;IGNORE;IGNORE;<U02B9> % MODIFIER LETTER PRIME
 <U02BA> IGNORE;IGNORE;IGNORE;<U02BA> % MODIFIER LETTER DOUBLE PRIME
 <U02C2> IGNORE;IGNORE;IGNORE;<U02C2> % MODIFIER LETTER LEFT ARROWHEAD
 <U02C3> IGNORE;IGNORE;IGNORE;<U02C3> % MODIFIER LETTER RIGHT ARROWHEAD
 <U02C4> IGNORE;IGNORE;IGNORE;<U02C4> % MODIFIER LETTER UP ARROWHEAD
 <U02C5> IGNORE;IGNORE;IGNORE;<U02C5> % MODIFIER LETTER DOWN ARROWHEAD
 <U02C6> IGNORE;IGNORE;IGNORE;<U02C6> % MODIFIER LETTER CIRCUMFLEX ACCENT
 <U02C7> IGNORE;IGNORE;IGNORE;<U02C7> % CARON
 <U02C8> IGNORE;IGNORE;IGNORE;<U02C8> % MODIFIER LETTER VERTICAL LINE
 <U02C9> IGNORE;IGNORE;IGNORE;<U02C9> % MODIFIER LETTER MACRON
 <U02CA> IGNORE;IGNORE;IGNORE;<U02CA> % MODIFIER LETTER ACUTE ACCENT
 <U02CB> IGNORE;IGNORE;IGNORE;<U02CB> % MODIFIER LETTER GRAVE ACCENT
 <U02CC> IGNORE;IGNORE;IGNORE;<U02CC> % MODIFIER LETTER LOW VERTICAL LINE
 <U02CD> IGNORE;IGNORE;IGNORE;<U02CD> % MODIFIER LETTER LOW MACRON
 <U02CE> IGNORE;IGNORE;IGNORE;<U02CE> % MODIFIER LETTER LOW GRAVE ACCENT
 <U02CF> IGNORE;IGNORE;IGNORE;<U02CF> % MODIFIER LETTER LOW ACUTE ACCENT
 <U02D2> IGNORE;IGNORE;IGNORE;<U02D2> % MODIFIER LETTER CENTRED RIGHT HALF RING
 <U02D3> IGNORE;IGNORE;IGNORE;<U02D3> % MODIFIER LETTER CENTRED LEFT HALF RING
 <U02D4> IGNORE;IGNORE;IGNORE;<U02D4> % MODIFIER LETTER UP TACK
 <U02D5> IGNORE;IGNORE;IGNORE;<U02D5> % MODIFIER LETTER DOWN TACK
 <U02D6> IGNORE;IGNORE;IGNORE;<U02D6> % MODIFIER LETTER PLUS SIGN
 <U02D7> IGNORE;IGNORE;IGNORE;<U02D7> % MODIFIER LETTER MINUS SIGN
 <U02D8> IGNORE;IGNORE;IGNORE;<U02D8> % BREVE
 <U02D9> IGNORE;IGNORE;IGNORE;<U02D9> % DOT ABOVE
 <U02DA> IGNORE;IGNORE;IGNORE;<U02DA> % RING ABOVE
 <U02DB> IGNORE;IGNORE;IGNORE;<U02DB> % OGONEK
 <U02DC> IGNORE;IGNORE;IGNORE;<U02DC> % SMALL TILDE
 <U02DD> IGNORE;IGNORE;IGNORE;<U02DD> % DOUBLE ACUTE ACCENT
 <U02DE> IGNORE;IGNORE;IGNORE;<U02DE> % MODIFIER LETTER RHOTIC HOOK
 <U02E5> IGNORE;IGNORE;IGNORE;<U02E5> % MODIFIER LETTER EXTRA-HIGH TONE BAR
 <U02E6> IGNORE;IGNORE;IGNORE;<U02E6> % MODIFIER LETTER HIGH TONE BAR
 <U02E7> IGNORE;IGNORE;IGNORE;<U02E7> % MODIFIER LETTER MID TONE BAR
 <U02E8> IGNORE;IGNORE;IGNORE;<U02E8> % MODIFIER LETTER LOW TONE BAR
 <U02E9> IGNORE;IGNORE;IGNORE;<U02E9> % MODIFIER LETTER EXTRA-LOW TONE BAR
 <U0374> IGNORE;IGNORE;IGNORE;<U0374> % GREEK NUMERAL SIGN
 <U0375> IGNORE;IGNORE;IGNORE;<U0375> % GREEK LOWER NUMERAL SIGN
 <U037A> IGNORE;IGNORE;IGNORE;<U037A> % GREEK YPOGEGRAMMENI
 <U037E> IGNORE;IGNORE;IGNORE;<U037E> % GREEK QUESTION MARK

<U0384> IGNORE;IGNORE;IGNORE;<U0384> % GREEK TONOS
 <U0385> IGNORE;IGNORE;IGNORE;<U0385> % GREEK DIALYTIKA TONOS
 <U0387> IGNORE;IGNORE;IGNORE;<U0387> % GREEK ANO TELEIA
 <U0482> IGNORE;IGNORE;IGNORE;<U0482> % CYRILLIC THOUSANDS SIGN
 <U055A> IGNORE;IGNORE;IGNORE;<U055A> % ARMENIAN APOSTROPHE
 <U055B> IGNORE;IGNORE;IGNORE;<U055B> % ARMENIAN EMPHASIS MARK
 <U055C> IGNORE;IGNORE;IGNORE;<U055C> % ARMENIAN EXCLAMATION MARK
 <U055D> IGNORE;IGNORE;IGNORE;<U055D> % ARMENIAN COMMA
 <U055E> IGNORE;IGNORE;IGNORE;<U055E> % ARMENIAN QUESTION MARK
 <U055F> IGNORE;IGNORE;IGNORE;<U055F> % ARMENIAN ABBREVIATION MARK
 <U0589> IGNORE;IGNORE;IGNORE;<U0589> % ARMENIAN FULL STOP
 <U0591> IGNORE;IGNORE;IGNORE;<U0591> % HEBREW ACCENT ETNAHTA
 <U0592> IGNORE;IGNORE;IGNORE;<U0592> % HEBREW ACCENT SEGOL
 <U0593> IGNORE;IGNORE;IGNORE;<U0593> % HEBREW ACCENT SHALSHELET
 <U0594> IGNORE;IGNORE;IGNORE;<U0594> % HEBREW ACCENT ZAQEF QATAN
 <U0595> IGNORE;IGNORE;IGNORE;<U0595> % HEBREW ACCENT ZAQEF GADOL
 <U0596> IGNORE;IGNORE;IGNORE;<U0596> % HEBREW ACCENT TIPEHA
 <U0597> IGNORE;IGNORE;IGNORE;<U0597> % HEBREW ACCENT REVIA
 <U0598> IGNORE;IGNORE;IGNORE;<U0598> % HEBREW ACCENT ZARQA
 <U0599> IGNORE;IGNORE;IGNORE;<U0599> % HEBREW ACCENT PASHTA
 <U059A> IGNORE;IGNORE;IGNORE;<U059A> % HEBREW ACCENT YETIV
 <U059B> IGNORE;IGNORE;IGNORE;<U059B> % HEBREW ACCENT TEVIR
 <U059C> IGNORE;IGNORE;IGNORE;<U059C> % HEBREW ACCENT GERESH
 <U059D> IGNORE;IGNORE;IGNORE;<U059D> % HEBREW ACCENT GERESH MUQDAM
 <U059E> IGNORE;IGNORE;IGNORE;<U059E> % HEBREW ACCENT GERSHAYIM
 <U059F> IGNORE;IGNORE;IGNORE;<U059F> % HEBREW ACCENT QARNEY PARA
 <U05A0> IGNORE;IGNORE;IGNORE;<U05A0> % HEBREW ACCENT TELISHA GEDOLA
 <U05A1> IGNORE;IGNORE;IGNORE;<U05A1> % HEBREW ACCENT PAZER
 <U05A3> IGNORE;IGNORE;IGNORE;<U05A3> % HEBREW ACCENT MUNAH
 <U05A4> IGNORE;IGNORE;IGNORE;<U05A4> % HEBREW ACCENT MAHAPAKH
 <U05A5> IGNORE;IGNORE;IGNORE;<U05A5> % HEBREW ACCENT MERKHA
 <U05A6> IGNORE;IGNORE;IGNORE;<U05A6> % HEBREW ACCENT MERKHA KEFULA
 <U05A7> IGNORE;IGNORE;IGNORE;<U05A7> % HEBREW ACCENT DARGA
 <U05A8> IGNORE;IGNORE;IGNORE;<U05A8> % HEBREW ACCENT QADMA
 <U05A9> IGNORE;IGNORE;IGNORE;<U05A9> % HEBREW ACCENT TELISHA QETANA
 <U05AA> IGNORE;IGNORE;IGNORE;<U05AA> % HEBREW ACCENT YERAH BEN YOMO
 <U05AB> IGNORE;IGNORE;IGNORE;<U05AB> % HEBREW ACCENT OLE
 <U05AC> IGNORE;IGNORE;IGNORE;<U05AC> % HEBREW ACCENT ILUY
 <U05AD> IGNORE;IGNORE;IGNORE;<U05AD> % HEBREW ACCENT DEHI
 <U05AE> IGNORE;IGNORE;IGNORE;<U05AE> % HEBREW ACCENT ZINOR
 <U05AF> IGNORE;IGNORE;IGNORE;<U05AF> % HEBREW MARK MASORA CIRCLE
 <U05BD> IGNORE;IGNORE;IGNORE;<U05BD> % HEBREW POINT METEG
 <U05BE> IGNORE;IGNORE;IGNORE;<U05BE> % HEBREW PUNCTUATION MAQAF
 <U05C0> IGNORE;IGNORE;IGNORE;<U05C0> % HEBREW PUNCTUATION PASEQ
 <U05C3> IGNORE;IGNORE;IGNORE;<U05C3> % HEBREW PUNCTUATION SOF PASUQ
 <U05C4> IGNORE;IGNORE;IGNORE;<U05C4> % HEBREW MARK UPPER DOT
 <U05F3> IGNORE;IGNORE;IGNORE;<U05F3> % HEBREW PUNCTUATION GERESH
 <U05F4> IGNORE;IGNORE;IGNORE;<U05F4> % HEBREW PUNCTUATION GERSHAYIM
 <U060C> IGNORE;IGNORE;IGNORE;<U060C> % ARABIC COMMA
 <U061B> IGNORE;IGNORE;IGNORE;<U061B> % ARABIC SEMICOLON
 <U061F> IGNORE;IGNORE;IGNORE;<U061F> % ARABIC QUESTION MARK
 <U0640> IGNORE;IGNORE;IGNORE;<U0640> % ARABIC TATWEEL
 <U066A> IGNORE;IGNORE;IGNORE;<U066A> % ARABIC PERCENT SIGN
 <U066B> IGNORE;IGNORE;IGNORE;<U066B> % ARABIC DECIMAL SEPARATOR
 <U066C> IGNORE;IGNORE;IGNORE;<U066C> % ARABIC THOUSANDS SEPARATOR
 <U066D> IGNORE;IGNORE;IGNORE;<U066D> % ARABIC FIVE POINTED STAR
 <U06D4> IGNORE;IGNORE;IGNORE;<U06D4> % ARABIC FULL STOP
 <U06DD> IGNORE;IGNORE;IGNORE;<U06DD> % ARABIC END OF AYAH
 <U06DE> IGNORE;IGNORE;IGNORE;<U06DE> % ARABIC START OF RUB EL HIZB
 <U06DF> IGNORE;IGNORE;IGNORE;<U06DF> % ARABIC SMALL HIGH ROUNDED ZERO
 <U06E0> IGNORE;IGNORE;IGNORE;<U06E0> % ARABIC SMALL HIGH UPRIGHT RECTANGULAR ZERO
 <U06E9> IGNORE;IGNORE;IGNORE;<U06E9> % ARABIC PLACE OF SAJDHAH
 <U06EA> IGNORE;IGNORE;IGNORE;<U06EA> % ARABIC EMPTY CENTRE LOW STOP
 <U06EB> IGNORE;IGNORE;IGNORE;<U06EB> % ARABIC EMPTY CENTRE HIGH STOP
 <U06EC> IGNORE;IGNORE;IGNORE;<U06EC> % ARABIC ROUNDED HIGH STOP WITH FILLED CENTRE
 <U0964> IGNORE;IGNORE;IGNORE;<U0964> % DEVANAGARI DANDA
 <U0965> IGNORE;IGNORE;IGNORE;<U0965> % DEVANAGARI DOUBLE DANDA
 <U0970> IGNORE;IGNORE;IGNORE;<U0970> % DEVANAGARI ABBREVIATION SIGN
 <U09F8> IGNORE;IGNORE;IGNORE;<U09F8> % BENGALI CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
 <U09F9> IGNORE;IGNORE;IGNORE;<U09F9> % BENGALI CURRENCY DENOMINATOR SIXTEEN
 <U09FA> IGNORE;IGNORE;IGNORE;<U09FA> % BENGALI ISSHAR
 <U0B70> IGNORE;IGNORE;IGNORE;<U0B70> % ORIYA ISSHAR
 <U0BF0> IGNORE;IGNORE;IGNORE;<U0BF0> % TAMIL NUMBER TEN
 <U0BF1> IGNORE;IGNORE;IGNORE;<U0BF1> % TAMIL NUMBER ONE HUNDRED
 <U0BF2> IGNORE;IGNORE;IGNORE;<U0BF2> % TAMIL NUMBER ONE THOUSAND
 <U0E4E> IGNORE;IGNORE;IGNORE;<U0E4E> % THAI CHARACTER YAMAKKAN
 <U0E4F> IGNORE;IGNORE;IGNORE;<U0E4F> % THAI CHARACTER FONGMAN
 <U0E5A> IGNORE;IGNORE;IGNORE;<U0E5A> % THAI CHARACTER ANGKHANKHU
 <U0E5B> IGNORE;IGNORE;IGNORE;<U0E5B> % THAI CHARACTER KHOMUT
 <U0F01> IGNORE;IGNORE;IGNORE;<U0F01> % TIBETAN MARK GTER YIG MGO TRUNCATED A
 <U0F02> IGNORE;IGNORE;IGNORE;<U0F02> % TIBETAN MARK GTER YIG MGO -UM RNAM BCAD MA
 <U0F03> IGNORE;IGNORE;IGNORE;<U0F03> % TIBETAN MARK GTER YIG MGO -UM GTER TSHEG MA
 <U0F04> IGNORE;IGNORE;IGNORE;<U0F04> % TIBETAN MARK INITIAL YIG MGO MDUN MA
 <U0F05> IGNORE;IGNORE;IGNORE;<U0F05> % TIBETAN MARK CLOSING YIG MGO SGAB MA
 <U0F06> IGNORE;IGNORE;IGNORE;<U0F06> % TIBETAN MARK CARET YIG MGO PHUR SHAD MA
 <U0F07> IGNORE;IGNORE;IGNORE;<U0F07> % TIBETAN MARK YIG MGO TSHEG SHAD MA
 <U0F08> IGNORE;IGNORE;IGNORE;<U0F08> % TIBETAN MARK SBRUL SHAD

<U0F09> IGNORE;IGNORE;IGNORE;<U0F09> % TIBETAN MARK BSKUR YIG MGO
 <U0F0A> IGNORE;IGNORE;IGNORE;<U0F0A> % TIBETAN MARK BKA SHOG YIG MGO
 <U0F0B> IGNORE;IGNORE;IGNORE;<U0F0B> % TIBETAN MARK INTERSYLLABIC TSHEG
 <U0F0C> IGNORE;IGNORE;IGNORE;<U0F0C> % TIBETAN MARK DELIMITER TSHEG BSTAR
 <U0F0D> IGNORE;IGNORE;IGNORE;<U0F0D> % TIBETAN MARK SHAD
 <U0F0E> IGNORE;IGNORE;IGNORE;<U0F0E> % TIBETAN MARK NYIS SHAD
 <U0F0F> IGNORE;IGNORE;IGNORE;<U0F0F> % TIBETAN MARK TSHEG SHAD
 <U0F10> IGNORE;IGNORE;IGNORE;<U0F10> % TIBETAN MARK NYIS TSHEG SHAD
 <U0F11> IGNORE;IGNORE;IGNORE;<U0F11> % TIBETAN MARK RIN CHEN SPUNGS SHAD
 <U0F12> IGNORE;IGNORE;IGNORE;<U0F12> % TIBETAN MARK RGYA GRAM SHAD
 <U0F13> IGNORE;IGNORE;IGNORE;<U0F13> % TIBETAN MARK CARET DZUD RTAGS ME LONG CAN
 <U0F14> IGNORE;IGNORE;IGNORE;<U0F14> % TIBETAN MARK GTER TSHEG
 <U0F15> IGNORE;IGNORE;IGNORE;<U0F15> % TIBETAN LOGOTYPE SIGN CHAD RTAGS
 <U0F16> IGNORE;IGNORE;IGNORE;<U0F16> % TIBETAN LOGOTYPE SIGN LHAG RTAGS
 <U0F17> IGNORE;IGNORE;IGNORE;<U0F17> % TIBETAN ASTROLOGICAL SIGN SGRA GCAN CHAR RTAGS
 <U0F18> IGNORE;IGNORE;IGNORE;<U0F18> % TIBETAN ASTROLOGICAL SIGN KHYUD PA
 <U0F19> IGNORE;IGNORE;IGNORE;<U0F19> % TIBETAN ASTROLOGICAL SIGN SDONG TSHUGS
 <U0F1A> IGNORE;IGNORE;IGNORE;<U0F1A> % TIBETAN SIGN RDEL DKAR GCIG
 <U0F1B> IGNORE;IGNORE;IGNORE;<U0F1B> % TIBETAN SIGN RDEL DKAR GNYIS
 <U0F1C> IGNORE;IGNORE;IGNORE;<U0F1C> % TIBETAN SIGN RDEL DKAR GSUM
 <U0F1D> IGNORE;IGNORE;IGNORE;<U0F1D> % TIBETAN SIGN RDEL NAG GCIG
 <U0F1E> IGNORE;IGNORE;IGNORE;<U0F1E> % TIBETAN SIGN RDEL NAG GNYIS
 <U0F1F> IGNORE;IGNORE;IGNORE;<U0F1F> % TIBETAN SIGN RDEL DKAR RDEL NAG
 <U0F2A> IGNORE;IGNORE;IGNORE;<U0F2A> % TIBETAN DIGIT HALF ONE
 <U0F2B> IGNORE;IGNORE;IGNORE;<U0F2B> % TIBETAN DIGIT HALF TWO
 <U0F2C> IGNORE;IGNORE;IGNORE;<U0F2C> % TIBETAN DIGIT HALF THREE
 <U0F2D> IGNORE;IGNORE;IGNORE;<U0F2D> % TIBETAN DIGIT HALF FOUR
 <U0F2E> IGNORE;IGNORE;IGNORE;<U0F2E> % TIBETAN DIGIT HALF FIVE
 <U0F2F> IGNORE;IGNORE;IGNORE;<U0F2F> % TIBETAN DIGIT HALF SIX
 <U0F30> IGNORE;IGNORE;IGNORE;<U0F30> % TIBETAN DIGIT HALF SEVEN
 <U0F31> IGNORE;IGNORE;IGNORE;<U0F31> % TIBETAN DIGIT HALF EIGHT
 <U0F32> IGNORE;IGNORE;IGNORE;<U0F32> % TIBETAN DIGIT HALF NINE
 <U0F33> IGNORE;IGNORE;IGNORE;<U0F33> % TIBETAN DIGIT HALF ZERO
 <U0F34> IGNORE;IGNORE;IGNORE;<U0F34> % TIBETAN MARK BSDUS RTAGS
 <U0F35> IGNORE;IGNORE;IGNORE;<U0F35> % TIBETAN MARK NGAS BZUNG NYI ZLA
 <U0F36> IGNORE;IGNORE;IGNORE;<U0F36> % TIBETAN MARK CARET DZUD RTAGS BZHI MIG CAN
 <U0F37> IGNORE;IGNORE;IGNORE;<U0F37> % TIBETAN MARK NGAS BZUNG SCOR RTAGS
 <U0F38> IGNORE;IGNORE;IGNORE;<U0F38> % TIBETAN MARK CHE MGO
 <U0F3A> IGNORE;IGNORE;IGNORE;<U0F3A> % TIBETAN MARK GUG RTAGS GYON
 <U0F3B> IGNORE;IGNORE;IGNORE;<U0F3B> % TIBETAN MARK GUG RTAGS GYAS
 <U0F3C> IGNORE;IGNORE;IGNORE;<U0F3C> % TIBETAN MARK ANG KHANG GYON
 <U0F3D> IGNORE;IGNORE;IGNORE;<U0F3D> % TIBETAN MARK ANG KHANG GYAS
 <U0F3E> IGNORE;IGNORE;IGNORE;<U0F3E> % TIBETAN SIGN YAR TSHES
 <U0F3F> IGNORE;IGNORE;IGNORE;<U0F3F> % TIBETAN SIGN MAR TSHES
 <U0F82> IGNORE;IGNORE;IGNORE;<U0F82> % TIBETAN SIGN NYI ZLA NAA DA
 <U0F83> IGNORE;IGNORE;IGNORE;<U0F83> % TIBETAN SIGN SNA LDAN
 <U0F85> IGNORE;IGNORE;IGNORE;<U0F85> % TIBETAN MARK PALUTA
 <U0F86> IGNORE;IGNORE;IGNORE;<U0F86> % TIBETAN SIGN LCI RTAGS
 <U0F87> IGNORE;IGNORE;IGNORE;<U0F87> % TIBETAN SIGN YANG RTAGS
 <U10FB> IGNORE;IGNORE;IGNORE;<U10FB> % GEORGIAN PARAGRAPH SEPARATOR
 <U1FBD> IGNORE;IGNORE;IGNORE;<U1FBD> % GREEK KORONIS
 <U1FBF> IGNORE;IGNORE;IGNORE;<U1FBF> % GREEK PSILI
 <U1FC0> IGNORE;IGNORE;IGNORE;<U1FC0> % GREEK PERISPOMENI
 <U1FC1> IGNORE;IGNORE;IGNORE;<U1FC1> % GREEK DIALYTIKA AND PERISPOMENI
 <U1FCD> IGNORE;IGNORE;IGNORE;<U1FCD> % GREEK PSILI AND VARIA
 <U1FCE> IGNORE;IGNORE;IGNORE;<U1FCE> % GREEK PSILI AND OXIA
 <U1FCF> IGNORE;IGNORE;IGNORE;<U1FCF> % GREEK PSILI AND PERISPOMENI
 <U1FDD> IGNORE;IGNORE;IGNORE;<U1FDD> % GREEK DASIA AND VARIA
 <U1FDE> IGNORE;IGNORE;IGNORE;<U1FDE> % GREEK DASIA AND OXIA
 <U1FDF> IGNORE;IGNORE;IGNORE;<U1FDF> % GREEK DASIA AND PERISPOMENI
 <U1FED> IGNORE;IGNORE;IGNORE;<U1FED> % GREEK DIALYTIKA AND VARIA
 <U1FEE> IGNORE;IGNORE;IGNORE;<U1FEE> % GREEK DIALYTIKA AND OXIA
 <U1FEF> IGNORE;IGNORE;IGNORE;<U1FEF> % GREEK VARIA
 <U1FFD> IGNORE;IGNORE;IGNORE;<U1FFD> % GREEK OXIA
 <U1FFE> IGNORE;IGNORE;IGNORE;<U1FFE> % GREEK DASIA
 <U2000> IGNORE;IGNORE;IGNORE;<U2000> % EN QUAD
 <U2001> IGNORE;IGNORE;IGNORE;<U2001> % EM QUAD
 <U2002> IGNORE;IGNORE;IGNORE;<U2002> % EN SPACE
 <U2003> IGNORE;IGNORE;IGNORE;<U2003> % EM SPACE
 <U2004> IGNORE;IGNORE;IGNORE;<U2004> % THREE-PER-EM SPACE
 <U2005> IGNORE;IGNORE;IGNORE;<U2005> % FOUR-PER-EM SPACE
 <U2006> IGNORE;IGNORE;IGNORE;<U2006> % SIX-PER-EM SPACE
 <U2007> IGNORE;IGNORE;IGNORE;<U2007> % FIGURE SPACE
 <U2008> IGNORE;IGNORE;IGNORE;<U2008> % PUNCTUATION SPACE
 <U2009> IGNORE;IGNORE;IGNORE;<U2009> % THIN SPACE
 <U200A> IGNORE;IGNORE;IGNORE;<U200A> % HAIR SPACE
 <U200B> IGNORE;IGNORE;IGNORE;<U200B> % ZERO WIDTH SPACE
 <U2010> IGNORE;IGNORE;IGNORE;<U2010> % HYPHEN
 <U2011> IGNORE;IGNORE;IGNORE;<U2011> % NON-BREAKING HYPHEN
 <U2012> IGNORE;IGNORE;IGNORE;<U2012> % FIGURE DASH
 <U2013> IGNORE;IGNORE;IGNORE;<U2013> % EN DASH
 <U2014> IGNORE;IGNORE;IGNORE;<U2014> % EM DASH
 <U2015> IGNORE;IGNORE;IGNORE;<U2015> % HORIZONTAL BAR
 <U2016> IGNORE;IGNORE;IGNORE;<U2016> % DOUBLE VERTICAL LINE
 <U2017> IGNORE;IGNORE;IGNORE;<U2017> % DOUBLE LOW LINE
 <U2018> IGNORE;IGNORE;IGNORE;<U2018> % LEFT SINGLE QUOTATION MARK
 <U2019> IGNORE;IGNORE;IGNORE;<U2019> % RIGHT SINGLE QUOTATION MARK

~~<U201A> IGNORE;IGNORE;IGNORE;<U201A> % SINGLE LOW 9 QUOTATION MARK~~
~~<U201B> IGNORE;IGNORE;IGNORE;<U201B> % SINGLE HIGH REVERSED 9 QUOTATION MARK~~
~~<U201C> IGNORE;IGNORE;IGNORE;<U201C> % LEFT DOUBLE QUOTATION MARK~~
~~<U201D> IGNORE;IGNORE;IGNORE;<U201D> % RIGHT DOUBLE QUOTATION MARK~~
~~<U201E> IGNORE;IGNORE;IGNORE;<U201E> % DOUBLE LOW 9 QUOTATION MARK~~
~~<U201F> IGNORE;IGNORE;IGNORE;<U201F> % DOUBLE HIGH REVERSED 9 QUOTATION MARK~~
~~<U2020> IGNORE;IGNORE;IGNORE;<U2020> % DAGGER~~
~~<U2021> IGNORE;IGNORE;IGNORE;<U2021> % DOUBLE DAGGER~~
~~<U2022> IGNORE;IGNORE;IGNORE;<U2022> % BULLET~~
~~<U2023> IGNORE;IGNORE;IGNORE;<U2023> % TRIANGULAR BULLET~~
~~<U2024> IGNORE;IGNORE;IGNORE;<U2024> % ONE DOT LEADER~~
~~<U2025> IGNORE;IGNORE;IGNORE;<U2025> % TWO DOT LEADER~~
~~<U2026> IGNORE;IGNORE;IGNORE;<U2026> % HORIZONTAL ELLIPSIS~~
~~<U2027> IGNORE;IGNORE;IGNORE;<U2027> % HYPHENATION POINT~~
~~<U2028> IGNORE;IGNORE;IGNORE;<U2028> % LINE SEPARATOR~~
~~<U2029> IGNORE;IGNORE;IGNORE;<U2029> % PARAGRAPH SEPARATOR~~
~~<U2030> IGNORE;IGNORE;IGNORE;<U2030> % PER MILLE SIGN~~
~~<U2031> IGNORE;IGNORE;IGNORE;<U2031> % PER TEN THOUSAND SIGN~~
~~<U2032> IGNORE;IGNORE;IGNORE;<U2032> % PRIME~~
~~<U2033> IGNORE;IGNORE;IGNORE;<U2033> % DOUBLE PRIME~~
~~<U2034> IGNORE;IGNORE;IGNORE;<U2034> % TRIPLE PRIME~~
~~<U2035> IGNORE;IGNORE;IGNORE;<U2035> % REVERSED PRIME~~
~~<U2036> IGNORE;IGNORE;IGNORE;<U2036> % REVERSED DOUBLE PRIME~~
~~<U2037> IGNORE;IGNORE;IGNORE;<U2037> % REVERSED TRIPLE PRIME~~
~~<U2038> IGNORE;IGNORE;IGNORE;<U2038> % CARET~~
~~<U2039> IGNORE;IGNORE;IGNORE;<U2039> % SINGLE LEFT POINTING ANGLE QUOTATION MARK~~
~~<U203A> IGNORE;IGNORE;IGNORE;<U203A> % SINGLE RIGHT POINTING ANGLE QUOTATION MARK~~
~~<U203B> IGNORE;IGNORE;IGNORE;<U203B> % REFERENCE MARK~~
~~<U203C> IGNORE;IGNORE;IGNORE;<U203C> % DOUBLE EXCLAMATION MARK~~
~~<U203D> IGNORE;IGNORE;IGNORE;<U203D> % INTERROBANG~~
~~<U203E> IGNORE;IGNORE;IGNORE;<U203E> % OVERLINE~~
~~<U203F> IGNORE;IGNORE;IGNORE;<U203F> % UNDERTIE~~
~~<U2040> IGNORE;IGNORE;IGNORE;<U2040> % CHARACTER TIE~~
~~<U2041> IGNORE;IGNORE;IGNORE;<U2041> % CARET INSERTION POINT~~
~~<U2042> IGNORE;IGNORE;IGNORE;<U2042> % ASTERISM~~
~~<U2043> IGNORE;IGNORE;IGNORE;<U2043> % HYPHEN BULLET~~
~~<U2044> IGNORE;IGNORE;IGNORE;<U2044> % FRACTION SLASH~~
~~<U2045> IGNORE;IGNORE;IGNORE;<U2045> % LEFT SQUARE BRACKET WITH QUILL~~
~~<U2046> IGNORE;IGNORE;IGNORE;<U2046> % RIGHT SQUARE BRACKET WITH QUILL~~
~~<U207A> IGNORE;IGNORE;IGNORE;<U207A> % SUPERSCRIPT PLUS SIGN~~
~~<U207B> IGNORE;IGNORE;IGNORE;<U207B> % SUPERSCRIPT MINUS~~
~~<U207C> IGNORE;IGNORE;IGNORE;<U207C> % SUPERSCRIPT EQUALS SIGN~~
~~<U207D> IGNORE;IGNORE;IGNORE;<U207D> % SUPERSCRIPT LEFT PARENTHESIS~~
~~<U207E> IGNORE;IGNORE;IGNORE;<U207E> % SUPERSCRIPT RIGHT PARENTHESIS~~
~~<U208A> IGNORE;IGNORE;IGNORE;<U208A> % SUBSCRIPT PLUS SIGN~~
~~<U208B> IGNORE;IGNORE;IGNORE;<U208B> % SUBSCRIPT MINUS~~
~~<U208C> IGNORE;IGNORE;IGNORE;<U208C> % SUBSCRIPT EQUALS SIGN~~
~~<U208D> IGNORE;IGNORE;IGNORE;<U208D> % SUBSCRIPT LEFT PARENTHESIS~~
~~<U208E> IGNORE;IGNORE;IGNORE;<U208E> % SUBSCRIPT RIGHT PARENTHESIS~~
~~<U2190> IGNORE;IGNORE;IGNORE;<U2190> % LEFTWARDS ARROW~~
~~<U2191> IGNORE;IGNORE;IGNORE;<U2191> % UPWARDS ARROW~~
~~<U2192> IGNORE;IGNORE;IGNORE;<U2192> % RIGHTWARDS ARROW~~
~~<U2193> IGNORE;IGNORE;IGNORE;<U2193> % DOWNWARDS ARROW~~
~~<U2194> IGNORE;IGNORE;IGNORE;<U2194> % LEFT RIGHT ARROW~~
~~<U2195> IGNORE;IGNORE;IGNORE;<U2195> % UP DOWN ARROW~~
~~<U2196> IGNORE;IGNORE;IGNORE;<U2196> % NORTH WEST ARROW~~
~~<U2197> IGNORE;IGNORE;IGNORE;<U2197> % NORTH EAST ARROW~~
~~<U2198> IGNORE;IGNORE;IGNORE;<U2198> % SOUTH EAST ARROW~~
~~<U2199> IGNORE;IGNORE;IGNORE;<U2199> % SOUTH WEST ARROW~~
~~<U219A> IGNORE;IGNORE;IGNORE;<U219A> % LEFTWARDS ARROW WITH STROKE~~
~~<U219B> IGNORE;IGNORE;IGNORE;<U219B> % RIGHTWARDS ARROW WITH STROKE~~
~~<U219C> IGNORE;IGNORE;IGNORE;<U219C> % LEFTWARDS WAVE ARROW~~
~~<U219D> IGNORE;IGNORE;IGNORE;<U219D> % RIGHTWARDS WAVE ARROW~~
~~<U219E> IGNORE;IGNORE;IGNORE;<U219E> % LEFTWARDS TWO HEADED ARROW~~
~~<U219F> IGNORE;IGNORE;IGNORE;<U219F> % UPWARDS TWO HEADED ARROW~~
~~<U21A0> IGNORE;IGNORE;IGNORE;<U21A0> % RIGHTWARDS TWO HEADED ARROW~~
~~<U21A1> IGNORE;IGNORE;IGNORE;<U21A1> % DOWNWARDS TWO HEADED ARROW~~
~~<U21A2> IGNORE;IGNORE;IGNORE;<U21A2> % LEFTWARDS ARROW WITH TAIL~~
~~<U21A3> IGNORE;IGNORE;IGNORE;<U21A3> % RIGHTWARDS ARROW WITH TAIL~~
~~<U21A4> IGNORE;IGNORE;IGNORE;<U21A4> % LEFTWARDS ARROW FROM BAR~~
~~<U21A5> IGNORE;IGNORE;IGNORE;<U21A5> % UPWARDS ARROW FROM BAR~~
~~<U21A6> IGNORE;IGNORE;IGNORE;<U21A6> % RIGHTWARDS ARROW FROM BAR~~
~~<U21A7> IGNORE;IGNORE;IGNORE;<U21A7> % DOWNWARDS ARROW FROM BAR~~
~~<U21A8> IGNORE;IGNORE;IGNORE;<U21A8> % UP DOWN ARROW WITH BASE~~
~~<U21A9> IGNORE;IGNORE;IGNORE;<U21A9> % LEFTWARDS ARROW WITH HOOK~~
~~<U21AA> IGNORE;IGNORE;IGNORE;<U21AA> % RIGHTWARDS ARROW WITH HOOK~~
~~<U21AB> IGNORE;IGNORE;IGNORE;<U21AB> % LEFTWARDS ARROW WITH LOOP~~
~~<U21AC> IGNORE;IGNORE;IGNORE;<U21AC> % RIGHTWARDS ARROW WITH LOOP~~
~~<U21AD> IGNORE;IGNORE;IGNORE;<U21AD> % LEFT RIGHT WAVE ARROW~~
~~<U21AE> IGNORE;IGNORE;IGNORE;<U21AE> % LEFT RIGHT ARROW WITH STROKE~~
~~<U21AF> IGNORE;IGNORE;IGNORE;<U21AF> % DOWNWARDS ZIGZAG ARROW~~
~~<U21B0> IGNORE;IGNORE;IGNORE;<U21B0> % UPWARDS ARROW WITH TIP LEFTWARDS~~
~~<U21B1> IGNORE;IGNORE;IGNORE;<U21B1> % UPWARDS ARROW WITH TIP RIGHTWARDS~~
~~<U21B2> IGNORE;IGNORE;IGNORE;<U21B2> % DOWNWARDS ARROW WITH TIP LEFTWARDS~~
~~<U21B3> IGNORE;IGNORE;IGNORE;<U21B3> % DOWNWARDS ARROW WITH TIP RIGHTWARDS~~
~~<U21B4> IGNORE;IGNORE;IGNORE;<U21B4> % RIGHTWARDS ARROW WITH CORNER DOWNWARDS~~
~~<U21B5> IGNORE;IGNORE;IGNORE;<U21B5> % DOWNWARDS ARROW WITH CORNER LEFTWARDS~~

<U21B6> IGNORE;IGNORE;IGNORE;<U21B6> % ANTICLOCKWISE TOP SEMICIRCLE ARROW
 <U21B7> IGNORE;IGNORE;IGNORE;<U21B7> % CLOCKWISE TOP SEMICIRCLE ARROW
 <U21B8> IGNORE;IGNORE;IGNORE;<U21B8> % NORTH WEST ARROW TO LONG BAR
 <U21B9> IGNORE;IGNORE;IGNORE;<U21B9> % LEFTWARDS ARROW TO BAR OVER RIGHTWARDS ARROW TO BAR
 <U21BA> IGNORE;IGNORE;IGNORE;<U21BA> % ANTICLOCKWISE OPEN CIRCLE ARROW
 <U21BB> IGNORE;IGNORE;IGNORE;<U21BB> % CLOCKWISE OPEN CIRCLE ARROW
 <U21BC> IGNORE;IGNORE;IGNORE;<U21BC> % LEFTWARDS HARPOON WITH BARB UPWARDS
 <U21BD> IGNORE;IGNORE;IGNORE;<U21BD> % LEFTWARDS HARPOON WITH BARB DOWNWARDS
 <U21BE> IGNORE;IGNORE;IGNORE;<U21BE> % UPWARDS HARPOON WITH BARB RIGHTWARDS
 <U21BF> IGNORE;IGNORE;IGNORE;<U21BF> % UPWARDS HARPOON WITH BARB LEFTWARDS
 <U21C0> IGNORE;IGNORE;IGNORE;<U21C0> % RIGHTWARDS HARPOON WITH BARB UPWARDS
 <U21C1> IGNORE;IGNORE;IGNORE;<U21C1> % RIGHTWARDS HARPOON WITH BARB DOWNWARDS
 <U21C2> IGNORE;IGNORE;IGNORE;<U21C2> % DOWNWARDS HARPOON WITH BARB RIGHTWARDS
 <U21C3> IGNORE;IGNORE;IGNORE;<U21C3> % DOWNWARDS HARPOON WITH BARB LEFTWARDS
 <U21C4> IGNORE;IGNORE;IGNORE;<U21C4> % RIGHTWARDS ARROW OVER LEFTWARDS ARROW
 <U21C5> IGNORE;IGNORE;IGNORE;<U21C5> % UPWARDS ARROW LEFTWARDS OF DOWNWARDS ARROW
 <U21C6> IGNORE;IGNORE;IGNORE;<U21C6> % LEFTWARDS ARROW OVER RIGHTWARDS ARROW
 <U21C7> IGNORE;IGNORE;IGNORE;<U21C7> % LEFTWARDS PAIRED ARROWS
 <U21C8> IGNORE;IGNORE;IGNORE;<U21C8> % UPWARDS PAIRED ARROWS
 <U21C9> IGNORE;IGNORE;IGNORE;<U21C9> % RIGHTWARDS PAIRED ARROWS
 <U21CA> IGNORE;IGNORE;IGNORE;<U21CA> % DOWNWARDS PAIRED ARROWS
 <U21CB> IGNORE;IGNORE;IGNORE;<U21CB> % LEFTWARDS HARPOON OVER RIGHTWARDS HARPOON
 <U21CC> IGNORE;IGNORE;IGNORE;<U21CC> % RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON
 <U21CD> IGNORE;IGNORE;IGNORE;<U21CD> % LEFTWARDS DOUBLE ARROW WITH STROKE
 <U21CE> IGNORE;IGNORE;IGNORE;<U21CE> % LEFT RIGHT DOUBLE ARROW WITH STROKE
 <U21CF> IGNORE;IGNORE;IGNORE;<U21CF> % RIGHTWARDS DOUBLE ARROW WITH STROKE
 <U21D0> IGNORE;IGNORE;IGNORE;<U21D0> % LEFTWARDS DOUBLE ARROW
 <U21D1> IGNORE;IGNORE;IGNORE;<U21D1> % UPWARDS DOUBLE ARROW
 <U21D2> IGNORE;IGNORE;IGNORE;<U21D2> % RIGHTWARDS DOUBLE ARROW
 <U21D3> IGNORE;IGNORE;IGNORE;<U21D3> % DOWNWARDS DOUBLE ARROW
 <U21D4> IGNORE;IGNORE;IGNORE;<U21D4> % LEFT RIGHT DOUBLE ARROW
 <U21D5> IGNORE;IGNORE;IGNORE;<U21D5> % UP DOWN DOUBLE ARROW
 <U21D6> IGNORE;IGNORE;IGNORE;<U21D6> % NORTH WEST DOUBLE ARROW
 <U21D7> IGNORE;IGNORE;IGNORE;<U21D7> % NORTH EAST DOUBLE ARROW
 <U21D8> IGNORE;IGNORE;IGNORE;<U21D8> % SOUTH EAST DOUBLE ARROW
 <U21D9> IGNORE;IGNORE;IGNORE;<U21D9> % SOUTH WEST DOUBLE ARROW
 <U21DA> IGNORE;IGNORE;IGNORE;<U21DA> % LEFTWARDS TRIPLE ARROW
 <U21DB> IGNORE;IGNORE;IGNORE;<U21DB> % RIGHTWARDS TRIPLE ARROW
 <U21DC> IGNORE;IGNORE;IGNORE;<U21DC> % LEFTWARDS SQUIGGLE ARROW
 <U21DD> IGNORE;IGNORE;IGNORE;<U21DD> % RIGHTWARDS SQUIGGLE ARROW
 <U21DE> IGNORE;IGNORE;IGNORE;<U21DE> % UPWARDS ARROW WITH DOUBLE STROKE
 <U21DF> IGNORE;IGNORE;IGNORE;<U21DF> % DOWNWARDS ARROW WITH DOUBLE STROKE
 <U21E0> IGNORE;IGNORE;IGNORE;<U21E0> % LEFTWARDS DASHED ARROW
 <U21E1> IGNORE;IGNORE;IGNORE;<U21E1> % UPWARDS DASHED ARROW
 <U21E2> IGNORE;IGNORE;IGNORE;<U21E2> % RIGHTWARDS DASHED ARROW
 <U21E3> IGNORE;IGNORE;IGNORE;<U21E3> % DOWNWARDS DASHED ARROW
 <U21E4> IGNORE;IGNORE;IGNORE;<U21E4> % LEFTWARDS ARROW TO BAR
 <U21E5> IGNORE;IGNORE;IGNORE;<U21E5> % RIGHTWARDS ARROW TO BAR
 <U21E6> IGNORE;IGNORE;IGNORE;<U21E6> % LEFTWARDS WHITE ARROW
 <U21E7> IGNORE;IGNORE;IGNORE;<U21E7> % UPWARDS WHITE ARROW
 <U21E8> IGNORE;IGNORE;IGNORE;<U21E8> % RIGHTWARDS WHITE ARROW
 <U21E9> IGNORE;IGNORE;IGNORE;<U21E9> % DOWNWARDS WHITE ARROW
 <U21EA> IGNORE;IGNORE;IGNORE;<U21EA> % UPWARDS WHITE ARROW FROM BAR
 <U2200> IGNORE;IGNORE;IGNORE;<U2200> % FOR ALL
 <U2201> IGNORE;IGNORE;IGNORE;<U2201> % COMPLEMENT
 <U2202> IGNORE;IGNORE;IGNORE;<U2202> % PARTIAL DIFFERENTIAL
 <U2203> IGNORE;IGNORE;IGNORE;<U2203> % THERE EXISTS
 <U2204> IGNORE;IGNORE;IGNORE;<U2204> % THERE DOES NOT EXIST
 <U2205> IGNORE;IGNORE;IGNORE;<U2205> % EMPTY SET
 <U2206> IGNORE;IGNORE;IGNORE;<U2206> % INCREMENT
 <U2207> IGNORE;IGNORE;IGNORE;<U2207> % NABLA
 <U2208> IGNORE;IGNORE;IGNORE;<U2208> % ELEMENT OF
 <U2209> IGNORE;IGNORE;IGNORE;<U2209> % NOT AN ELEMENT OF
 <U220A> IGNORE;IGNORE;IGNORE;<U220A> % SMALL ELEMENT OF
 <U220B> IGNORE;IGNORE;IGNORE;<U220B> % CONTAINS AS MEMBER
 <U220C> IGNORE;IGNORE;IGNORE;<U220C> % DOES NOT CONTAIN AS MEMBER
 <U220D> IGNORE;IGNORE;IGNORE;<U220D> % SMALL CONTAINS AS MEMBER
 <U220E> IGNORE;IGNORE;IGNORE;<U220E> % END OF PROOF
 <U220F> IGNORE;IGNORE;IGNORE;<U220F> % N-ARY PRODUCT
 <U2210> IGNORE;IGNORE;IGNORE;<U2210> % N-ARY COPRODUCT
 <U2211> IGNORE;IGNORE;IGNORE;<U2211> % N-ARY SUMMATION
 <U2212> IGNORE;IGNORE;IGNORE;<U2212> % MINUS SIGN
 <U2213> IGNORE;IGNORE;IGNORE;<U2213> % MINUS OR PLUS SIGN
 <U2214> IGNORE;IGNORE;IGNORE;<U2214> % DOT PLUS
 <U2215> IGNORE;IGNORE;IGNORE;<U2215> % DIVISION SLASH
 <U2216> IGNORE;IGNORE;IGNORE;<U2216> % SET MINUS
 <U2217> IGNORE;IGNORE;IGNORE;<U2217> % ASTERISK OPERATOR
 <U2218> IGNORE;IGNORE;IGNORE;<U2218> % RING OPERATOR
 <U2219> IGNORE;IGNORE;IGNORE;<U2219> % BULLET OPERATOR
 <U221A> IGNORE;IGNORE;IGNORE;<U221A> % SQUARE ROOT
 <U221B> IGNORE;IGNORE;IGNORE;<U221B> % CUBE ROOT
 <U221C> IGNORE;IGNORE;IGNORE;<U221C> % FOURTH ROOT
 <U221D> IGNORE;IGNORE;IGNORE;<U221D> % PROPORTIONAL TO
 <U221E> IGNORE;IGNORE;IGNORE;<U221E> % INFINITY
 <U221F> IGNORE;IGNORE;IGNORE;<U221F> % RIGHT ANGLE
 <U2220> IGNORE;IGNORE;IGNORE;<U2220> % ANGLE
 <U2221> IGNORE;IGNORE;IGNORE;<U2221> % MEASURED ANGLE

<U2222> IGNORE;IGNORE;IGNORE;<U2222> % SPHERICAL ANGLE
 <U2223> IGNORE;IGNORE;IGNORE;<U2223> % DIVIDES
 <U2224> IGNORE;IGNORE;IGNORE;<U2224> % DOES NOT DIVIDE
 <U2225> IGNORE;IGNORE;IGNORE;<U2225> % PARALLEL TO
 <U2226> IGNORE;IGNORE;IGNORE;<U2226> % NOT PARALLEL TO
 <U2227> IGNORE;IGNORE;IGNORE;<U2227> % LOGICAL AND
 <U2228> IGNORE;IGNORE;IGNORE;<U2228> % LOGICAL OR
 <U2229> IGNORE;IGNORE;IGNORE;<U2229> % INTERSECTION
 <U222A> IGNORE;IGNORE;IGNORE;<U222A> % UNION
 <U222B> IGNORE;IGNORE;IGNORE;<U222B> % INTEGRAL
 <U222C> IGNORE;IGNORE;IGNORE;<U222C> % DOUBLE INTEGRAL
 <U222D> IGNORE;IGNORE;IGNORE;<U222D> % TRIPLE INTEGRAL
 <U222E> IGNORE;IGNORE;IGNORE;<U222E> % CONTOUR INTEGRAL
 <U222F> IGNORE;IGNORE;IGNORE;<U222F> % SURFACE INTEGRAL
 <U2230> IGNORE;IGNORE;IGNORE;<U2230> % VOLUME INTEGRAL
 <U2231> IGNORE;IGNORE;IGNORE;<U2231> % CLOCKWISE INTEGRAL
 <U2232> IGNORE;IGNORE;IGNORE;<U2232> % CLOCKWISE CONTOUR INTEGRAL
 <U2233> IGNORE;IGNORE;IGNORE;<U2233> % ANTICLOCKWISE CONTOUR INTEGRAL
 <U2234> IGNORE;IGNORE;IGNORE;<U2234> % THEREFORE
 <U2235> IGNORE;IGNORE;IGNORE;<U2235> % BECAUSE
 <U2236> IGNORE;IGNORE;IGNORE;<U2236> % RATIO
 <U2237> IGNORE;IGNORE;IGNORE;<U2237> % PROPORTION
 <U2238> IGNORE;IGNORE;IGNORE;<U2238> % DOT MINUS
 <U2239> IGNORE;IGNORE;IGNORE;<U2239> % EXCESS
 <U223A> IGNORE;IGNORE;IGNORE;<U223A> % GEOMETRIC PROPORTION
 <U223B> IGNORE;IGNORE;IGNORE;<U223B> % HOMOTHETIC
 <U223C> IGNORE;IGNORE;IGNORE;<U223C> % TILDE OPERATOR
 <U223D> IGNORE;IGNORE;IGNORE;<U223D> % REVERSED TILDE
 <U223E> IGNORE;IGNORE;IGNORE;<U223E> % INVERTED LAZY S
 <U223F> IGNORE;IGNORE;IGNORE;<U223F> % SINE WAVE
 <U2240> IGNORE;IGNORE;IGNORE;<U2240> % WREATH PRODUCT
 <U2241> IGNORE;IGNORE;IGNORE;<U2241> % NOT TILDE
 <U2242> IGNORE;IGNORE;IGNORE;<U2242> % MINUS TILDE
 <U2243> IGNORE;IGNORE;IGNORE;<U2243> % ASYMPTOTICALLY EQUAL TO
 <U2244> IGNORE;IGNORE;IGNORE;<U2244> % NOT ASYMPTOTICALLY EQUAL TO
 <U2245> IGNORE;IGNORE;IGNORE;<U2245> % APPROXIMATELY EQUAL TO
 <U2246> IGNORE;IGNORE;IGNORE;<U2246> % APPROXIMATELY BUT NOT ACTUALLY EQUAL TO
 <U2247> IGNORE;IGNORE;IGNORE;<U2247> % NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO
 <U2248> IGNORE;IGNORE;IGNORE;<U2248> % ALMOST EQUAL TO
 <U2249> IGNORE;IGNORE;IGNORE;<U2249> % NOT ALMOST EQUAL TO
 <U224A> IGNORE;IGNORE;IGNORE;<U224A> % ALMOST EQUAL OR EQUAL TO
 <U224B> IGNORE;IGNORE;IGNORE;<U224B> % TRIPLE TILDE
 <U224C> IGNORE;IGNORE;IGNORE;<U224C> % ALL EQUAL TO
 <U224D> IGNORE;IGNORE;IGNORE;<U224D> % EQUIVALENT TO
 <U224E> IGNORE;IGNORE;IGNORE;<U224E> % GEOMETRICALLY EQUIVALENT TO
 <U224F> IGNORE;IGNORE;IGNORE;<U224F> % DIFFERENCE BETWEEN
 <U2250> IGNORE;IGNORE;IGNORE;<U2250> % APPROACHES THE LIMIT
 <U2251> IGNORE;IGNORE;IGNORE;<U2251> % GEOMETRICALLY EQUAL TO
 <U2252> IGNORE;IGNORE;IGNORE;<U2252> % APPROXIMATELY EQUAL TO OR THE IMAGE OF
 <U2253> IGNORE;IGNORE;IGNORE;<U2253> % IMAGE OF OR APPROXIMATELY EQUAL TO
 <U2254> IGNORE;IGNORE;IGNORE;<U2254> % COLON EQUALS
 <U2255> IGNORE;IGNORE;IGNORE;<U2255> % EQUALS COLON
 <U2256> IGNORE;IGNORE;IGNORE;<U2256> % RING IN EQUAL TO
 <U2257> IGNORE;IGNORE;IGNORE;<U2257> % RING EQUAL TO
 <U2258> IGNORE;IGNORE;IGNORE;<U2258> % CORRESPONDS TO
 <U2259> IGNORE;IGNORE;IGNORE;<U2259> % ESTIMATES
 <U225A> IGNORE;IGNORE;IGNORE;<U225A> % EQUIANGULAR TO
 <U225B> IGNORE;IGNORE;IGNORE;<U225B> % STAR EQUALS
 <U225C> IGNORE;IGNORE;IGNORE;<U225C> % DELTA EQUAL TO
 <U225D> IGNORE;IGNORE;IGNORE;<U225D> % EQUAL TO BY DEFINITION
 <U225E> IGNORE;IGNORE;IGNORE;<U225E> % MEASURED BY
 <U225F> IGNORE;IGNORE;IGNORE;<U225F> % QUESTIONED EQUAL TO
 <U2260> IGNORE;IGNORE;IGNORE;<U2260> % NOT EQUAL TO
 <U2261> IGNORE;IGNORE;IGNORE;<U2261> % IDENTICAL TO
 <U2262> IGNORE;IGNORE;IGNORE;<U2262> % NOT IDENTICAL TO
 <U2263> IGNORE;IGNORE;IGNORE;<U2263> % STRICTLY EQUIVALENT TO
 <U2264> IGNORE;IGNORE;IGNORE;<U2264> % LESS THAN OR EQUAL TO
 <U2265> IGNORE;IGNORE;IGNORE;<U2265> % GREATER THAN OR EQUAL TO
 <U2266> IGNORE;IGNORE;IGNORE;<U2266> % LESS THAN OVER EQUAL TO
 <U2267> IGNORE;IGNORE;IGNORE;<U2267> % GREATER THAN OVER EQUAL TO
 <U2268> IGNORE;IGNORE;IGNORE;<U2268> % LESS THAN BUT NOT EQUAL TO
 <U2269> IGNORE;IGNORE;IGNORE;<U2269> % GREATER THAN BUT NOT EQUAL TO
 <U226A> IGNORE;IGNORE;IGNORE;<U226A> % MUCH LESS THAN
 <U226B> IGNORE;IGNORE;IGNORE;<U226B> % MUCH GREATER THAN
 <U226C> IGNORE;IGNORE;IGNORE;<U226C> % BETWEEN
 <U226D> IGNORE;IGNORE;IGNORE;<U226D> % NOT EQUIVALENT TO
 <U226E> IGNORE;IGNORE;IGNORE;<U226E> % NOT LESS THAN
 <U226F> IGNORE;IGNORE;IGNORE;<U226F> % NOT GREATER THAN
 <U2270> IGNORE;IGNORE;IGNORE;<U2270> % NEITHER LESS THAN NOR EQUAL TO
 <U2271> IGNORE;IGNORE;IGNORE;<U2271> % NEITHER GREATER THAN NOR EQUAL TO
 <U2272> IGNORE;IGNORE;IGNORE;<U2272> % LESS THAN OR EQUIVALENT TO
 <U2273> IGNORE;IGNORE;IGNORE;<U2273> % GREATER THAN OR EQUIVALENT TO
 <U2274> IGNORE;IGNORE;IGNORE;<U2274> % NEITHER LESS THAN NOR EQUIVALENT TO
 <U2275> IGNORE;IGNORE;IGNORE;<U2275> % NEITHER GREATER THAN NOR EQUIVALENT TO
 <U2276> IGNORE;IGNORE;IGNORE;<U2276> % LESS THAN OR GREATER THAN
 <U2277> IGNORE;IGNORE;IGNORE;<U2277> % GREATER THAN OR LESS THAN
 <U2278> IGNORE;IGNORE;IGNORE;<U2278> % NEITHER LESS THAN NOR GREATER THAN

<U2279> IGNORE;IGNORE;IGNORE;<U2279> % NEITHER GREATER THAN NOR LESS THAN
 <U227A> IGNORE;IGNORE;IGNORE;<U227A> % PRECEDES
 <U227B> IGNORE;IGNORE;IGNORE;<U227B> % SUCCEEDS
 <U227C> IGNORE;IGNORE;IGNORE;<U227C> % PRECEDES OR EQUAL TO
 <U227D> IGNORE;IGNORE;IGNORE;<U227D> % SUCCEEDS OR EQUAL TO
 <U227E> IGNORE;IGNORE;IGNORE;<U227E> % PRECEDES OR EQUIVALENT TO
 <U227F> IGNORE;IGNORE;IGNORE;<U227F> % SUCCEEDS OR EQUIVALENT TO
 <U2280> IGNORE;IGNORE;IGNORE;<U2280> % DOES NOT PRECEDE
 <U2281> IGNORE;IGNORE;IGNORE;<U2281> % DOES NOT SUCCEED
 <U2282> IGNORE;IGNORE;IGNORE;<U2282> % SUBSET OF
 <U2283> IGNORE;IGNORE;IGNORE;<U2283> % SUPERSET OF
 <U2284> IGNORE;IGNORE;IGNORE;<U2284> % NOT A SUBSET OF
 <U2285> IGNORE;IGNORE;IGNORE;<U2285> % NOT A SUPERSET OF
 <U2286> IGNORE;IGNORE;IGNORE;<U2286> % SUBSET OF OR EQUAL TO
 <U2287> IGNORE;IGNORE;IGNORE;<U2287> % SUPERSET OF OR EQUAL TO
 <U2288> IGNORE;IGNORE;IGNORE;<U2288> % NEITHER A SUBSET OF NOR EQUAL TO
 <U2289> IGNORE;IGNORE;IGNORE;<U2289> % NEITHER A SUPERSET OF NOR EQUAL TO
 <U228A> IGNORE;IGNORE;IGNORE;<U228A> % SUBSET OF WITH NOT EQUAL TO
 <U228B> IGNORE;IGNORE;IGNORE;<U228B> % SUPERSET OF WITH NOT EQUAL TO
 <U228C> IGNORE;IGNORE;IGNORE;<U228C> % MULTISSET
 <U228D> IGNORE;IGNORE;IGNORE;<U228D> % MULTISSET MULTIPLICATION
 <U228E> IGNORE;IGNORE;IGNORE;<U228E> % MULTISSET UNION
 <U228F> IGNORE;IGNORE;IGNORE;<U228F> % SQUARE IMAGE OF
 <U2290> IGNORE;IGNORE;IGNORE;<U2290> % SQUARE ORIGINAL OF
 <U2291> IGNORE;IGNORE;IGNORE;<U2291> % SQUARE IMAGE OF OR EQUAL TO
 <U2292> IGNORE;IGNORE;IGNORE;<U2292> % SQUARE ORIGINAL OF OR EQUAL TO
 <U2293> IGNORE;IGNORE;IGNORE;<U2293> % SQUARE CAP
 <U2294> IGNORE;IGNORE;IGNORE;<U2294> % SQUARE CUP
 <U2295> IGNORE;IGNORE;IGNORE;<U2295> % CIRCLED PLUS
 <U2296> IGNORE;IGNORE;IGNORE;<U2296> % CIRCLED MINUS
 <U2297> IGNORE;IGNORE;IGNORE;<U2297> % CIRCLED TIMES
 <U2298> IGNORE;IGNORE;IGNORE;<U2298> % CIRCLED DIVISION SLASH
 <U2299> IGNORE;IGNORE;IGNORE;<U2299> % CIRCLED DOT OPERATOR
 <U229A> IGNORE;IGNORE;IGNORE;<U229A> % CIRCLED RING OPERATOR
 <U229B> IGNORE;IGNORE;IGNORE;<U229B> % CIRCLED ASTERISK OPERATOR
 <U229C> IGNORE;IGNORE;IGNORE;<U229C> % CIRCLED EQUALS
 <U229D> IGNORE;IGNORE;IGNORE;<U229D> % CIRCLED DASH
 <U229E> IGNORE;IGNORE;IGNORE;<U229E> % SQUARED PLUS
 <U229F> IGNORE;IGNORE;IGNORE;<U229F> % SQUARED MINUS
 <U22A0> IGNORE;IGNORE;IGNORE;<U22A0> % SQUARED TIMES
 <U22A1> IGNORE;IGNORE;IGNORE;<U22A1> % SQUARED DOT OPERATOR
 <U22A2> IGNORE;IGNORE;IGNORE;<U22A2> % RIGHT TACK
 <U22A3> IGNORE;IGNORE;IGNORE;<U22A3> % LEFT TACK
 <U22A4> IGNORE;IGNORE;IGNORE;<U22A4> % DOWN TACK
 <U22A5> IGNORE;IGNORE;IGNORE;<U22A5> % UP TACK
 <U22A6> IGNORE;IGNORE;IGNORE;<U22A6> % ASSERTION
 <U22A7> IGNORE;IGNORE;IGNORE;<U22A7> % MODELS
 <U22A8> IGNORE;IGNORE;IGNORE;<U22A8> % TRUE
 <U22A9> IGNORE;IGNORE;IGNORE;<U22A9> % FORCES
 <U22AA> IGNORE;IGNORE;IGNORE;<U22AA> % TRIPLE VERTICAL BAR RIGHT TURNSTILE
 <U22AB> IGNORE;IGNORE;IGNORE;<U22AB> % DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE
 <U22AC> IGNORE;IGNORE;IGNORE;<U22AC> % DOES NOT PROVE
 <U22AD> IGNORE;IGNORE;IGNORE;<U22AD> % NOT TRUE
 <U22AE> IGNORE;IGNORE;IGNORE;<U22AE> % DOES NOT FORCE
 <U22AF> IGNORE;IGNORE;IGNORE;<U22AF> % NEGATED DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE
 <U22B0> IGNORE;IGNORE;IGNORE;<U22B0> % PRECEDES UNDER RELATION
 <U22B1> IGNORE;IGNORE;IGNORE;<U22B1> % SUCCEEDS UNDER RELATION
 <U22B2> IGNORE;IGNORE;IGNORE;<U22B2> % NORMAL SUBGROUP OF
 <U22B3> IGNORE;IGNORE;IGNORE;<U22B3> % CONTAINS AS NORMAL SUBGROUP
 <U22B4> IGNORE;IGNORE;IGNORE;<U22B4> % NORMAL SUBGROUP OF OR EQUAL TO
 <U22B5> IGNORE;IGNORE;IGNORE;<U22B5> % CONTAINS AS NORMAL SUBGROUP OR EQUAL TO
 <U22B6> IGNORE;IGNORE;IGNORE;<U22B6> % ORIGINAL OF
 <U22B7> IGNORE;IGNORE;IGNORE;<U22B7> % IMAGE OF
 <U22B8> IGNORE;IGNORE;IGNORE;<U22B8> % MULTIMAP
 <U22B9> IGNORE;IGNORE;IGNORE;<U22B9> % HERMITIAN CONJUGATE MATRIX
 <U22BA> IGNORE;IGNORE;IGNORE;<U22BA> % INTERCALATE
 <U22BB> IGNORE;IGNORE;IGNORE;<U22BB> % XOR
 <U22BC> IGNORE;IGNORE;IGNORE;<U22BC> % NAND
 <U22BD> IGNORE;IGNORE;IGNORE;<U22BD> % NOR
 <U22BE> IGNORE;IGNORE;IGNORE;<U22BE> % RIGHT ANGLE WITH ARC
 <U22BF> IGNORE;IGNORE;IGNORE;<U22BF> % RIGHT TRIANGLE
 <U22C0> IGNORE;IGNORE;IGNORE;<U22C0> % N-ARY LOGICAL AND
 <U22C1> IGNORE;IGNORE;IGNORE;<U22C1> % N-ARY LOGICAL OR
 <U22C2> IGNORE;IGNORE;IGNORE;<U22C2> % N-ARY INTERSECTION
 <U22C3> IGNORE;IGNORE;IGNORE;<U22C3> % N-ARY UNION
 <U22C4> IGNORE;IGNORE;IGNORE;<U22C4> % DIAMOND OPERATOR
 <U22C5> IGNORE;IGNORE;IGNORE;<U22C5> % DOT OPERATOR
 <U22C6> IGNORE;IGNORE;IGNORE;<U22C6> % STAR OPERATOR
 <U22C7> IGNORE;IGNORE;IGNORE;<U22C7> % DIVISION TIMES
 <U22C8> IGNORE;IGNORE;IGNORE;<U22C8> % BOWTIE
 <U22C9> IGNORE;IGNORE;IGNORE;<U22C9> % LEFT NORMAL FACTOR SEMIDIRECT PRODUCT
 <U22CA> IGNORE;IGNORE;IGNORE;<U22CA> % RIGHT NORMAL FACTOR SEMIDIRECT PRODUCT
 <U22CB> IGNORE;IGNORE;IGNORE;<U22CB> % LEFT SEMIDIRECT PRODUCT
 <U22CC> IGNORE;IGNORE;IGNORE;<U22CC> % RIGHT SEMIDIRECT PRODUCT
 <U22CD> IGNORE;IGNORE;IGNORE;<U22CD> % REVERSED TILDE EQUALS
 <U22CE> IGNORE;IGNORE;IGNORE;<U22CE> % CURLY LOGICAL OR
 <U22CF> IGNORE;IGNORE;IGNORE;<U22CF> % CURLY LOGICAL AND

<U22D0> IGNORE;IGNORE;IGNORE;<U22D0> % DOUBLE SUBSET
 <U22D1> IGNORE;IGNORE;IGNORE;<U22D1> % DOUBLE SUPERSET
 <U22D2> IGNORE;IGNORE;IGNORE;<U22D2> % DOUBLE INTERSECTION
 <U22D3> IGNORE;IGNORE;IGNORE;<U22D3> % DOUBLE UNION
 <U22D4> IGNORE;IGNORE;IGNORE;<U22D4> % PITCHFORK
 <U22D5> IGNORE;IGNORE;IGNORE;<U22D5> % EQUAL AND PARALLEL TO
 <U22D6> IGNORE;IGNORE;IGNORE;<U22D6> % LESS THAN WITH DOT
 <U22D7> IGNORE;IGNORE;IGNORE;<U22D7> % GREATER THAN WITH DOT
 <U22D8> IGNORE;IGNORE;IGNORE;<U22D8> % VERY MUCH LESS THAN
 <U22D9> IGNORE;IGNORE;IGNORE;<U22D9> % VERY MUCH GREATER THAN
 <U22DA> IGNORE;IGNORE;IGNORE;<U22DA> % LESS THAN EQUAL TO OR GREATER THAN
 <U22DB> IGNORE;IGNORE;IGNORE;<U22DB> % GREATER THAN EQUAL TO OR LESS THAN
 <U22DC> IGNORE;IGNORE;IGNORE;<U22DC> % EQUAL TO OR LESS THAN
 <U22DD> IGNORE;IGNORE;IGNORE;<U22DD> % EQUAL TO OR GREATER THAN
 <U22DE> IGNORE;IGNORE;IGNORE;<U22DE> % EQUAL TO OR PRECEDES
 <U22DF> IGNORE;IGNORE;IGNORE;<U22DF> % EQUAL TO OR SUCCEEDS
 <U22E0> IGNORE;IGNORE;IGNORE;<U22E0> % DOES NOT PRECEDE OR EQUAL
 <U22E1> IGNORE;IGNORE;IGNORE;<U22E1> % DOES NOT SUCCEED OR EQUAL
 <U22E2> IGNORE;IGNORE;IGNORE;<U22E2> % NOT SQUARE IMAGE OF OR EQUAL TO
 <U22E3> IGNORE;IGNORE;IGNORE;<U22E3> % NOT SQUARE ORIGINAL OF OR EQUAL TO
 <U22E4> IGNORE;IGNORE;IGNORE;<U22E4> % SQUARE IMAGE OF OR NOT EQUAL TO
 <U22E5> IGNORE;IGNORE;IGNORE;<U22E5> % SQUARE ORIGINAL OF OR NOT EQUAL TO
 <U22E6> IGNORE;IGNORE;IGNORE;<U22E6> % LESS THAN BUT NOT EQUIVALENT TO
 <U22E7> IGNORE;IGNORE;IGNORE;<U22E7> % GREATER THAN BUT NOT EQUIVALENT TO
 <U22E8> IGNORE;IGNORE;IGNORE;<U22E8> % PRECEDES BUT NOT EQUIVALENT TO
 <U22E9> IGNORE;IGNORE;IGNORE;<U22E9> % SUCCEEDS BUT NOT EQUIVALENT TO
 <U22EA> IGNORE;IGNORE;IGNORE;<U22EA> % NOT NORMAL SUBGROUP OF
 <U22EB> IGNORE;IGNORE;IGNORE;<U22EB> % DOES NOT CONTAIN AS NORMAL SUBGROUP
 <U22EC> IGNORE;IGNORE;IGNORE;<U22EC> % NOT NORMAL SUBGROUP OF OR EQUAL TO
 <U22ED> IGNORE;IGNORE;IGNORE;<U22ED> % DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL
 <U22EE> IGNORE;IGNORE;IGNORE;<U22EE> % VERTICAL ELLIPSIS
 <U22EF> IGNORE;IGNORE;IGNORE;<U22EF> % MIDLINE HORIZONTAL ELLIPSIS
 <U22F0> IGNORE;IGNORE;IGNORE;<U22F0> % UP RIGHT DIAGONAL ELLIPSIS
 <U22F1> IGNORE;IGNORE;IGNORE;<U22F1> % DOWN RIGHT DIAGONAL ELLIPSIS
 <U2300> IGNORE;IGNORE;IGNORE;<U2300> % DIAMETER SIGN
 <U2302> IGNORE;IGNORE;IGNORE;<U2302> % HOUSE
 <U2303> IGNORE;IGNORE;IGNORE;<U2303> % UP ARROWHEAD
 <U2304> IGNORE;IGNORE;IGNORE;<U2304> % DOWN ARROWHEAD
 <U2305> IGNORE;IGNORE;IGNORE;<U2305> % PROJECTIVE
 <U2306> IGNORE;IGNORE;IGNORE;<U2306> % PERSPECTIVE
 <U2307> IGNORE;IGNORE;IGNORE;<U2307> % WAVY LINE
 <U2308> IGNORE;IGNORE;IGNORE;<U2308> % LEFT CEILING
 <U2309> IGNORE;IGNORE;IGNORE;<U2309> % RIGHT CEILING
 <U230A> IGNORE;IGNORE;IGNORE;<U230A> % LEFT FLOOR
 <U230B> IGNORE;IGNORE;IGNORE;<U230B> % RIGHT FLOOR
 <U230C> IGNORE;IGNORE;IGNORE;<U230C> % BOTTOM RIGHT CROP
 <U230D> IGNORE;IGNORE;IGNORE;<U230D> % BOTTOM LEFT CROP
 <U230E> IGNORE;IGNORE;IGNORE;<U230E> % TOP RIGHT CROP
 <U230F> IGNORE;IGNORE;IGNORE;<U230F> % TOP LEFT CROP
 <U2310> IGNORE;IGNORE;IGNORE;<U2310> % REVERSED NOT SIGN
 <U2311> IGNORE;IGNORE;IGNORE;<U2311> % SQUARE LOZENGE
 <U2312> IGNORE;IGNORE;IGNORE;<U2312> % ARC
 <U2313> IGNORE;IGNORE;IGNORE;<U2313> % SEGMENT
 <U2314> IGNORE;IGNORE;IGNORE;<U2314> % SECTOR
 <U2315> IGNORE;IGNORE;IGNORE;<U2315> % TELEPHONE RECORDER
 <U2316> IGNORE;IGNORE;IGNORE;<U2316> % POSITION INDICATOR
 <U2317> IGNORE;IGNORE;IGNORE;<U2317> % VIEWDATA SQUARE
 <U2318> IGNORE;IGNORE;IGNORE;<U2318> % PLACE OF INTEREST SIGN
 <U2319> IGNORE;IGNORE;IGNORE;<U2319> % TURNED NOT SIGN
 <U231A> IGNORE;IGNORE;IGNORE;<U231A> % WATCH
 <U231B> IGNORE;IGNORE;IGNORE;<U231B> % HOURGLASS
 <U231C> IGNORE;IGNORE;IGNORE;<U231C> % TOP LEFT CORNER
 <U231D> IGNORE;IGNORE;IGNORE;<U231D> % TOP RIGHT CORNER
 <U231E> IGNORE;IGNORE;IGNORE;<U231E> % BOTTOM LEFT CORNER
 <U231F> IGNORE;IGNORE;IGNORE;<U231F> % BOTTOM RIGHT CORNER
 <U2320> IGNORE;IGNORE;IGNORE;<U2320> % TOP HALF INTEGRAL
 <U2321> IGNORE;IGNORE;IGNORE;<U2321> % BOTTOM HALF INTEGRAL
 <U2322> IGNORE;IGNORE;IGNORE;<U2322> % FROWN
 <U2323> IGNORE;IGNORE;IGNORE;<U2323> % SMILE
 <U2324> IGNORE;IGNORE;IGNORE;<U2324> % UP ARROWHEAD BETWEEN TWO HORIZONTAL BARS
 <U2325> IGNORE;IGNORE;IGNORE;<U2325> % OPTION KEY
 <U2326> IGNORE;IGNORE;IGNORE;<U2326> % ERASE TO THE RIGHT
 <U2327> IGNORE;IGNORE;IGNORE;<U2327> % X IN A RECTANGLE BOX
 <U2328> IGNORE;IGNORE;IGNORE;<U2328> % KEYBOARD
 <U2329> IGNORE;IGNORE;IGNORE;<U2329> % LEFT POINTING ANGLE BRACKET
 <U232A> IGNORE;IGNORE;IGNORE;<U232A> % RIGHT POINTING ANGLE BRACKET
 <U232B> IGNORE;IGNORE;IGNORE;<U232B> % ERASE TO THE LEFT
 <U232C> IGNORE;IGNORE;IGNORE;<U232C> % BENZENE RING
 <U232D> IGNORE;IGNORE;IGNORE;<U232D> % CYLINDRICITY
 <U232E> IGNORE;IGNORE;IGNORE;<U232E> % ALL AROUND PROFILE
 <U232F> IGNORE;IGNORE;IGNORE;<U232F> % SYMMETRY
 <U2330> IGNORE;IGNORE;IGNORE;<U2330> % TOTAL RUNOUT
 <U2331> IGNORE;IGNORE;IGNORE;<U2331> % DIMENSION ORIGIN
 <U2332> IGNORE;IGNORE;IGNORE;<U2332> % CONICAL TAPER
 <U2333> IGNORE;IGNORE;IGNORE;<U2333> % SLOPE
 <U2334> IGNORE;IGNORE;IGNORE;<U2334> % COUNTERBORE
 <U2335> IGNORE;IGNORE;IGNORE;<U2335> % COUNTERSINK

<U2336> IGNORE;IGNORE;IGNORE;<U2336> % APL FUNCTIONAL SYMBOL I BEAM
<U2337> IGNORE;IGNORE;IGNORE;<U2337> % APL FUNCTIONAL SYMBOL SQUISH QUAD
<U2338> IGNORE;IGNORE;IGNORE;<U2338> % APL FUNCTIONAL SYMBOL QUAD EQUAL
<U2339> IGNORE;IGNORE;IGNORE;<U2339> % APL FUNCTIONAL SYMBOL QUAD DIVIDE
<U233A> IGNORE;IGNORE;IGNORE;<U233A> % APL FUNCTIONAL SYMBOL QUAD DIAMOND
<U233B> IGNORE;IGNORE;IGNORE;<U233B> % APL FUNCTIONAL SYMBOL QUAD JOT
<U233C> IGNORE;IGNORE;IGNORE;<U233C> % APL FUNCTIONAL SYMBOL QUAD CIRCLE
<U233D> IGNORE;IGNORE;IGNORE;<U233D> % APL FUNCTIONAL SYMBOL CIRCLE STILE
<U233E> IGNORE;IGNORE;IGNORE;<U233E> % APL FUNCTIONAL SYMBOL CIRCLE JOT
<U233F> IGNORE;IGNORE;IGNORE;<U233F> % APL FUNCTIONAL SYMBOL SLASH BAR
<U2340> IGNORE;IGNORE;IGNORE;<U2340> % APL FUNCTIONAL SYMBOL BACKSLASH BAR
<U2341> IGNORE;IGNORE;IGNORE;<U2341> % APL FUNCTIONAL SYMBOL QUAD SLASH
<U2342> IGNORE;IGNORE;IGNORE;<U2342> % APL FUNCTIONAL SYMBOL QUAD BACKSLASH
<U2343> IGNORE;IGNORE;IGNORE;<U2343> % APL FUNCTIONAL SYMBOL QUAD LESS THAN
<U2344> IGNORE;IGNORE;IGNORE;<U2344> % APL FUNCTIONAL SYMBOL QUAD GREATER THAN
<U2345> IGNORE;IGNORE;IGNORE;<U2345> % APL FUNCTIONAL SYMBOL LEFTWARDS VANE
<U2346> IGNORE;IGNORE;IGNORE;<U2346> % APL FUNCTIONAL SYMBOL RIGHTWARDS VANE
<U2347> IGNORE;IGNORE;IGNORE;<U2347> % APL FUNCTIONAL SYMBOL QUAD LEFTWARDS ARROW
<U2348> IGNORE;IGNORE;IGNORE;<U2348> % APL FUNCTIONAL SYMBOL QUAD RIGHTWARDS ARROW
<U2349> IGNORE;IGNORE;IGNORE;<U2349> % APL FUNCTIONAL SYMBOL CIRCLE BACKSLASH
<U234A> IGNORE;IGNORE;IGNORE;<U234A> % APL FUNCTIONAL SYMBOL DOWN TACK UNDERBAR
<U234B> IGNORE;IGNORE;IGNORE;<U234B> % APL FUNCTIONAL SYMBOL DELTA STILE
<U234C> IGNORE;IGNORE;IGNORE;<U234C> % APL FUNCTIONAL SYMBOL QUAD DOWN CARET
<U234D> IGNORE;IGNORE;IGNORE;<U234D> % APL FUNCTIONAL SYMBOL QUAD DELTA
<U234E> IGNORE;IGNORE;IGNORE;<U234E> % APL FUNCTIONAL SYMBOL DOWN TACK JOT
<U234F> IGNORE;IGNORE;IGNORE;<U234F> % APL FUNCTIONAL SYMBOL UPWARDS VANE
<U2350> IGNORE;IGNORE;IGNORE;<U2350> % APL FUNCTIONAL SYMBOL QUAD UPWARDS ARROW
<U2351> IGNORE;IGNORE;IGNORE;<U2351> % APL FUNCTIONAL SYMBOL UP TACK OVERBAR
<U2352> IGNORE;IGNORE;IGNORE;<U2352> % APL FUNCTIONAL SYMBOL DEL STILE
<U2353> IGNORE;IGNORE;IGNORE;<U2353> % APL FUNCTIONAL SYMBOL QUAD UP CARET
<U2354> IGNORE;IGNORE;IGNORE;<U2354> % APL FUNCTIONAL SYMBOL QUAD DEL
<U2355> IGNORE;IGNORE;IGNORE;<U2355> % APL FUNCTIONAL SYMBOL UP TACK JOT
<U2356> IGNORE;IGNORE;IGNORE;<U2356> % APL FUNCTIONAL SYMBOL DOWNWARDS VANE
<U2357> IGNORE;IGNORE;IGNORE;<U2357> % APL FUNCTIONAL SYMBOL QUAD DOWNWARDS ARROW
<U2358> IGNORE;IGNORE;IGNORE;<U2358> % APL FUNCTIONAL SYMBOL QUOTE UNDERBAR
<U2359> IGNORE;IGNORE;IGNORE;<U2359> % APL FUNCTIONAL SYMBOL DELTA UNDERBAR
<U235A> IGNORE;IGNORE;IGNORE;<U235A> % APL FUNCTIONAL SYMBOL DIAMOND UNDERBAR
<U235B> IGNORE;IGNORE;IGNORE;<U235B> % APL FUNCTIONAL SYMBOL JOT UNDERBAR
<U235C> IGNORE;IGNORE;IGNORE;<U235C> % APL FUNCTIONAL SYMBOL CIRCLE UNDERBAR
<U235D> IGNORE;IGNORE;IGNORE;<U235D> % APL FUNCTIONAL SYMBOL UP SHOE JOT
<U235E> IGNORE;IGNORE;IGNORE;<U235E> % APL FUNCTIONAL SYMBOL QUOTE QUAD
<U235F> IGNORE;IGNORE;IGNORE;<U235F> % APL FUNCTIONAL SYMBOL CIRCLE STAR
<U2360> IGNORE;IGNORE;IGNORE;<U2360> % APL FUNCTIONAL SYMBOL QUAD COLON
<U2361> IGNORE;IGNORE;IGNORE;<U2361> % APL FUNCTIONAL SYMBOL UP TACK DIAERESIS
<U2362> IGNORE;IGNORE;IGNORE;<U2362> % APL FUNCTIONAL SYMBOL DEL DIAERESIS
<U2363> IGNORE;IGNORE;IGNORE;<U2363> % APL FUNCTIONAL SYMBOL STAR DIAERESIS
<U2364> IGNORE;IGNORE;IGNORE;<U2364> % APL FUNCTIONAL SYMBOL JOT DIAERESIS
<U2365> IGNORE;IGNORE;IGNORE;<U2365> % APL FUNCTIONAL SYMBOL CIRCLE DIAERESIS
<U2366> IGNORE;IGNORE;IGNORE;<U2366> % APL FUNCTIONAL SYMBOL DOWN SHOE STILE
<U2367> IGNORE;IGNORE;IGNORE;<U2367> % APL FUNCTIONAL SYMBOL LEFT SHOE STILE
<U2368> IGNORE;IGNORE;IGNORE;<U2368> % APL FUNCTIONAL SYMBOL TILDE DIAERESIS
<U2369> IGNORE;IGNORE;IGNORE;<U2369> % APL FUNCTIONAL SYMBOL GREATER THAN DIAERESIS
<U236A> IGNORE;IGNORE;IGNORE;<U236A> % APL FUNCTIONAL SYMBOL COMMA BAR
<U236B> IGNORE;IGNORE;IGNORE;<U236B> % APL FUNCTIONAL SYMBOL DEL TILDE
<U236C> IGNORE;IGNORE;IGNORE;<U236C> % APL FUNCTIONAL SYMBOL ZILDE
<U236D> IGNORE;IGNORE;IGNORE;<U236D> % APL FUNCTIONAL SYMBOL STILE TILDE
<U236E> IGNORE;IGNORE;IGNORE;<U236E> % APL FUNCTIONAL SYMBOL SEMICOLON UNDERBAR
<U236F> IGNORE;IGNORE;IGNORE;<U236F> % APL FUNCTIONAL SYMBOL QUAD NOT EQUAL
<U2370> IGNORE;IGNORE;IGNORE;<U2370> % APL FUNCTIONAL SYMBOL QUAD QUESTION
<U2371> IGNORE;IGNORE;IGNORE;<U2371> % APL FUNCTIONAL SYMBOL DOWN CARET TILDE
<U2372> IGNORE;IGNORE;IGNORE;<U2372> % APL FUNCTIONAL SYMBOL UP CARET TILDE
<U2373> IGNORE;IGNORE;IGNORE;<U2373> % APL FUNCTIONAL SYMBOL IOTA
<U2374> IGNORE;IGNORE;IGNORE;<U2374> % APL FUNCTIONAL SYMBOL RHO
<U2375> IGNORE;IGNORE;IGNORE;<U2375> % APL FUNCTIONAL SYMBOL OMEGA
<U2376> IGNORE;IGNORE;IGNORE;<U2376> % APL FUNCTIONAL SYMBOL ALPHA UNDERBAR
<U2377> IGNORE;IGNORE;IGNORE;<U2377> % APL FUNCTIONAL SYMBOL EPSILON UNDERBAR
<U2378> IGNORE;IGNORE;IGNORE;<U2378> % APL FUNCTIONAL SYMBOL IOTA UNDERBAR
<U2379> IGNORE;IGNORE;IGNORE;<U2379> % APL FUNCTIONAL SYMBOL OMEGA UNDERBAR
<U237A> IGNORE;IGNORE;IGNORE;<U237A> % APL FUNCTIONAL SYMBOL ALPHA
<U2400> IGNORE;IGNORE;IGNORE;<U2400> % SYMBOL FOR NULL
<U2401> IGNORE;IGNORE;IGNORE;<U2401> % SYMBOL FOR START OF HEADING
<U2402> IGNORE;IGNORE;IGNORE;<U2402> % SYMBOL FOR START OF TEXT
<U2403> IGNORE;IGNORE;IGNORE;<U2403> % SYMBOL FOR END OF TEXT
<U2404> IGNORE;IGNORE;IGNORE;<U2404> % SYMBOL FOR END OF TRANSMISSION
<U2405> IGNORE;IGNORE;IGNORE;<U2405> % SYMBOL FOR ENQUIRY
<U2406> IGNORE;IGNORE;IGNORE;<U2406> % SYMBOL FOR ACKNOWLEDGE
<U2407> IGNORE;IGNORE;IGNORE;<U2407> % SYMBOL FOR BELL
<U2408> IGNORE;IGNORE;IGNORE;<U2408> % SYMBOL FOR BACKSPACE
<U2409> IGNORE;IGNORE;IGNORE;<U2409> % SYMBOL FOR HORIZONTAL TABULATION
<U240A> IGNORE;IGNORE;IGNORE;<U240A> % SYMBOL FOR LINE FEED
<U240B> IGNORE;IGNORE;IGNORE;<U240B> % SYMBOL FOR VERTICAL TABULATION
<U240C> IGNORE;IGNORE;IGNORE;<U240C> % SYMBOL FOR FORM FEED
<U240D> IGNORE;IGNORE;IGNORE;<U240D> % SYMBOL FOR CARRIAGE RETURN
<U240E> IGNORE;IGNORE;IGNORE;<U240E> % SYMBOL FOR SHIFT OUT
<U240F> IGNORE;IGNORE;IGNORE;<U240F> % SYMBOL FOR SHIFT IN
<U2410> IGNORE;IGNORE;IGNORE;<U2410> % SYMBOL FOR DATA LINK ESCAPE
<U2411> IGNORE;IGNORE;IGNORE;<U2411> % SYMBOL FOR DEVICE CONTROL ONE

<U2412> IGNORE;IGNORE;IGNORE;<U2412> % SYMBOL FOR DEVICE CONTROL TWO
 <U2413> IGNORE;IGNORE;IGNORE;<U2413> % SYMBOL FOR DEVICE CONTROL THREE
 <U2414> IGNORE;IGNORE;IGNORE;<U2414> % SYMBOL FOR DEVICE CONTROL FOUR
 <U2415> IGNORE;IGNORE;IGNORE;<U2415> % SYMBOL FOR NEGATIVE ACKNOWLEDGE
 <U2416> IGNORE;IGNORE;IGNORE;<U2416> % SYMBOL FOR SYNCHRONOUS IDLE
 <U2417> IGNORE;IGNORE;IGNORE;<U2417> % SYMBOL FOR END OF TRANSMISSION BLOCK
 <U2418> IGNORE;IGNORE;IGNORE;<U2418> % SYMBOL FOR CANCEL
 <U2419> IGNORE;IGNORE;IGNORE;<U2419> % SYMBOL FOR END OF MEDIUM
 <U241A> IGNORE;IGNORE;IGNORE;<U241A> % SYMBOL FOR SUBSTITUTE
 <U241B> IGNORE;IGNORE;IGNORE;<U241B> % SYMBOL FOR ESCAPE
 <U241C> IGNORE;IGNORE;IGNORE;<U241C> % SYMBOL FOR FILE SEPARATOR
 <U241D> IGNORE;IGNORE;IGNORE;<U241D> % SYMBOL FOR GROUP SEPARATOR
 <U241E> IGNORE;IGNORE;IGNORE;<U241E> % SYMBOL FOR RECORD SEPARATOR
 <U241F> IGNORE;IGNORE;IGNORE;<U241F> % SYMBOL FOR UNIT SEPARATOR
 <U2420> IGNORE;IGNORE;IGNORE;<U2420> % SYMBOL FOR SPACE
 <U2421> IGNORE;IGNORE;IGNORE;<U2421> % SYMBOL FOR DELETE
 <U2422> IGNORE;IGNORE;IGNORE;<U2422> % BLANK SYMBOL
 <U2423> IGNORE;IGNORE;IGNORE;<U2423> % OPEN BOX
 <U2424> IGNORE;IGNORE;IGNORE;<U2424> % SYMBOL FOR NEWLINE
 <U2440> IGNORE;IGNORE;IGNORE;<U2440> % OCR HOOK
 <U2441> IGNORE;IGNORE;IGNORE;<U2441> % OCR CHAIR
 <U2442> IGNORE;IGNORE;IGNORE;<U2442> % OCR FORK
 <U2443> IGNORE;IGNORE;IGNORE;<U2443> % OCR INVERTED FORK
 <U2444> IGNORE;IGNORE;IGNORE;<U2444> % OCR BELT BUCKLE
 <U2445> IGNORE;IGNORE;IGNORE;<U2445> % OCR BOW TIE
 <U2446> IGNORE;IGNORE;IGNORE;<U2446> % OCR BRANCH BANK IDENTIFICATION
 <U2447> IGNORE;IGNORE;IGNORE;<U2447> % OCR AMOUNT OF CHECK
 <U2448> IGNORE;IGNORE;IGNORE;<U2448> % OCR DASH
 <U2449> IGNORE;IGNORE;IGNORE;<U2449> % OCR CUSTOMER ACCOUNT NUMBER
 <U244A> IGNORE;IGNORE;IGNORE;<U244A> % OCR DOUBLE BACKSLASH
 <U2500> IGNORE;IGNORE;IGNORE;<U2500> % BOX DRAWINGS LIGHT HORIZONTAL
 <U2501> IGNORE;IGNORE;IGNORE;<U2501> % BOX DRAWINGS HEAVY HORIZONTAL
 <U2502> IGNORE;IGNORE;IGNORE;<U2502> % BOX DRAWINGS LIGHT VERTICAL
 <U2503> IGNORE;IGNORE;IGNORE;<U2503> % BOX DRAWINGS HEAVY VERTICAL
 <U2504> IGNORE;IGNORE;IGNORE;<U2504> % BOX DRAWINGS LIGHT TRIPLE DASH HORIZONTAL
 <U2505> IGNORE;IGNORE;IGNORE;<U2505> % BOX DRAWINGS HEAVY TRIPLE DASH HORIZONTAL
 <U2506> IGNORE;IGNORE;IGNORE;<U2506> % BOX DRAWINGS LIGHT TRIPLE DASH VERTICAL
 <U2507> IGNORE;IGNORE;IGNORE;<U2507> % BOX DRAWINGS HEAVY TRIPLE DASH VERTICAL
 <U2508> IGNORE;IGNORE;IGNORE;<U2508> % BOX DRAWINGS LIGHT QUADRUPLE DASH HORIZONTAL
 <U2509> IGNORE;IGNORE;IGNORE;<U2509> % BOX DRAWINGS HEAVY QUADRUPLE DASH HORIZONTAL
 <U250A> IGNORE;IGNORE;IGNORE;<U250A> % BOX DRAWINGS LIGHT QUADRUPLE DASH VERTICAL
 <U250B> IGNORE;IGNORE;IGNORE;<U250B> % BOX DRAWINGS HEAVY QUADRUPLE DASH VERTICAL
 <U250C> IGNORE;IGNORE;IGNORE;<U250C> % BOX DRAWINGS LIGHT DOWN AND RIGHT
 <U250D> IGNORE;IGNORE;IGNORE;<U250D> % BOX DRAWINGS DOWN LIGHT AND RIGHT HEAVY
 <U250E> IGNORE;IGNORE;IGNORE;<U250E> % BOX DRAWINGS DOWN HEAVY AND RIGHT LIGHT
 <U250F> IGNORE;IGNORE;IGNORE;<U250F> % BOX DRAWINGS HEAVY DOWN AND RIGHT
 <U2510> IGNORE;IGNORE;IGNORE;<U2510> % BOX DRAWINGS LIGHT DOWN AND LEFT
 <U2511> IGNORE;IGNORE;IGNORE;<U2511> % BOX DRAWINGS DOWN LIGHT AND LEFT HEAVY
 <U2512> IGNORE;IGNORE;IGNORE;<U2512> % BOX DRAWINGS DOWN HEAVY AND LEFT LIGHT
 <U2513> IGNORE;IGNORE;IGNORE;<U2513> % BOX DRAWINGS HEAVY DOWN AND LEFT
 <U2514> IGNORE;IGNORE;IGNORE;<U2514> % BOX DRAWINGS LIGHT UP AND RIGHT
 <U2515> IGNORE;IGNORE;IGNORE;<U2515> % BOX DRAWINGS UP LIGHT AND RIGHT HEAVY
 <U2516> IGNORE;IGNORE;IGNORE;<U2516> % BOX DRAWINGS UP HEAVY AND RIGHT LIGHT
 <U2517> IGNORE;IGNORE;IGNORE;<U2517> % BOX DRAWINGS HEAVY UP AND RIGHT
 <U2518> IGNORE;IGNORE;IGNORE;<U2518> % BOX DRAWINGS LIGHT UP AND LEFT
 <U2519> IGNORE;IGNORE;IGNORE;<U2519> % BOX DRAWINGS UP LIGHT AND LEFT HEAVY
 <U251A> IGNORE;IGNORE;IGNORE;<U251A> % BOX DRAWINGS UP HEAVY AND LEFT LIGHT
 <U251B> IGNORE;IGNORE;IGNORE;<U251B> % BOX DRAWINGS HEAVY UP AND LEFT
 <U251C> IGNORE;IGNORE;IGNORE;<U251C> % BOX DRAWINGS LIGHT VERTICAL AND RIGHT
 <U251D> IGNORE;IGNORE;IGNORE;<U251D> % BOX DRAWINGS VERTICAL LIGHT AND RIGHT HEAVY
 <U251E> IGNORE;IGNORE;IGNORE;<U251E> % BOX DRAWINGS UP HEAVY AND RIGHT DOWN LIGHT
 <U251F> IGNORE;IGNORE;IGNORE;<U251F> % BOX DRAWINGS DOWN HEAVY AND RIGHT UP LIGHT
 <U2520> IGNORE;IGNORE;IGNORE;<U2520> % BOX DRAWINGS VERTICAL HEAVY AND RIGHT LIGHT
 <U2521> IGNORE;IGNORE;IGNORE;<U2521> % BOX DRAWINGS DOWN LIGHT AND RIGHT UP HEAVY
 <U2522> IGNORE;IGNORE;IGNORE;<U2522> % BOX DRAWINGS UP LIGHT AND RIGHT DOWN HEAVY
 <U2523> IGNORE;IGNORE;IGNORE;<U2523> % BOX DRAWINGS HEAVY VERTICAL AND RIGHT
 <U2524> IGNORE;IGNORE;IGNORE;<U2524> % BOX DRAWINGS LIGHT VERTICAL AND LEFT
 <U2525> IGNORE;IGNORE;IGNORE;<U2525> % BOX DRAWINGS VERTICAL LIGHT AND LEFT HEAVY
 <U2526> IGNORE;IGNORE;IGNORE;<U2526> % BOX DRAWINGS UP HEAVY AND LEFT DOWN LIGHT
 <U2527> IGNORE;IGNORE;IGNORE;<U2527> % BOX DRAWINGS DOWN HEAVY AND LEFT UP LIGHT
 <U2528> IGNORE;IGNORE;IGNORE;<U2528> % BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT
 <U2529> IGNORE;IGNORE;IGNORE;<U2529> % BOX DRAWINGS DOWN LIGHT AND LEFT UP HEAVY
 <U252A> IGNORE;IGNORE;IGNORE;<U252A> % BOX DRAWINGS UP LIGHT AND LEFT DOWN HEAVY
 <U252B> IGNORE;IGNORE;IGNORE;<U252B> % BOX DRAWINGS HEAVY VERTICAL AND LEFT
 <U252C> IGNORE;IGNORE;IGNORE;<U252C> % BOX DRAWINGS LIGHT DOWN AND HORIZONTAL
 <U252D> IGNORE;IGNORE;IGNORE;<U252D> % BOX DRAWINGS LEFT HEAVY AND RIGHT DOWN LIGHT
 <U252E> IGNORE;IGNORE;IGNORE;<U252E> % BOX DRAWINGS RIGHT HEAVY AND LEFT DOWN LIGHT
 <U252F> IGNORE;IGNORE;IGNORE;<U252F> % BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY
 <U2530> IGNORE;IGNORE;IGNORE;<U2530> % BOX DRAWINGS DOWN HEAVY AND HORIZONTAL LIGHT
 <U2531> IGNORE;IGNORE;IGNORE;<U2531> % BOX DRAWINGS RIGHT LIGHT AND LEFT DOWN HEAVY
 <U2532> IGNORE;IGNORE;IGNORE;<U2532> % BOX DRAWINGS LEFT LIGHT AND RIGHT DOWN HEAVY
 <U2533> IGNORE;IGNORE;IGNORE;<U2533> % BOX DRAWINGS HEAVY DOWN AND HORIZONTAL
 <U2534> IGNORE;IGNORE;IGNORE;<U2534> % BOX DRAWINGS LIGHT UP AND HORIZONTAL
 <U2535> IGNORE;IGNORE;IGNORE;<U2535> % BOX DRAWINGS LEFT HEAVY AND RIGHT UP LIGHT
 <U2536> IGNORE;IGNORE;IGNORE;<U2536> % BOX DRAWINGS RIGHT HEAVY AND LEFT UP LIGHT
 <U2537> IGNORE;IGNORE;IGNORE;<U2537> % BOX DRAWINGS UP LIGHT AND HORIZONTAL HEAVY
 <U2538> IGNORE;IGNORE;IGNORE;<U2538> % BOX DRAWINGS UP HEAVY AND HORIZONTAL LIGHT

<U2539> IGNORE;IGNORE;IGNORE;<U2539> % BOX DRAWINGS RIGHT LIGHT AND LEFT UP HEAVY
 <U253A> IGNORE;IGNORE;IGNORE;<U253A> % BOX DRAWINGS LEFT LIGHT AND RIGHT UP HEAVY
 <U253B> IGNORE;IGNORE;IGNORE;<U253B> % BOX DRAWINGS HEAVY UP AND HORIZONTAL
 <U253C> IGNORE;IGNORE;IGNORE;<U253C> % BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL
 <U253D> IGNORE;IGNORE;IGNORE;<U253D> % BOX DRAWINGS LEFT HEAVY AND RIGHT VERTICAL LIGHT
 <U253E> IGNORE;IGNORE;IGNORE;<U253E> % BOX DRAWINGS RIGHT HEAVY AND LEFT VERTICAL LIGHT
 <U253F> IGNORE;IGNORE;IGNORE;<U253F> % BOX DRAWINGS VERTICAL LIGHT AND HORIZONTAL HEAVY
 <U2540> IGNORE;IGNORE;IGNORE;<U2540> % BOX DRAWINGS UP HEAVY AND DOWN HORIZONTAL LIGHT
 <U2541> IGNORE;IGNORE;IGNORE;<U2541> % BOX DRAWINGS DOWN HEAVY AND UP HORIZONTAL LIGHT
 <U2542> IGNORE;IGNORE;IGNORE;<U2542> % BOX DRAWINGS VERTICAL HEAVY AND HORIZONTAL LIGHT
 <U2543> IGNORE;IGNORE;IGNORE;<U2543> % BOX DRAWINGS LEFT UP HEAVY AND RIGHT DOWN LIGHT
 <U2544> IGNORE;IGNORE;IGNORE;<U2544> % BOX DRAWINGS RIGHT UP HEAVY AND LEFT DOWN LIGHT
 <U2545> IGNORE;IGNORE;IGNORE;<U2545> % BOX DRAWINGS LEFT DOWN HEAVY AND RIGHT UP LIGHT
 <U2546> IGNORE;IGNORE;IGNORE;<U2546> % BOX DRAWINGS RIGHT DOWN HEAVY AND LEFT UP LIGHT
 <U2547> IGNORE;IGNORE;IGNORE;<U2547> % BOX DRAWINGS DOWN LIGHT AND UP HORIZONTAL HEAVY
 <U2548> IGNORE;IGNORE;IGNORE;<U2548> % BOX DRAWINGS UP LIGHT AND DOWN HORIZONTAL HEAVY
 <U2549> IGNORE;IGNORE;IGNORE;<U2549> % BOX DRAWINGS RIGHT LIGHT AND LEFT VERTICAL HEAVY
 <U254A> IGNORE;IGNORE;IGNORE;<U254A> % BOX DRAWINGS LEFT LIGHT AND RIGHT VERTICAL HEAVY
 <U254B> IGNORE;IGNORE;IGNORE;<U254B> % BOX DRAWINGS HEAVY VERTICAL AND HORIZONTAL
 <U254C> IGNORE;IGNORE;IGNORE;<U254C> % BOX DRAWINGS LIGHT DOUBLE DASH HORIZONTAL
 <U254D> IGNORE;IGNORE;IGNORE;<U254D> % BOX DRAWINGS HEAVY DOUBLE DASH HORIZONTAL
 <U254E> IGNORE;IGNORE;IGNORE;<U254E> % BOX DRAWINGS LIGHT DOUBLE DASH VERTICAL
 <U254F> IGNORE;IGNORE;IGNORE;<U254F> % BOX DRAWINGS HEAVY DOUBLE DASH VERTICAL
 <U2550> IGNORE;IGNORE;IGNORE;<U2550> % BOX DRAWINGS DOUBLE HORIZONTAL
 <U2551> IGNORE;IGNORE;IGNORE;<U2551> % BOX DRAWINGS DOUBLE VERTICAL
 <U2552> IGNORE;IGNORE;IGNORE;<U2552> % BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE
 <U2553> IGNORE;IGNORE;IGNORE;<U2553> % BOX DRAWINGS DOWN DOUBLE AND RIGHT SINGLE
 <U2554> IGNORE;IGNORE;IGNORE;<U2554> % BOX DRAWINGS DOUBLE DOWN AND RIGHT
 <U2555> IGNORE;IGNORE;IGNORE;<U2555> % BOX DRAWINGS DOWN SINGLE AND LEFT DOUBLE
 <U2556> IGNORE;IGNORE;IGNORE;<U2556> % BOX DRAWINGS DOWN DOUBLE AND LEFT SINGLE
 <U2557> IGNORE;IGNORE;IGNORE;<U2557> % BOX DRAWINGS DOUBLE DOWN AND LEFT
 <U2558> IGNORE;IGNORE;IGNORE;<U2558> % BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE
 <U2559> IGNORE;IGNORE;IGNORE;<U2559> % BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE
 <U255A> IGNORE;IGNORE;IGNORE;<U255A> % BOX DRAWINGS DOUBLE UP AND RIGHT
 <U255B> IGNORE;IGNORE;IGNORE;<U255B> % BOX DRAWINGS UP SINGLE AND LEFT DOUBLE
 <U255C> IGNORE;IGNORE;IGNORE;<U255C> % BOX DRAWINGS UP DOUBLE AND LEFT SINGLE
 <U255D> IGNORE;IGNORE;IGNORE;<U255D> % BOX DRAWINGS DOUBLE UP AND LEFT
 <U255E> IGNORE;IGNORE;IGNORE;<U255E> % BOX DRAWINGS VERTICAL SINGLE AND RIGHT DOUBLE
 <U255F> IGNORE;IGNORE;IGNORE;<U255F> % BOX DRAWINGS VERTICAL DOUBLE AND RIGHT SINGLE
 <U2560> IGNORE;IGNORE;IGNORE;<U2560> % BOX DRAWINGS DOUBLE VERTICAL AND RIGHT
 <U2561> IGNORE;IGNORE;IGNORE;<U2561> % BOX DRAWINGS VERTICAL SINGLE AND LEFT DOUBLE
 <U2562> IGNORE;IGNORE;IGNORE;<U2562> % BOX DRAWINGS VERTICAL DOUBLE AND LEFT SINGLE
 <U2563> IGNORE;IGNORE;IGNORE;<U2563> % BOX DRAWINGS DOUBLE VERTICAL AND LEFT
 <U2564> IGNORE;IGNORE;IGNORE;<U2564> % BOX DRAWINGS DOWN SINGLE AND HORIZONTAL DOUBLE
 <U2565> IGNORE;IGNORE;IGNORE;<U2565> % BOX DRAWINGS DOWN DOUBLE AND HORIZONTAL SINGLE
 <U2566> IGNORE;IGNORE;IGNORE;<U2566> % BOX DRAWINGS DOUBLE DOWN AND HORIZONTAL
 <U2567> IGNORE;IGNORE;IGNORE;<U2567> % BOX DRAWINGS UP SINGLE AND HORIZONTAL DOUBLE
 <U2568> IGNORE;IGNORE;IGNORE;<U2568> % BOX DRAWINGS UP DOUBLE AND HORIZONTAL SINGLE
 <U2569> IGNORE;IGNORE;IGNORE;<U2569> % BOX DRAWINGS DOUBLE UP AND HORIZONTAL
 <U256A> IGNORE;IGNORE;IGNORE;<U256A> % BOX DRAWINGS VERTICAL SINGLE AND HORIZONTAL DOUBLE
 <U256B> IGNORE;IGNORE;IGNORE;<U256B> % BOX DRAWINGS VERTICAL DOUBLE AND HORIZONTAL SINGLE
 <U256C> IGNORE;IGNORE;IGNORE;<U256C> % BOX DRAWINGS DOUBLE VERTICAL AND HORIZONTAL
 <U256D> IGNORE;IGNORE;IGNORE;<U256D> % BOX DRAWINGS LIGHT ARC DOWN AND RIGHT
 <U256E> IGNORE;IGNORE;IGNORE;<U256E> % BOX DRAWINGS LIGHT ARC DOWN AND LEFT
 <U256F> IGNORE;IGNORE;IGNORE;<U256F> % BOX DRAWINGS LIGHT ARC UP AND LEFT
 <U2570> IGNORE;IGNORE;IGNORE;<U2570> % BOX DRAWINGS LIGHT ARC UP AND RIGHT
 <U2571> IGNORE;IGNORE;IGNORE;<U2571> % BOX DRAWINGS LIGHT DIAGONAL UPPER RIGHT TO LOWER LEFT
 <U2572> IGNORE;IGNORE;IGNORE;<U2572> % BOX DRAWINGS LIGHT DIAGONAL UPPER LEFT TO LOWER RIGHT
 <U2573> IGNORE;IGNORE;IGNORE;<U2573> % BOX DRAWINGS LIGHT DIAGONAL CROSS
 <U2574> IGNORE;IGNORE;IGNORE;<U2574> % BOX DRAWINGS LIGHT LEFT
 <U2575> IGNORE;IGNORE;IGNORE;<U2575> % BOX DRAWINGS LIGHT UP
 <U2576> IGNORE;IGNORE;IGNORE;<U2576> % BOX DRAWINGS LIGHT RIGHT
 <U2577> IGNORE;IGNORE;IGNORE;<U2577> % BOX DRAWINGS LIGHT DOWN
 <U2578> IGNORE;IGNORE;IGNORE;<U2578> % BOX DRAWINGS HEAVY LEFT
 <U2579> IGNORE;IGNORE;IGNORE;<U2579> % BOX DRAWINGS HEAVY UP
 <U257A> IGNORE;IGNORE;IGNORE;<U257A> % BOX DRAWINGS HEAVY RIGHT
 <U257B> IGNORE;IGNORE;IGNORE;<U257B> % BOX DRAWINGS HEAVY DOWN
 <U257C> IGNORE;IGNORE;IGNORE;<U257C> % BOX DRAWINGS LIGHT LEFT AND HEAVY RIGHT
 <U257D> IGNORE;IGNORE;IGNORE;<U257D> % BOX DRAWINGS LIGHT UP AND HEAVY DOWN
 <U257E> IGNORE;IGNORE;IGNORE;<U257E> % BOX DRAWINGS HEAVY LEFT AND LIGHT RIGHT
 <U257F> IGNORE;IGNORE;IGNORE;<U257F> % BOX DRAWINGS HEAVY UP AND LIGHT DOWN
 <U2580> IGNORE;IGNORE;IGNORE;<U2580> % UPPER HALF BLOCK
 <U2581> IGNORE;IGNORE;IGNORE;<U2581> % LOWER ONE EIGHTH BLOCK
 <U2582> IGNORE;IGNORE;IGNORE;<U2582> % LOWER ONE QUARTER BLOCK
 <U2583> IGNORE;IGNORE;IGNORE;<U2583> % LOWER THREE EIGHTHS BLOCK
 <U2584> IGNORE;IGNORE;IGNORE;<U2584> % LOWER HALF BLOCK
 <U2585> IGNORE;IGNORE;IGNORE;<U2585> % LOWER FIVE EIGHTHS BLOCK
 <U2586> IGNORE;IGNORE;IGNORE;<U2586> % LOWER THREE QUARTERS BLOCK
 <U2587> IGNORE;IGNORE;IGNORE;<U2587> % LOWER SEVEN EIGHTHS BLOCK
 <U2588> IGNORE;IGNORE;IGNORE;<U2588> % FULL BLOCK
 <U2589> IGNORE;IGNORE;IGNORE;<U2589> % LEFT SEVEN EIGHTHS BLOCK
 <U258A> IGNORE;IGNORE;IGNORE;<U258A> % LEFT THREE QUARTERS BLOCK
 <U258B> IGNORE;IGNORE;IGNORE;<U258B> % LEFT FIVE EIGHTHS BLOCK
 <U258C> IGNORE;IGNORE;IGNORE;<U258C> % LEFT HALF BLOCK
 <U258D> IGNORE;IGNORE;IGNORE;<U258D> % LEFT THREE EIGHTHS BLOCK
 <U258E> IGNORE;IGNORE;IGNORE;<U258E> % LEFT ONE QUARTER BLOCK
 <U258F> IGNORE;IGNORE;IGNORE;<U258F> % LEFT ONE EIGHTH BLOCK

<U2590> IGNORE;IGNORE;IGNORE;<U2590> % RIGHT HALF BLOCK
 <U2591> IGNORE;IGNORE;IGNORE;<U2591> % LIGHT SHADE
 <U2592> IGNORE;IGNORE;IGNORE;<U2592> % MEDIUM SHADE
 <U2593> IGNORE;IGNORE;IGNORE;<U2593> % DARK SHADE
 <U2594> IGNORE;IGNORE;IGNORE;<U2594> % UPPER ONE EIGHTH BLOCK
 <U2595> IGNORE;IGNORE;IGNORE;<U2595> % RIGHT ONE EIGHTH BLOCK
 <U25A0> IGNORE;IGNORE;IGNORE;<U25A0> % BLACK SQUARE
 <U25A1> IGNORE;IGNORE;IGNORE;<U25A1> % WHITE SQUARE
 <U25A2> IGNORE;IGNORE;IGNORE;<U25A2> % WHITE SQUARE WITH ROUNDED CORNERS
 <U25A3> IGNORE;IGNORE;IGNORE;<U25A3> % WHITE SQUARE CONTAINING BLACK SMALL SQUARE
 <U25A4> IGNORE;IGNORE;IGNORE;<U25A4> % SQUARE WITH HORIZONTAL FILL
 <U25A5> IGNORE;IGNORE;IGNORE;<U25A5> % SQUARE WITH VERTICAL FILL
 <U25A6> IGNORE;IGNORE;IGNORE;<U25A6> % SQUARE WITH ORTHOGONAL CROSSHATCH FILL
 <U25A7> IGNORE;IGNORE;IGNORE;<U25A7> % SQUARE WITH UPPER LEFT TO LOWER RIGHT FILL
 <U25A8> IGNORE;IGNORE;IGNORE;<U25A8> % SQUARE WITH UPPER RIGHT TO LOWER LEFT FILL
 <U25A9> IGNORE;IGNORE;IGNORE;<U25A9> % SQUARE WITH DIAGONAL CROSSHATCH FILL
 <U25AA> IGNORE;IGNORE;IGNORE;<U25AA> % BLACK SMALL SQUARE
 <U25AB> IGNORE;IGNORE;IGNORE;<U25AB> % WHITE SMALL SQUARE
 <U25AC> IGNORE;IGNORE;IGNORE;<U25AC> % BLACK RECTANGLE
 <U25AD> IGNORE;IGNORE;IGNORE;<U25AD> % WHITE RECTANGLE
 <U25AE> IGNORE;IGNORE;IGNORE;<U25AE> % BLACK VERTICAL RECTANGLE
 <U25AF> IGNORE;IGNORE;IGNORE;<U25AF> % WHITE VERTICAL RECTANGLE
 <U25B0> IGNORE;IGNORE;IGNORE;<U25B0> % BLACK PARALLELOGRAM
 <U25B1> IGNORE;IGNORE;IGNORE;<U25B1> % WHITE PARALLELOGRAM
 <U25B2> IGNORE;IGNORE;IGNORE;<U25B2> % BLACK UP-POINTING TRIANGLE
 <U25B3> IGNORE;IGNORE;IGNORE;<U25B3> % WHITE UP-POINTING TRIANGLE
 <U25B4> IGNORE;IGNORE;IGNORE;<U25B4> % BLACK UP-POINTING SMALL TRIANGLE
 <U25B5> IGNORE;IGNORE;IGNORE;<U25B5> % WHITE UP-POINTING SMALL TRIANGLE
 <U25B6> IGNORE;IGNORE;IGNORE;<U25B6> % BLACK RIGHT-POINTING TRIANGLE
 <U25B7> IGNORE;IGNORE;IGNORE;<U25B7> % WHITE RIGHT-POINTING TRIANGLE
 <U25B8> IGNORE;IGNORE;IGNORE;<U25B8> % BLACK RIGHT-POINTING SMALL TRIANGLE
 <U25B9> IGNORE;IGNORE;IGNORE;<U25B9> % WHITE RIGHT-POINTING SMALL TRIANGLE
 <U25BA> IGNORE;IGNORE;IGNORE;<U25BA> % BLACK RIGHT-POINTING POINTER
 <U25BB> IGNORE;IGNORE;IGNORE;<U25BB> % WHITE RIGHT-POINTING POINTER
 <U25BC> IGNORE;IGNORE;IGNORE;<U25BC> % BLACK DOWN-POINTING TRIANGLE
 <U25BD> IGNORE;IGNORE;IGNORE;<U25BD> % WHITE DOWN-POINTING TRIANGLE
 <U25BE> IGNORE;IGNORE;IGNORE;<U25BE> % BLACK DOWN-POINTING SMALL TRIANGLE
 <U25BF> IGNORE;IGNORE;IGNORE;<U25BF> % WHITE DOWN-POINTING SMALL TRIANGLE
 <U25C0> IGNORE;IGNORE;IGNORE;<U25C0> % BLACK LEFT-POINTING TRIANGLE
 <U25C1> IGNORE;IGNORE;IGNORE;<U25C1> % WHITE LEFT-POINTING TRIANGLE
 <U25C2> IGNORE;IGNORE;IGNORE;<U25C2> % BLACK LEFT-POINTING SMALL TRIANGLE
 <U25C3> IGNORE;IGNORE;IGNORE;<U25C3> % WHITE LEFT-POINTING SMALL TRIANGLE
 <U25C4> IGNORE;IGNORE;IGNORE;<U25C4> % BLACK LEFT-POINTING POINTER
 <U25C5> IGNORE;IGNORE;IGNORE;<U25C5> % WHITE LEFT-POINTING POINTER
 <U25C6> IGNORE;IGNORE;IGNORE;<U25C6> % BLACK DIAMOND
 <U25C7> IGNORE;IGNORE;IGNORE;<U25C7> % WHITE DIAMOND
 <U25C8> IGNORE;IGNORE;IGNORE;<U25C8> % WHITE DIAMOND CONTAINING BLACK SMALL DIAMOND
 <U25C9> IGNORE;IGNORE;IGNORE;<U25C9> % FISHEYE
 <U25CA> IGNORE;IGNORE;IGNORE;<U25CA> % LOZENGE
 <U25CB> IGNORE;IGNORE;IGNORE;<U25CB> % WHITE CIRCLE
 <U25CC> IGNORE;IGNORE;IGNORE;<U25CC> % DOTTED CIRCLE
 <U25CD> IGNORE;IGNORE;IGNORE;<U25CD> % CIRCLE WITH VERTICAL FILL
 <U25CE> IGNORE;IGNORE;IGNORE;<U25CE> % BULLSEYE
 <U25CF> IGNORE;IGNORE;IGNORE;<U25CF> % BLACK CIRCLE
 <U25D0> IGNORE;IGNORE;IGNORE;<U25D0> % CIRCLE WITH LEFT HALF BLACK
 <U25D1> IGNORE;IGNORE;IGNORE;<U25D1> % CIRCLE WITH RIGHT HALF BLACK
 <U25D2> IGNORE;IGNORE;IGNORE;<U25D2> % CIRCLE WITH LOWER HALF BLACK
 <U25D3> IGNORE;IGNORE;IGNORE;<U25D3> % CIRCLE WITH UPPER HALF BLACK
 <U25D4> IGNORE;IGNORE;IGNORE;<U25D4> % CIRCLE WITH UPPER RIGHT QUADRANT BLACK
 <U25D5> IGNORE;IGNORE;IGNORE;<U25D5> % CIRCLE WITH ALL BUT UPPER LEFT QUADRANT BLACK
 <U25D6> IGNORE;IGNORE;IGNORE;<U25D6> % LEFT HALF BLACK CIRCLE
 <U25D7> IGNORE;IGNORE;IGNORE;<U25D7> % RIGHT HALF BLACK CIRCLE
 <U25D8> IGNORE;IGNORE;IGNORE;<U25D8> % INVERSE BULLET
 <U25D9> IGNORE;IGNORE;IGNORE;<U25D9> % INVERSE WHITE CIRCLE
 <U25DA> IGNORE;IGNORE;IGNORE;<U25DA> % UPPER HALF INVERSE WHITE CIRCLE
 <U25DB> IGNORE;IGNORE;IGNORE;<U25DB> % LOWER HALF INVERSE WHITE CIRCLE
 <U25DC> IGNORE;IGNORE;IGNORE;<U25DC> % UPPER LEFT QUADRANT CIRCULAR ARC
 <U25DD> IGNORE;IGNORE;IGNORE;<U25DD> % UPPER RIGHT QUADRANT CIRCULAR ARC
 <U25DE> IGNORE;IGNORE;IGNORE;<U25DE> % LOWER RIGHT QUADRANT CIRCULAR ARC
 <U25DF> IGNORE;IGNORE;IGNORE;<U25DF> % LOWER LEFT QUADRANT CIRCULAR ARC
 <U25E0> IGNORE;IGNORE;IGNORE;<U25E0> % UPPER HALF CIRCLE
 <U25E1> IGNORE;IGNORE;IGNORE;<U25E1> % LOWER HALF CIRCLE
 <U25E2> IGNORE;IGNORE;IGNORE;<U25E2> % BLACK LOWER RIGHT TRIANGLE
 <U25E3> IGNORE;IGNORE;IGNORE;<U25E3> % BLACK LOWER LEFT TRIANGLE
 <U25E4> IGNORE;IGNORE;IGNORE;<U25E4> % BLACK UPPER LEFT TRIANGLE
 <U25E5> IGNORE;IGNORE;IGNORE;<U25E5> % BLACK UPPER RIGHT TRIANGLE
 <U25E6> IGNORE;IGNORE;IGNORE;<U25E6> % WHITE BULLET
 <U25E7> IGNORE;IGNORE;IGNORE;<U25E7> % SQUARE WITH LEFT HALF BLACK
 <U25E8> IGNORE;IGNORE;IGNORE;<U25E8> % SQUARE WITH RIGHT HALF BLACK
 <U25E9> IGNORE;IGNORE;IGNORE;<U25E9> % SQUARE WITH UPPER LEFT DIAGONAL HALF BLACK
 <U25EA> IGNORE;IGNORE;IGNORE;<U25EA> % SQUARE WITH LOWER RIGHT DIAGONAL HALF BLACK
 <U25EB> IGNORE;IGNORE;IGNORE;<U25EB> % WHITE SQUARE WITH VERTICAL BISECTING LINE
 <U25EC> IGNORE;IGNORE;IGNORE;<U25EC> % WHITE UP-POINTING TRIANGLE WITH DOT
 <U25ED> IGNORE;IGNORE;IGNORE;<U25ED> % UP-POINTING TRIANGLE WITH LEFT HALF BLACK
 <U25EE> IGNORE;IGNORE;IGNORE;<U25EE> % UP-POINTING TRIANGLE WITH RIGHT HALF BLACK
 <U25EF> IGNORE;IGNORE;IGNORE;<U25EF> % LARGE CIRCLE
 <U2600> IGNORE;IGNORE;IGNORE;<U2600> % BLACK SUN WITH RAYS

<U2601> IGNORE;IGNORE;IGNORE;<U2601> % CLOUD
 <U2602> IGNORE;IGNORE;IGNORE;<U2602> % UMBRELLA
 <U2603> IGNORE;IGNORE;IGNORE;<U2603> % SNOWMAN
 <U2604> IGNORE;IGNORE;IGNORE;<U2604> % COMET
 <U2605> IGNORE;IGNORE;IGNORE;<U2605> % BLACK STAR
 <U2606> IGNORE;IGNORE;IGNORE;<U2606> % WHITE STAR
 <U2607> IGNORE;IGNORE;IGNORE;<U2607> % LIGHTNING
 <U2608> IGNORE;IGNORE;IGNORE;<U2608> % THUNDERSTORM
 <U2609> IGNORE;IGNORE;IGNORE;<U2609> % SUN
 <U260A> IGNORE;IGNORE;IGNORE;<U260A> % ASCENDING NODE
 <U260B> IGNORE;IGNORE;IGNORE;<U260B> % DESCENDING NODE
 <U260C> IGNORE;IGNORE;IGNORE;<U260C> % CONJUNCTION
 <U260D> IGNORE;IGNORE;IGNORE;<U260D> % OPPOSITION
 <U260E> IGNORE;IGNORE;IGNORE;<U260E> % BLACK TELEPHONE
 <U260F> IGNORE;IGNORE;IGNORE;<U260F> % WHITE TELEPHONE
 <U2610> IGNORE;IGNORE;IGNORE;<U2610> % BALLOT BOX
 <U2611> IGNORE;IGNORE;IGNORE;<U2611> % BALLOT BOX WITH CHECK
 <U2612> IGNORE;IGNORE;IGNORE;<U2612> % BALLOT BOX WITH X
 <U2613> IGNORE;IGNORE;IGNORE;<U2613> % SALTIRE
 <U261A> IGNORE;IGNORE;IGNORE;<U261A> % BLACK LEFT POINTING INDEX
 <U261B> IGNORE;IGNORE;IGNORE;<U261B> % BLACK RIGHT POINTING INDEX
 <U261C> IGNORE;IGNORE;IGNORE;<U261C> % WHITE LEFT POINTING INDEX
 <U261D> IGNORE;IGNORE;IGNORE;<U261D> % WHITE UP POINTING INDEX
 <U261E> IGNORE;IGNORE;IGNORE;<U261E> % WHITE RIGHT POINTING INDEX
 <U261F> IGNORE;IGNORE;IGNORE;<U261F> % WHITE DOWN POINTING INDEX
 <U2620> IGNORE;IGNORE;IGNORE;<U2620> % SKULL AND CROSSBONES
 <U2621> IGNORE;IGNORE;IGNORE;<U2621> % CAUTION SIGN
 <U2622> IGNORE;IGNORE;IGNORE;<U2622> % RADIOACTIVE SIGN
 <U2623> IGNORE;IGNORE;IGNORE;<U2623> % BIOHAZARD SIGN
 <U2624> IGNORE;IGNORE;IGNORE;<U2624> % CADUCEUS
 <U2625> IGNORE;IGNORE;IGNORE;<U2625> % ANKH
 <U2626> IGNORE;IGNORE;IGNORE;<U2626> % ORTHODOX CROSS
 <U2627> IGNORE;IGNORE;IGNORE;<U2627> % CHI RHO
 <U2628> IGNORE;IGNORE;IGNORE;<U2628> % CROSS OF LORRAINE
 <U2629> IGNORE;IGNORE;IGNORE;<U2629> % CROSS OF JERUSALEM
 <U262A> IGNORE;IGNORE;IGNORE;<U262A> % STAR AND CRESCENT
 <U262B> IGNORE;IGNORE;IGNORE;<U262B> % FARSI SYMBOL
 <U262C> IGNORE;IGNORE;IGNORE;<U262C> % ADI SHAKTI
 <U262D> IGNORE;IGNORE;IGNORE;<U262D> % HAMMER AND SICKLE
 <U262E> IGNORE;IGNORE;IGNORE;<U262E> % PEACE SYMBOL
 <U262F> IGNORE;IGNORE;IGNORE;<U262F> % YIN YANG
 <U2630> IGNORE;IGNORE;IGNORE;<U2630> % TRIGRAM FOR HEAVEN
 <U2631> IGNORE;IGNORE;IGNORE;<U2631> % TRIGRAM FOR LAKE
 <U2632> IGNORE;IGNORE;IGNORE;<U2632> % TRIGRAM FOR FIRE
 <U2633> IGNORE;IGNORE;IGNORE;<U2633> % TRIGRAM FOR THUNDER
 <U2634> IGNORE;IGNORE;IGNORE;<U2634> % TRIGRAM FOR WIND
 <U2635> IGNORE;IGNORE;IGNORE;<U2635> % TRIGRAM FOR WATER
 <U2636> IGNORE;IGNORE;IGNORE;<U2636> % TRIGRAM FOR MOUNTAIN
 <U2637> IGNORE;IGNORE;IGNORE;<U2637> % TRIGRAM FOR EARTH
 <U2638> IGNORE;IGNORE;IGNORE;<U2638> % WHEEL OF DHARMA
 <U2639> IGNORE;IGNORE;IGNORE;<U2639> % WHITE FROWNING FACE
 <U263A> IGNORE;IGNORE;IGNORE;<U263A> % WHITE SMILING FACE
 <U263B> IGNORE;IGNORE;IGNORE;<U263B> % BLACK SMILING FACE
 <U263C> IGNORE;IGNORE;IGNORE;<U263C> % WHITE SUN WITH RAYS
 <U263D> IGNORE;IGNORE;IGNORE;<U263D> % FIRST QUARTER MOON
 <U263E> IGNORE;IGNORE;IGNORE;<U263E> % LAST QUARTER MOON
 <U263F> IGNORE;IGNORE;IGNORE;<U263F> % MERCURY
 <U2640> IGNORE;IGNORE;IGNORE;<U2640> % FEMALE SIGN
 <U2641> IGNORE;IGNORE;IGNORE;<U2641> % EARTH
 <U2642> IGNORE;IGNORE;IGNORE;<U2642> % MALE SIGN
 <U2643> IGNORE;IGNORE;IGNORE;<U2643> % JUPITER
 <U2644> IGNORE;IGNORE;IGNORE;<U2644> % SATURN
 <U2645> IGNORE;IGNORE;IGNORE;<U2645> % URANUS
 <U2646> IGNORE;IGNORE;IGNORE;<U2646> % NEPTUNE
 <U2647> IGNORE;IGNORE;IGNORE;<U2647> % PLUTO
 <U2648> IGNORE;IGNORE;IGNORE;<U2648> % ARIES
 <U2649> IGNORE;IGNORE;IGNORE;<U2649> % TAURUS
 <U264A> IGNORE;IGNORE;IGNORE;<U264A> % GEMINI
 <U264B> IGNORE;IGNORE;IGNORE;<U264B> % CANCER
 <U264C> IGNORE;IGNORE;IGNORE;<U264C> % LEO
 <U264D> IGNORE;IGNORE;IGNORE;<U264D> % VIRGO
 <U264E> IGNORE;IGNORE;IGNORE;<U264E> % LIBRA
 <U264F> IGNORE;IGNORE;IGNORE;<U264F> % SCORPIUS
 <U2650> IGNORE;IGNORE;IGNORE;<U2650> % SAGITTARIUS
 <U2651> IGNORE;IGNORE;IGNORE;<U2651> % CAPRICORN
 <U2652> IGNORE;IGNORE;IGNORE;<U2652> % AQUARIUS
 <U2653> IGNORE;IGNORE;IGNORE;<U2653> % PISCES
 <U2654> IGNORE;IGNORE;IGNORE;<U2654> % WHITE CHESS KING
 <U2655> IGNORE;IGNORE;IGNORE;<U2655> % WHITE CHESS QUEEN
 <U2656> IGNORE;IGNORE;IGNORE;<U2656> % WHITE CHESS ROOK
 <U2657> IGNORE;IGNORE;IGNORE;<U2657> % WHITE CHESS BISHOP
 <U2658> IGNORE;IGNORE;IGNORE;<U2658> % WHITE CHESS KNIGHT
 <U2659> IGNORE;IGNORE;IGNORE;<U2659> % WHITE CHESS PAWN
 <U265A> IGNORE;IGNORE;IGNORE;<U265A> % BLACK CHESS KING
 <U265B> IGNORE;IGNORE;IGNORE;<U265B> % BLACK CHESS QUEEN
 <U265C> IGNORE;IGNORE;IGNORE;<U265C> % BLACK CHESS ROOK
 <U265D> IGNORE;IGNORE;IGNORE;<U265D> % BLACK CHESS BISHOP

<U265E> IGNORE;IGNORE;IGNORE;<U265E> % BLACK CHESS KNIGHT
 <U265F> IGNORE;IGNORE;IGNORE;<U265F> % BLACK CHESS PAWN
 <U2660> IGNORE;IGNORE;IGNORE;<U2660> % BLACK SPADE SUIT
 <U2661> IGNORE;IGNORE;IGNORE;<U2661> % WHITE HEART SUIT
 <U2662> IGNORE;IGNORE;IGNORE;<U2662> % WHITE DIAMOND SUIT
 <U2663> IGNORE;IGNORE;IGNORE;<U2663> % BLACK CLUB SUIT
 <U2664> IGNORE;IGNORE;IGNORE;<U2664> % WHITE SPADE SUIT
 <U2665> IGNORE;IGNORE;IGNORE;<U2665> % BLACK HEART SUIT
 <U2666> IGNORE;IGNORE;IGNORE;<U2666> % BLACK DIAMOND SUIT
 <U2667> IGNORE;IGNORE;IGNORE;<U2667> % WHITE CLUB SUIT
 <U2668> IGNORE;IGNORE;IGNORE;<U2668> % HOT SPRINGS
 <U2669> IGNORE;IGNORE;IGNORE;<U2669> % QUARTER NOTE
 <U266A> IGNORE;IGNORE;IGNORE;<U266A> % EIGHTH NOTE
 <U266B> IGNORE;IGNORE;IGNORE;<U266B> % BEAMED EIGHTH NOTES
 <U266C> IGNORE;IGNORE;IGNORE;<U266C> % BEAMED SIXTEENTH NOTES
 <U2701> IGNORE;IGNORE;IGNORE;<U2701> % UPPER BLADE SCISSORS
 <U2702> IGNORE;IGNORE;IGNORE;<U2702> % BLACK SCISSORS
 <U2703> IGNORE;IGNORE;IGNORE;<U2703> % LOWER BLADE SCISSORS
 <U2704> IGNORE;IGNORE;IGNORE;<U2704> % WHITE SCISSORS
 <U2706> IGNORE;IGNORE;IGNORE;<U2706> % TELEPHONE LOCATION SIGN
 <U2707> IGNORE;IGNORE;IGNORE;<U2707> % TAPE DRIVE
 <U2708> IGNORE;IGNORE;IGNORE;<U2708> % AIRPLANE
 <U2709> IGNORE;IGNORE;IGNORE;<U2709> % ENVELOPE
 <U270C> IGNORE;IGNORE;IGNORE;<U270C> % VICTORY HAND
 <U270D> IGNORE;IGNORE;IGNORE;<U270D> % WRITING HAND
 <U270E> IGNORE;IGNORE;IGNORE;<U270E> % LOWER RIGHT PENCIL
 <U270F> IGNORE;IGNORE;IGNORE;<U270F> % PENCIL
 <U2710> IGNORE;IGNORE;IGNORE;<U2710> % UPPER RIGHT PENCIL
 <U2711> IGNORE;IGNORE;IGNORE;<U2711> % WHITE NIB
 <U2712> IGNORE;IGNORE;IGNORE;<U2712> % BLACK NIB
 <U2713> IGNORE;IGNORE;IGNORE;<U2713> % CHECK MARK
 <U2714> IGNORE;IGNORE;IGNORE;<U2714> % HEAVY CHECK MARK
 <U2715> IGNORE;IGNORE;IGNORE;<U2715> % MULTIPLICATION X
 <U2716> IGNORE;IGNORE;IGNORE;<U2716> % HEAVY MULTIPLICATION X
 <U2717> IGNORE;IGNORE;IGNORE;<U2717> % BALLOT X
 <U2718> IGNORE;IGNORE;IGNORE;<U2718> % HEAVY BALLOT X
 <U2719> IGNORE;IGNORE;IGNORE;<U2719> % OUTLINED GREEK CROSS
 <U271A> IGNORE;IGNORE;IGNORE;<U271A> % HEAVY GREEK CROSS
 <U271B> IGNORE;IGNORE;IGNORE;<U271B> % OPEN CENTRE CROSS
 <U271C> IGNORE;IGNORE;IGNORE;<U271C> % HEAVY OPEN CENTRE CROSS
 <U271D> IGNORE;IGNORE;IGNORE;<U271D> % LATIN CROSS
 <U271E> IGNORE;IGNORE;IGNORE;<U271E> % SHADOWED WHITE LATIN CROSS
 <U271F> IGNORE;IGNORE;IGNORE;<U271F> % OUTLINED LATIN CROSS
 <U2720> IGNORE;IGNORE;IGNORE;<U2720> % MALTESE CROSS
 <U2721> IGNORE;IGNORE;IGNORE;<U2721> % STAR OF DAVID
 <U2722> IGNORE;IGNORE;IGNORE;<U2722> % FOUR TEARDROP-SPOKED ASTERISK
 <U2723> IGNORE;IGNORE;IGNORE;<U2723> % FOUR BALLOON-SPOKED ASTERISK
 <U2724> IGNORE;IGNORE;IGNORE;<U2724> % HEAVY FOUR BALLOON-SPOKED ASTERISK
 <U2725> IGNORE;IGNORE;IGNORE;<U2725> % FOUR CLUB-SPOKED ASTERISK
 <U2726> IGNORE;IGNORE;IGNORE;<U2726> % BLACK FOUR POINTED STAR
 <U2727> IGNORE;IGNORE;IGNORE;<U2727> % WHITE FOUR POINTED STAR
 <U2729> IGNORE;IGNORE;IGNORE;<U2729> % STRESS-OUTLINED-WHITE STAR
 <U272A> IGNORE;IGNORE;IGNORE;<U272A> % CIRCLED-WHITE STAR
 <U272B> IGNORE;IGNORE;IGNORE;<U272B> % OPEN CENTRE BLACK STAR
 <U272C> IGNORE;IGNORE;IGNORE;<U272C> % BLACK CENTRE-WHITE STAR
 <U272D> IGNORE;IGNORE;IGNORE;<U272D> % OUTLINED-BLACK STAR
 <U272E> IGNORE;IGNORE;IGNORE;<U272E> % HEAVY OUTLINED-BLACK STAR
 <U272F> IGNORE;IGNORE;IGNORE;<U272F> % PINWHEEL STAR
 <U2730> IGNORE;IGNORE;IGNORE;<U2730> % SHADOWED-WHITE STAR
 <U2731> IGNORE;IGNORE;IGNORE;<U2731> % HEAVY ASTERISK
 <U2732> IGNORE;IGNORE;IGNORE;<U2732> % OPEN CENTRE ASTERISK
 <U2733> IGNORE;IGNORE;IGNORE;<U2733> % EIGHT-SPOKED ASTERISK
 <U2734> IGNORE;IGNORE;IGNORE;<U2734> % EIGHT-POINTED-BLACK STAR
 <U2735> IGNORE;IGNORE;IGNORE;<U2735> % EIGHT-POINTED-PINWHEEL STAR
 <U2736> IGNORE;IGNORE;IGNORE;<U2736> % SIX-POINTED-BLACK STAR
 <U2737> IGNORE;IGNORE;IGNORE;<U2737> % EIGHT-POINTED-RECTILINEAR-BLACK STAR
 <U2738> IGNORE;IGNORE;IGNORE;<U2738> % HEAVY-EIGHT-POINTED-RECTILINEAR-BLACK STAR
 <U2739> IGNORE;IGNORE;IGNORE;<U2739> % TWELVE-POINTED-BLACK STAR
 <U273A> IGNORE;IGNORE;IGNORE;<U273A> % SIXTEEN-POINTED ASTERISK
 <U273B> IGNORE;IGNORE;IGNORE;<U273B> % TEARDROP-SPOKED ASTERISK
 <U273C> IGNORE;IGNORE;IGNORE;<U273C> % OPEN CENTRE TEARDROP-SPOKED ASTERISK
 <U273D> IGNORE;IGNORE;IGNORE;<U273D> % HEAVY TEARDROP-SPOKED ASTERISK
 <U273E> IGNORE;IGNORE;IGNORE;<U273E> % SIX-PETALLED-BLACK-AND-WHITE-FLORETTE
 <U273F> IGNORE;IGNORE;IGNORE;<U273F> % BLACK-FLORETTE
 <U2740> IGNORE;IGNORE;IGNORE;<U2740> % WHITE-FLORETTE
 <U2741> IGNORE;IGNORE;IGNORE;<U2741> % EIGHT-PETALLED-OUTLINED-BLACK-FLORETTE
 <U2742> IGNORE;IGNORE;IGNORE;<U2742> % CIRCLED-OPEN-CENTRE-EIGHT-POINTED STAR
 <U2743> IGNORE;IGNORE;IGNORE;<U2743> % HEAVY TEARDROP-SPOKED-PINWHEEL-ASTERISK
 <U2744> IGNORE;IGNORE;IGNORE;<U2744> % SNOWFLAKE
 <U2745> IGNORE;IGNORE;IGNORE;<U2745> % TIGHT-TRIFOLIATE-SNOWFLAKE
 <U2746> IGNORE;IGNORE;IGNORE;<U2746> % HEAVY-CHEVRON-SNOWFLAKE
 <U2747> IGNORE;IGNORE;IGNORE;<U2747> % SPARKLE
 <U2748> IGNORE;IGNORE;IGNORE;<U2748> % HEAVY-SPARKLE
 <U2749> IGNORE;IGNORE;IGNORE;<U2749> % BALLOON-SPOKED-ASTERISK
 <U274A> IGNORE;IGNORE;IGNORE;<U274A> % EIGHT-TEARDROP-SPOKED-PROPELLER-ASTERISK
 <U274B> IGNORE;IGNORE;IGNORE;<U274B> % HEAVY-EIGHT-TEARDROP-SPOKED-PROPELLER-ASTERISK
 <U274D> IGNORE;IGNORE;IGNORE;<U274D> % SHADOWED-WHITE-CIRCLE

<U274F> IGNORE;IGNORE;IGNORE;<U274F> % LOWER RIGHT DROP SHADOWED WHITE SQUARE
<U2750> IGNORE;IGNORE;IGNORE;<U2750> % UPPER RIGHT DROP SHADOWED WHITE SQUARE
<U2751> IGNORE;IGNORE;IGNORE;<U2751> % LOWER RIGHT SHADOWED WHITE SQUARE
<U2752> IGNORE;IGNORE;IGNORE;<U2752> % UPPER RIGHT SHADOWED WHITE SQUARE
<U2756> IGNORE;IGNORE;IGNORE;<U2756> % BLACK DIAMOND MINUS WHITE X
<U2758> IGNORE;IGNORE;IGNORE;<U2758> % LIGHT VERTICAL BAR
<U2759> IGNORE;IGNORE;IGNORE;<U2759> % MEDIUM VERTICAL BAR
<U275A> IGNORE;IGNORE;IGNORE;<U275A> % HEAVY VERTICAL BAR
<U275B> IGNORE;IGNORE;IGNORE;<U275B> % HEAVY SINGLE TURNED COMMA QUOTATION MARK ORNAMENT
<U275C> IGNORE;IGNORE;IGNORE;<U275C> % HEAVY SINGLE COMMA QUOTATION MARK ORNAMENT
<U275D> IGNORE;IGNORE;IGNORE;<U275D> % HEAVY DOUBLE TURNED COMMA QUOTATION MARK ORNAMENT
<U275E> IGNORE;IGNORE;IGNORE;<U275E> % HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT
<U2761> IGNORE;IGNORE;IGNORE;<U2761> % CURVED STEM PARAGRAPH SIGN ORNAMENT
<U2762> IGNORE;IGNORE;IGNORE;<U2762> % HEAVY EXCLAMATION MARK ORNAMENT
<U2763> IGNORE;IGNORE;IGNORE;<U2763> % HEAVY HEART EXCLAMATION MARK ORNAMENT
<U2764> IGNORE;IGNORE;IGNORE;<U2764> % HEAVY BLACK HEART
<U2765> IGNORE;IGNORE;IGNORE;<U2765> % ROTATED HEAVY BLACK HEART BULLET
<U2766> IGNORE;IGNORE;IGNORE;<U2766> % FLORAL HEART
<U2767> IGNORE;IGNORE;IGNORE;<U2767> % ROTATED FLORAL HEART BULLET
<U277F> IGNORE;IGNORE;IGNORE;<U277F> % DINGBAT NEGATIVE CIRCLED NUMBER TEN
<U2789> IGNORE;IGNORE;IGNORE;<U2789> % DINGBAT CIRCLED SANS-SERIF NUMBER TEN
<U2793> IGNORE;IGNORE;IGNORE;<U2793> % DINGBAT NEGATIVE CIRCLED SANS-SERIF NUMBER TEN
<U2794> IGNORE;IGNORE;IGNORE;<U2794> % HEAVY WIDE-HEADED RIGHTWARDS ARROW
<U2798> IGNORE;IGNORE;IGNORE;<U2798> % HEAVY SOUTH EAST ARROW
<U2799> IGNORE;IGNORE;IGNORE;<U2799> % HEAVY RIGHTWARDS ARROW
<U279A> IGNORE;IGNORE;IGNORE;<U279A> % HEAVY NORTH EAST ARROW
<U279B> IGNORE;IGNORE;IGNORE;<U279B> % DRAFTING POINT RIGHTWARDS ARROW
<U279C> IGNORE;IGNORE;IGNORE;<U279C> % HEAVY ROUND-TIPPED RIGHTWARDS ARROW
<U279D> IGNORE;IGNORE;IGNORE;<U279D> % TRIANGLE-HEADED RIGHTWARDS ARROW
<U279E> IGNORE;IGNORE;IGNORE;<U279E> % HEAVY TRIANGLE-HEADED RIGHTWARDS ARROW
<U279F> IGNORE;IGNORE;IGNORE;<U279F> % DASHED TRIANGLE-HEADED RIGHTWARDS ARROW
<U27A0> IGNORE;IGNORE;IGNORE;<U27A0> % HEAVY DASHED TRIANGLE-HEADED RIGHTWARDS ARROW
<U27A1> IGNORE;IGNORE;IGNORE;<U27A1> % BLACK RIGHTWARDS ARROW
<U27A2> IGNORE;IGNORE;IGNORE;<U27A2> % THREE-D TOP-LIGHTED RIGHTWARDS ARROWHEAD
<U27A3> IGNORE;IGNORE;IGNORE;<U27A3> % THREE-D BOTTOM-LIGHTED RIGHTWARDS ARROWHEAD
<U27A4> IGNORE;IGNORE;IGNORE;<U27A4> % BLACK RIGHTWARDS ARROWHEAD
<U27A5> IGNORE;IGNORE;IGNORE;<U27A5> % HEAVY BLACK CURVED DOWNWARDS AND RIGHTWARDS ARROW
<U27A6> IGNORE;IGNORE;IGNORE;<U27A6> % HEAVY BLACK CURVED UPWARDS AND RIGHTWARDS ARROW
<U27A7> IGNORE;IGNORE;IGNORE;<U27A7> % SQUAT BLACK RIGHTWARDS ARROW
<U27A8> IGNORE;IGNORE;IGNORE;<U27A8> % HEAVY CONCAVE-POINTED BLACK RIGHTWARDS ARROW
<U27A9> IGNORE;IGNORE;IGNORE;<U27A9> % RIGHT SHADED WHITE RIGHTWARDS ARROW
<U27AA> IGNORE;IGNORE;IGNORE;<U27AA> % LEFT SHADED WHITE RIGHTWARDS ARROW
<U27AB> IGNORE;IGNORE;IGNORE;<U27AB> % BACK-TILTED SHADOWED WHITE RIGHTWARDS ARROW
<U27AC> IGNORE;IGNORE;IGNORE;<U27AC> % FRONT-TILTED SHADOWED WHITE RIGHTWARDS ARROW
<U27AD> IGNORE;IGNORE;IGNORE;<U27AD> % HEAVY LOWER RIGHT SHADOWED WHITE RIGHTWARDS ARROW
<U27AE> IGNORE;IGNORE;IGNORE;<U27AE> % HEAVY UPPER RIGHT SHADOWED WHITE RIGHTWARDS ARROW
<U27AF> IGNORE;IGNORE;IGNORE;<U27AF> % NOTCHED LOWER RIGHT SHADOWED WHITE RIGHTWARDS ARROW
<U27B1> IGNORE;IGNORE;IGNORE;<U27B1> % NOTCHED UPPER RIGHT SHADOWED WHITE RIGHTWARDS ARROW
<U27B2> IGNORE;IGNORE;IGNORE;<U27B2> % CIRCLED HEAVY WHITE RIGHTWARDS ARROW
<U27B3> IGNORE;IGNORE;IGNORE;<U27B3> % WHITE FEATHERED RIGHTWARDS ARROW
<U27B4> IGNORE;IGNORE;IGNORE;<U27B4> % BLACK FEATHERED SOUTH EAST ARROW
<U27B5> IGNORE;IGNORE;IGNORE;<U27B5> % BLACK FEATHERED RIGHTWARDS ARROW
<U27B6> IGNORE;IGNORE;IGNORE;<U27B6> % BLACK FEATHERED NORTH EAST ARROW
<U27B7> IGNORE;IGNORE;IGNORE;<U27B7> % HEAVY BLACK FEATHERED SOUTH EAST ARROW
<U27B8> IGNORE;IGNORE;IGNORE;<U27B8> % HEAVY BLACK FEATHERED RIGHTWARDS ARROW
<U27B9> IGNORE;IGNORE;IGNORE;<U27B9> % HEAVY BLACK FEATHERED NORTH EAST ARROW
<U27BA> IGNORE;IGNORE;IGNORE;<U27BA> % TEARDROP BARBED RIGHTWARDS ARROW
<U27BB> IGNORE;IGNORE;IGNORE;<U27BB> % HEAVY TEARDROP-SHANKED RIGHTWARDS ARROW
<U27BC> IGNORE;IGNORE;IGNORE;<U27BC> % WEDGE-TAILED RIGHTWARDS ARROW
<U27BD> IGNORE;IGNORE;IGNORE;<U27BD> % HEAVY WEDGE-TAILED RIGHTWARDS ARROW
<U27BE> IGNORE;IGNORE;IGNORE;<U27BE> % OPEN-OUTLINED RIGHTWARDS ARROW
<U3000> IGNORE;IGNORE;IGNORE;<U3000> % IDEOGRAPHIC SPACE
<U3001> IGNORE;IGNORE;IGNORE;<U3001> % IDEOGRAPHIC COMMA
<U3002> IGNORE;IGNORE;IGNORE;<U3002> % IDEOGRAPHIC FULL STOP
<U3003> IGNORE;IGNORE;IGNORE;<U3003> % DITTO MARK
<U3004> IGNORE;IGNORE;IGNORE;<U3004> % JAPANESE INDUSTRIAL STANDARD SYMBOL
<U3008> IGNORE;IGNORE;IGNORE;<U3008> % LEFT ANGLE BRACKET
<U3009> IGNORE;IGNORE;IGNORE;<U3009> % RIGHT ANGLE BRACKET
<U300A> IGNORE;IGNORE;IGNORE;<U300A> % LEFT DOUBLE ANGLE BRACKET
<U300B> IGNORE;IGNORE;IGNORE;<U300B> % RIGHT DOUBLE ANGLE BRACKET
<U300C> IGNORE;IGNORE;IGNORE;<U300C> % LEFT CORNER BRACKET
<U300D> IGNORE;IGNORE;IGNORE;<U300D> % RIGHT CORNER BRACKET
<U300E> IGNORE;IGNORE;IGNORE;<U300E> % LEFT WHITE CORNER BRACKET
<U300F> IGNORE;IGNORE;IGNORE;<U300F> % RIGHT WHITE CORNER BRACKET
<U3010> IGNORE;IGNORE;IGNORE;<U3010> % LEFT BLACK LENTICULAR BRACKET
<U3011> IGNORE;IGNORE;IGNORE;<U3011> % RIGHT BLACK LENTICULAR BRACKET
<U3012> IGNORE;IGNORE;IGNORE;<U3012> % POSTAL MARK
<U3013> IGNORE;IGNORE;IGNORE;<U3013> % GETA MARK
<U3014> IGNORE;IGNORE;IGNORE;<U3014> % LEFT TORTOISE SHELL BRACKET
<U3015> IGNORE;IGNORE;IGNORE;<U3015> % RIGHT TORTOISE SHELL BRACKET
<U3016> IGNORE;IGNORE;IGNORE;<U3016> % LEFT WHITE LENTICULAR BRACKET
<U3017> IGNORE;IGNORE;IGNORE;<U3017> % RIGHT WHITE LENTICULAR BRACKET
<U3018> IGNORE;IGNORE;IGNORE;<U3018> % LEFT WHITE TORTOISE SHELL BRACKET
<U3019> IGNORE;IGNORE;IGNORE;<U3019> % RIGHT WHITE TORTOISE SHELL BRACKET
<U301A> IGNORE;IGNORE;IGNORE;<U301A> % LEFT WHITE SQUARE BRACKET
<U301B> IGNORE;IGNORE;IGNORE;<U301B> % RIGHT WHITE SQUARE BRACKET
<U301C> IGNORE;IGNORE;IGNORE;<U301C> % WAVE DASH

<U301D> IGNORE;IGNORE;IGNORE;<U301D> % REVERSED DOUBLE PRIME QUOTATION MARK
 <U301E> IGNORE;IGNORE;IGNORE;<U301E> % DOUBLE PRIME QUOTATION MARK
 <U301F> IGNORE;IGNORE;IGNORE;<U301F> % LOW DOUBLE PRIME QUOTATION MARK
 <U3020> IGNORE;IGNORE;IGNORE;<U3020> % POSTAL MARK FACE
 <U3030> IGNORE;IGNORE;IGNORE;<U3030> % WAVY DASH
 <U3036> IGNORE;IGNORE;IGNORE;<U3036> % CIRCLED POSTAL MARK
 <U3037> IGNORE;IGNORE;IGNORE;<U3037> % IDEOGRAPHIC TELEGRAPH LINE FEED SEPARATOR SYMBOL
 <U303F> IGNORE;IGNORE;IGNORE;<U303F> % IDEOGRAPHIC HALF FILL SPACE
 <U309B> IGNORE;IGNORE;IGNORE;<U309B> % KATAKANA-HIRAGANA VOICED SOUND MARK
 <U309C> IGNORE;IGNORE;IGNORE;<U309C> % KATAKANA-HIRAGANA SEMI-VOICED SOUND MARK
 <U30FB> IGNORE;IGNORE;IGNORE;<U30FB> % KATAKANA MIDDLE DOT
 <U3190> IGNORE;IGNORE;IGNORE;<U3190> % IDEOGRAPHIC ANNOTATION LINKING MARK
 <U3191> IGNORE;IGNORE;IGNORE;<U3191> % IDEOGRAPHIC ANNOTATION REVERSE MARK
 <U327F> IGNORE;IGNORE;IGNORE;<U327F> % KOREAN STANDARD SYMBOL
 <UFB29> IGNORE;IGNORE;IGNORE;<UFB29> % HEBREW LETTER ALTERNATIVE PLUS SIGN
 <UFC5E> IGNORE;IGNORE;IGNORE;<UFC5E> % ARABIC LIGATURE SHADDA WITH DAMMATAN ISOLATED FORM
 <UFC5F> IGNORE;IGNORE;IGNORE;<UFC5F> % ARABIC LIGATURE SHADDA WITH KASRATAN ISOLATED FORM
 <UFC60> IGNORE;IGNORE;IGNORE;<UFC60> % ARABIC LIGATURE SHADDA WITH FATHA ISOLATED FORM
 <UFC61> IGNORE;IGNORE;IGNORE;<UFC61> % ARABIC LIGATURE SHADDA WITH DAMMA ISOLATED FORM
 <UFC62> IGNORE;IGNORE;IGNORE;<UFC62> % ARABIC LIGATURE SHADDA WITH KASRA ISOLATED FORM
 <UFC63> IGNORE;IGNORE;IGNORE;<UFC63> % ARABIC LIGATURE SHADDA WITH SUPERSCRIP ALEF ISOLATED FORM
 <UFCF2> IGNORE;IGNORE;IGNORE;<UFCF2> % ARABIC LIGATURE SHADDA WITH FATHA MEDIAL FORM
 <UFCF3> IGNORE;IGNORE;IGNORE;<UFCF3> % ARABIC LIGATURE SHADDA WITH DAMMA MEDIAL FORM
 <UFCF4> IGNORE;IGNORE;IGNORE;<UFCF4> % ARABIC LIGATURE SHADDA WITH KASRA MEDIAL FORM
 <UFD3E> IGNORE;IGNORE;IGNORE;<UFD3E> % ORNATE LEFT PARENTHESIS
 <UFD3F> IGNORE;IGNORE;IGNORE;<UFD3F> % ORNATE RIGHT PARENTHESIS
 <UFE30> IGNORE;IGNORE;IGNORE;<UFE30> % PRESENTATION FORM FOR VERTICAL TWO DOT LEADER
 <UFE31> IGNORE;IGNORE;IGNORE;<UFE31> % PRESENTATION FORM FOR VERTICAL EM DASH
 <UFE32> IGNORE;IGNORE;IGNORE;<UFE32> % PRESENTATION FORM FOR VERTICAL EN DASH
 <UFE33> IGNORE;IGNORE;IGNORE;<UFE33> % PRESENTATION FORM FOR VERTICAL LOW LINE
 <UFE34> IGNORE;IGNORE;IGNORE;<UFE34> % PRESENTATION FORM FOR VERTICAL WAVY LOW LINE
 <UFE35> IGNORE;IGNORE;IGNORE;<UFE35> % PRESENTATION FORM FOR VERTICAL LEFT PARENTHESIS
 <UFE36> IGNORE;IGNORE;IGNORE;<UFE36> % PRESENTATION FORM FOR VERTICAL RIGHT PARENTHESIS
 <UFE37> IGNORE;IGNORE;IGNORE;<UFE37> % PRESENTATION FORM FOR VERTICAL LEFT CURLY BRACKET
 <UFE38> IGNORE;IGNORE;IGNORE;<UFE38> % PRESENTATION FORM FOR VERTICAL RIGHT CURLY BRACKET
 <UFE39> IGNORE;IGNORE;IGNORE;<UFE39> % PRESENTATION FORM FOR VERTICAL LEFT TORTOISE SHELL BRACKET
 <UFE3A> IGNORE;IGNORE;IGNORE;<UFE3A> % PRESENTATION FORM FOR VERTICAL RIGHT TORTOISE SHELL BRACKET
 <UFE3B> IGNORE;IGNORE;IGNORE;<UFE3B> % PRESENTATION FORM FOR VERTICAL LEFT BLACK LENTICULAR BRACKET
 <UFE3C> IGNORE;IGNORE;IGNORE;<UFE3C> % PRESENTATION FORM FOR VERTICAL RIGHT BLACK LENTICULAR BRACKET
 <UFE3D> IGNORE;IGNORE;IGNORE;<UFE3D> % PRESENTATION FORM FOR VERTICAL LEFT DOUBLE ANGLE BRACKET
 <UFE3E> IGNORE;IGNORE;IGNORE;<UFE3E> % PRESENTATION FORM FOR VERTICAL RIGHT DOUBLE ANGLE BRACKET
 <UFE3F> IGNORE;IGNORE;IGNORE;<UFE3F> % PRESENTATION FORM FOR VERTICAL LEFT ANGLE BRACKET
 <UFE40> IGNORE;IGNORE;IGNORE;<UFE40> % PRESENTATION FORM FOR VERTICAL RIGHT ANGLE BRACKET
 <UFE41> IGNORE;IGNORE;IGNORE;<UFE41> % PRESENTATION FORM FOR VERTICAL LEFT CORNER BRACKET
 <UFE42> IGNORE;IGNORE;IGNORE;<UFE42> % PRESENTATION FORM FOR VERTICAL RIGHT CORNER BRACKET
 <UFE43> IGNORE;IGNORE;IGNORE;<UFE43> % PRESENTATION FORM FOR VERTICAL LEFT WHITE CORNER BRACKET
 <UFE44> IGNORE;IGNORE;IGNORE;<UFE44> % PRESENTATION FORM FOR VERTICAL RIGHT WHITE CORNER BRACKET
 <UFE49> IGNORE;IGNORE;IGNORE;<UFE49> % DASHED OVERLINE
 <UFE4A> IGNORE;IGNORE;IGNORE;<UFE4A> % CENTRELINE OVERLINE
 <UFE4B> IGNORE;IGNORE;IGNORE;<UFE4B> % WAVY OVERLINE
 <UFE4C> IGNORE;IGNORE;IGNORE;<UFE4C> % DOUBLE WAVY OVERLINE
 <UFE4D> IGNORE;IGNORE;IGNORE;<UFE4D> % DASHED LOW LINE
 <UFE4E> IGNORE;IGNORE;IGNORE;<UFE4E> % CENTRELINE LOW LINE
 <UFE4F> IGNORE;IGNORE;IGNORE;<UFE4F> % WAVY LOW LINE
 <UFE50> IGNORE;IGNORE;IGNORE;<UFE50> % SMALL COMMA
 <UFE51> IGNORE;IGNORE;IGNORE;<UFE51> % SMALL IDEOGRAPHIC COMMA
 <UFE52> IGNORE;IGNORE;IGNORE;<UFE52> % SMALL FULL STOP
 <UFE54> IGNORE;IGNORE;IGNORE;<UFE54> % SMALL SEMICOLON
 <UFE55> IGNORE;IGNORE;IGNORE;<UFE55> % SMALL COLON
 <UFE56> IGNORE;IGNORE;IGNORE;<UFE56> % SMALL QUESTION MARK
 <UFE57> IGNORE;IGNORE;IGNORE;<UFE57> % SMALL EXCLAMATION MARK
 <UFE58> IGNORE;IGNORE;IGNORE;<UFE58> % SMALL EM DASH
 <UFE59> IGNORE;IGNORE;IGNORE;<UFE59> % SMALL LEFT PARENTHESIS
 <UFE5A> IGNORE;IGNORE;IGNORE;<UFE5A> % SMALL RIGHT PARENTHESIS
 <UFE5B> IGNORE;IGNORE;IGNORE;<UFE5B> % SMALL LEFT CURLY BRACKET
 <UFE5C> IGNORE;IGNORE;IGNORE;<UFE5C> % SMALL RIGHT CURLY BRACKET
 <UFE5D> IGNORE;IGNORE;IGNORE;<UFE5D> % SMALL LEFT TORTOISE SHELL BRACKET
 <UFE5E> IGNORE;IGNORE;IGNORE;<UFE5E> % SMALL RIGHT TORTOISE SHELL BRACKET
 <UFE5F> IGNORE;IGNORE;IGNORE;<UFE5F> % SMALL NUMBER SIGN
 <UFE60> IGNORE;IGNORE;IGNORE;<UFE60> % SMALL AMPERSAND
 <UFE61> IGNORE;IGNORE;IGNORE;<UFE61> % SMALL ASTERISK
 <UFE62> IGNORE;IGNORE;IGNORE;<UFE62> % SMALL PLUS SIGN
 <UFE63> IGNORE;IGNORE;IGNORE;<UFE63> % SMALL HYPHEN MINUS
 <UFE64> IGNORE;IGNORE;IGNORE;<UFE64> % SMALL LESS THAN SIGN
 <UFE65> IGNORE;IGNORE;IGNORE;<UFE65> % SMALL GREATER THAN SIGN
 <UFE66> IGNORE;IGNORE;IGNORE;<UFE66> % SMALL EQUALS SIGN
 <UFE68> IGNORE;IGNORE;IGNORE;<UFE68> % SMALL REVERSE SOLIDUS
 <UFE6A> IGNORE;IGNORE;IGNORE;<UFE6A> % SMALL PERCENT SIGN
 <UFE6B> IGNORE;IGNORE;IGNORE;<UFE6B> % SMALL COMMERCIAL AT
 <UFE70> IGNORE;IGNORE;IGNORE;<UFE70> % ARABIC FATHATAN ISOLATED FORM
 <UFE71> IGNORE;IGNORE;IGNORE;<UFE71> % ARABIC TATWEEEL WITH FATHATAN ABOVE
 <UFE72> IGNORE;IGNORE;IGNORE;<UFE72> % ARABIC DAMMATAN ISOLATED FORM
 <UFE74> IGNORE;IGNORE;IGNORE;<UFE74> % ARABIC KASRATAN ISOLATED FORM
 <UFE76> IGNORE;IGNORE;IGNORE;<UFE76> % ARABIC FATHA ISOLATED FORM
 <UFE77> IGNORE;IGNORE;IGNORE;<UFE77> % ARABIC FATHA MEDIAL FORM
 <UFE78> IGNORE;IGNORE;IGNORE;<UFE78> % ARABIC DAMMA ISOLATED FORM
 <UFE79> IGNORE;IGNORE;IGNORE;<UFE79> % ARABIC DAMMA MEDIAL FORM

<UFE7A> IGNORE; IGNORE; IGNORE; <UFE7A> % ARABIC KASRA ISOLATED FORM
 <UFE7B> IGNORE; IGNORE; IGNORE; <UFE7B> % ARABIC KASRA MEDIAL FORM
 <UFE7C> IGNORE; IGNORE; IGNORE; <UFE7C> % ARABIC SHADDA ISOLATED FORM
 <UFE7D> IGNORE; IGNORE; IGNORE; <UFE7D> % ARABIC SHADDA MEDIAL FORM
 <UFE7E> IGNORE; IGNORE; IGNORE; <UFE7E> % ARABIC SUKUN ISOLATED FORM
 <UFE7F> IGNORE; IGNORE; IGNORE; <UFE7F> % ARABIC SUKUN MEDIAL FORM
 <UFEFF> IGNORE; IGNORE; IGNORE; <UFEFF> % ZERO WIDTH NO-BREAK SPACE
 <UFF01> IGNORE; IGNORE; IGNORE; <UFF01> % FULLWIDTH EXCLAMATION MARK
 <UFF02> IGNORE; IGNORE; IGNORE; <UFF02> % FULLWIDTH QUOTATION MARK
 <UFF03> IGNORE; IGNORE; IGNORE; <UFF03> % FULLWIDTH NUMBER SIGN
 <UFF05> IGNORE; IGNORE; IGNORE; <UFF05> % FULLWIDTH PERCENT SIGN
 <UFF06> IGNORE; IGNORE; IGNORE; <UFF06> % FULLWIDTH AMPERSAND
 <UFF07> IGNORE; IGNORE; IGNORE; <UFF07> % FULLWIDTH APOSTROPHE
 <UFF08> IGNORE; IGNORE; IGNORE; <UFF08> % FULLWIDTH LEFT PARENTHESIS
 <UFF09> IGNORE; IGNORE; IGNORE; <UFF09> % FULLWIDTH RIGHT PARENTHESIS
 <UFF0A> IGNORE; IGNORE; IGNORE; <UFF0A> % FULLWIDTH ASTERISK
 <UFF0B> IGNORE; IGNORE; IGNORE; <UFF0B> % FULLWIDTH PLUS SIGN
 <UFF0C> IGNORE; IGNORE; IGNORE; <UFF0C> % FULLWIDTH COMMA
 <UFF0D> IGNORE; IGNORE; IGNORE; <UFF0D> % FULLWIDTH HYPHEN MINUS
 <UFF0E> IGNORE; IGNORE; IGNORE; <UFF0E> % FULLWIDTH FULL STOP
 <UFF0F> IGNORE; IGNORE; IGNORE; <UFF0F> % FULLWIDTH SOLIDUS
 <UFF1A> IGNORE; IGNORE; IGNORE; <UFF1A> % FULLWIDTH COLON
 <UFF1B> IGNORE; IGNORE; IGNORE; <UFF1B> % FULLWIDTH SEMICOLON
 <UFF1C> IGNORE; IGNORE; IGNORE; <UFF1C> % FULLWIDTH LESS THAN SIGN
 <UFF1D> IGNORE; IGNORE; IGNORE; <UFF1D> % FULLWIDTH EQUALS SIGN
 <UFF1E> IGNORE; IGNORE; IGNORE; <UFF1E> % FULLWIDTH GREATER THAN SIGN
 <UFF1F> IGNORE; IGNORE; IGNORE; <UFF1F> % FULLWIDTH QUESTION MARK
 <UFF20> IGNORE; IGNORE; IGNORE; <UFF20> % FULLWIDTH COMMERCIAL AT
 <UFF3B> IGNORE; IGNORE; IGNORE; <UFF3B> % FULLWIDTH LEFT SQUARE BRACKET
 <UFF3C> IGNORE; IGNORE; IGNORE; <UFF3C> % FULLWIDTH REVERSE SOLIDUS
 <UFF3D> IGNORE; IGNORE; IGNORE; <UFF3D> % FULLWIDTH RIGHT SQUARE BRACKET
 <UFF3E> IGNORE; IGNORE; IGNORE; <UFF3E> % FULLWIDTH CIRCUMFLEX ACCENT
 <UFF3F> IGNORE; IGNORE; IGNORE; <UFF3F> % FULLWIDTH LOW LINE
 <UFF40> IGNORE; IGNORE; IGNORE; <UFF40> % FULLWIDTH GRAVE ACCENT
 <UFF5B> IGNORE; IGNORE; IGNORE; <UFF5B> % FULLWIDTH LEFT CURLY BRACKET
 <UFF5C> IGNORE; IGNORE; IGNORE; <UFF5C> % FULLWIDTH VERTICAL LINE
 <UFF5D> IGNORE; IGNORE; IGNORE; <UFF5D> % FULLWIDTH RIGHT CURLY BRACKET
 <UFF5E> IGNORE; IGNORE; IGNORE; <UFF5E> % FULLWIDTH TILDE
 <UFF61> IGNORE; IGNORE; IGNORE; <UFF61> % HALFWIDTH IDEOGRAPHIC FULL STOP
 <UFF62> IGNORE; IGNORE; IGNORE; <UFF62> % HALFWIDTH LEFT CORNER BRACKET
 <UFF63> IGNORE; IGNORE; IGNORE; <UFF63> % HALFWIDTH RIGHT CORNER BRACKET
 <UFF64> IGNORE; IGNORE; IGNORE; <UFF64> % HALFWIDTH IDEOGRAPHIC COMMA
 <UFF65> IGNORE; IGNORE; IGNORE; <UFF65> % HALFWIDTH KATAKANA MIDDLE DOT
 <UFFE2> IGNORE; IGNORE; IGNORE; <UFFE2> % FULLWIDTH NOT SIGN
 <UFFE3> IGNORE; IGNORE; IGNORE; <UFFE3> % FULLWIDTH MACRON
 <UFFE4> IGNORE; IGNORE; IGNORE; <UFFE4> % FULLWIDTH BROKEN BAR
 <UFFE8> IGNORE; IGNORE; IGNORE; <UFFE8> % HALFWIDTH FORMS LIGHT VERTICAL
 <UFFE9> IGNORE; IGNORE; IGNORE; <UFFE9> % HALFWIDTH LEFTWARDS ARROW
 <UFFEA> IGNORE; IGNORE; IGNORE; <UFFEA> % HALFWIDTH UPWARDS ARROW
 <UFFEB> IGNORE; IGNORE; IGNORE; <UFFEB> % HALFWIDTH RIGHTWARDS ARROW
 <UFFEC> IGNORE; IGNORE; IGNORE; <UFFEC> % HALFWIDTH DOWNWARDS ARROW
 <UFFED> IGNORE; IGNORE; IGNORE; <UFFED> % HALFWIDTH BLACK SQUARE
 <UFFEE> IGNORE; IGNORE; IGNORE; <UFFEE> % HALFWIDTH WHITE CIRCLE
 <UFFFC> IGNORE; IGNORE; IGNORE; <UFFFC> % OBJECT REPLACEMENT CHARACTER
 <UFFFD> IGNORE; IGNORE; IGNORE; <UFFFD> % REPLACEMENT CHARACTER
 <U0332> IGNORE; <LOWLINE>; <MIN>; <U0332> % COMBINING LOW LINE
 <U0343> IGNORE; <PSILI>; <MIN>; <U0343> % COMBINING COMMA ABOVE
 <U0343> IGNORE; <PSILI>; <MIN>; <U0343> % COMBINING GREEK KORONIS
 <U0344> IGNORE; <DASIA>; <MIN>; <U0344> % COMBINING REVERSED COMMA ABOVE
 <U0301> IGNORE; <AIGUT>; <MIN>; <U0301> % COMBINING ACUTE ACCENT
 <U0341> IGNORE; <AIGUT>; <MIN>; <U0341> % COMBINING ACUTE TONE MARK
 <U0300> IGNORE; <GRAVE>; <MIN>; <U0300> % COMBINING GRAVE ACCENT
 <U0340> IGNORE; <GRAVE>; <MIN>; <U0340> % COMBINING GRAVE TONE MARK
 <U0306> IGNORE; <BREVE>; <MIN>; <U0306> % COMBINING BREVE
 <U0302> IGNORE; <CIRCF>; <MIN>; <U0302> % COMBINING CIRCUMFLEX ACCENT
 <U030C> IGNORE; <CARON>; <MIN>; <U030C> % COMBINING CARON
 <U030A> IGNORE; <CRCL>; <MIN>; <U030A> % COMBINING RING ABOVE
 <U0342> IGNORE; <PERIS>; <MIN>; <U0342> % COMBINING GREEK PERISPOMENI
 <U0308> IGNORE; <TREMA>; <MIN>; <U0308> % COMBINING DIAERESIS
 <U0344> IGNORE; <TREMA>; <AIGUT>; <MIN>; <MIN>; <U0344> % COMBINING GREEK DIALYTIKA TONOS
 <U030B> IGNORE; <2AIGU>; <MIN>; <U030B> % COMBINING DOUBLE ACUTE ACCENT
 <U0303> IGNORE; <TILDE>; <MIN>; <U0303> % COMBINING TILDE
 <U0307> IGNORE; <POINT>; <MIN>; <U0307> % COMBINING DOT ABOVE
 <U0338> IGNORE; <OBLIK>; <MIN>; <U0338> % COMBINING LONG SOLIDUS OVERLAY
 <U0327> IGNORE; <CEDIL>; <MIN>; <U0327> % COMBINING CEDILLA
 <U0328> IGNORE; <OGONK>; <MIN>; <U0328> % COMBINING OGONEK
 <U0304> IGNORE; <MACRO>; <MIN>; <U0304> % COMBINING MACRON
 <U0305> IGNORE; <OVERLINE>; <MIN>; <U0305> % COMBINING OVERLINE
 <U0309> IGNORE; <CROOK>; <MIN>; <U0309> % COMBINING HOOK ABOVE
 <U030D> IGNORE; <TONOS>; <MIN>; <U030D> % COMBINING VERTICAL LINE ABOVE
 <U030E> IGNORE; <D030E>; <MIN>; <U030E> % COMBINING DOUBLE VERTICAL LINE ABOVE
 <U030F> IGNORE; <2GRAV>; <MIN>; <U030F> % COMBINING DOUBLE GRAVE ACCENT
 <U0310> IGNORE; <D0310>; <MIN>; <U0310> % COMBINING CANDRABINDU
 <U0311> IGNORE; <BREVR>; <MIN>; <U0311> % COMBINING INVERTED BREVE
 <U0312> IGNORE; <D0312>; <MIN>; <U0312> % COMBINING TURNED COMMA ABOVE
 <U0315> IGNORE; <D0315>; <MIN>; <U0315> % COMBINING COMMA ABOVE RIGHT
 <U0316> IGNORE; <D0316>; <MIN>; <U0316> % COMBINING GRAVE ACCENT BELOW

<U0317> IGNORE; <D0317>; <MIN>; <U0317> % COMBINING ACUTE ACCENT BELOW
 <U0318> IGNORE; <D0318>; <MIN>; <U0318> % COMBINING LEFT TACK BELOW
 <U0319> IGNORE; <D0319>; <MIN>; <U0319> % COMBINING RIGHT TACK BELOW
 <U031A> IGNORE; <D031A>; <MIN>; <U031A> % COMBINING LEFT ANGLE ABOVE
 <U031B> IGNORE; <HORNU>; <MIN>; <U031B> % COMBINING HORN
 <U031C> IGNORE; <D031C>; <MIN>; <U031C> % COMBINING LEFT HALF RING BELOW
 <U031D> IGNORE; <D031D>; <MIN>; <U031D> % COMBINING UP TACK BELOW
 <U031E> IGNORE; <D031E>; <MIN>; <U031E> % COMBINING DOWN TACK BELOW
 <U031F> IGNORE; <D031F>; <MIN>; <U031F> % COMBINING PLUS SIGN BELOW
 <U0320> IGNORE; <D0320>; <MIN>; <U0320> % COMBINING MINUS SIGN BELOW
 <U0321> IGNORE; <PALCR>; <MIN>; <U0321> % COMBINING PALATALIZED HOOK BELOW
 <U0322> IGNORE; <RETCR>; <MIN>; <U0322> % COMBINING RETROFLEX HOOK BELOW
 <U0323> IGNORE; <POINS>; <MIN>; <U0323> % COMBINING DOT BELOW
 <U0324> IGNORE; <TREMS>; <MIN>; <U0324> % COMBINING DIAERESIS BELOW
 <U0325> IGNORE; <CRCLS>; <MIN>; <U0325> % COMBINING RING BELOW
 <U0326> IGNORE; <COMMS>; <MIN>; <U0326> % COMBINING COMMA BELOW
 <U0329> IGNORE; <D0329>; <MIN>; <U0329> % COMBINING VERTICAL LINE BELOW
 <U032A> IGNORE; <D032A>; <MIN>; <U032A> % COMBINING BRIDGE BELOW
 <U032B> IGNORE; <D032B>; <MIN>; <U032B> % COMBINING INVERTED DOUBLE ARCH BELOW
 <U032C> IGNORE; <D032C>; <MIN>; <U032C> % COMBINING GIRON BELOW
 <U032D> IGNORE; <CIRCS>; <MIN>; <U032D> % COMBINING CIRCUMFLEX ACCENT BELOW
 <U032E> IGNORE; <BREVS>; <MIN>; <U032E> % COMBINING BREVE BELOW
 <U032F> IGNORE; <D032F>; <MIN>; <U032F> % COMBINING INVERTED BREVE BELOW
 <U0330> IGNORE; <TILDS>; <MIN>; <U0330> % COMBINING TILDE BELOW
 <U0331> IGNORE; <MACRS>; <MIN>; <U0331> % COMBINING MACRON BELOW
 <U0333> IGNORE; <D0333>; <MIN>; <U0333> % COMBINING DOUBLE LOW LINE
 <U0334> IGNORE; <TILD>; <MIN>; <U0334> % COMBINING TILDE OVERLAY
 <U0335> IGNORE; <BARRE>; <MIN>; <U0335> % COMBINING SHORT STROKE OVERLAY
 <U0336> IGNORE; <D0336>; <MIN>; <U0336> % COMBINING LONG STROKE OVERLAY
 <U0337> IGNORE; <D0337>; <MIN>; <U0337> % COMBINING SHORT SOLIDUS OVERLAY
 <U0339> IGNORE; <CRCL2>; <MIN>; <U0339> % COMBINING RIGHT HALF RING BELOW
 <U033A> IGNORE; <D033A>; <MIN>; <U033A> % COMBINING INVERTED BRIDGE BELOW
 <U033B> IGNORE; <D033B>; <MIN>; <U033B> % COMBINING SQUARE BELOW
 <U033C> IGNORE; <D033C>; <MIN>; <U033C> % COMBINING SEAGULL BELOW
 <U033D> IGNORE; <D033D>; <MIN>; <U033D> % COMBINING X ABOVE
 <U033E> IGNORE; <D033E>; <MIN>; <U033E> % COMBINING VERTICAL TILDE
 <U033F> IGNORE; <D033F>; <MIN>; <U033F> % COMBINING DOUBLE OVERLINE
 <U0345> IGNORE; <YPOGE>; <MIN>; <U0345> % COMBINING GREEK YPOGEGRAMMENI
 <U0360> IGNORE; <D0360>; <MIN>; <U0360> % COMBINING DOUBLE TILDE
 <U0361> IGNORE; <D0361>; <MIN>; <U0361> % COMBINING DOUBLE INVERTED BREVE
 <UFE20> IGNORE; <DFE20>; <MIN>; <UFE20> % COMBINING LIGATURE LEFT HALF
 <UFE21> IGNORE; <DFE21>; <MIN>; <UFE21> % COMBINING LIGATURE RIGHT HALF
 <UFE22> IGNORE; <DFE22>; <MIN>; <UFE22> % COMBINING DOUBLE TILDE LEFT HALF
 <UFE23> IGNORE; <DFE23>; <MIN>; <UFE23> % COMBINING DOUBLE TILDE RIGHT HALF
 <U0483> IGNORE; <D0483>; <MIN>; <U0483> % COMBINING CYRILLIC TITLO
 <U0484> IGNORE; <D0484>; <MIN>; <U0484> % COMBINING CYRILLIC PALATALIZATION
 <U0485> IGNORE; <D0485>; <MIN>; <U0485> % COMBINING CYRILLIC DASIA PNEUMATA
 <U0486> IGNORE; <D0486>; <MIN>; <U0486> % COMBINING CYRILLIC PSILI PNEUMATA
 <U05B0> IGNORE; <SHEVA>; <MIN>; <U05B0> % HEBREW POINT SHEVA
 <U05B1> IGNORE; <HTFSC>; <MIN>; <U05B1> % HEBREW POINT HATAF SEGOL
 <U05B2> IGNORE; <HTFPT>; <MIN>; <U05B2> % HEBREW POINT HATAF PATAH
 <U05B3> IGNORE; <HTFQM>; <MIN>; <U05B3> % HEBREW POINT HATAF QAMATS
 <U05B4> IGNORE; <HIRIQ>; <MIN>; <U05B4> % HEBREW POINT HIRIQ
 <U05B5> IGNORE; <TSERE>; <MIN>; <U05B5> % HEBREW POINT TSERE
 <U05B6> IGNORE; <SEGOL>; <MIN>; <U05B6> % HEBREW POINT SEGOL
 <U05B7> IGNORE; <PATAH>; <MIN>; <U05B7> % HEBREW POINT PATAH
 <U05B8> IGNORE; <QAMAT>; <MIN>; <U05B8> % HEBREW POINT QAMATS
 <U05B9> IGNORE; <HOLAM>; <MIN>; <U05B9> % HEBREW POINT HOLAM
 <U05BB> IGNORE; <QUBUT>; <MIN>; <U05BB> % HEBREW POINT QUBUTS
 <U05BC> IGNORE; <DAGES>; <MIN>; <U05BC> % HEBREW POINT DAGESH OR MAPIQ
 <U05BF> IGNORE; <RAPHE>; <MIN>; <U05BF> % HEBREW POINT RAPE
 <U05C1> IGNORE; <SHINP>; <MIN>; <U05C1> % HEBREW POINT SHIN DOT
 <U05C2> IGNORE; <SINPT>; <MIN>; <U05C2> % HEBREW POINT SIN DOT
 <UFB1E> IGNORE; <VARIKA>; <MIN>; <UFB1E> % HEBREW POINT JUDEO-SPANISH VARIKA
 <U064B> IGNORE; <FATHATAN>; <MIN>; <U064B> % ARABIC FATHATAN
 <U064C> IGNORE; <DAMMATAN>; <MIN>; <U064C> % ARABIC DAMMATAN
 <U064D> IGNORE; <KASRATAN>; <MIN>; <U064D> % ARABIC KASRATAN
 <U064E> IGNORE; <FATHA>; <MIN>; <U064E> % ARABIC FATHA
 <U064F> IGNORE; <DAMMA>; <MIN>; <U064F> % ARABIC DAMMA
 <U0650> IGNORE; <KASRA>; <MIN>; <U0650> % ARABIC KASRA
 <U0651> IGNORE; <SHADDA>; <MIN>; <U0651> % ARABIC SHADDA
 <U0652> IGNORE; <SUKUN>; <MIN>; <U0652> % ARABIC SUKUN
 <U0670> IGNORE; <SUPERALEF>; <MIN>; <U0670> % ARABIC LETTER SUPERSCRIPIT ALEF
 <U06D6> IGNORE; <D06D6>; <MIN>; <U06D6> % ARABIC SMALL HIGH LIGATURE SAD WITH LAM WITH ALEF MAKSURA
 <U06D7> IGNORE; <D06D7>; <MIN>; <U06D7> % ARABIC SMALL HIGH LIGATURE QAF WITH LAM WITH ALEF MAKSURA
 <U06D8> IGNORE; <D06D8>; <MIN>; <U06D8> % ARABIC SMALL HIGH MEEM INITIAL FORM
 <U06D9> IGNORE; <D06D9>; <MIN>; <U06D9> % ARABIC SMALL HIGH LAM ALEF
 <U06DA> IGNORE; <D06DA>; <MIN>; <U06DA> % ARABIC SMALL HIGH JEEM
 <U06DB> IGNORE; <D06DB>; <MIN>; <U06DB> % ARABIC SMALL HIGH THREE DOTS
 <U06DC> IGNORE; <D06DC>; <MIN>; <U06DC> % ARABIC SMALL HIGH SEEN
 <U06E1> IGNORE; <D06E1>; <MIN>; <U06E1> % ARABIC SMALL HIGH DOTLESS HEAD OF KHAH
 <U06E2> IGNORE; <D06E2>; <MIN>; <U06E2> % ARABIC SMALL HIGH MEEM ISOLATED FORM
 <U06E3> IGNORE; <D06E3>; <MIN>; <U06E3> % ARABIC SMALL LOW SEEN
 <U06E4> IGNORE; <AMADD>; <MIN>; <U06E4> % ARABIC SMALL HIGH MADDA
 <U06E7> IGNORE; <D06E7>; <MIN>; <U06E7> % ARABIC SMALL HIGH YEH
 <U06E8> IGNORE; <D06E8>; <MIN>; <U06E8> % ARABIC SMALL HIGH NOON
 <U06ED> IGNORE; <D06ED>; <MIN>; <U06ED> % ARABIC SMALL LOW MEEM

<U093C> IGNORE; <D093C>; <MIN>; <U093C> % DEVANAGARI SIGN NUKTA
 <U0951> IGNORE; <D0951>; <MIN>; <U0951> % DEVANAGARI STRESS SIGN UDATTA
 <U0952> IGNORE; <D0952>; <MIN>; <U0952> % DEVANAGARI STRESS SIGN ANUDATTA
 <U0953> IGNORE; <D0953>; <MIN>; <U0953> % DEVANAGARI GRAVE ACCENT
 <U0954> IGNORE; <D0954>; <MIN>; <U0954> % DEVANAGARI ACUTE ACCENT
 <U09BC> IGNORE; <D09BC>; <MIN>; <U09BC> % BENGALI SIGN NUKTA
 <U0A3C> IGNORE; <D0A3C>; <MIN>; <U0A3C> % GURMUKHI SIGN NUKTA
 <U0ABC> IGNORE; <D0ABC>; <MIN>; <U0ABC> % GUJARATI SIGN NUKTA
 <U0B3C> IGNORE; <D0B3C>; <MIN>; <U0B3C> % ORIYA SIGN NUKTA
 <U0E48> IGNORE; <D0E48>; <MIN>; <U0E48> % THAI CHARACTER MAIEK
 <U0E49> IGNORE; <D0E49>; <MIN>; <U0E49> % THAI CHARACTER MAITHO
 <U0E4A> IGNORE; <D0E4A>; <MIN>; <U0E4A> % THAI CHARACTER MAITRI
 <U0E4B> IGNORE; <D0E4B>; <MIN>; <U0E4B> % THAI CHARACTER MAI CHATTAWA
 <U0EC8> IGNORE; <D0EC8>; <MIN>; <U0EC8> % LAO TONE MAIEK
 <U0EC9> IGNORE; <D0EC9>; <MIN>; <U0EC9> % LAO TONE MAITHO
 <U0ECA> IGNORE; <D0ECA>; <MIN>; <U0ECA> % LAO TONE MAITI
 <U0ECB> IGNORE; <D0ECB>; <MIN>; <U0ECB> % LAO TONE MAICATAWA
 <U0F39> IGNORE; <D0F39>; <MIN>; <U0F39> % TIBETAN MARK TSA PHRU
 <U302A> IGNORE; <D302A>; <MIN>; <U302A> % IDEOGRAPHIC LEVEL TONE MARK
 <U302B> IGNORE; <D302B>; <MIN>; <U302B> % IDEOGRAPHIC RISING TONE MARK
 <U302C> IGNORE; <D302C>; <MIN>; <U302C> % IDEOGRAPHIC DEPARTING TONE MARK
 <U302D> IGNORE; <D302D>; <MIN>; <U302D> % IDEOGRAPHIC ENTERING TONE MARK
 <U302E> IGNORE; <D302E>; <MIN>; <U302E> % HANGUL SINGLE DOT TONE MARK
 <U302F> IGNORE; <D302F>; <MIN>; <U302F> % HANGUL DOUBLE DOT TONE MARK
 <U3099> IGNORE; <KNVCE>; <MIN>; <U3099> % COMBINING KATAKANA HIRAGANA VOICED SOUND MARK
 <UFF9E> IGNORE; <KNVCE>; <NARROW>; <UFF9E> % HALFWIDTH KATAKANA VOICED SOUND MARK
 <U309A> IGNORE; <KNSMV>; <MIN>; <U309A> % COMBINING KATAKANA HIRAGANA SEMI-VOICED SOUND MARK
 <UFF9F> IGNORE; <KNSMV>; <NARROW>; <UFF9F> % HALFWIDTH KATAKANA SEMI-VOICED SOUND MARK
 <U20D0> IGNORE; <D20D0>; <MIN>; <U20D0> % COMBINING LEFT HARPOON ABOVE
 <U20D1> IGNORE; <D20D1>; <MIN>; <U20D1> % COMBINING RIGHT HARPOON ABOVE
 <U20D2> IGNORE; <D20D2>; <MIN>; <U20D2> % COMBINING LONG VERTICAL LINE OVERLAY
 <U20D3> IGNORE; <D20D3>; <MIN>; <U20D3> % COMBINING SHORT VERTICAL LINE OVERLAY
 <U20D4> IGNORE; <D20D4>; <MIN>; <U20D4> % COMBINING ANTICLOCKWISE ARROW ABOVE
 <U20D5> IGNORE; <D20D5>; <MIN>; <U20D5> % COMBINING CLOCKWISE ARROW ABOVE
 <U20D6> IGNORE; <D20D6>; <MIN>; <U20D6> % COMBINING LEFT ARROW ABOVE
 <U20D7> IGNORE; <D20D7>; <MIN>; <U20D7> % COMBINING RIGHT ARROW ABOVE
 <U20D8> IGNORE; <D20D8>; <MIN>; <U20D8> % COMBINING RING OVERLAY
 <U20D9> IGNORE; <D20D9>; <MIN>; <U20D9> % COMBINING CLOCKWISE RING OVERLAY
 <U20DA> IGNORE; <D20DA>; <MIN>; <U20DA> % COMBINING ANTICLOCKWISE RING OVERLAY
 <U20DB> IGNORE; <D20DB>; <MIN>; <U20DB> % COMBINING THREE DOTS ABOVE
 <U20DC> IGNORE; <D20DC>; <MIN>; <U20DC> % COMBINING FOUR DOTS ABOVE
 <U20DD> IGNORE; <D20DD>; <MIN>; <U20DD> % COMBINING ENCLOSING CIRCLE
 <U20DE> IGNORE; <D20DE>; <MIN>; <U20DE> % COMBINING ENCLOSING SQUARE
 <U20DF> IGNORE; <D20DF>; <MIN>; <U20DF> % COMBINING ENCLOSING DIAMOND
 <U20E0> IGNORE; <D20E0>; <MIN>; <U20E0> % COMBINING ENCLOSING CIRCLE BACKSLASH
 <U20E1> IGNORE; <D20E1>; <MIN>; <U20E1> % COMBINING LEFT RIGHT ARROW ABOVE
 <U02D0> <S297>; <BASE>; <MIN>; <U02D0> % MODIFIER LETTER TRIANGULAR COLON
 <U02D1> <S298>; <BASE>; <MIN>; <U02D1> % MODIFIER LETTER HALF TRIANGULAR COLON
 <U0E46> <S299>; <BASE>; <MIN>; <U0E46> % THAI CHARACTER MAIAMOK
 <U0EC6> <S29A>; <BASE>; <MIN>; <U0EC6> % LAO KO LA
 <U3005> <S29B>; <BASE>; <MIN>; <U3005> % IDEOGRAPHIC ITERATION MARK
 <U3031> <S29C>; <BASE>; <MIN>; <U3031> % VERTICAL KANA REPEAT MARK
 <U3032> <S29D>; <BASE>; <MIN>; <U3032> % VERTICAL KANA REPEAT WITH VOICED SOUND MARK
 <U3033> <S29E>; <BASE>; <MIN>; <U3033> % VERTICAL KANA REPEAT MARK UPPER HALF
 <U3034> <S29F>; <BASE>; <MIN>; <U3034> % VERTICAL KANA REPEAT WITH VOICED SOUND MARK UPPER HALF
 <U3035> <S2A0>; <BASE>; <MIN>; <U3035> % VERTICAL KANA REPEAT MARK LOWER HALF
 <U309D> <S2A1>; <BASE>; <MIN>; <U309D> % HIRAGANA ITERATION MARK
 <U309E> <S2A1>; <BASE>; <KNVCE>; <MIN>; <MIN>; <U309E> % HIRAGANA VOICED ITERATION MARK
 <U30FC> <S2A3>; <BASE>; <MIN>; <U30FC> % KATAKANA HIRAGANA PROLONGED SOUND MARK
 <UFF70> <S2A3>; <BASE>; <NARROW>; <UFF70> % HALFWIDTH KATAKANA HIRAGANA PROLONGED SOUND MARK
 <U30FD> <S2A4>; <BASE>; <MIN>; <U30FD> % KATAKANA ITERATION MARK
 <U30FE> <S2A4>; <BASE>; <KNVCE>; <MIN>; <MIN>; <U30FE> % KATAKANA VOICED ITERATION MARK
 <U00A4> <S2C2>; <BASE>; <MIN>; <U00A4> % CURRENCY SIGN
 <U00A2> <S2C3>; <BASE>; <MIN>; <U00A2> % CENT SIGN
 <UFFE0> <S2C3>; <BASE>; <WIDE>; <UFFE0> % FULLWIDTH CENT SIGN
 <U0024> <S2C4>; <BASE>; <MIN>; <U0024> % DOLLAR SIGN
 <UFF04> <S2C4>; <BASE>; <WIDE>; <UFF04> % FULLWIDTH DOLLAR SIGN
 <UFE69> <S2C4>; <BASE>; <SMALL>; <UFE69> % SMALL DOLLAR SIGN
 <U00A3> <S2C5>; <BASE>; <MIN>; <U00A3> % POUND SIGN
 <UFFE1> <S2C5>; <BASE>; <WIDE>; <UFFE1> % FULLWIDTH POUND SIGN
 <U00A5> <S2C6>; <BASE>; <MIN>; <U00A5> % YEN SIGN
 <UFFE5> <S2C6>; <BASE>; <WIDE>; <UFFE5> % FULLWIDTH YEN SIGN
 <U09F2> <S2C7>; <BASE>; <MIN>; <U09F2> % BENGALI RUPEE MARK
 <U09F3> <S2C8>; <BASE>; <MIN>; <U09F3> % BENGALI RUPEE SIGN
 <U0E3F> <S2C9>; <BASE>; <MIN>; <U0E3F> % THAI CURRENCY SYMBOL BAHT
 <U20A0> <S2CA>; <BASE>; <MIN>; <U20A0> % EURO CURRENCY SIGN
 <U20A1> <S2CB>; <BASE>; <MIN>; <U20A1> % COLON SIGN
 <U20A2> <S2CC>; <BASE>; <MIN>; <U20A2> % CRUZEIRO SIGN
 <U20A3> <S2CD>; <BASE>; <MIN>; <U20A3> % FRENCH FRANG SIGN
 <U20A4> <S2CE>; <BASE>; <MIN>; <U20A4> % LIRA SIGN
 <U20A5> <S2CF>; <BASE>; <MIN>; <U20A5> % MILL SIGN
 <U20A6> <S2D0>; <BASE>; <MIN>; <U20A6> % NAIRA SIGN
 <U20A7> <S2D1>; <BASE>; <MIN>; <U20A7> % PESETA SIGN
 <U20A9> <S2D2>; <BASE>; <MIN>; <U20A9> % WON SIGN
 <UFFE6> <S2D2>; <BASE>; <WIDE>; <UFFE6> % FULLWIDTH WON SIGN
 <U20AA> <S2D3>; <BASE>; <MIN>; <U20AA> % NEW SHEQEL SIGN
 <U20AB> <S2D4>; <BASE>; <MIN>; <U20AB> % DONG SIGN

<U20AC><S2D5>;<BASE>;<MIN>;<U20AC> % EURO SIGN
 <U2104><S2EF>;<BASE>;<MIN>;<U2104> % CENTRE LINE SYMBOL
 <U2108><S2F0>;<BASE>;<MIN>;<U2108> % SCRUPLE
 <U2114><S2F1>;<BASE>;<MIN>;<U2114> % L B BAR SYMBOL
 <U2117><S2F2>;<BASE>;<MIN>;<U2117> % SOUND RECORDING COPYRIGHT
 <U2118><S2F3>;<BASE>;<MIN>;<U2118> % SCRIPT CAPITAL P
 <U211E><S2F4>;<BASE>;<MIN>;<U211E> % PRESCRIPTION TAKE
 <U211F><S2F5>;<BASE>;<MIN>;<U211F> % RESPONSE
 <U2123><S2F6>;<BASE>;<MIN>;<U2123> % VERSICLE
 <U2125><S2F7>;<BASE>;<MIN>;<U2125> % OUNCE SIGN
 <U2127><S2F8>;<BASE>;<MIN>;<U2127> % INVERTED OHM SIGN
 <U2129><S2F9>;<BASE>;<MIN>;<U2129> % TURNED GREEK SMALL LETTER IOTA
 <U212E><S2FA>;<BASE>;<MIN>;<U212E> % ESTIMATED SYMBOL
 <U2132><S2FB>;<BASE>;<MIN>;<U2132> % TURNED CAPITAL F
 <U2180><S2FC>;<BASE>;<MIN>;<U2180> % ROMAN NUMERAL ONE THOUSAND C D
 <U2181><S2FD>;<BASE>;<MIN>;<U2181> % ROMAN NUMERAL FIVE THOUSAND
 <U2182><S2FE>;<BASE>;<MIN>;<U2182> % ROMAN NUMERAL TEN THOUSAND
 <U266D><S623>;<BASE>;<MIN>;<U266D> % MUSIC FLAT SIGN
 <U266E><S624>;<BASE>;<MIN>;<U266E> % MUSIC NATURAL SIGN
 <U266F><S625>;<BASE>;<MIN>;<U266F> % MUSIC SHARP SIGN
 <U0030><S6C5>;<BASE>;<MIN>;<U0030> % DIGIT ZERO
 <UFF10><S6C5>;<BASE>;<WIDE>;<UFF10> % FULLWIDTH DIGIT ZERO
 <U24EA><S6C5>;<BASE>;<CIRCLE>;<U24EA> % CIRCLED DIGIT ZERO
 <U2070><S6C5>;<BASE>;<MNS>;<U2070> % SUPERSCRIPIT ZERO
 <U2080><S6C5>;<BASE>;<MNS>;<U2080> % SUBSCRIPT ZERO
 <U0660><S6C5>;<ARABIC>;<MIN>;<U0660> % ARABIC INDIC DIGIT ZERO
 <U06F0><S6C5>;<EXTARABIC>;<MIN>;<U06F0> % EXTENDED ARABIC INDIC DIGIT ZERO
 <U0966><S6C5>;<NAGAR>;<MIN>;<U0966> % DEVANAGARI DIGIT ZERO
 <U09E6><S6C5>;<BENGL>;<MIN>;<U09E6> % BENGALI DIGIT ZERO
 <U0A66><S6C5>;<GURMU>;<MIN>;<U0A66> % GURMUKHI DIGIT ZERO
 <U0AE6><S6C5>;<GUJAR>;<MIN>;<U0AE6> % GUJARATI DIGIT ZERO
 <U0B66><S6C5>;<ORIYA>;<MIN>;<U0B66> % ORIYA DIGIT ZERO
 <U0C66><S6C5>;<TELGU>;<MIN>;<U0C66> % TELUGU DIGIT ZERO
 <U0CE6><S6C5>;<KNNDA>;<MIN>;<U0CE6> % KANNADA DIGIT ZERO
 <U0D66><S6C5>;<MALAY>;<MIN>;<U0D66> % MALAYALAM DIGIT ZERO
 <U0E50><S6C5>;<THAI>;<MIN>;<U0E50> % THAI DIGIT ZERO
 <U0ED0><S6C5>;<LAAOO>;<MIN>;<U0ED0> % LAO DIGIT ZERO
 <U0F20><S6C5>;<BODKA>;<MIN>;<U0F20> % TIBETAN DIGIT ZERO
 <U3007><S6C5>;<CJKVS>;<MIN>;<U3007> % IDEOGRAPHIC NUMBER ZERO
 <U3358><S6C5>;<S70B9>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<U3358> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ZERO
 <U0031><S6C6>;<BASE>;<MIN>;<U0031> % DIGIT ONE
 <UFF11><S6C6>;<BASE>;<WIDE>;<UFF11> % FULLWIDTH DIGIT ONE
 <U2474><S6C6>;<BASE>;<COMPAT>;<U2474> % PARENTHESIZED DIGIT ONE
 <U2488><S6C6>;<BASE>;<COMPAT>;<U2488> % DIGIT ONE FULL STOP
 <U2460><S6C6>;<BASE>;<CIRCLE>;<U2460> % CIRCLED DIGIT ONE
 <U00B9><S6C6>;<BASE>;<MNS>;<U00B9> % SUPERSCRIPIT ONE
 <U2081><S6C6>;<BASE>;<MNS>;<U2081> % SUBSCRIPT ONE
 <U215F><S6C6>;<BASE>;<FRACTION>;<U215F> % FRACTION NUMERATOR ONE
 <U2776><S6C6>;<NEGATIVE>;<CIRCLE>;<U2776> % DINGBAT NEGATIVE CIRCLED DIGIT ONE
 <U2780><S6C6>;<SANSSEIF>;<CIRCLE>;<U2780> % DINGBAT CIRCLED SANS SERIF DIGIT ONE
 <U278A><S6C6>;<NEGSANSSEIF>;<CIRCLE>;<U278A> % DINGBAT NEGATIVE CIRCLED SANS SERIF DIGIT ONE
 <U0661><S6C6>;<ARABIC>;<MIN>;<U0661> % ARABIC INDIC DIGIT ONE
 <U06F1><S6C6>;<EXTARABIC>;<MIN>;<U06F1> % EXTENDED ARABIC INDIC DIGIT ONE
 <U0967><S6C6>;<NAGAR>;<MIN>;<U0967> % DEVANAGARI DIGIT ONE
 <U09E7><S6C6>;<BENGL>;<MIN>;<U09E7> % BENGALI DIGIT ONE
 <U09F4><S6C6>;<BENGALINUMERATOR>;<MIN>;<U09F4> % BENGALI CURRENCY NUMERATOR ONE
 <U0A67><S6C6>;<GURMU>;<MIN>;<U0A67> % GURMUKHI DIGIT ONE
 <U0AE7><S6C6>;<GUJAR>;<MIN>;<U0AE7> % GUJARATI DIGIT ONE
 <U0B67><S6C6>;<ORIYA>;<MIN>;<U0B67> % ORIYA DIGIT ONE
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 <U0C67><S6C6>;<TELGU>;<MIN>;<U0C67> % TELUGU DIGIT ONE
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 <U0ED1><S6C6>;<LAAOO>;<MIN>;<U0ED1> % LAO DIGIT ONE
 <U0F21><S6C6>;<BODKA>;<MIN>;<U0F21> % TIBETAN DIGIT ONE
 <U3021><S6C6>;<CJKVS>;<MIN>;<U3021> % HANGZHOU NUMERAL ONE
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 <U2491><S6C6>;<S6C5>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<U2491> % NUMBER TEN FULL STOP
 <U2469><S6C6>;<S6C5>;<BASE>;<BASE>;<CIRCLE>;<CIRCLE>;<U2469> % CIRCLED NUMBER TEN
 <U33E9><S6C6>;<S6C5>;<S65E5>;<BASE>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<COMPAT>;<U33E9> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TEN
 <U32C9><S6C6>;<S6C5>;<S6708>;<BASE>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<COMPAT>;<U32C9> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR OCTOBER
 <U3362><S6C6>;<S6C5>;<S70B9>;<BASE>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<COMPAT>;<U3362> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TEN
 <U247E><S6C6>;<S6C6>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<U247E> % PARENTHESIZED NUMBER ELEVEN
 <U2492><S6C6>;<S6C6>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<U2492> % NUMBER ELEVEN FULL STOP
 <U246A><S6C6>;<S6C6>;<BASE>;<BASE>;<CIRCLE>;<CIRCLE>;<U246A> % CIRCLED NUMBER ELEVEN
 <U33EA><S6C6>;<S6C6>;<S65E5>;<BASE>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<COMPAT>;<U33EA> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY ELEVEN
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 <U3363><S6C6>;<S6C6>;<S70B9>;<BASE>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<COMPAT>;<U3363> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR ELEVEN
 <U247F><S6C6>;<S6C7>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<U247F> % PARENTHESIZED NUMBER TWELVE
 <U2493><S6C6>;<S6C7>;<BASE>;<BASE>;<COMPAT>;<COMPAT>;<U2493> % NUMBER TWELVE FULL STOP
 <U246B><S6C6>;<S6C7>;<BASE>;<BASE>;<CIRCLE>;<CIRCLE>;<U246B> % CIRCLED NUMBER TWELVE
 <U00BD><S6C6>;<S6C7>;<BASE>;<BASE>;<FRACTION>;<FRACTION>;<U00BD> % VULGAR FRACTION ONE HALF

<U33EB>"<S6C6><S6C7><S6E5>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U33EB> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY TWELVE
 <U32CB>"<S6C6><S6C7><S6708>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U32CB> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DECEMBER
 <U3364>"<S6C6><S6C7><S70B9>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U3364> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR TWELVE
 <U2480>"<S6C6><S6C8>"<BASE><BASE>"<COMPAT><COMPAT>"<U2480> % PARENTHESIZED NUMBER THIRTEEN
 <U2494>"<S6C6><S6C8>"<BASE><BASE>"<COMPAT><COMPAT>"<U2494> % NUMBER THIRTEEN FULL STOP
 <U246C>"<S6C6><S6C8>"<BASE><BASE>"<CIRCLE><CIRCLE>"<U246C> % CIRCLED NUMBER THIRTEEN
 <U2153>"<S6C6><S6C8>"<BASE><BASE>"<FRACTION><FRACTION>"<U2153> % VULGAR FRACTION ONE THIRD
 <U33EC>"<S6C6><S6C8><S6E5>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U33EC> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY THIRTEEN
 <U3365>"<S6C6><S6C8><S70B9>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U3365> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR THIRTEEN
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 <U33ED>"<S6C6><S6C9><S6E5>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U33ED> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FOURTEEN
 <U3366>"<S6C6><S6C9><S70B9>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U3366> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FOURTEEN
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 <U33EE>"<S6C6><S6CA><S6E5>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U33EE> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY FIFTEEN
 <U3367>"<S6C6><S6CA><S70B9>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U3367> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR FIFTEEN
 <U2483>"<S6C6><S6CB>"<BASE><BASE>"<COMPAT><COMPAT>"<U2483> % PARENTHESIZED NUMBER SIXTEEN
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 <U2470>"<S6C6><S6CC>"<BASE><BASE>"<CIRCLE><CIRCLE>"<U2470> % CIRCLED NUMBER SEVENTEEN
 <U33F0>"<S6C6><S6CC><S6E5>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U33F0> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY SEVENTEEN
 <U3369>"<S6C6><S6CC><S70B9>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U3369> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SEVENTEEN
 <U2485>"<S6C6><S6CD>"<BASE><BASE>"<COMPAT><COMPAT>"<U2485> % PARENTHESIZED NUMBER EIGHTEEN
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 <U2471>"<S6C6><S6CD>"<BASE><BASE>"<CIRCLE><CIRCLE>"<U2471> % CIRCLED NUMBER EIGHTEEN
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 <U33F1>"<S6C6><S6CD><S6E5>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U33F1> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR DAY EIGHTEEN
 <U336A>"<S6C6><S6CD><S70B9>"<BASE><BASE><BASE>"<COMPAT><COMPAT><COMPAT>"<U336A> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR EIGHTEEN
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 <U09E8><S6C7>;<BENGALI>;<MIN>;<U09E8> % BENGALI DIGIT TWO
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 <U0A68><S6C7>;<GURMU>;<MIN>;<U0A68> % GURMUKHI DIGIT TWO
 <U0AE8><S6C7>;<GUJAR>;<MIN>;<U0AE8> % GUJARATI DIGIT TWO
 <U0B68><S6C7>;<ORIYA>;<MIN>;<U0B68> % ORIYA DIGIT TWO
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 <U335E>"<S6CB><S70B9>;<BASE><BASE>;<COMPAT><COMPAT>;<U335E> % IDEOGRAPHIC TELEGRAPH SYMBOL FOR HOUR SIX
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 <U06F7><S6CC><EXTARABIC><MIN><U06F7> % EXTENDED-ARABIC-INDIC-DIGIT-SEVEN
 <U096D><S6CC><NAGAR><MIN><U096D> % DEVANAGARI-DIGIT-SEVEN
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 <U33E6>"<S6CC><S6E5>"<BASE><BASE>"<COMPAT><COMPAT>"<U33E6> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-DAY-SEVEN
 <U32C6>"<S6CC><S6708>"<BASE><BASE>"<COMPAT><COMPAT>"<U32C6> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-JULY
 <U335F>"<S6CC><S70B9>"<BASE><BASE>"<COMPAT><COMPAT>"<U335F> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-HOUR-SEVEN
 <U0038><S6CD><BASE><MIN><U0038> % DIGIT-EIGHT
 <UFF18><S6CD><BASE><WIDE><UFF18> % FULLWIDTH-DIGIT-EIGHT
 <U247B><S6CD><BASE><COMPAT><U247B> % PARENTHESIZED-DIGIT-EIGHT
 <U248F><S6CD><BASE><COMPAT><U248F> % DIGIT-EIGHT-FULL-STOP
 <U2467><S6CD><BASE><CIRCLE><U2467> % CIRCLED-DIGIT-EIGHT
 <U2078><S6CD><BASE><MNN><U2078> % SUPERSCRIPT-EIGHT
 <U2088><S6CD><BASE><MNS><U2088> % SUBSCRIPT-EIGHT
 <U277D><S6CD><NEGATIVE><CIRCLE><U277D> % DINGBAT-NEGATIVE-CIRCLED-DIGIT-EIGHT
 <U2787><S6CD><SANSERIF><CIRCLE><U2787> % DINGBAT-CIRCLED-SANS-SERIF-DIGIT-EIGHT
 <U2791><S6CD><NEGSANSERIF><CIRCLE><U2791> % DINGBAT-NEGATIVE-CIRCLED-SANS-SERIF-DIGIT-EIGHT
 <U0668><S6CD><ARABIC><MIN><U0668> % ARABIC-INDIC-DIGIT-EIGHT
 <U06F8><S6CC><EXTARABIC><MIN><U06F8> % EXTENDED-ARABIC-INDIC-DIGIT-EIGHT
 <U096E><S6CD><NAGAR><MIN><U096E> % DEVANAGARI-DIGIT-EIGHT
 <U09EE><S6CD><BENGL><MIN><U09EE> % BENGALI-DIGIT-EIGHT
 <U0A6E><S6CD><GURMU><MIN><U0A6E> % GURMUKHI-DIGIT-EIGHT
 <U0AEE><S6CD><GUJAR><MIN><U0AEE> % GUJARATI-DIGIT-EIGHT
 <U0B6E><S6CD><ORIYA><MIN><U0B6E> % ORIYA-DIGIT-EIGHT
 <U0BEE><S6CD><TAMIL><MIN><U0BEE> % TAMIL-DIGIT-EIGHT
 <U0C6E><S6CD><TELGU><MIN><U0C6E> % TELUGU-DIGIT-EIGHT
 <U0CEE><S6CD><KNND><MIN><U0CEE> % KANNADA-DIGIT-EIGHT
 <U0D6E><S6CD><MALAY><MIN><U0D6E> % MALAYALAM-DIGIT-EIGHT
 <U0E58><S6CD><THAI><MIN><U0E58> % THAI-DIGIT-EIGHT
 <U0ED8><S6CD><LAOO><MIN><U0ED8> % LAO-DIGIT-EIGHT
 <U0F28><S6CD><BODKA><MIN><U0F28> % TIBETAN-DIGIT-EIGHT
 <U3028><S6CD><CJKVS><MIN><U3028> % HANGZHOU-NUMERAL-EIGHT
 <U33E7>"<S6CD><S6E5>"<BASE><BASE>"<COMPAT><COMPAT>"<U33E7> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-DAY-EIGHT
 <U32C7>"<S6CD><S6708>"<BASE><BASE>"<COMPAT><COMPAT>"<U32C7> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-AUGUST
 <U3360>"<S6CD><S70B9>"<BASE><BASE>"<COMPAT><COMPAT>"<U3360> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-HOUR-EIGHT
 <U0039><S6CE><BASE><MIN><U0039> % DIGIT-NINE
 <UFF19><S6CE><BASE><WIDE><UFF19> % FULLWIDTH-DIGIT-NINE
 <U247C><S6CE><BASE><COMPAT><U247C> % PARENTHESIZED-DIGIT-NINE
 <U2490><S6CE><BASE><COMPAT><U2490> % DIGIT-NINE-FULL-STOP
 <U2468><S6CE><BASE><CIRCLE><U2468> % CIRCLED-DIGIT-NINE
 <U2079><S6CE><BASE><MNN><U2079> % SUPERSCRIPT-NINE
 <U2089><S6CE><BASE><MNS><U2089> % SUBSCRIPT-NINE
 <U277E><S6CE><NEGATIVE><CIRCLE><U277E> % DINGBAT-NEGATIVE-CIRCLED-DIGIT-NINE
 <U2788><S6CE><SANSERIF><CIRCLE><U2788> % DINGBAT-CIRCLED-SANS-SERIF-DIGIT-NINE
 <U2792><S6CE><NEGSANSERIF><CIRCLE><U2792> % DINGBAT-NEGATIVE-CIRCLED-SANS-SERIF-DIGIT-NINE
 <U0669><S6CE><ARABIC><MIN><U0669> % ARABIC-INDIC-DIGIT-NINE
 <U06F9><S6CE><EXTARABIC><MIN><U06F9> % EXTENDED-ARABIC-INDIC-DIGIT-NINE
 <U096F><S6CE><NAGAR><MIN><U096F> % DEVANAGARI-DIGIT-NINE
 <U09EF><S6CE><BENGL><MIN><U09EF> % BENGALI-DIGIT-NINE
 <U0A6F><S6CE><GURMU><MIN><U0A6F> % GURMUKHI-DIGIT-NINE
 <U0AEF><S6CE><GUJAR><MIN><U0AEF> % GUJARATI-DIGIT-NINE
 <U0B6F><S6CE><ORIYA><MIN><U0B6F> % ORIYA-DIGIT-NINE
 <U0BEF><S6CE><TAMIL><MIN><U0BEF> % TAMIL-DIGIT-NINE
 <U0C6F><S6CE><TELGU><MIN><U0C6F> % TELUGU-DIGIT-NINE
 <U0CEF><S6CE><KNND><MIN><U0CEF> % KANNADA-DIGIT-NINE
 <U0D6F><S6CE><MALAY><MIN><U0D6F> % MALAYALAM-DIGIT-NINE
 <U0E59><S6CE><THAI><MIN><U0E59> % THAI-DIGIT-NINE
 <U0ED9><S6CE><LAOO><MIN><U0ED9> % LAO-DIGIT-NINE
 <U0F29><S6CE><BODKA><MIN><U0F29> % TIBETAN-DIGIT-NINE
 <U3029><S6CE><CJKVS><MIN><U3029> % HANGZHOU-NUMERAL-NINE
 <U33E8>"<S6CE><S6E5>"<BASE><BASE>"<COMPAT><COMPAT>"<U33E8> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-DAY-NINE
 <U32C8>"<S6CE><S6708>"<BASE><BASE>"<COMPAT><COMPAT>"<U32C8> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-SEPTEMBER
 <U3361>"<S6CE><S70B9>"<BASE><BASE>"<COMPAT><COMPAT>"<U3361> % IDEOGRAPHIC-TELEGRAPH-SYMBOL-FOR-HOUR-NINE
 <U0061><S6CF><BASE><MIN><U0061> % LATIN-SMALL-LETTER-A
 <UFF41><S6CF><BASE><WIDE><UFF41> % FULLWIDTH-LATIN-SMALL-LETTER-A
 <U249C><S6CF><BASE><COMPAT><U249C> % PARENTHESIZED-LATIN-SMALL-LETTER-A
 <U24D0><S6CF><BASE><CIRCLE><U24D0> % CIRCLED-LATIN-SMALL-LETTER-A
 <U0041><S6CF><BASE><CAP><U0041> % LATIN-CAPITAL-LETTER-A
 <UFF21><S6CF><BASE><WIDECAP><UFF21> % FULLWIDTH-LATIN-CAPITAL-LETTER-A
 <U24B6><S6CF><BASE><CIRCLECAP><U24B6> % CIRCLED-LATIN-CAPITAL-LETTER-A
 <U00AA><S6CF><BASE><MNN><U00AA> % FEMININE-ORDINAL-INDICATOR
 <U00E1><S6CF><BASE><ACUT><U00E1><MIN><MIN><U00E1> % LATIN-SMALL-LETTER-A-WITH-ACUTE
 <U00C1><S6CF><BASE><ACUT><U00C1><CAP><MIN><MIN><U00C1> % LATIN-CAPITAL-LETTER-A-WITH-ACUTE
 <U00E0><S6CF><BASE><GRAVE><U00E0><MIN><MIN><U00E0> % LATIN-SMALL-LETTER-A-WITH-GRAVE
 <U00C0><S6CF><BASE><GRAVE><U00C0><CAP><MIN><MIN><U00C0> % LATIN-CAPITAL-LETTER-A-WITH-GRAVE

<U0103><S6CF>:"<BASE><BREVE>:"<MIN><MIN>:"<U0103> % LATIN SMALL LETTER A WITH BREVE
 <U0102><S6CF>:"<BASE><BREVE>:"<CAP><MIN>:"<U0102> % LATIN CAPITAL LETTER A WITH BREVE
 <U1EAF><S6CF>:"<BASE><BREVE><AIGUT>:"<MIN><MIN><MIN>:"<U1EAF> % LATIN SMALL LETTER A WITH BREVE AND ACUTE
 <U1EAE><S6CF>:"<BASE><BREVE><AIGUT>:"<CAP><MIN><MIN>:"<U1EAE> % LATIN CAPITAL LETTER A WITH BREVE AND ACUTE
 <U1EB1><S6CF>:"<BASE><BREVE><GRAVE>:"<MIN><MIN><MIN>:"<U1EB1> % LATIN SMALL LETTER A WITH BREVE AND GRAVE
 <U1EB0><S6CF>:"<BASE><BREVE><GRAVE>:"<CAP><MIN><MIN>:"<U1EB0> % LATIN CAPITAL LETTER A WITH BREVE AND GRAVE
 <U1EB5><S6CF>:"<BASE><BREVE><TILDE>:"<MIN><MIN><MIN>:"<U1EB5> % LATIN SMALL LETTER A WITH BREVE AND TILDE
 <U1EB4><S6CF>:"<BASE><BREVE><TILDE>:"<CAP><MIN><MIN>:"<U1EB4> % LATIN CAPITAL LETTER A WITH BREVE AND TILDE
 <U1EB3><S6CF>:"<BASE><BREVE><CROOK>:"<MIN><MIN><MIN>:"<U1EB3> % LATIN SMALL LETTER A WITH BREVE AND HOOK ABOVE
 <U1EB2><S6CF>:"<BASE><BREVE><CROOK>:"<CAP><MIN><MIN>:"<U1EB2> % LATIN CAPITAL LETTER A WITH BREVE AND HOOK ABOVE
 <U00E2><S6CF>:"<BASE><CIRCF>:"<MIN><MIN>:"<U00E2> % LATIN SMALL LETTER A WITH CIRCUMFLEX
 <U00C2><S6CF>:"<BASE><CIRCF>:"<CAP><MIN>:"<U00C2> % LATIN CAPITAL LETTER A WITH CIRCUMFLEX
 <U1EA5><S6CF>:"<BASE><CIRCF><AIGUT>:"<MIN><MIN><MIN>:"<U1EA5> % LATIN SMALL LETTER A WITH CIRCUMFLEX AND ACUTE
 <U1EA4><S6CF>:"<BASE><CIRCF><AIGUT>:"<CAP><MIN><MIN>:"<U1EA4> % LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND ACUTE
 <U1EA7><S6CF>:"<BASE><CIRCF><GRAVE>:"<MIN><MIN><MIN>:"<U1EA7> % LATIN SMALL LETTER A WITH CIRCUMFLEX AND GRAVE
 <U1EA6><S6CF>:"<BASE><CIRCF><GRAVE>:"<CAP><MIN><MIN>:"<U1EA6> % LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND GRAVE
 <U1EAB><S6CF>:"<BASE><CIRCF><TILDE>:"<MIN><MIN><MIN>:"<U1EAB> % LATIN SMALL LETTER A WITH CIRCUMFLEX AND TILDE
 <U1EAA><S6CF>:"<BASE><CIRCF><TILDE>:"<CAP><MIN><MIN>:"<U1EAA> % LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND TILDE
 <U1EA9><S6CF>:"<BASE><CIRCF><CROOK>:"<MIN><MIN><MIN>:"<U1EA9> % LATIN SMALL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE
 <U1EA8><S6CF>:"<BASE><CIRCF><CROOK>:"<CAP><MIN><MIN>:"<U1EA8> % LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND HOOK ABOVE
 <U01CE><S6CF>:"<BASE><CARON>:"<MIN><MIN>:"<U01CE> % LATIN SMALL LETTER A WITH CARON
 <U01CD><S6CF>:"<BASE><CARON>:"<CAP><MIN>:"<U01CD> % LATIN CAPITAL LETTER A WITH CARON
 <U00E5><S6CF>:"<BASE><CRCL>:"<MIN><MIN>:"<U00E5> % LATIN SMALL LETTER A WITH RING ABOVE
 <U00C5><S6CF>:"<BASE><CRCL>:"<CAP><MIN>:"<U00C5> % LATIN CAPITAL LETTER A WITH RING ABOVE
 <U212B><S6CF>:"<BASE><CRCL>:"<CAP><MIN>:"<U212B> % ANGSTROM SIGN
 <U01FB><S6CF>:"<BASE><CRCL><AIGUT>:"<MIN><MIN><MIN>:"<U01FB> % LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE
 <U01FA><S6CF>:"<BASE><CRCL><AIGUT>:"<CAP><MIN><MIN>:"<U01FA> % LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE
 <U00E4><S6CF>:"<BASE><TREMA>:"<MIN><MIN>:"<U00E4> % LATIN SMALL LETTER A WITH DIAERESIS
 <U00C4><S6CF>:"<BASE><TREMA>:"<CAP><MIN>:"<U00C4> % LATIN CAPITAL LETTER A WITH DIAERESIS
 <U01DF><S6CF>:"<BASE><TREMA><MACRO>:"<MIN><MIN><MIN>:"<U01DF> % LATIN SMALL LETTER A WITH DIAERESIS AND MACRON
 <U01DE><S6CF>:"<BASE><TREMA><MACRO>:"<CAP><MIN><MIN>:"<U01DE> % LATIN CAPITAL LETTER A WITH DIAERESIS AND MACRON
 <U00E3><S6CF>:"<BASE><TILDE>:"<MIN><MIN>:"<U00E3> % LATIN SMALL LETTER A WITH TILDE
 <U00C3><S6CF>:"<BASE><TILDE>:"<CAP><MIN>:"<U00C3> % LATIN CAPITAL LETTER A WITH TILDE
 <U01E1><S6CF>:"<BASE><POINT><MACRO>:"<MIN><MIN><MIN>:"<U01E1> % LATIN SMALL LETTER A WITH DOT ABOVE AND MACRON
 <U01E0><S6CF>:"<BASE><POINT><MACRO>:"<CAP><MIN><MIN>:"<U01E0> % LATIN CAPITAL LETTER A WITH DOT ABOVE AND MACRON
 <U0105><S6CF>:"<BASE><OGONK>:"<MIN><MIN>:"<U0105> % LATIN SMALL LETTER A WITH OGONEK
 <U0104><S6CF>:"<BASE><OGONK>:"<CAP><MIN>:"<U0104> % LATIN CAPITAL LETTER A WITH OGONEK
 <U0101><S6CF>:"<BASE><MACRO>:"<MIN><MIN>:"<U0101> % LATIN SMALL LETTER A WITH MACRON
 <U0100><S6CF>:"<BASE><MACRO>:"<CAP><MIN>:"<U0100> % LATIN CAPITAL LETTER A WITH MACRON
 <U1EA3><S6CF>:"<BASE><CROOK>:"<MIN><MIN>:"<U1EA3> % LATIN SMALL LETTER A WITH HOOK ABOVE
 <U1EA2><S6CF>:"<BASE><CROOK>:"<CAP><MIN>:"<U1EA2> % LATIN CAPITAL LETTER A WITH HOOK ABOVE
 <U0201><S6CF>:"<BASE><2GRAV>:"<MIN><MIN>:"<U0201> % LATIN SMALL LETTER A WITH DOUBLE GRAVE
 <U0200><S6CF>:"<BASE><2GRAV>:"<CAP><MIN>:"<U0200> % LATIN CAPITAL LETTER A WITH DOUBLE GRAVE
 <U0203><S6CF>:"<BASE><BREVR>:"<MIN><MIN>:"<U0203> % LATIN SMALL LETTER A WITH INVERTED BREVE
 <U0202><S6CF>:"<BASE><BREVR>:"<CAP><MIN>:"<U0202> % LATIN CAPITAL LETTER A WITH INVERTED BREVE
 <U1EA1><S6CF>:"<BASE><POINS>:"<MIN><MIN>:"<U1EA1> % LATIN SMALL LETTER A WITH DOT BELOW
 <U1EA0><S6CF>:"<BASE><POINS>:"<CAP><MIN>:"<U1EA0> % LATIN CAPITAL LETTER A WITH DOT BELOW
 <U1EB7><S6CF>:"<BASE><POINS><BREVE>:"<MIN><MIN><MIN>:"<U1EB7> % LATIN SMALL LETTER A WITH BREVE AND DOT BELOW
 <U1EB6><S6CF>:"<BASE><POINS><BREVE>:"<CAP><MIN><MIN>:"<U1EB6> % LATIN CAPITAL LETTER A WITH BREVE AND DOT BELOW
 <U1EAD><S6CF>:"<BASE><POINS><CIRCF>:"<MIN><MIN><MIN>:"<U1EAD> % LATIN SMALL LETTER A WITH CIRCUMFLEX AND DOT BELOW
 <U1EAC><S6CF>:"<BASE><POINS><CIRCF>:"<CAP><MIN><MIN>:"<U1EAC> % LATIN CAPITAL LETTER A WITH CIRCUMFLEX AND DOT BELOW
 <U1E01><S6CF>:"<BASE><CRCLS>:"<MIN><MIN>:"<U1E01> % LATIN SMALL LETTER A WITH RING BELOW
 <U1E00><S6CF>:"<BASE><CRCLS>:"<CAP><MIN>:"<U1E00> % LATIN CAPITAL LETTER A WITH RING BELOW
 <U2100><S6CF>:"<S6F7>:"<BASE><BASE>:"<COMPAT><COMPAT>:"<U2100> % ACCOUNT OF
 <U33C2><S6CF>:"<S7E5>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U33C2> % SQUARE AM
 <U2101><S6CF>:"<S85D>:"<BASE><BASE>:"<COMPAT><COMPAT>:"<U2101> % ADDRESSED TO THE SUBJECT
 <U3373><S6CF>:"<S88D>:"<BASE><BASE>:"<SQUARED><CAP><SQUARED>:"<U3373> % SQUARE AU
 <U1E9A><S6CF>:"<S907>:"<BASE><BASE>:"<COMPAT><COMPAT>:"<U1E9A> % LATIN SMALL LETTER A WITH RIGHT HALF RING
 <U00E6><S6D3>:"<BASE><MIN>:"<U00E6> % LATIN SMALL LETTER AE
 <U00C6><S6D3>:"<BASE><CAP>:"<U00C6> % LATIN CAPITAL LETTER AE
 <U01FD><S6D3>:"<BASE><AIGUT>:"<MIN><MIN>:"<U01FD> % LATIN SMALL LETTER AE WITH ACUTE
 <U01FC><S6D3>:"<BASE><AIGUT>:"<CAP><MIN>:"<U01FC> % LATIN CAPITAL LETTER AE WITH ACUTE
 <U01E3><S6D3>:"<BASE><MACRO>:"<MIN><MIN>:"<U01E3> % LATIN SMALL LETTER AE WITH MACRON
 <U01E2><S6D3>:"<BASE><MACRO>:"<CAP><MIN>:"<U01E2> % LATIN CAPITAL LETTER AE WITH MACRON
 <U0250><S6D7>:"<BASE><MIN>:"<U0250> % LATIN SMALL LETTER TURNED A
 <U0251><S6DB>:"<BASE><MIN>:"<U0251> % LATIN SMALL LETTER ALPHA
 <U0252><S6DF>:"<BASE><MIN>:"<U0252> % LATIN SMALL LETTER TURNED ALPHA
 <U0062><S6E3>:"<BASE><MIN>:"<U0062> % LATIN SMALL LETTER B
 <UFF42><S6E3>:"<BASE><WIDE>:"<UFF42> % FULLWIDTH LATIN SMALL LETTER B
 <U249D><S6E3>:"<BASE><COMPAT>:"<U249D> % PARENTHESIZED LATIN SMALL LETTER B
 <U24D1><S6E3>:"<BASE><CIRCLE>:"<U24D1> % CIRCLED LATIN SMALL LETTER B
 <U0042><S6E3>:"<BASE><CAP>:"<U0042> % LATIN CAPITAL LETTER B
 <UFF22><S6E3>:"<BASE><WIDECAP>:"<UFF22> % FULLWIDTH LATIN CAPITAL LETTER B
 <U212C><S6E3>:"<BASE>:"<FONTCAP>:"<U212C> % SCRIPT CAPITAL B
 <U24B7><S6E3>:"<BASE><CIRCLECAP>:"<U24B7> % CIRCLED LATIN CAPITAL LETTER B
 <U1E03><S6E3>:"<BASE><POINT>:"<MIN><MIN>:"<U1E03> % LATIN SMALL LETTER B WITH DOT ABOVE
 <U1E02><S6E3>:"<BASE><POINT>:"<CAP><MIN>:"<U1E02> % LATIN CAPITAL LETTER B WITH DOT ABOVE
 <U1E05><S6E3>:"<BASE><POINS>:"<MIN><MIN>:"<U1E05> % LATIN SMALL LETTER B WITH DOT BELOW
 <U1E04><S6E3>:"<BASE><POINS>:"<CAP><MIN>:"<U1E04> % LATIN CAPITAL LETTER B WITH DOT BELOW
 <U1E07><S6E3>:"<BASE><MACRS>:"<MIN><MIN>:"<U1E07> % LATIN SMALL LETTER B WITH LINE BELOW
 <U1E06><S6E3>:"<BASE><MACRS>:"<CAP><MIN>:"<U1E06> % LATIN CAPITAL LETTER B WITH LINE BELOW
 <U3374><S6E3><S6CF>:"<S835>:"<BASE><BASE><BASE>:"<SQUARED><SQUARED><SQUARED>:"<U3374> % SQUARE BAR
 <U33C3><S6E3><S829>:"<BASE><BASE>:"<SQUARED><CAP><SQUARED>:"<U33C3> % SQUARE BQ
 <U0299><S6E7>:"<BASE><MIN>:"<U0299> % LATIN LETTER SMALL CAPITAL B
 <U0180><S6EB>:"<BASE><MIN>:"<U0180> % LATIN SMALL LETTER B WITH STROKE
 <U0253><S6EF>:"<BASE><MIN>:"<U0253> % LATIN SMALL LETTER B WITH HOOK
 <U0181><S6EF>:"<BASE><CAP>:"<U0181> % LATIN CAPITAL LETTER B WITH HOOK

<U0183><S6F3><BASE><MIN><U0183>% LATIN SMALL LETTER B WITH TOPBAR
 <U0182><S6F3><BASE><CAP><U0182>% LATIN CAPITAL LETTER B WITH TOPBAR
 <U0063><S6F7><BASE><MIN><U0063>% LATIN SMALL LETTER C
 <U0043><S6F7><BASE><CAP><U0043>% LATIN CAPITAL LETTER C
 <U0043><S6F7><BASE><WIDECAP><U0043>% FULLWIDTH LATIN CAPITAL LETTER C
 <U217D><S6F7><BASE><COMPAT><U217D>% SMALL ROMAN NUMERAL ONE HUNDRED
 <U249E><S6F7><BASE><COMPAT><U249E>% PARENTHESIZED LATIN SMALL LETTER C
 <U24D2><S6F7><BASE><CIRCLE><U24D2>% CIRCLED LATIN SMALL LETTER C
 <U0043><S6F7><BASE><CAP><U0043>% LATIN CAPITAL LETTER C
 <U0043><S6F7><BASE><WIDECAP><U0043>% FULLWIDTH LATIN CAPITAL LETTER C
 <U2103><S6F7><BASE><COMPATCAP><U2103>% DEGREE CELSIUS
 <U216D><S6F7><BASE><COMPATCAP><U216D>% ROMAN NUMERAL ONE HUNDRED
 <U2102><S6F7><BASE><FONTCAP><U2102>% DOUBLE STRUCK CAPITAL C
 <U212D><S6F7><BASE><FONTCAP><U212D>% BLACK LETTER CAPITAL C
 <U24B8><S6F7><BASE><CIRCLECAP><U24B8>% CIRCLED LATIN CAPITAL LETTER C
 <U0107><S6F7><BASE><CARON><MIN><U0107>% LATIN SMALL LETTER C WITH ACUTE
 <U0106><S6F7><BASE><CARON><CAP><MIN><U0106>% LATIN CAPITAL LETTER C WITH ACUTE
 <U0109><S6F7><BASE><CIRCFL><MIN><U0109>% LATIN SMALL LETTER C WITH CIRCUMFLEX
 <U0108><S6F7><BASE><CIRCFL><CAP><MIN><U0108>% LATIN CAPITAL LETTER C WITH CIRCUMFLEX
 <U010D><S6F7><BASE><CARON><MIN><U010D>% LATIN SMALL LETTER C WITH CARON
 <U010C><S6F7><BASE><CARON><CAP><MIN><U010C>% LATIN CAPITAL LETTER C WITH CARON
 <U010B><S6F7><BASE><POINT><MIN><U010B>% LATIN SMALL LETTER C WITH DOT ABOVE
 <U010A><S6F7><BASE><POINT><CAP><MIN><U010A>% LATIN CAPITAL LETTER C WITH DOT ABOVE
 <U00E7><S6F7><BASE><CEDIL><MIN><U00E7>% LATIN SMALL LETTER C WITH CEDILLA
 <U00C7><S6F7><BASE><CEDIL><CAP><MIN><U00C7>% LATIN CAPITAL LETTER C WITH CEDILLA
 <U1E09><S6F7><BASE><CEDIL><AIGUT><MIN><U1E09>% LATIN SMALL LETTER C WITH CEDILLA AND ACUTE
 <U1E08><S6F7><BASE><CEDIL><AIGUT><CAP><MIN><U1E08>% LATIN CAPITAL LETTER C WITH CEDILLA AND ACUTE
 <U3388><S6F7><S6CF><S7BD><BASE><BASE><SQUARED><SQUARED><U3388>% SQUARE CAL
 <U33C4><S6F7><S6F7><BASE><BASE><SQUARED><SQUARED><U33C4>% SQUARE CC
 <U33C5><S6F7><S703><BASE><BASE><SQUARED><SQUARED><U33C5>% SQUARE CD
 <U33C6><S6F7><S7B1><S753><BASE><BASE><BASE><SQUARED><SQUARED><U33C6>% SQUARE C OVER KG
 <U339D><S6F7><S7E5><BASE><BASE><SQUARED><SQUARED><U339D>% SQUARE CM
 <U33A0><S6F7><S7E5><S6C7><BASE><BASE><BASE><SQUARED><SQUARED><SQUARED><U33A0>% SQUARE CM SQUARED
 <U33A4><S6F7><S7E5><S6C8><BASE><BASE><BASE><SQUARED><SQUARED><SQUARED><U33A4>% SQUARE CM CUBED
 <U2105><S6F7><S805><BASE><BASE><COMPAT><COMPAT><U2105>% CARE OF
 <U33C7><S6F7><S805><BASE><BASE><SQUARED><SQUARED><U33C7>% SQUARE CO
 <U2106><S6F7><S88D><BASE><BASE><COMPAT><COMPAT><U2106>% CADA UNA
 <U0188><S6FB><BASE><MIN><U0188>% LATIN SMALL LETTER C WITH HOOK
 <U0187><S6FB><BASE><CAP><U0187>% LATIN CAPITAL LETTER C WITH HOOK
 <U0255><S6FF><BASE><MIN><U0255>% LATIN SMALL LETTER C WITH CURL
 <U0064><S703><BASE><MIN><U0064>% LATIN SMALL LETTER D
 <U0044><S703><BASE><WIDECAP><U0044>% FULLWIDTH LATIN SMALL LETTER D
 <U217E><S703><BASE><COMPAT><U217E>% SMALL ROMAN NUMERAL FIVE HUNDRED
 <U249F><S703><BASE><COMPAT><U249F>% PARENTHESIZED LATIN SMALL LETTER D
 <U24D3><S703><BASE><CIRCLE><U24D3>% CIRCLED LATIN SMALL LETTER D
 <U0044><S703><BASE><CAP><U0044>% LATIN CAPITAL LETTER D
 <U0044><S703><BASE><WIDECAP><U0044>% FULLWIDTH LATIN CAPITAL LETTER D
 <U216E><S703><BASE><COMPATCAP><U216E>% ROMAN NUMERAL FIVE HUNDRED
 <U24B9><S703><BASE><CIRCLECAP><U24B9>% CIRCLED LATIN CAPITAL LETTER D
 <U010F><S703><BASE><CARON><MIN><U010F>% LATIN SMALL LETTER D WITH CARON
 <U010E><S703><BASE><CARON><CAP><MIN><U010E>% LATIN CAPITAL LETTER D WITH CARON
 <U1E0B><S703><BASE><POINT><MIN><U1E0B>% LATIN SMALL LETTER D WITH DOT ABOVE
 <U1E0A><S703><BASE><POINT><CAP><MIN><U1E0A>% LATIN CAPITAL LETTER D WITH DOT ABOVE
 <U1E11><S703><BASE><CEDIL><MIN><U1E11>% LATIN SMALL LETTER D WITH CEDILLA
 <U1E10><S703><BASE><CEDIL><CAP><MIN><U1E10>% LATIN CAPITAL LETTER D WITH CEDILLA
 <U1E0D><S703><BASE><POINS><MIN><U1E0D>% LATIN SMALL LETTER D WITH DOT BELOW
 <U1E0C><S703><BASE><POINS><CAP><MIN><U1E0C>% LATIN CAPITAL LETTER D WITH DOT BELOW
 <U1E13><S703><BASE><CIRCS><MIN><U1E13>% LATIN SMALL LETTER D WITH CIRCUMFLEX BELOW
 <U1E12><S703><BASE><CIRCS><CAP><MIN><U1E12>% LATIN CAPITAL LETTER D WITH CIRCUMFLEX BELOW
 <U1E0F><S703><BASE><MACRS><MIN><U1E0F>% LATIN SMALL LETTER D WITH LINE BELOW
 <U1E0E><S703><BASE><MACRS><CAP><MIN><U1E0E>% LATIN CAPITAL LETTER D WITH LINE BELOW
 <U3372><S703><S6CF><BASE><BASE><SQUARED><SQUARED><U3372>% SQUARE DA
 <U33C8><S703><S6E3><BASE><BASE><SQUARED><SQUARED><U33C8>% SQUARE DB
 <U3397><S703><S7BD><BASE><BASE><SQUARED><SQUARED><U3397>% SQUARE DL
 <U01F3><S703><S8C9><BASE><BASE><COMPAT><COMPAT><U01F3>% LATIN SMALL LETTER DZ
 <U02A3><S703><S8C9><BASE><BASE><COMPAT><COMPAT><U02A3>% LATIN SMALL LETTER DZ DIGRAPH
 <U01F2><S703><S8C9><BASE><BASE><COMPATCAP><COMPATCAP><U01F2>% LATIN CAPITAL LETTER D WITH SMALL LETTER Z
 <U01F1><S703><S8C9><BASE><BASE><COMPATCAP><COMPATCAP><U01F1>% LATIN CAPITAL LETTER DZ
 <U01C6><S703><S8C9><BASE><BASE><CARON><COMPAT><COMPAT><MIN><U01C6>% LATIN SMALL LETTER DZ WITH CARON
 <U01C5><S703><S8C9><BASE><BASE><CARON><COMPATCAP><COMPATCAP><MIN><U01C5>% LATIN CAPITAL LETTER DZ WITH CARON
 <U01C4><S703><S8C9><BASE><BASE><CARON><COMPATCAP><COMPATCAP><MIN><U01C4>% LATIN CAPITAL LETTER DZ WITH CARON
 <U02A5><S703><S8D5><BASE><BASE><COMPAT><COMPAT><U02A5>% LATIN SMALL LETTER DZ DIGRAPH WITH CURL
 <U02A4><S703><S8D9><BASE><BASE><COMPAT><COMPAT><U02A4>% LATIN SMALL LETTER DZ DIGRAPH
 <U0111><S707><BASE><MIN><U0111>% LATIN SMALL LETTER D WITH STROKE
 <U0110><S707><BASE><CAP><U0110>% LATIN CAPITAL LETTER D WITH STROKE
 <U0256><S70B><BASE><MIN><U0256>% LATIN SMALL LETTER D WITH TAIL
 <U0189><S70B><BASE><CAP><U0189>% LATIN CAPITAL LETTER AFRICAN D
 <U0257><S70F><BASE><MIN><U0257>% LATIN SMALL LETTER D WITH HOOK
 <U018A><S70F><BASE><CAP><U018A>% LATIN CAPITAL LETTER D WITH HOOK
 <U018C><S713><BASE><MIN><U018C>% LATIN SMALL LETTER D WITH TOPBAR
 <U018B><S713><BASE><CAP><U018B>% LATIN CAPITAL LETTER D WITH TOPBAR
 <U00F0><S717><BASE><MIN><U00F0>% LATIN SMALL LETTER ETH
 <U00D0><S717><BASE><CAP><U00D0>% LATIN CAPITAL LETTER ETH
 <U018D><S71B><BASE><MIN><U018D>% LATIN SMALL LETTER TURNED DELTA
 <U0065><S71F><BASE><MIN><U0065>% LATIN SMALL LETTER E
 <U0045><S71F><BASE><WIDECAP><U0045>% FULLWIDTH LATIN SMALL LETTER E
 <U24A0><S71F><BASE><COMPAT><U24A0>% PARENTHESIZED LATIN SMALL LETTER E

<U212F><S71F><BASE><U212F> % SCRIPT SMALL E
 <U24D4><S71F><BASE><CIRCLE><U24D4> % CIRCLED LATIN SMALL LETTER E
 <U0045><S71F><BASE><CAP><U0045> % LATIN CAPITAL LETTER E
 <UFF25><S71F><BASE><WIDECAP><UFF25> % FULLWIDTH LATIN CAPITAL LETTER E
 <U2130><S71F><BASE><FONTCAP><U2130> % SCRIPT CAPITAL E
 <U24BA><S71F><BASE><CIRCECAP><U24BA> % CIRCLED LATIN CAPITAL LETTER E
 <U00E9><S71F><BASE><AIGUT><MIN><MIN><U00E9> % LATIN SMALL LETTER E WITH ACUTE
 <U00C9><S71F><BASE><AIGUT><CAP><MIN><MIN><U00C9> % LATIN CAPITAL LETTER E WITH ACUTE
 <U00E8><S71F><BASE><GRAVE><MIN><MIN><U00E8> % LATIN SMALL LETTER E WITH GRAVE
 <U00C8><S71F><BASE><GRAVE><CAP><MIN><MIN><U00C8> % LATIN CAPITAL LETTER E WITH GRAVE
 <U0115><S71F><BASE><BREVE><MIN><MIN><U0115> % LATIN SMALL LETTER E WITH BREVE
 <U0114><S71F><BASE><BREVE><CAP><MIN><MIN><U0114> % LATIN CAPITAL LETTER E WITH BREVE
 <U00EA><S71F><BASE><CIRCF><MIN><MIN><U00EA> % LATIN SMALL LETTER E WITH CIRCUMFLEX
 <U00CA><S71F><BASE><CIRCF><CAP><MIN><MIN><U00CA> % LATIN CAPITAL LETTER E WITH CIRCUMFLEX
 <U1EBF><S71F><BASE><CIRCF><AIGUT><MIN><MIN><MIN><U1EBF> % LATIN SMALL LETTER E WITH CIRCUMFLEX AND ACUTE
 <U1EBE><S71F><BASE><CIRCF><AIGUT><CAP><MIN><MIN><MIN><U1EBE> % LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND ACUTE
 <U1EC1><S71F><BASE><CIRCF><GRAVE><MIN><MIN><MIN><U1EC1> % LATIN SMALL LETTER E WITH CIRCUMFLEX AND GRAVE
 <U1EC0><S71F><BASE><CIRCF><GRAVE><CAP><MIN><MIN><MIN><U1EC0> % LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND GRAVE
 <U1EC5><S71F><BASE><CIRCF><TILDE><MIN><MIN><MIN><U1EC5> % LATIN SMALL LETTER E WITH CIRCUMFLEX AND TILDE
 <U1EC4><S71F><BASE><CIRCF><TILDE><CAP><MIN><MIN><MIN><U1EC4> % LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND TILDE
 <U1EC3><S71F><BASE><CIRCF><CROOK><MIN><MIN><MIN><U1EC3> % LATIN SMALL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE
 <U1EC2><S71F><BASE><CIRCF><CROOK><CAP><MIN><MIN><MIN><U1EC2> % LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND HOOK ABOVE
 <U011B><S71F><BASE><CARON><MIN><MIN><U011B> % LATIN SMALL LETTER E WITH CARON
 <U011A><S71F><BASE><CARON><CAP><MIN><MIN><U011A> % LATIN CAPITAL LETTER E WITH CARON
 <U00EB><S71F><BASE><TREMA><MIN><MIN><U00EB> % LATIN SMALL LETTER E WITH DIAERESIS
 <U00CB><S71F><BASE><TREMA><CAP><MIN><MIN><U00CB> % LATIN CAPITAL LETTER E WITH DIAERESIS
 <U1EBD><S71F><BASE><TILDE><MIN><MIN><MIN><U1EBD> % LATIN SMALL LETTER E WITH TILDE
 <U1EBC><S71F><BASE><TILDE><CAP><MIN><MIN><U1EBC> % LATIN CAPITAL LETTER E WITH TILDE
 <U0117><S71F><BASE><POINT><MIN><MIN><U0117> % LATIN SMALL LETTER E WITH DOT ABOVE
 <U0116><S71F><BASE><POINT><CAP><MIN><MIN><U0116> % LATIN CAPITAL LETTER E WITH DOT ABOVE
 <U1E1D><S71F><BASE><CEDIL><BREVE><MIN><MIN><MIN><U1E1D> % LATIN SMALL LETTER E WITH CEDILLA AND BREVE
 <U1E1C><S71F><BASE><CEDIL><BREVE><CAP><MIN><MIN><MIN><U1E1C> % LATIN CAPITAL LETTER E WITH CEDILLA AND BREVE
 <U0119><S71F><BASE><OGONK><MIN><MIN><U0119> % LATIN SMALL LETTER E WITH OGONEK
 <U0118><S71F><BASE><OGONK><CAP><MIN><MIN><U0118> % LATIN CAPITAL LETTER E WITH OGONEK
 <U0113><S71F><BASE><MACRO><MIN><MIN><U0113> % LATIN SMALL LETTER E WITH MACRON
 <U0112><S71F><BASE><MACRO><CAP><MIN><MIN><U0112> % LATIN CAPITAL LETTER E WITH MACRON
 <U1E17><S71F><BASE><MACRO><AIGUT><MIN><MIN><MIN><U1E17> % LATIN SMALL LETTER E WITH MACRON AND ACUTE
 <U1E16><S71F><BASE><MACRO><AIGUT><CAP><MIN><MIN><MIN><U1E16> % LATIN CAPITAL LETTER E WITH MACRON AND ACUTE
 <U1E15><S71F><BASE><MACRO><GRAVE><MIN><MIN><MIN><U1E15> % LATIN SMALL LETTER E WITH MACRON AND GRAVE
 <U1E14><S71F><BASE><MACRO><GRAVE><CAP><MIN><MIN><MIN><U1E14> % LATIN CAPITAL LETTER E WITH MACRON AND GRAVE
 <U1EBB><S71F><BASE><CROOK><MIN><MIN><MIN><U1EBB> % LATIN SMALL LETTER E WITH HOOK ABOVE
 <U1EBA><S71F><BASE><CROOK><CAP><MIN><MIN><MIN><U1EBA> % LATIN CAPITAL LETTER E WITH HOOK ABOVE
 <U0205><S71F><BASE><2GRAV><MIN><MIN><MIN><U0205> % LATIN SMALL LETTER E WITH DOUBLE GRAVE
 <U0204><S71F><BASE><2GRAV><CAP><MIN><MIN><MIN><U0204> % LATIN CAPITAL LETTER E WITH DOUBLE GRAVE
 <U0207><S71F><BASE><BREVR><MIN><MIN><MIN><U0207> % LATIN SMALL LETTER E WITH INVERTED BREVE
 <U0206><S71F><BASE><BREVR><CAP><MIN><MIN><MIN><U0206> % LATIN CAPITAL LETTER E WITH INVERTED BREVE
 <U1EB9><S71F><BASE><POINS><MIN><MIN><MIN><U1EB9> % LATIN SMALL LETTER E WITH DOT BELOW
 <U1EB8><S71F><BASE><POINS><CAP><MIN><MIN><MIN><U1EB8> % LATIN CAPITAL LETTER E WITH DOT BELOW
 <U1EC7><S71F><BASE><POINS><CIRCF><MIN><MIN><MIN><MIN><U1EC7> % LATIN SMALL LETTER E WITH CIRCUMFLEX AND DOT BELOW
 <U1EC6><S71F><BASE><POINS><CIRCF><CAP><MIN><MIN><MIN><MIN><U1EC6> % LATIN CAPITAL LETTER E WITH CIRCUMFLEX AND DOT BELOW
 <U1E19><S71F><BASE><CIRCS><MIN><MIN><MIN><U1E19> % LATIN SMALL LETTER E WITH CIRCUMFLEX BELOW
 <U1E18><S71F><BASE><CIRCS><CAP><MIN><MIN><MIN><U1E18> % LATIN CAPITAL LETTER E WITH CIRCUMFLEX BELOW
 <U1E1B><S71F><BASE><TILDS><MIN><MIN><MIN><U1E1B> % LATIN SMALL LETTER E WITH TILDE BELOW
 <U1E1A><S71F><BASE><TILDS><CAP><MIN><MIN><MIN><U1E1A> % LATIN CAPITAL LETTER E WITH TILDE BELOW
 <U01DD><S723><BASE><MIN><U01DD> % LATIN SMALL LETTER TURNED E
 <U018E><S723><BASE><CAP><U018E> % LATIN CAPITAL LETTER REVERSED E
 <U0259><S727><BASE><MIN><U0259> % LATIN SMALL LETTER SCHWA
 <U018F><S727><BASE><CAP><U018F> % LATIN CAPITAL LETTER SCHWA
 <U025B><S72B><BASE><MIN><U025B> % LATIN SMALL LETTER OPEN E
 <U0190><S72B><BASE><CAP><U0190> % LATIN CAPITAL LETTER OPEN E
 <U2107><S72B><BASE><COMPATCAP><U2107> % EULER CONSTANT
 <U0258><S72F><BASE><MIN><U0258> % LATIN SMALL LETTER REVERSED E
 <U025A><S733><BASE><MIN><U025A> % LATIN SMALL LETTER SCHWA WITH HOOK
 <U025C><S737><BASE><MIN><U025C> % LATIN SMALL LETTER REVERSED OPEN E
 <U025D><S73B><BASE><MIN><U025D> % LATIN SMALL LETTER REVERSED OPEN E WITH HOOK
 <U025E><S73F><BASE><MIN><U025E> % LATIN SMALL LETTER CLOSED REVERSED OPEN E
 <U029A><S743><BASE><MIN><U029A> % LATIN SMALL LETTER CLOSED OPEN E
 <U0264><S747><BASE><MIN><U0264> % LATIN SMALL LETTER RAMS HORN
 <U0066><S74B><BASE><MIN><U0066> % LATIN SMALL LETTER F
 <UFF46><S74B><BASE><WIDE><UFF46> % FULLWIDTH LATIN SMALL LETTER F
 <U24A1><S74B><BASE><COMPAT><U24A1> % PARENTHESIZED LATIN SMALL LETTER F
 <U24D5><S74B><BASE><CIRCLE><U24D5> % CIRCLED LATIN SMALL LETTER F
 <U0046><S74B><BASE><CAP><U0046> % LATIN CAPITAL LETTER F
 <UFF26><S74B><BASE><WIDECAP><UFF26> % FULLWIDTH LATIN CAPITAL LETTER F
 <U2109><S74B><BASE><COMPATCAP><U2109> % DEGREE FAHRENHEIT
 <U2131><S74B><BASE><FONTCAP><U2131> % SCRIPT CAPITAL F
 <U24BB><S74B><BASE><CIRCECAP><U24BB> % CIRCLED LATIN CAPITAL LETTER F
 <U1E1F><S74B><BASE><POINT><MIN><MIN><MIN><U1E1F> % LATIN SMALL LETTER F WITH DOT ABOVE
 <U1E1E><S74B><BASE><POINT><CAP><MIN><MIN><MIN><U1E1E> % LATIN CAPITAL LETTER F WITH DOT ABOVE
 <UFB00><S74B><S74B><BASE><BASE><COMPAT><COMPAT><UFB00> % LATIN SMALL LIGATURE FF
 <UFB03><S74B><S74B><S78D><BASE><BASE><COMPAT><COMPAT><UFB03> % LATIN SMALL LIGATURE FFI
 <UFB04><S74B><S74B><S7BD><BASE><BASE><BASE><COMPAT><COMPAT><COMPAT><UFB04> % LATIN SMALL LIGATURE FFL
 <UFB01><S74B><S78D><BASE><BASE><COMPAT><COMPAT><UFB01> % LATIN SMALL LIGATURE FI
 <UFB02><S74B><S7BD><BASE><BASE><COMPAT><COMPAT><UFB02> % LATIN SMALL LIGATURE FL
 <U3399><S74B><S7E5><BASE><BASE><SQUARED><SQUARED><U3399> % SQUARE FM
 <U0192><S74F><BASE><MIN><U0192> % LATIN SMALL LETTER F WITH HOOK
 <U0191><S74F><BASE><CAP><U0191> % LATIN CAPITAL LETTER F WITH HOOK

<U0067><S753><BASE><MIN><U0067>% LATIN SMALL LETTER G
 <UFF47><S753><BASE><WIDE><UFF47>% FULLWIDTH LATIN SMALL LETTER G
 <U24A2><S753><BASE><COMPAT><U24A2>% PARENTHESIZED LATIN SMALL LETTER G
 <U210A><S753><BASE><U210A>% SCRIPT SMALL G
 <U24D6><S753><BASE><CIRCLE><U24D6>% CIRCLED LATIN SMALL LETTER G
 <U0047><S753><BASE><CAP><U0047>% LATIN CAPITAL LETTER G
 <UFF27><S753><BASE><WIDECAP><UFF27>% FULLWIDTH LATIN CAPITAL LETTER G
 <U24BC><S753><BASE><CIRCLECAP><U24BC>% CIRCLED LATIN CAPITAL LETTER G
 <U01F5><S753><BASE><AIGUT><MIN><U01F5>% LATIN SMALL LETTER G WITH ACUTE
 <U01F4><S753><BASE><AIGUT><CAP><MIN><U01F4>% LATIN CAPITAL LETTER G WITH ACUTE
 <U011F><S753><BASE><BREVE><MIN><U011F>% LATIN SMALL LETTER G WITH BREVE
 <U011E><S753><BASE><BREVE><CAP><MIN><U011E>% LATIN CAPITAL LETTER G WITH BREVE
 <U011D><S753><BASE><CIRCF><MIN><U011D>% LATIN SMALL LETTER G WITH CIRCUMFLEX
 <U011C><S753><BASE><CIRCF><CAP><MIN><U011C>% LATIN CAPITAL LETTER G WITH CIRCUMFLEX
 <U01E7><S753><BASE><CARON><MIN><U01E7>% LATIN SMALL LETTER G WITH CARON
 <U01E6><S753><BASE><CARON><CAP><MIN><U01E6>% LATIN CAPITAL LETTER G WITH CARON
 <U0121><S753><BASE><POINT><MIN><U0121>% LATIN SMALL LETTER G WITH DOT ABOVE
 <U0120><S753><BASE><POINT><CAP><MIN><U0120>% LATIN CAPITAL LETTER G WITH DOT ABOVE
 <U0123><S753><BASE><CEDIL><MIN><U0123>% LATIN SMALL LETTER G WITH CEDILLA
 <U0122><S753><BASE><CEDIL><CAP><MIN><U0122>% LATIN CAPITAL LETTER G WITH CEDILLA
 <U1E21><S753><BASE><MACRO><MIN><U1E21>% LATIN SMALL LETTER G WITH MACRON
 <U1E20><S753><BASE><MACRO><CAP><MIN><U1E20>% LATIN CAPITAL LETTER G WITH MACRON
 <U3387><S753><S6E3><BASE><BASE><SQUARED CAP><SQUARED CAP><U3387>% SQUARE GB
 <U3393><S753><S773><S8C9><BASE><BASE><BASE><SQUARED CAP><SQUARED CAP><U3393>% SQUARE GHZ
 <U33AC><S753><S81D><S6CF><BASE><BASE><BASE><SQUARED CAP><SQUARED CAP><SQUARED><U33AC>% SQUARE GPA
 <U33C9><S753><S8BD><BASE><BASE><BASE><SQUARED CAP><SQUARED><U33C9>% SQUARE GY
 <U0262><S753><BASE><MIN><U0262>% LATIN LETTER SMALL CAPITAL G
 <U01E5><S753><BASE><MIN><U01E5>% LATIN SMALL LETTER G WITH STROKE
 <U01E4><S753><BASE><CAP><U01E4>% LATIN CAPITAL LETTER G WITH STROKE
 <U0260><S753><BASE><MIN><U0260>% LATIN SMALL LETTER G WITH HOOK
 <U0193><S753><BASE><CAP><U0193>% LATIN CAPITAL LETTER G WITH HOOK
 <U029B><S753><BASE><MIN><U029B>% LATIN LETTER SMALL CAPITAL G WITH HOOK
 <U0263><S753><BASE><MIN><U0263>% LATIN SMALL LETTER GAMMA
 <U0194><S753><BASE><CAP><U0194>% LATIN CAPITAL LETTER GAMMA
 <U02E0><S753><BASE><MNN><U02E0>% MODIFIER LETTER SMALL GAMMA
 <U0261><S753><BASE><MIN><U0261>% LATIN SMALL LETTER SCRIPT G
 <U01A3><S753><BASE><MIN><U01A3>% LATIN SMALL LETTER OI
 <U01A2><S753><BASE><CAP><U01A2>% LATIN CAPITAL LETTER OI
 <U0068><S773><BASE><MIN><U0068>% LATIN SMALL LETTER H
 <UFF48><S773><BASE><WIDE><UFF48>% FULLWIDTH LATIN SMALL LETTER H
 <U24A3><S773><BASE><COMPAT><U24A3>% PARENTHESIZED LATIN SMALL LETTER H
 <U210E><S773><BASE><U210E>% PLANCK CONSTANT
 <U24D7><S773><BASE><CIRCLE><U24D7>% CIRCLED LATIN SMALL LETTER H
 <U0048><S773><BASE><CAP><U0048>% LATIN CAPITAL LETTER H
 <UFF28><S773><BASE><WIDECAP><UFF28>% FULLWIDTH LATIN CAPITAL LETTER H
 <U210B><S773><BASE><U210B>% SCRIPT CAPITAL H
 <U210C><S773><BASE><U210C>% BLACK LETTER CAPITAL H
 <U210D><S773><BASE><U210D>% DOUBLE STRUCK CAPITAL H
 <U24BD><S773><BASE><CIRCLECAP><U24BD>% CIRCLED LATIN CAPITAL LETTER H
 <U02B0><S773><BASE><MNN><U02B0>% MODIFIER LETTER SMALL H
 <U0125><S773><BASE><CIRCF><MIN><U0125>% LATIN SMALL LETTER H WITH CIRCUMFLEX
 <U0124><S773><BASE><CIRCF><CAP><MIN><U0124>% LATIN CAPITAL LETTER H WITH CIRCUMFLEX
 <U1E27><S773><BASE><TREMA><MIN><U1E27>% LATIN SMALL LETTER H WITH DIAERESIS
 <U1E26><S773><BASE><TREMA><CAP><MIN><U1E26>% LATIN CAPITAL LETTER H WITH DIAERESIS
 <U1E23><S773><BASE><POINT><MIN><U1E23>% LATIN SMALL LETTER H WITH DOT ABOVE
 <U1E22><S773><BASE><POINT><CAP><MIN><U1E22>% LATIN CAPITAL LETTER H WITH DOT ABOVE
 <U1E29><S773><BASE><CEDIL><MIN><U1E29>% LATIN SMALL LETTER H WITH CEDILLA
 <U1E28><S773><BASE><CEDIL><CAP><MIN><U1E28>% LATIN CAPITAL LETTER H WITH CEDILLA
 <U1E25><S773><BASE><POINS><MIN><U1E25>% LATIN SMALL LETTER H WITH DOT BELOW
 <U1E24><S773><BASE><POINS><CAP><MIN><U1E24>% LATIN CAPITAL LETTER H WITH DOT BELOW
 <U1E2B><S773><BASE><BREVS><MIN><U1E2B>% LATIN SMALL LETTER H WITH BREVE BELOW
 <U1E2A><S773><BASE><BREVS><CAP><MIN><U1E2A>% LATIN CAPITAL LETTER H WITH BREVE BELOW
 <U1E96><S773><BASE><MACRS><MIN><U1E96>% LATIN SMALL LETTER H WITH LINE BELOW
 <U33CA><S773><S6CF><BASE><BASE><SQUARED><SQUARED><U33CA>% SQUARE HA
 <U33CB><S773><S81D><S6CF><BASE><BASE><BASE><SQUARED CAP><SQUARED CAP><U33CB>% SQUARE HP
 <U3371><S773><S81D><S6CF><BASE><BASE><BASE><SQUARED><SQUARED CAP><SQUARED><U3371>% SQUARE HPA
 <U3390><S773><S8C9><BASE><BASE><BASE><SQUARED CAP><SQUARED><U3390>% SQUARE HZ
 <U029C><S773><BASE><MIN><U029C>% LATIN LETTER SMALL CAPITAL H
 <U0195><S773><BASE><MIN><U0195>% LATIN SMALL LETTER HV
 <U0127><S773><BASE><MIN><U0127>% LATIN SMALL LETTER H WITH STROKE
 <U210F><S773><BASE><U210F>% PLANCK CONSTANT OVER TWO PI
 <U0126><S773><BASE><CAP><U0126>% LATIN CAPITAL LETTER H WITH STROKE
 <U0266><S783><BASE><MIN><U0266>% LATIN SMALL LETTER H WITH HOOK
 <U02B1><S783><BASE><MNN><U02B1>% MODIFIER LETTER SMALL H WITH HOOK
 <U0267><S787><BASE><MIN><U0267>% LATIN SMALL LETTER HENG WITH HOOK
 <U02BB><S78B><BASE><MIN><U02BB>% MODIFIER LETTER TURNED COMMA
 <U02BD><S78C><BASE><MIN><U02BD>% MODIFIER LETTER REVERSED COMMA
 <U0069><S78D><BASE><MIN><U0069>% LATIN SMALL LETTER I
 <UFF49><S78D><BASE><WIDE><UFF49>% FULLWIDTH LATIN SMALL LETTER I
 <U2170><S78D><BASE><COMPAT><U2170>% SMALL ROMAN NUMERAL ONE
 <U24A4><S78D><BASE><COMPAT><U24A4>% PARENTHESIZED LATIN SMALL LETTER I
 <U24D8><S78D><BASE><CIRCLE><U24D8>% CIRCLED LATIN SMALL LETTER I
 <U0049><S78D><BASE><CAP><U0049>% LATIN CAPITAL LETTER I
 <UFF29><S78D><BASE><WIDECAP><UFF29>% FULLWIDTH LATIN CAPITAL LETTER I
 <U2160><S78D><BASE><COMPAT CAP><U2160>% ROMAN NUMERAL ONE
 <U2110><S78D><BASE><U2110>% SCRIPT CAPITAL I
 <U2111><S78D><BASE><U2111>% BLACK LETTER CAPITAL I

<U24BE><S78D>:"<BASE><CIRCLECAP>:"<U24BE> % CIRCLED LATIN CAPITAL LETTER I
 <U00ED><S78D>:"<BASE><AIGUT>:"<MIN><MIN>:"<U00ED> % LATIN SMALL LETTER I WITH ACUTE
 <U00CD><S78D>:"<BASE><AIGUT>:"<CAP><MIN>:"<U00CD> % LATIN CAPITAL LETTER I WITH ACUTE
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 <U00CC><S78D>:"<BASE><GRAVE>:"<CAP><MIN>:"<U00CC> % LATIN CAPITAL LETTER I WITH GRAVE
 <U012D><S78D>:"<BASE><BREVE>:"<MIN><MIN>:"<U012D> % LATIN SMALL LETTER I WITH BREVE
 <U012C><S78D>:"<BASE><BREVE>:"<CAP><MIN>:"<U012C> % LATIN CAPITAL LETTER I WITH BREVE
 <U00EE><S78D>:"<BASE><CIRCF>:"<MIN><MIN>:"<U00EE> % LATIN SMALL LETTER I WITH CIRCUMFLEX
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 <U01D0><S78D>:"<BASE><CARON>:"<MIN><MIN>:"<U01D0> % LATIN SMALL LETTER I WITH CARON
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 <U00EF><S78D>:"<BASE><TREMA>:"<MIN><MIN>:"<U00EF> % LATIN SMALL LETTER I WITH DIAERESIS
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 <U1E2F><S78D>:"<BASE><TREMA><AIGUT>:"<MIN><MIN><MIN>:"<U1E2F> % LATIN SMALL LETTER I WITH DIAERESIS AND ACUTE
 <U1E2E><S78D>:"<BASE><TREMA><AIGUT>:"<CAP><MIN><MIN>:"<U1E2E> % LATIN CAPITAL LETTER I WITH DIAERESIS AND ACUTE
 <U0129><S78D>:"<BASE><TILDE>:"<MIN><MIN>:"<U0129> % LATIN SMALL LETTER I WITH TILDE
 <U0128><S78D>:"<BASE><TILDE>:"<CAP><MIN>:"<U0128> % LATIN CAPITAL LETTER I WITH TILDE
 <U0130><S78D>:"<BASE><POINT>:"<CAP><MIN>:"<U0130> % LATIN CAPITAL LETTER I WITH DOT ABOVE
 <U012F><S78D>:"<BASE><OGONK>:"<MIN><MIN>:"<U012F> % LATIN SMALL LETTER I WITH OGONEK
 <U012E><S78D>:"<BASE><OGONK>:"<CAP><MIN>:"<U012E> % LATIN CAPITAL LETTER I WITH OGONEK
 <U012B><S78D>:"<BASE><MACRON>:"<MIN><MIN>:"<U012B> % LATIN SMALL LETTER I WITH MACRON
 <U012A><S78D>:"<BASE><MACRON>:"<CAP><MIN>:"<U012A> % LATIN CAPITAL LETTER I WITH MACRON
 <U1EC9><S78D>:"<BASE><CROOK>:"<MIN><MIN>:"<U1EC9> % LATIN SMALL LETTER I WITH HOOK ABOVE
 <U1EC8><S78D>:"<BASE><CROOK>:"<CAP><MIN>:"<U1EC8> % LATIN CAPITAL LETTER I WITH HOOK ABOVE
 <U0209><S78D>:"<BASE><2GRAV>:"<MIN><MIN>:"<U0209> % LATIN SMALL LETTER I WITH DOUBLE GRAVE
 <U0208><S78D>:"<BASE><2GRAV>:"<CAP><MIN>:"<U0208> % LATIN CAPITAL LETTER I WITH DOUBLE GRAVE
 <U020B><S78D>:"<BASE><BREVR>:"<MIN><MIN>:"<U020B> % LATIN SMALL LETTER I WITH INVERTED BREVE
 <U020A><S78D>:"<BASE><BREVR>:"<CAP><MIN>:"<U020A> % LATIN CAPITAL LETTER I WITH INVERTED BREVE
 <U1ECB><S78D>:"<BASE><POINS>:"<MIN><MIN>:"<U1ECB> % LATIN SMALL LETTER I WITH DOT BELOW
 <U1ECA><S78D>:"<BASE><POINS>:"<CAP><MIN>:"<U1ECA> % LATIN CAPITAL LETTER I WITH DOT BELOW
 <U1E2D><S78D>:"<BASE><TILDS>:"<MIN><MIN>:"<U1E2D> % LATIN SMALL LETTER I WITH TILDE BELOW
 <U1E2C><S78D>:"<BASE><TILDS>:"<CAP><MIN>:"<U1E2C> % LATIN CAPITAL LETTER I WITH TILDE BELOW
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 <U2161><S78D><S78D>:"<BASE><BASE>:"<COMPATCAP><COMPATCAP>:"<U2161> % ROMAN NUMERAL TWO
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 <U2162><S78D><S78D><S78D>:"<BASE><BASE><BASE>:"<COMPATCAP><COMPATCAP><COMPATCAP>:"<U2162> % ROMAN NUMERAL THREE
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 <U33CC><S78D><S7ED>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U33CC> % SQUARE IN
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 <U2163><S78D><S8A5>:"<BASE><BASE>:"<COMPATCAP><COMPATCAP>:"<U2163> % ROMAN NUMERAL FOUR
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 <U0131><S791>:"<BASE>:"<MIN>:"<U0131> % LATIN SMALL LETTER DOTLESS I
 <U026A><S795>:"<BASE>:"<MIN>:"<U026A> % LATIN LETTER SMALL CAPITAL I
 <U0268><S799>:"<BASE>:"<MIN>:"<U0268> % LATIN SMALL LETTER I WITH STROKE
 <U0197><S799>:"<BASE>:"<CAP>:"<U0197> % LATIN CAPITAL LETTER I WITH STROKE
 <U0269><S79D>:"<BASE>:"<MIN>:"<U0269> % LATIN SMALL LETTER IOTA
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 <U24A5><S7A1>:"<BASE>:"<COMPAT>:"<U24A5> % PARENTHESIZED LATIN SMALL LETTER J
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 <U02B2><S7A1>:"<BASE>:"<MNN>:"<U02B2> % MODIFIER LETTER SMALL J
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 <U01F0><S7A1>:"<BASE><CARON>:"<MIN><MIN>:"<U01F0> % LATIN SMALL LETTER J WITH CARON
 <U029D><S7A5>:"<BASE>:"<MIN>:"<U029D> % LATIN SMALL LETTER J WITH CROSSED TAIL
 <U025F><S7A9>:"<BASE>:"<MIN>:"<U025F> % LATIN SMALL LETTER DOTLESS J WITH STROKE
 <U0284><S7AD>:"<BASE>:"<MIN>:"<U0284> % LATIN SMALL LETTER DOTLESS J WITH STROKE AND HOOK
 <U006B><S7B1>:"<BASE>:"<MIN>:"<U006B> % LATIN SMALL LETTER K
 <UFF4B><S7B1>:"<BASE>:"<WIDE>:"<UFF4B> % FULLWIDTH LATIN SMALL LETTER K
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 <U212A><S7B1>:"<BASE>:"<CAP>:"<U212A> % KELVIN SIGN
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 <U1E31><S7B1>:"<BASE><AIGUT>:"<MIN><MIN>:"<U1E31> % LATIN SMALL LETTER K WITH ACUTE
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 <U01E8><S7B1>:"<BASE><CARON>:"<CAP><MIN>:"<U01E8> % LATIN CAPITAL LETTER K WITH CARON
 <U0137><S7B1>:"<BASE><CEDIL>:"<MIN><MIN>:"<U0137> % LATIN SMALL LETTER K WITH CEDILLA
 <U0136><S7B1>:"<BASE><CEDIL>:"<CAP><MIN>:"<U0136> % LATIN CAPITAL LETTER K WITH CEDILLA
 <U1E33><S7B1>:"<BASE><POINS>:"<MIN><MIN>:"<U1E33> % LATIN SMALL LETTER K WITH DOT BELOW
 <U1E32><S7B1>:"<BASE><POINS>:"<CAP><MIN>:"<U1E32> % LATIN CAPITAL LETTER K WITH DOT BELOW
 <U1E35><S7B1>:"<BASE><MACRS>:"<MIN><MIN>:"<U1E35> % LATIN SMALL LETTER K WITH LINE BELOW
 <U1E34><S7B1>:"<BASE><MACRS>:"<CAP><MIN>:"<U1E34> % LATIN CAPITAL LETTER K WITH LINE BELOW
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 <U0199><S7B5>"<BASE><MIN>"<U0199>% LATIN SMALL LETTER K WITH HOOK
 <U0198><S7B5>"<BASE><CAP>"<U0198>% LATIN CAPITAL LETTER K WITH HOOK
 <U029E><S7B9>"<BASE><MIN>"<U029E>% LATIN SMALL LETTER TURNED K
 <U006C><S7BD>"<BASE><MIN>"<U006C>% LATIN SMALL LETTER L
 <UFF4C><S7BD>"<BASE><WIDE>"<UFF4C>% FULLWIDTH LATIN SMALL LETTER L
 <U0140><S7BD>"<BASE><COMPAT>"<U0140>% LATIN SMALL LETTER L WITH MIDDLE DOT
 <U217C><S7BD>"<BASE><COMPAT>"<U217C>% SMALL ROMAN NUMERAL FIFTY
 <U24A7><S7BD>"<BASE><COMPAT>"<U24A7>% PARENTHESIZED LATIN SMALL LETTER L
 <U2113><S7BD>"<BASE>"<U2113>% SCRIPT SMALL L
 <U24DB><S7BD>"<BASE><CIRCLE>"<U24DB>% CIRCLED LATIN SMALL LETTER L
 <U004C><S7BD>"<BASE><CAP>"<U004C>% LATIN CAPITAL LETTER L
 <UFF2C><S7BD>"<BASE><WIDECAP>"<UFF2C>% FULLWIDTH LATIN CAPITAL LETTER L
 <U013F><S7BD>"<BASE><COMPATCAP>"<U013F>% LATIN CAPITAL LETTER L WITH MIDDLE DOT
 <U216C><S7BD>"<BASE><COMPATCAP>"<U216C>% ROMAN NUMERAL FIFTY
 <U2112><S7BD>"<BASE><FONTCAP>"<U2112>% SCRIPT CAPITAL L
 <U24C1><S7BD>"<BASE><CIRCLECAP>"<U24C1>% CIRCLED LATIN CAPITAL LETTER L
 <U02E1><S7BD>"<BASE><MNN>"<U02E1>% MODIFIER LETTER SMALL L
 <U013A><S7BD>"<BASE><AIGUT>"<MIN><MIN>"<U013A>% LATIN SMALL LETTER L WITH ACUTE
 <U0139><S7BD>"<BASE><AIGUT>"<CAP><MIN>"<U0139>% LATIN CAPITAL LETTER L WITH ACUTE
 <U013E><S7BD>"<BASE><CARON>"<MIN><MIN>"<U013E>% LATIN SMALL LETTER L WITH CARON
 <U013D><S7BD>"<BASE><CARON>"<CAP><MIN>"<U013D>% LATIN CAPITAL LETTER L WITH CARON
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 <U013B><S7BD>"<BASE><CEDIL>"<CAP><MIN>"<U013B>% LATIN CAPITAL LETTER L WITH CEDILLA
 <U1E37><S7BD>"<BASE><POINS>"<MIN><MIN>"<U1E37>% LATIN SMALL LETTER L WITH DOT BELOW
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 <U1E39><S7BD>"<BASE><POINS><MACRO>"<MIN><MIN><MIN>"<U1E39>% LATIN SMALL LETTER L WITH DOT BELOW AND MACRON
 <U1E38><S7BD>"<BASE><POINS><MACRO>"<CAP><MIN><MIN>"<U1E38>% LATIN CAPITAL LETTER L WITH DOT BELOW AND MACRON
 <U1E3D><S7BD>"<BASE><CIRCS>"<MIN><MIN>"<U1E3D>% LATIN SMALL LETTER L WITH CIRCUMFLEX BELOW
 <U1E3C><S7BD>"<BASE><CIRCS>"<CAP><MIN>"<U1E3C>% LATIN CAPITAL LETTER L WITH CIRCUMFLEX BELOW
 <U1E3B><S7BD>"<BASE><MACRS>"<MIN><MIN>"<U1E3B>% LATIN SMALL LETTER L WITH LINE BELOW
 <U1E3A><S7BD>"<BASE><MACRS>"<CAP><MIN>"<U1E3A>% LATIN CAPITAL LETTER L WITH LINE BELOW
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 <U01C7><S7BD><S7A1>"<BASE><BASE>"<COMPATCAP><COMPATCAP>"<U01C7>% LATIN CAPITAL LETTER LJ
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 <U33D1><S7BD><S7ED>"<BASE><BASE>"<SQUARED><SQUARED>"<U33D1>% SQUARE LN
 <U33D2><S7BD><S805><S753>"<BASE><BASE><BASE>"<SQUARED><SQUARED><SQUARED>"<U33D2>% SQUARE LOG
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 <U029F><S7C1>"<BASE><MIN>"<U029F>% LATIN LETTER SMALL CAPITAL L
 <U0142><S7C5>"<BASE><MIN>"<U0142>% LATIN SMALL LETTER L WITH STROKE
 <U0141><S7C5>"<BASE><CAP>"<U0141>% LATIN CAPITAL LETTER L WITH STROKE
 <U019A><S7C9>"<BASE><MIN>"<U019A>% LATIN SMALL LETTER L WITH BAR
 <U026B><S7CD>"<BASE><MIN>"<U026B>% LATIN SMALL LETTER L WITH MIDDLE TILDE
 <U026C><S7D1>"<BASE><MIN>"<U026C>% LATIN SMALL LETTER L WITH BELT
 <U026D><S7D5>"<BASE><MIN>"<U026D>% LATIN SMALL LETTER L WITH RETROFLEX HOOK
 <U026E><S7D9>"<BASE><MIN>"<U026E>% LATIN SMALL LETTER LEZH
 <U019B><S7DD>"<BASE><MIN>"<U019B>% LATIN SMALL LETTER LAMBDA WITH STROKE
 <U028E><S7E1>"<BASE><MIN>"<U028E>% LATIN SMALL LETTER TURNED Y
 <U006D><S7E5>"<BASE><MIN>"<U006D>% LATIN SMALL LETTER M
 <UFF4D><S7E5>"<BASE><WIDE>"<UFF4D>% FULLWIDTH LATIN SMALL LETTER M
 <U217F><S7E5>"<BASE><COMPAT>"<U217F>% SMALL ROMAN NUMERAL ONE THOUSAND
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 <U24DC><S7E5>"<BASE><CIRCLE>"<U24DC>% CIRCLED LATIN SMALL LETTER M
 <U004D><S7E5>"<BASE><CAP>"<U004D>% LATIN CAPITAL LETTER M
 <UFF2D><S7E5>"<BASE><WIDECAP>"<UFF2D>% FULLWIDTH LATIN CAPITAL LETTER M
 <U216F><S7E5>"<BASE><COMPATCAP>"<U216F>% ROMAN NUMERAL ONE THOUSAND
 <U2133><S7E5>"<BASE><FONTCAP>"<U2133>% SCRIPT CAPITAL M
 <U24C2><S7E5>"<BASE><CIRCLECAP>"<U24C2>% CIRCLED LATIN CAPITAL LETTER M
 <U1E3F><S7E5>"<BASE><AIGUT>"<MIN><MIN>"<U1E3F>% LATIN SMALL LETTER M WITH ACUTE
 <U1E3E><S7E5>"<BASE><AIGUT>"<CAP><MIN>"<U1E3E>% LATIN CAPITAL LETTER M WITH ACUTE
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 <U0271><S7E9><BASE><MIN><U0271> % LATIN SMALL LETTER M WITH HOOK
 <U006E><S7ED><BASE><MIN><U006E> % LATIN SMALL LETTER N
 <UFF4E><S7ED><BASE><WIDE><UFF4E> % FULLWIDTH LATIN SMALL LETTER N
 <U24A9><S7ED><BASE><COMPAT><U24A9> % PARENTHESIZED LATIN SMALL LETTER N
 <U24DD><S7ED><BASE><CIRCLE><U24DD> % CIRCLED LATIN SMALL LETTER N
 <U004E><S7ED><BASE><CAP><U004E> % LATIN CAPITAL LETTER N
 <UFF2E><S7ED><BASE><WIDECAP><UFF2E> % FULLWIDTH LATIN CAPITAL LETTER N
 <U2115><S7ED><BASE><FONTCAP><U2115> % DOUBLE STRUCK CAPITAL N
 <U24C3><S7ED><BASE><CIRCLECAP><U24C3> % CIRCLED LATIN CAPITAL LETTER N
 <U207F><S7ED><BASE><MNN><U207F> % SUPERSCRIPT LATIN SMALL LETTER N
 <U0144><S7ED>"<BASE><AIGUT>"<MIN><MIN>"<U0144> % LATIN SMALL LETTER N WITH ACUTE
 <U0143><S7ED>"<BASE><AIGUT>"<CAP><MIN>"<U0143> % LATIN CAPITAL LETTER N WITH ACUTE
 <U0148><S7ED>"<BASE><CARON>"<MIN><MIN>"<U0148> % LATIN SMALL LETTER N WITH CARON
 <U0147><S7ED>"<BASE><CARON>"<CAP><MIN>"<U0147> % LATIN CAPITAL LETTER N WITH CARON
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 <U1E45><S7ED>"<BASE><POINT>"<MIN><MIN>"<U1E45> % LATIN SMALL LETTER N WITH DOT ABOVE
 <U1E44><S7ED>"<BASE><POINT>"<CAP><MIN>"<U1E44> % LATIN CAPITAL LETTER N WITH DOT ABOVE
 <U0146><S7ED>"<BASE><CEDIL>"<MIN><MIN>"<U0146> % LATIN SMALL LETTER N WITH CEDILLA
 <U0145><S7ED>"<BASE><CEDIL>"<CAP><MIN>"<U0145> % LATIN CAPITAL LETTER N WITH CEDILLA
 <U1E47><S7ED>"<BASE><POINS>"<MIN><MIN>"<U1E47> % LATIN SMALL LETTER N WITH DOT BELOW
 <U1E46><S7ED>"<BASE><POINS>"<CAP><MIN>"<U1E46> % LATIN CAPITAL LETTER N WITH DOT BELOW
 <U1E4B><S7ED>"<BASE><CIRCS>"<MIN><MIN>"<U1E4B> % LATIN SMALL LETTER N WITH CIRCUMFLEX BELOW
 <U1E4A><S7ED>"<BASE><CIRCS>"<CAP><MIN>"<U1E4A> % LATIN CAPITAL LETTER N WITH CIRCUMFLEX BELOW
 <U1E49><S7ED>"<BASE><MACRS>"<MIN><MIN>"<U1E49> % LATIN SMALL LETTER N WITH LINE BELOW
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 <U01CB>"<S7ED><S7A1>"<BASE><BASE>"<COMPATCAP><COMPATCAP>"<U01CB> % LATIN CAPITAL LETTER NJ WITH SMALL LETTER J
 <U01CA>"<S7ED><S7A1>"<BASE><BASE>"<COMPATCAP><COMPATCAP>"<U01CA> % LATIN CAPITAL LETTER NJ
 <U339A>"<S7ED><S7E5>"<BASE><BASE>"<SQUARED><SQUARED><SQUARED>"<U339A> % SQUARE NM
 <U2116><S7ED><S805>"<BASE><BASE>"<COMPATCAP><COMPATCAP>"<U2116> % NUMERO SIGN
 <U33B1>"<S7ED><S85D>"<BASE><BASE>"<SQUARED><SQUARED><SQUARED>"<U33B1> % SQUARE NS
 <U33B5>"<S7ED><S8A5>"<BASE><BASE>"<SQUARED><SQUARED><SQUARED>"<U33B5> % SQUARE NV
 <U33BB>"<S7ED><S8B1>"<BASE><BASE>"<SQUARED><SQUARED><SQUARED>"<U33BB> % SQUARE NW
 <U0274><S7F1><BASE><MIN><U0274> % LATIN LETTER SMALL CAPITAL N
 <U0272><S7F5><BASE><MIN><U0272> % LATIN SMALL LETTER N WITH LEFT HOOK
 <U019D><S7F5><BASE><CAP><U019D> % LATIN CAPITAL LETTER N WITH LEFT HOOK
 <U019E><S7F9><BASE><MIN><U019E> % LATIN SMALL LETTER N WITH LONG RIGHT LEG
 <U0273><S7FD><BASE><MIN><U0273> % LATIN SMALL LETTER N WITH RETROFLEX HOOK
 <U014B><S801><BASE><MIN><U014B> % LATIN SMALL LETTER ENG
 <U014A><S801><BASE><CAP><U014A> % LATIN CAPITAL LETTER ENG
 <U006F><S805><BASE><MIN><U006F> % LATIN SMALL LETTER O
 <UFF4F><S805><BASE><WIDE><UFF4F> % FULLWIDTH LATIN SMALL LETTER O
 <U24AA><S805><BASE><COMPAT><U24AA> % PARENTHESIZED LATIN SMALL LETTER O
 <U2134><S805><BASE><U2134> % SCRIPT SMALL O
 <U24DE><S805><BASE><CIRCLE><U24DE> % CIRCLED LATIN SMALL LETTER O
 <U004F><S805><BASE><CAP><U004F> % LATIN CAPITAL LETTER O
 <UFF2F><S805><BASE><WIDECAP><UFF2F> % FULLWIDTH LATIN CAPITAL LETTER O
 <U24C4><S805><BASE><CIRCLECAP><U24C4> % CIRCLED LATIN CAPITAL LETTER O
 <U00BA><S805><BASE><MNN><U00BA> % MASCULINE ORDINAL INDICATOR
 <U00F3><S805>"<BASE><AIGUT>"<MIN><MIN>"<U00F3> % LATIN SMALL LETTER O WITH ACUTE
 <U00D3><S805>"<BASE><AIGUT>"<CAP><MIN>"<U00D3> % LATIN CAPITAL LETTER O WITH ACUTE
 <U00F2><S805>"<BASE><GRAVE>"<MIN><MIN>"<U00F2> % LATIN SMALL LETTER O WITH GRAVE
 <U00D2><S805>"<BASE><GRAVE>"<CAP><MIN>"<U00D2> % LATIN CAPITAL LETTER O WITH GRAVE
 <U014F><S805>"<BASE><BREVE>"<MIN><MIN>"<U014F> % LATIN SMALL LETTER O WITH BREVE
 <U014E><S805>"<BASE><BREVE>"<CAP><MIN>"<U014E> % LATIN CAPITAL LETTER O WITH BREVE
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 <U00D4><S805>"<BASE><CIRCF>"<CAP><MIN>"<U00D4> % LATIN CAPITAL LETTER O WITH CIRCUMFLEX
 <U1ED1><S805>"<BASE><CIRCF><AIGUT>"<MIN><MIN><MIN>"<U1ED1> % LATIN SMALL LETTER O WITH CIRCUMFLEX AND ACUTE
 <U1ED0><S805>"<BASE><CIRCF><AIGUT>"<CAP><MIN><MIN>"<U1ED0> % LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND ACUTE
 <U1ED3><S805>"<BASE><CIRCF><GRAVE>"<MIN><MIN><MIN>"<U1ED3> % LATIN SMALL LETTER O WITH CIRCUMFLEX AND GRAVE
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 <U1ED7><S805>"<BASE><CIRCF><TILDE>"<MIN><MIN><MIN>"<U1ED7> % LATIN SMALL LETTER O WITH CIRCUMFLEX AND TILDE
 <U1ED6><S805>"<BASE><CIRCF><TILDE>"<CAP><MIN><MIN>"<U1ED6> % LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND TILDE
 <U1ED5><S805>"<BASE><CIRCF><CROOK>"<MIN><MIN><MIN>"<U1ED5> % LATIN SMALL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE
 <U1ED4><S805>"<BASE><CIRCF><CROOK>"<CAP><MIN><MIN>"<U1ED4> % LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND HOOK ABOVE
 <U01D2><S805>"<BASE><CARON>"<MIN><MIN>"<U01D2> % LATIN SMALL LETTER O WITH CARON
 <U01D1><S805>"<BASE><CARON>"<CAP><MIN>"<U01D1> % LATIN CAPITAL LETTER O WITH CARON
 <U00F6><S805>"<BASE><TREMA>"<MIN><MIN>"<U00F6> % LATIN SMALL LETTER O WITH DIAERESIS
 <U00D6><S805>"<BASE><TREMA>"<CAP><MIN>"<U00D6> % LATIN CAPITAL LETTER O WITH DIAERESIS
 <U0151><S805>"<BASE><2AIGU>"<MIN><MIN>"<U0151> % LATIN SMALL LETTER O WITH DOUBLE ACUTE
 <U0150><S805>"<BASE><2AIGU>"<CAP><MIN>"<U0150> % LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
 <U00F5><S805>"<BASE><TILDE>"<MIN><MIN>"<U00F5> % LATIN SMALL LETTER O WITH TILDE
 <U00D5><S805>"<BASE><TILDE>"<CAP><MIN>"<U00D5> % LATIN CAPITAL LETTER O WITH TILDE
 <U1E4D><S805>"<BASE><TILDE><AIGUT>"<MIN><MIN><MIN>"<U1E4D> % LATIN SMALL LETTER O WITH TILDE AND ACUTE
 <U1E4C><S805>"<BASE><TILDE><AIGUT>"<CAP><MIN><MIN>"<U1E4C> % LATIN CAPITAL LETTER O WITH TILDE AND ACUTE

<U1E4F><S805>:"<BASE><TILDE><TREMA>:"<MIN><MIN><MIN>:"<U1E4F> % LATIN SMALL LETTER O WITH TILDE AND DIAERESIS
 <U1E4E><S805>:"<BASE><TILDE><TREMA>:"<CAP><MIN><MIN>:"<U1E4E> % LATIN CAPITAL LETTER O WITH TILDE AND DIAERESIS
 <U01EB><S805>:"<BASE><OGONK>:"<MIN><MIN>:"<U01EB> % LATIN SMALL LETTER O WITH OGONEK
 <U01EA><S805>:"<BASE><OGONK>:"<CAP><MIN>:"<U01EA> % LATIN CAPITAL LETTER O WITH OGONEK
 <U01ED><S805>:"<BASE><OGONK><MACRO>:"<MIN><MIN><MIN>:"<U01ED> % LATIN SMALL LETTER O WITH OGONEK AND MACRON
 <U01EC><S805>:"<BASE><OGONK><MACRO>:"<CAP><MIN><MIN>:"<U01EC> % LATIN CAPITAL LETTER O WITH OGONEK AND MACRON
 <U014D><S805>:"<BASE><MACRO>:"<MIN><MIN>:"<U014D> % LATIN SMALL LETTER O WITH MACRON
 <U014C><S805>:"<BASE><MACRO>:"<CAP><MIN>:"<U014C> % LATIN CAPITAL LETTER O WITH MACRON
 <U1E53><S805>:"<BASE><MACRO><AIGUT>:"<MIN><MIN><MIN>:"<U1E53> % LATIN SMALL LETTER O WITH MACRON AND ACUTE
 <U1E52><S805>:"<BASE><MACRO><AIGUT>:"<CAP><MIN><MIN>:"<U1E52> % LATIN CAPITAL LETTER O WITH MACRON AND ACUTE
 <U1E51><S805>:"<BASE><MACRO><GRAVE>:"<MIN><MIN><MIN>:"<U1E51> % LATIN SMALL LETTER O WITH MACRON AND GRAVE
 <U1E50><S805>:"<BASE><MACRO><GRAVE>:"<CAP><MIN><MIN>:"<U1E50> % LATIN CAPITAL LETTER O WITH MACRON AND GRAVE
 <U1ECF><S805>:"<BASE><CROOK>:"<MIN><MIN>:"<U1ECF> % LATIN SMALL LETTER O WITH HOOK ABOVE
 <U1ECE><S805>:"<BASE><CROOK>:"<CAP><MIN>:"<U1ECE> % LATIN CAPITAL LETTER O WITH HOOK ABOVE
 <U020D><S805>:"<BASE><2GRAV>:"<MIN><MIN>:"<U020D> % LATIN SMALL LETTER O WITH DOUBLE GRAVE
 <U020C><S805>:"<BASE><2GRAV>:"<CAP><MIN>:"<U020C> % LATIN CAPITAL LETTER O WITH DOUBLE GRAVE
 <U020F><S805>:"<BASE><BREVR>:"<MIN><MIN>:"<U020F> % LATIN SMALL LETTER O WITH INVERTED BREVE
 <U020E><S805>:"<BASE><BREVR>:"<CAP><MIN>:"<U020E> % LATIN CAPITAL LETTER O WITH INVERTED BREVE
 <U01A1><S805>:"<BASE><HORN>:"<MIN><MIN>:"<U01A1> % LATIN SMALL LETTER O WITH HORN
 <U01A0><S805>:"<BASE><HORN>:"<CAP><MIN>:"<U01A0> % LATIN CAPITAL LETTER O WITH HORN
 <U1EDB><S805>:"<BASE><HORN><AIGUT>:"<MIN><MIN><MIN>:"<U1EDB> % LATIN SMALL LETTER O WITH HORN AND ACUTE
 <U1EDA><S805>:"<BASE><HORN><AIGUT>:"<CAP><MIN><MIN>:"<U1EDA> % LATIN CAPITAL LETTER O WITH HORN AND ACUTE
 <U1EDD><S805>:"<BASE><HORN><GRAVE>:"<MIN><MIN><MIN>:"<U1EDD> % LATIN SMALL LETTER O WITH HORN AND GRAVE
 <U1EDC><S805>:"<BASE><HORN><GRAVE>:"<CAP><MIN><MIN>:"<U1EDC> % LATIN CAPITAL LETTER O WITH HORN AND GRAVE
 <U1EE1><S805>:"<BASE><HORN><TILDE>:"<MIN><MIN><MIN>:"<U1EE1> % LATIN SMALL LETTER O WITH HORN AND TILDE
 <U1EE0><S805>:"<BASE><HORN><TILDE>:"<CAP><MIN><MIN>:"<U1EE0> % LATIN CAPITAL LETTER O WITH HORN AND TILDE
 <U1EDF><S805>:"<BASE><HORN><CROOK>:"<MIN><MIN><MIN>:"<U1EDF> % LATIN SMALL LETTER O WITH HORN AND HOOK ABOVE
 <U1EDE><S805>:"<BASE><HORN><CROOK>:"<CAP><MIN><MIN>:"<U1EDE> % LATIN CAPITAL LETTER O WITH HORN AND HOOK ABOVE
 <U1ECD><S805>:"<BASE><POINS>:"<MIN><MIN>:"<U1ECD> % LATIN SMALL LETTER O WITH DOT BELOW
 <U1ECC><S805>:"<BASE><POINS>:"<CAP><MIN>:"<U1ECC> % LATIN CAPITAL LETTER O WITH DOT BELOW
 <U1ED9><S805>:"<BASE><POINS><CIRCF>:"<MIN><MIN><MIN>:"<U1ED9> % LATIN SMALL LETTER O WITH CIRCUMFLEX AND DOT BELOW
 <U1ED8><S805>:"<BASE><POINS><CIRCF>:"<CAP><MIN><MIN>:"<U1ED8> % LATIN CAPITAL LETTER O WITH CIRCUMFLEX AND DOT BELOW
 <U1EE3><S805>:"<BASE><POINS><HORN>:"<MIN><MIN><MIN>:"<U1EE3> % LATIN SMALL LETTER O WITH HORN AND DOT BELOW
 <U1EE2><S805>:"<BASE><POINS><HORN>:"<CAP><MIN><MIN>:"<U1EE2> % LATIN CAPITAL LETTER O WITH HORN AND DOT BELOW
 <U0153><S805>:"<S71F>:"<BASE><VRNT1><BASE>:"<COMPAT><MIN><COMPAT>:"<U0153> % LATIN SMALL LIGATURE OE
 <U0152><S805>:"<S71F>:"<BASE><VRNT1><BASE>:"<COMPATCAP><MIN><COMPATCAP>:"<U0152> % LATIN CAPITAL LIGATURE OE
 <U3375><S805><S8A5>:"<BASE><BASE>:"<SQUARED><SQUARED CAP>:"<U3375> % SQUARE OV
 <U0276><S809>:"<BASE><MIN>:"<U0276> % LATIN LETTER SMALL CAPITAL OE
 <U00F8><S80D>:"<BASE><MIN>:"<U00F8> % LATIN SMALL LETTER O WITH STROKE
 <U00D8><S80D>:"<BASE><CAP>:"<U00D8> % LATIN CAPITAL LETTER O WITH STROKE
 <U01FF><S80D>:"<BASE><AIGUT>:"<MIN><MIN>:"<U01FF> % LATIN SMALL LETTER O WITH STROKE AND ACUTE
 <U01FE><S80D>:"<BASE><AIGUT>:"<CAP><MIN>:"<U01FE> % LATIN CAPITAL LETTER O WITH STROKE AND ACUTE
 <U0254><S811>:"<BASE><MIN>:"<U0254> % LATIN SMALL LETTER OPEN O
 <U0186><S811>:"<BASE><CAP>:"<U0186> % LATIN CAPITAL LETTER OPEN O
 <U0275><S815>:"<BASE><MIN>:"<U0275> % LATIN SMALL LETTER BARRED O
 <U019F><S815>:"<BASE><CAP>:"<U019F> % LATIN CAPITAL LETTER O WITH MIDDLE TILDE
 <U0277><S819>:"<BASE><MIN>:"<U0277> % LATIN SMALL LETTER CLOSED OMEGA
 <U0070><S81D>:"<BASE><MIN>:"<U0070> % LATIN SMALL LETTER P
 <UFF50><S81D>:"<BASE><WIDE>:"<UFF50> % FULLWIDTH LATIN SMALL LETTER P
 <U24AB><S81D>:"<BASE><COMPAT>:"<U24AB> % PARENTHESIZED LATIN SMALL LETTER P
 <U24DF><S81D>:"<BASE><CIRCLE>:"<U24DF> % CIRCLED LATIN SMALL LETTER P
 <U0050><S81D>:"<BASE><CAP>:"<U0050> % LATIN CAPITAL LETTER P
 <UFF30><S81D>:"<BASE><WIDECAP>:"<UFF30> % FULLWIDTH LATIN CAPITAL LETTER P
 <U2119><S81D>:"<BASE><FONTCAP>:"<U2119> % DOUBLE STRUCK CAPITAL P
 <U24C5><S81D>:"<BASE><CIRCLECAP>:"<U24C5> % CIRCLED LATIN CAPITAL LETTER P
 <U1E55><S81D>:"<BASE><AIGUT>:"<MIN><MIN>:"<U1E55> % LATIN SMALL LETTER P WITH ACUTE
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 <U1E57><S81D>:"<BASE><POINT>:"<MIN><MIN>:"<U1E57> % LATIN SMALL LETTER P WITH DOT ABOVE
 <U1E56><S81D>:"<BASE><POINT>:"<CAP><MIN>:"<U1E56> % LATIN CAPITAL LETTER P WITH DOT ABOVE
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 <U33A9><S81D>:"<S6CF>:"<BASE><BASE>:"<SQUARED CAP><SQUARED>:"<U33A9> % SQUARE PA
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 <U33D9><S81D>:"<S81D><S7E5>:"<BASE><BASE><BASE>:"<SQUARED CAP><SQUARED CAP><SQUARED CAP>:"<U33D9> % SQUARE PPM
 <U33DA><S81D>:"<S835>:"<BASE><BASE>:"<SQUARED CAP><SQUARED CAP>:"<U33DA> % SQUARE PR
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 <U33BA><S81D>:"<S8B1>:"<BASE><BASE>:"<SQUARED><SQUARED CAP>:"<U33BA> % SQUARE PW
 <U01A5><S821>:"<BASE><MIN>:"<U01A5> % LATIN SMALL LETTER P WITH HOOK
 <U01A4><S821>:"<BASE><CAP>:"<U01A4> % LATIN CAPITAL LETTER P WITH HOOK
 <U0278><S825>:"<BASE><MIN>:"<U0278> % LATIN SMALL LETTER PHI
 <U0071><S829>:"<BASE><MIN>:"<U0071> % LATIN SMALL LETTER Q
 <UFF51><S829>:"<BASE><WIDE>:"<UFF51> % FULLWIDTH LATIN SMALL LETTER Q
 <U24AC><S829>:"<BASE><COMPAT>:"<U24AC> % PARENTHESIZED LATIN SMALL LETTER Q
 <U24E0><S829>:"<BASE><CIRCLE>:"<U24E0> % CIRCLED LATIN SMALL LETTER Q
 <U0051><S829>:"<BASE><CAP>:"<U0051> % LATIN CAPITAL LETTER Q
 <UFF31><S829>:"<BASE><WIDECAP>:"<UFF31> % FULLWIDTH LATIN CAPITAL LETTER Q
 <U211A><S829>:"<BASE><FONTCAP>:"<U211A> % DOUBLE STRUCK CAPITAL Q
 <U24C6><S829>:"<BASE><CIRCLECAP>:"<U24C6> % CIRCLED LATIN CAPITAL LETTER Q
 <U02A0><S82D>:"<BASE><MIN>:"<U02A0> % LATIN SMALL LETTER Q WITH HOOK
 <U0138><S831>:"<BASE><MIN>:"<U0138> % LATIN SMALL LETTER KRA
 <U0072><S835>:"<BASE><MIN>:"<U0072> % LATIN SMALL LETTER R
 <UFF52><S835>:"<BASE><WIDE>:"<UFF52> % FULLWIDTH LATIN SMALL LETTER R
 <U24AD><S835>:"<BASE><COMPAT>:"<U24AD> % PARENTHESIZED LATIN SMALL LETTER R
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<U0052><S835><BASE><CAP><U0052>% LATIN CAPITAL LETTER R
 <UFF32><S835><BASE><WIDECAP><UFF32>% FULLWIDTH LATIN CAPITAL LETTER R
 <U211B><S835><BASE><FONTCAP><U211B>% SCRIPT CAPITAL R
 <U211C><S835><BASE><FONTCAP><U211C>% BLACK-LETTER CAPITAL R
 <U211D><S835><BASE><FONTCAP><U211D>% DOUBLE-STRUCK CAPITAL R
 <U24C7><S835><BASE><CIRCLECAP><U24C7>% CIRCLED LATIN CAPITAL LETTER R
 <U02B3><S835><BASE><MNN><U02B3>% MODIFIER LETTER SMALL R
 <U0155><S835><BASE><AIGUT><MIN><U0155>% LATIN SMALL LETTER R WITH ACUTE
 <U0154><S835><BASE><AIGUT><CAP><MIN><U0154>% LATIN CAPITAL LETTER R WITH ACUTE
 <U0159><S835><BASE><CARON><MIN><U0159>% LATIN SMALL LETTER R WITH CARON
 <U0158><S835><BASE><CARON><CAP><MIN><U0158>% LATIN CAPITAL LETTER R WITH CARON
 <U1E59><S835><BASE><POINT><MIN><U1E59>% LATIN SMALL LETTER R WITH DOT ABOVE
 <U1E58><S835><BASE><POINT><CAP><MIN><U1E58>% LATIN CAPITAL LETTER R WITH DOT ABOVE
 <U0157><S835><BASE><CEDIL><MIN><U0157>% LATIN SMALL LETTER R WITH CEDILLA
 <U0156><S835><BASE><CEDIL><CAP><MIN><U0156>% LATIN CAPITAL LETTER R WITH CEDILLA
 <U0211><S835><BASE><2GRAV><MIN><U0211>% LATIN SMALL LETTER R WITH DOUBLE GRAVE
 <U0210><S835><BASE><2GRAV><CAP><MIN><U0210>% LATIN CAPITAL LETTER R WITH DOUBLE GRAVE
 <U0213><S835><BASE><BREV<><MIN><U0213>% LATIN SMALL LETTER R WITH INVERTED BREVE
 <U0212><S835><BASE><BREV<><CAP><MIN><U0212>% LATIN CAPITAL LETTER R WITH INVERTED BREVE
 <U1E5B><S835><BASE><POINS><MIN><U1E5B>% LATIN SMALL LETTER R WITH DOT BELOW
 <U1E5A><S835><BASE><POINS><CAP><MIN><U1E5A>% LATIN CAPITAL LETTER R WITH DOT BELOW
 <U1E5D><S835><BASE><POINS><MACRO><MIN><U1E5D>% LATIN SMALL LETTER R WITH DOT BELOW AND MACRON
 <U1E5C><S835><BASE><POINS><MACRO><CAP><MIN><U1E5C>% LATIN CAPITAL LETTER R WITH DOT BELOW AND MACRON
 <U1E5F><S835><BASE><MACRS><MIN><U1E5F>% LATIN SMALL LETTER R WITH LINE BELOW
 <U1E5E><S835><BASE><MACRS><CAP><MIN><U1E5E>% LATIN CAPITAL LETTER R WITH LINE BELOW
 <U33AD><S835><S6CF><S703><BASE><BASE><BASE><SQUARED><SQUARED><SQUARED><U33AD>% SQUARE RAD
 <U33AE><S835><S6CF><S703><S85D><BASE><BASE><BASE><BASE><SQUARED><SQUARED><SQUARED><U33AE>% SQUARE RAD OVER S
 <U33AF>
 <S835><S6CF><S703><S85D><S6C7><BASE><BASE><BASE><BASE><BASE><SQUARED><SQUARED><SQUARED><SQUARED><SQUARED><U33AF>%
 SQUARE RAD OVER S SQUARED
 <U20A8><S835><S85D><BASE><BASE><COMPATCAP><COMPAT><U20A8>% RUPEE SIGN
 <U0280><S839><BASE><MIN><U0280>% LATIN LETTER SMALL CAPITAL R
 <U01A6><S839><BASE><CAP><U01A6>% LATIN LETTER YR
 <U0279><S83D><BASE><MIN><U0279>% LATIN SMALL LETTER TURNED R
 <U02B4><S83D><BASE><MNN><U02B4>% MODIFIER LETTER SMALL TURNED R
 <U027A><S841><BASE><MIN><U027A>% LATIN SMALL LETTER TURNED R WITH LONG LEG
 <U027B><S845><BASE><MIN><U027B>% LATIN SMALL LETTER TURNED R WITH HOOK
 <U02B5><S845><BASE><MNN><U02B5>% MODIFIER LETTER SMALL TURNED R WITH HOOK
 <U027C><S849><BASE><MIN><U027C>% LATIN SMALL LETTER R WITH LONG LEG
 <U027D><S84D><BASE><MIN><U027D>% LATIN SMALL LETTER R WITH TAIL
 <U027E><S851><BASE><MIN><U027E>% LATIN SMALL LETTER R WITH FISHHOOK
 <U027F><S855><BASE><MIN><U027F>% LATIN SMALL LETTER REVERSED R WITH FISHHOOK
 <U0281><S859><BASE><MIN><U0281>% LATIN LETTER SMALL CAPITAL INVERTED R
 <U02B6><S859><BASE><MNN><U02B6>% MODIFIER LETTER SMALL CAPITAL INVERTED R
 <U0073><S85D><BASE><MIN><U0073>% LATIN SMALL LETTER S
 <UFF53><S85D><BASE><WIDE><UFF53>% FULLWIDTH LATIN SMALL LETTER S
 <U24AE><S85D><BASE><COMPAT><U24AE>% PARENTHESIZED LATIN SMALL LETTER S
 <U24E2><S85D><BASE><CIRCLE><U24E2>% CIRCLED LATIN SMALL LETTER S
 <U0053><S85D><BASE><CAP><U0053>% LATIN CAPITAL LETTER S
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 <U24C8><S85D><BASE><CIRCLECAP><U24C8>% CIRCLED LATIN CAPITAL LETTER S
 <U02E2><S85D><BASE><MNN><U02E2>% MODIFIER LETTER SMALL S
 <U015B><S85D><BASE><AIGUT><MIN><U015B>% LATIN SMALL LETTER S WITH ACUTE
 <U015A><S85D><BASE><AIGUT><CAP><MIN><U015A>% LATIN CAPITAL LETTER S WITH ACUTE
 <U1E65><S85D><BASE><AIGUT><POINT><MIN><MIN><U1E65>% LATIN SMALL LETTER S WITH ACUTE AND DOT ABOVE
 <U1E64><S85D><BASE><AIGUT><POINT><CAP><MIN><MIN><U1E64>% LATIN CAPITAL LETTER S WITH ACUTE AND DOT ABOVE
 <U015D><S85D><BASE><CIRCF><MIN><U015D>% LATIN SMALL LETTER S WITH CIRCUMFLEX
 <U015C><S85D><BASE><CIRCF><CAP><MIN><U015C>% LATIN CAPITAL LETTER S WITH CIRCUMFLEX
 <U0161><S85D><BASE><CARON><MIN><U0161>% LATIN SMALL LETTER S WITH CARON
 <U0160><S85D><BASE><CARON><CAP><MIN><U0160>% LATIN CAPITAL LETTER S WITH CARON
 <U1E67><S85D><BASE><CARON><POINT><MIN><MIN><U1E67>% LATIN SMALL LETTER S WITH CARON AND DOT ABOVE
 <U1E66><S85D><BASE><CARON><POINT><CAP><MIN><MIN><U1E66>% LATIN CAPITAL LETTER S WITH CARON AND DOT ABOVE
 <U1E61><S85D><BASE><POINT><MIN><MIN><U1E61>% LATIN SMALL LETTER S WITH DOT ABOVE
 <U1E60><S85D><BASE><POINT><CAP><MIN><U1E60>% LATIN CAPITAL LETTER S WITH DOT ABOVE
 <U015F><S85D><BASE><CEDIL><MIN><U015F>% LATIN SMALL LETTER S WITH CEDILLA
 <U015E><S85D><BASE><CEDIL><CAP><MIN><U015E>% LATIN CAPITAL LETTER S WITH CEDILLA
 <U1E63><S85D><BASE><POINS><MIN><MIN><U1E63>% LATIN SMALL LETTER S WITH DOT BELOW
 <U1E62><S85D><BASE><POINS><CAP><MIN><U1E62>% LATIN CAPITAL LETTER S WITH DOT BELOW
 <U1E69><S85D><BASE><POINS><POINT><MIN><MIN><U1E69>% LATIN SMALL LETTER S WITH DOT BELOW AND DOT ABOVE
 <U1E68><S85D><BASE><POINS><POINT><CAP><MIN><MIN><U1E68>% LATIN CAPITAL LETTER S WITH DOT BELOW AND DOT ABOVE
 <U017F><S85D><BASE><VRNT2><COMPAT><MIN><U017F>% LATIN SMALL LETTER LONG S
 <U1E9B><S85D><BASE><VRNT2><POINT><COMPAT><MIN><MIN><U1E9B>% LATIN SMALL LETTER LONG S WITH DOT ABOVE
 <U2120><S85D><S7E5><BASE><BASE><MNN><MNN><U2120>% SERVICE MARK
 <U33DB><S85D><S835><BASE><BASE><SQUARED><SQUARED><U33DB>% SQUARE SR
 <U00DF><S85D><S85D><BASE><VRNT1><BASE><COMPAT><MIN><COMPAT><U00DF>% LATIN SMALL LETTER SHARP S
 <UFB06><S85D><S875><BASE><BASE><COMPAT><COMPAT><UFB06>% LATIN SMALL LIGATURE ST
 <UFB05><S85D><S875><BASE><VRNT2><BASE><COMPAT><MIN><COMPAT><UFB05>% LATIN SMALL LIGATURE LONG S T
 <U33DC><S85D><S8A5><BASE><BASE><SQUARED><SQUARED><U33DC>% SQUARE SV
 <U0282><S861><BASE><MIN><U0282>% LATIN SMALL LETTER S WITH HOOK
 <U0283><S865><BASE><MIN><U0283>% LATIN SMALL LETTER ESH
 <U01A9><S865><BASE><CAP><U01A9>% LATIN CAPITAL LETTER ESH
 <U01AA><S869><BASE><MIN><U01AA>% LATIN LETTER REVERSED ESH LOOP
 <U0285><S86D><BASE><MIN><U0285>% LATIN SMALL LETTER SQUAT REVERSED ESH
 <U0286><S871><BASE><MIN><U0286>% LATIN SMALL LETTER ESH WITH CURL
 <U0074><S875><BASE><MIN><U0074>% LATIN SMALL LETTER T
 <UFF54><S875><BASE><WIDE><UFF54>% FULLWIDTH LATIN SMALL LETTER T
 <U24AF><S875><BASE><COMPAT><U24AF>% PARENTHESIZED LATIN SMALL LETTER T

<U24E3><S875><BASE><CIRCLE><U24E3> % CIRCLED LATIN SMALL LETTER T
 <U0054><S875><BASE><CAP><U0054> % LATIN CAPITAL LETTER T
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 <U24C9><S875><BASE><CIRCLECAP><U24C9> % CIRCLED LATIN CAPITAL LETTER T
 <U0165><S875><BASE><CARON><MIN><MIN><U0165> % LATIN SMALL LETTER T WITH CARON
 <U0164><S875><BASE><CARON><CAP><MIN><U0164> % LATIN CAPITAL LETTER T WITH CARON
 <U1E97><S875><BASE><TREMA><MIN><MIN><U1E97> % LATIN SMALL LETTER T WITH DIAERESIS
 <U1E6B><S875><BASE><POINT><MIN><MIN><U1E6B> % LATIN SMALL LETTER T WITH DOT ABOVE
 <U1E6A><S875><BASE><POINT><CAP><MIN><U1E6A> % LATIN CAPITAL LETTER T WITH DOT ABOVE
 <U0163><S875><BASE><CEDIL><MIN><MIN><U0163> % LATIN SMALL LETTER T WITH CEDILLA
 <U0162><S875><BASE><CEDIL><CAP><MIN><U0162> % LATIN CAPITAL LETTER T WITH CEDILLA
 <U1E6D><S875><BASE><POINS><MIN><MIN><U1E6D> % LATIN SMALL LETTER T WITH DOT BELOW
 <U1E6C><S875><BASE><POINS><CAP><MIN><U1E6C> % LATIN CAPITAL LETTER T WITH DOT BELOW
 <U1E71><S875><BASE><CIRCS><MIN><MIN><U1E71> % LATIN SMALL LETTER T WITH CIRCUMFLEX BELOW
 <U1E70><S875><BASE><CIRCS><CAP><MIN><U1E70> % LATIN CAPITAL LETTER T WITH CIRCUMFLEX BELOW
 <U1E6F><S875><BASE><MACRS><MIN><MIN><U1E6F> % LATIN SMALL LETTER T WITH LINE BELOW
 <U1E6E><S875><BASE><MACRS><CAP><MIN><U1E6E> % LATIN CAPITAL LETTER T WITH LINE BELOW
 <U02A8><S875><S6FF><BASE><BASE><COMPAT><COMPAT><U02A8> % LATIN SMALL LETTER TC DIGRAPH WITH CURL
 <U2121><S875><S71F><S7BD><BASE><BASE><BASE><COMPATCAP><COMPATCAP><COMPATCAP><U2121> % TELEPHONE SIGN
 <U3394><S875><S773><S8C><BASE><BASE><BASE><SQUARED CAP><SQUARED CAP><SQUARED><U3394> % SQUARE THZ
 <U2122><S875><S7E5><BASE><BASE><MNN><MNN><U2122> % TRADE MARK SIGN
 <U02A6><S875><S85D><BASE><BASE><COMPAT><COMPAT><U02A6> % LATIN SMALL LETTER TS DIGRAPH
 <U02A7><S875><S865><BASE><BASE><COMPAT><COMPAT><U02A7> % LATIN SMALL LETTER TESH DIGRAPH
 <U0167><S879><BASE><MIN><U0167> % LATIN SMALL LETTER T WITH STROKE
 <U0166><S879><BASE><CAP><U0166> % LATIN CAPITAL LETTER T WITH STROKE
 <U01AB><S87D><BASE><MIN><U01AB> % LATIN SMALL LETTER T WITH PALATAL HOOK
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 <U01AC><S881><BASE><CAP><U01AC> % LATIN CAPITAL LETTER T WITH HOOK
 <U0288><S885><BASE><MIN><U0288> % LATIN SMALL LETTER T WITH RETROFLEX HOOK
 <U01AE><S885><BASE><CAP><U01AE> % LATIN CAPITAL LETTER T WITH RETROFLEX HOOK
 <U0287><S889><BASE><MIN><U0287> % LATIN SMALL LETTER TURNED T
 <U0075><S88D><BASE><MIN><U0075> % LATIN SMALL LETTER U
 <UFF55><S88D><BASE><WIDE><UFF55> % FULLWIDTH LATIN SMALL LETTER U
 <U24B0><S88D><BASE><COMPAT><U24B0> % PARENTHESIZED LATIN SMALL LETTER U
 <U24E4><S88D><BASE><CIRCLE><U24E4> % CIRCLED LATIN SMALL LETTER U
 <U0055><S88D><BASE><CAP><U0055> % LATIN CAPITAL LETTER U
 <UFF35><S88D><BASE><WIDECAP><UFF35> % FULLWIDTH LATIN CAPITAL LETTER U
 <U24CA><S88D><BASE><CIRCLECAP><U24CA> % CIRCLED LATIN CAPITAL LETTER U
 <U00FA><S88D><BASE><AIGUT><MIN><MIN><U00FA> % LATIN SMALL LETTER U WITH ACUTE
 <U00DA><S88D><BASE><AIGUT><CAP><MIN><U00DA> % LATIN CAPITAL LETTER U WITH ACUTE
 <U00F9><S88D><BASE><GRAVE><MIN><MIN><U00F9> % LATIN SMALL LETTER U WITH GRAVE
 <U00D9><S88D><BASE><GRAVE><CAP><MIN><U00D9> % LATIN CAPITAL LETTER U WITH GRAVE
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 <U01D3><S88D><BASE><CARON><CAP><MIN><U01D3> % LATIN CAPITAL LETTER U WITH CARON
 <U016F><S88D><BASE><CRCL><MIN><MIN><U016F> % LATIN SMALL LETTER U WITH RING ABOVE
 <U016E><S88D><BASE><CRCL><CAP><MIN><U016E> % LATIN CAPITAL LETTER U WITH RING ABOVE
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 <U00DC><S88D><BASE><TREMA><CAP><MIN><U00DC> % LATIN CAPITAL LETTER U WITH DIAERESIS
 <U01D6><S88D><BASE><TREMA><MACRO><MIN><MIN><U01D6> % LATIN SMALL LETTER U WITH DIAERESIS AND MACRON
 <U01D5><S88D><BASE><TREMA><MACRO><CAP><MIN><MIN><U01D5> % LATIN CAPITAL LETTER U WITH DIAERESIS AND MACRON
 <U01D8><S88D><BASE><TREMA><AIGUT><MIN><MIN><MIN><U01D8> % LATIN SMALL LETTER U WITH DIAERESIS AND ACUTE
 <U01D7><S88D><BASE><TREMA><AIGUT><CAP><MIN><MIN><U01D7> % LATIN CAPITAL LETTER U WITH DIAERESIS AND ACUTE
 <U01DC><S88D><BASE><TREMA><GRAVE><MIN><MIN><U01DC> % LATIN SMALL LETTER U WITH DIAERESIS AND GRAVE
 <U01DB><S88D><BASE><TREMA><GRAVE><CAP><MIN><MIN><U01DB> % LATIN CAPITAL LETTER U WITH DIAERESIS AND GRAVE
 <U01DA><S88D><BASE><TREMA><CARON><MIN><MIN><U01DA> % LATIN SMALL LETTER U WITH DIAERESIS AND CARON
 <U01D9><S88D><BASE><TREMA><CARON><CAP><MIN><MIN><U01D9> % LATIN CAPITAL LETTER U WITH DIAERESIS AND CARON
 <U0171><S88D><BASE><2AIGU><MIN><MIN><U0171> % LATIN SMALL LETTER U WITH DOUBLE ACUTE
 <U0170><S88D><BASE><2AIGU><CAP><MIN><MIN><U0170> % LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
 <U0169><S88D><BASE><TILDE><MIN><MIN><U0169> % LATIN SMALL LETTER U WITH TILDE
 <U0168><S88D><BASE><TILDE><CAP><MIN><U0168> % LATIN CAPITAL LETTER U WITH TILDE
 <U1E79><S88D><BASE><TILDE><AIGUT><MIN><MIN><MIN><U1E79> % LATIN SMALL LETTER U WITH TILDE AND ACUTE
 <U1E78><S88D><BASE><TILDE><AIGUT><CAP><MIN><MIN><U1E78> % LATIN CAPITAL LETTER U WITH TILDE AND ACUTE
 <U0173><S88D><BASE><OGONK><MIN><MIN><U0173> % LATIN SMALL LETTER U WITH OGONEK
 <U0172><S88D><BASE><OGONK><CAP><MIN><MIN><U0172> % LATIN CAPITAL LETTER U WITH OGONEK
 <U016B><S88D><BASE><MACRO><MIN><MIN><U016B> % LATIN SMALL LETTER U WITH MACRON
 <U016A><S88D><BASE><MACRO><CAP><MIN><MIN><U016A> % LATIN CAPITAL LETTER U WITH MACRON
 <U1E7B><S88D><BASE><MACRO><TREMA><MIN><MIN><MIN><U1E7B> % LATIN SMALL LETTER U WITH MACRON AND DIAERESIS
 <U1E7A><S88D><BASE><MACRO><TREMA><CAP><MIN><MIN><U1E7A> % LATIN CAPITAL LETTER U WITH MACRON AND DIAERESIS
 <U1EE7><S88D><BASE><GROOK><MIN><MIN><U1EE7> % LATIN SMALL LETTER U WITH HOOK ABOVE
 <U1EE6><S88D><BASE><GROOK><CAP><MIN><MIN><U1EE6> % LATIN CAPITAL LETTER U WITH HOOK ABOVE
 <U0215><S88D><BASE><2GRAV><MIN><MIN><U0215> % LATIN SMALL LETTER U WITH DOUBLE GRAVE
 <U0214><S88D><BASE><2GRAV><CAP><MIN><MIN><U0214> % LATIN CAPITAL LETTER U WITH DOUBLE GRAVE
 <U0217><S88D><BASE><BREV><MIN><MIN><U0217> % LATIN SMALL LETTER U WITH INVERTED BREVE
 <U0216><S88D><BASE><BREV><CAP><MIN><MIN><U0216> % LATIN CAPITAL LETTER U WITH INVERTED BREVE
 <U01B0><S88D><BASE><HORNU><MIN><MIN><U01B0> % LATIN SMALL LETTER U WITH HORN
 <U01AF><S88D><BASE><HORNU><CAP><MIN><MIN><U01AF> % LATIN CAPITAL LETTER U WITH HORN
 <U1EE9><S88D><BASE><HORNU><AIGUT><MIN><MIN><MIN><U1EE9> % LATIN SMALL LETTER U WITH HORN AND ACUTE
 <U1EE8><S88D><BASE><HORNU><AIGUT><CAP><MIN><MIN><U1EE8> % LATIN CAPITAL LETTER U WITH HORN AND ACUTE
 <U1EEB><S88D><BASE><HORNU><GRAVE><MIN><MIN><MIN><U1EEB> % LATIN SMALL LETTER U WITH HORN AND GRAVE
 <U1EEA><S88D><BASE><HORNU><GRAVE><CAP><MIN><MIN><U1EEA> % LATIN CAPITAL LETTER U WITH HORN AND GRAVE
 <U1EEF><S88D><BASE><HORNU><TILDE><MIN><MIN><MIN><U1EEF> % LATIN SMALL LETTER U WITH HORN AND TILDE
 <U1EEE><S88D><BASE><HORNU><TILDE><CAP><MIN><MIN><U1EEE> % LATIN CAPITAL LETTER U WITH HORN AND TILDE
 <U1EED><S88D><BASE><HORNU><CROOK><MIN><MIN><MIN><U1EED> % LATIN SMALL LETTER U WITH HORN AND HOOK ABOVE

<U1EEC><S88D>:"<BASE><HORN><CROOK>:"<CAP><MIN><MIN>:"<U1EEC> % LATIN CAPITAL LETTER U WITH HORN AND HOOK ABOVE
 <U1EE5><S88D>:"<BASE><POINS>:"<MIN><MIN>:"<U1EE5> % LATIN SMALL LETTER U WITH DOT BELOW
 <U1EE4><S88D>:"<BASE><POINS>:"<CAP><MIN>:"<U1EE4> % LATIN CAPITAL LETTER U WITH DOT BELOW
 <U1EF1><S88D>:"<BASE><POINS><HORN>:"<MIN><MIN><MIN>:"<U1EF1> % LATIN SMALL LETTER U WITH HORN AND DOT BELOW
 <U1EF0><S88D>:"<BASE><POINS><HORN>:"<CAP><MIN><MIN>:"<U1EF0> % LATIN CAPITAL LETTER U WITH HORN AND DOT BELOW
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 <U1E77><S88D>:"<BASE><CIRCS>:"<MIN><MIN>:"<U1E77> % LATIN SMALL LETTER U WITH CIRCUMFLEX BELOW
 <U1E76><S88D>:"<BASE><CIRCS>:"<CAP><MIN>:"<U1E76> % LATIN CAPITAL LETTER U WITH CIRCUMFLEX BELOW
 <U1E75><S88D>:"<BASE><TILDS>:"<MIN><MIN>:"<U1E75> % LATIN SMALL LETTER U WITH TILDE BELOW
 <U1E74><S88D>:"<BASE><TILDS>:"<CAP><MIN>:"<U1E74> % LATIN CAPITAL LETTER U WITH TILDE BELOW
 <U0289><S891>:"<BASE>:"<MIN>:"<U0289> % LATIN SMALL LETTER U BAR
 <U0265><S895>:"<BASE>:"<MIN>:"<U0265> % LATIN SMALL LETTER TURNED H
 <U026F><S899>:"<BASE>:"<MIN>:"<U026F> % LATIN SMALL LETTER TURNED M
 <U019C><S899>:"<BASE>:"<CAP>:"<U019C> % LATIN CAPITAL LETTER TURNED M
 <U0270><S89D>:"<BASE>:"<MIN>:"<U0270> % LATIN SMALL LETTER TURNED M WITH LONG LEG
 <U028A><S8A1>:"<BASE>:"<MIN>:"<U028A> % LATIN SMALL LETTER UPSILON
 <U01B1><S8A1>:"<BASE>:"<CAP>:"<U01B1> % LATIN CAPITAL LETTER UPSILON
 <U0076><S8A5>:"<BASE>:"<MIN>:"<U0076> % LATIN SMALL LETTER V
 <UFF56><S8A5>:"<BASE>:"<WIDE>:"<UFF56> % FULLWIDTH LATIN SMALL LETTER V
 <U2174><S8A5>:"<BASE>:"<COMPAT>:"<U2174> % SMALL ROMAN NUMERAL FIVE
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 <U24E5><S8A5>:"<BASE>:"<CIRCLE>:"<U24E5> % CIRCLED LATIN SMALL LETTER V
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 <U1E7D><S8A5>:"<BASE>:"<TILDE>:"<MIN><MIN>:"<U1E7D> % LATIN SMALL LETTER V WITH TILDE
 <U1E7C><S8A5>:"<BASE>:"<TILDE>:"<CAP><MIN>:"<U1E7C> % LATIN CAPITAL LETTER V WITH TILDE
 <U1E7F><S8A5>:"<BASE><POINS>:"<MIN><MIN>:"<U1E7F> % LATIN SMALL LETTER V WITH DOT BELOW
 <U1E7E><S8A5>:"<BASE><POINS>:"<CAP><MIN>:"<U1E7E> % LATIN CAPITAL LETTER V WITH DOT BELOW
 <U2175><S8A5><S78D>:"<BASE><BASE>:"<COMPAT><COMPAT>:"<U2175> % SMALL ROMAN NUMERAL SIX
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 <U01B2><S8A9>:"<BASE>:"<CAP>:"<U01B2> % LATIN CAPITAL LETTER V WITH HOOK
 <U028C><S8AD>:"<BASE>:"<MIN>:"<U028C> % LATIN SMALL LETTER TURNED V
 <U0077><S8B1>:"<BASE>:"<MIN>:"<U0077> % LATIN SMALL LETTER W
 <UFF57><S8B1>:"<BASE>:"<WIDE>:"<UFF57> % FULLWIDTH LATIN SMALL LETTER W
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 <U0057><S8B1>:"<BASE>:"<CAP>:"<U0057> % LATIN CAPITAL LETTER W
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 <U02B7><S8B1>:"<BASE>:"<MNN>:"<U02B7> % MODIFIER LETTER SMALL W
 <U1E83><S8B1>:"<BASE><AIGUT>:"<MIN><MIN>:"<U1E83> % LATIN SMALL LETTER W WITH ACUTE
 <U1E82><S8B1>:"<BASE><AIGUT>:"<CAP><MIN>:"<U1E82> % LATIN CAPITAL LETTER W WITH ACUTE
 <U1E81><S8B1>:"<BASE><GRAVE>:"<MIN><MIN>:"<U1E81> % LATIN SMALL LETTER W WITH GRAVE
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 <U1E98><S8B1>:"<BASE><CRCL>:"<MIN><MIN>:"<U1E98> % LATIN SMALL LETTER W WITH RING ABOVE
 <U1E85><S8B1>:"<BASE><TREMA>:"<MIN><MIN>:"<U1E85> % LATIN SMALL LETTER W WITH DIAERESIS
 <U1E84><S8B1>:"<BASE><TREMA>:"<CAP><MIN>:"<U1E84> % LATIN CAPITAL LETTER W WITH DIAERESIS
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 <U028D><S8B5>:"<BASE>:"<MIN>:"<U028D> % LATIN SMALL LETTER TURNED W
 <U0078><S8B9>:"<BASE>:"<MIN>:"<U0078> % LATIN SMALL LETTER X
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 <U2179><S8B9>:"<BASE>:"<COMPAT>:"<U2179> % SMALL ROMAN NUMERAL TEN
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 <U24E7><S8B9>:"<BASE>:"<CIRCLE>:"<U24E7> % CIRCLED LATIN SMALL LETTER X
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 <U2169><S8B9>:"<BASE>:"<COMPATCAP>:"<U2169> % ROMAN NUMERAL TEN
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 <U02E3><S8B9>:"<BASE>:"<MNN>:"<U02E3> % MODIFIER LETTER SMALL X
 <U1E8D><S8B9>:"<BASE><TREMA>:"<MIN><MIN>:"<U1E8D> % LATIN SMALL LETTER X WITH DIAERESIS
 <U1E8C><S8B9>:"<BASE><TREMA>:"<CAP><MIN>:"<U1E8C> % LATIN CAPITAL LETTER X WITH DIAERESIS
 <U1E8B><S8B9>:"<BASE><POINT>:"<MIN><MIN>:"<U1E8B> % LATIN SMALL LETTER X WITH DOT ABOVE
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 <U24CE><S8BD>;<BASE>;<CIRCLECAP>;<U24CE> % CIRCLED LATIN CAPITAL LETTER Y
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 <U00FD><S8BD>;<BASE>;<AIGUT>;<MIN>;<MIN>;<U00FD> % LATIN SMALL LETTER Y WITH ACUTE
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 <U1EF3><S8BD>;<BASE>;<GRAVE>;<MIN>;<MIN>;<U1EF3> % LATIN SMALL LETTER Y WITH GRAVE
 <U1EF2><S8BD>;<BASE>;<GRAVE>;<CAP>;<MIN>;<U1EF2> % LATIN CAPITAL LETTER Y WITH GRAVE
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 <U0178><S8BD>;<BASE>;<TREMA>;<CAP>;<MIN>;<U0178> % LATIN CAPITAL LETTER Y WITH DIAERESIS
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 <U1EF5><S8BD>;<BASE>;<POINS>;<MIN>;<MIN>;<U1EF5> % LATIN SMALL LETTER Y WITH DOT BELOW
 <U1EF4><S8BD>;<BASE>;<POINS>;<CAP>;<MIN>;<U1EF4> % LATIN CAPITAL LETTER Y WITH DOT BELOW
 <U028F><S8C1>;<BASE>;<MIN>;<U028F> % LATIN LETTER SMALL CAPITAL Y
 <U01B4><S8C5>;<BASE>;<MIN>;<U01B4> % LATIN SMALL LETTER Y WITH HOOK
 <U01B3><S8C5>;<BASE>;<CAP>;<U01B3> % LATIN CAPITAL LETTER Y WITH HOOK
 <U007A><S8C9>;<BASE>;<MIN>;<U007A> % LATIN SMALL LETTER Z
 <UFF5A><S8C9>;<BASE>;<WIDECAP>;<UFF5A> % FULLWIDTH LATIN SMALL LETTER Z
 <U24B5><S8C9>;<BASE>;<COMPAT>;<U24B5> % PARENTHESIZED LATIN SMALL LETTER Z
 <U24E9><S8C9>;<BASE>;<CIRCLE>;<U24E9> % CIRCLED LATIN SMALL LETTER Z
 <U005A><S8C9>;<BASE>;<CAP>;<U005A> % LATIN CAPITAL LETTER Z
 <UFF3A><S8C9>;<BASE>;<WIDECAP>;<UFF3A> % FULLWIDTH LATIN CAPITAL LETTER Z
 <U2124><S8C9>;<BASE>;<FONTCAP>;<U2124> % DOUBLE STRUCK CAPITAL Z
 <U2128><S8C9>;<BASE>;<FONTCAP>;<U2128> % BLACK LETTER CAPITAL Z
 <U24CF><S8C9>;<BASE>;<CIRCLECAP>;<U24CF> % CIRCLED LATIN CAPITAL LETTER Z
 <U017A><S8C9>;<BASE>;<AIGUT>;<MIN>;<MIN>;<U017A> % LATIN SMALL LETTER Z WITH ACUTE
 <U0179><S8C9>;<BASE>;<AIGUT>;<CAP>;<MIN>;<U0179> % LATIN CAPITAL LETTER Z WITH ACUTE
 <U1E91><S8C9>;<BASE>;<CIRCF>;<MIN>;<MIN>;<U1E91> % LATIN SMALL LETTER Z WITH CIRCUMFLEX
 <U1E90><S8C9>;<BASE>;<CIRCF>;<CAP>;<MIN>;<U1E90> % LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
 <U017E><S8C9>;<BASE>;<CARON>;<MIN>;<MIN>;<U017E> % LATIN SMALL LETTER Z WITH CARON
 <U017D><S8C9>;<BASE>;<CARON>;<CAP>;<MIN>;<U017D> % LATIN CAPITAL LETTER Z WITH CARON
 <U017C><S8C9>;<BASE>;<POINT>;<MIN>;<MIN>;<U017C> % LATIN SMALL LETTER Z WITH DOT ABOVE
 <U017B><S8C9>;<BASE>;<POINT>;<CAP>;<MIN>;<U017B> % LATIN CAPITAL LETTER Z WITH DOT ABOVE
 <U1E93><S8C9>;<BASE>;<POINS>;<MIN>;<MIN>;<U1E93> % LATIN SMALL LETTER Z WITH DOT BELOW
 <U1E92><S8C9>;<BASE>;<POINS>;<CAP>;<MIN>;<U1E92> % LATIN CAPITAL LETTER Z WITH DOT BELOW
 <U1E95><S8C9>;<BASE>;<MACRS>;<MIN>;<MIN>;<U1E95> % LATIN SMALL LETTER Z WITH LINE BELOW
 <U1E94><S8C9>;<BASE>;<MACRS>;<CAP>;<MIN>;<U1E94> % LATIN CAPITAL LETTER Z WITH LINE BELOW
 <U01B6><S8CD>;<BASE>;<MIN>;<U01B6> % LATIN SMALL LETTER Z WITH STROKE
 <U01B5><S8CD>;<BASE>;<CAP>;<U01B5> % LATIN CAPITAL LETTER Z WITH STROKE
 <U0290><S8D1>;<BASE>;<MIN>;<U0290> % LATIN SMALL LETTER Z WITH RETROFLEX HOOK
 <U0291><S8D5>;<BASE>;<MIN>;<U0291> % LATIN SMALL LETTER Z WITH CURL
 <U0292><S8D9>;<BASE>;<MIN>;<U0292> % LATIN SMALL LETTER EZH
 <U01B7><S8D9>;<BASE>;<CAP>;<U01B7> % LATIN CAPITAL LETTER EZH
 <U01EF><S8D9>;<BASE>;<CARON>;<MIN>;<MIN>;<U01EF> % LATIN SMALL LETTER EZH WITH CARON
 <U01EE><S8D9>;<BASE>;<CARON>;<CAP>;<MIN>;<U01EE> % LATIN CAPITAL LETTER EZH WITH CARON
 <U01B9><S8DD>;<BASE>;<MIN>;<U01B9> % LATIN SMALL LETTER EZH REVERSED
 <U01B8><S8DD>;<BASE>;<CAP>;<U01B8> % LATIN CAPITAL LETTER EZH REVERSED
 <U01BA><S8E1>;<BASE>;<MIN>;<U01BA> % LATIN SMALL LETTER EZH WITH TAIL
 <U0293><S8E5>;<BASE>;<MIN>;<U0293> % LATIN SMALL LETTER EZH WITH CURL
 <U00FE><S8E9>;<BASE>;<MIN>;<U00FE> % LATIN SMALL LETTER THORN
 <U00DE><S8E9>;<BASE>;<CAP>;<U00DE> % LATIN CAPITAL LETTER THORN
 <U01BF><S8ED>;<BASE>;<MIN>;<U01BF> % LATIN LETTER WYNN
 <U01BB><S8F1>;<BASE>;<MIN>;<U01BB> % LATIN LETTER TWO WITH STROKE
 <U01A8><S8F5>;<BASE>;<MIN>;<U01A8> % LATIN SMALL LETTER TONE TWO
 <U01A7><S8F5>;<BASE>;<CAP>;<U01A7> % LATIN CAPITAL LETTER TONE TWO
 <U01BD><S8F9>;<BASE>;<MIN>;<U01BD> % LATIN SMALL LETTER TONE FIVE
 <U01BC><S8F9>;<BASE>;<CAP>;<U01BC> % LATIN CAPITAL LETTER TONE FIVE
 <U0185><S8FD>;<BASE>;<MIN>;<U0185> % LATIN SMALL LETTER TONE SIX
 <U0184><S8FD>;<BASE>;<CAP>;<U0184> % LATIN CAPITAL LETTER TONE SIX
 <U0294><S901>;<BASE>;<MIN>;<U0294> % LATIN LETTER GLOTTAL STOP
 <U02C0><S905>;<BASE>;<MIN>;<U02C0> % MODIFIER LETTER GLOTTAL STOP
 <U02BC><S906>;<BASE>;<MIN>;<U02BC> % MODIFIER LETTER APOSTROPHE
 <U0149><S906>;<BASE>;<COMPAT>;<COMPAT>;<U0149> % LATIN SMALL LETTER N PRECEDED BY APOSTROPHE
 <U02BE><S907>;<BASE>;<MIN>;<U02BE> % MODIFIER LETTER RIGHT HALF RING
 <U0295><S908>;<BASE>;<MIN>;<U0295> % LATIN LETTER PHARYNGEAL VOICED FRICATIVE
 <U02E4><S908>;<BASE>;<MNN>;<U02E4> % MODIFIER LETTER SMALL REVERSED GLOTTAL STOP
 <U02BF><S90C>;<BASE>;<MIN>;<U02BF> % MODIFIER LETTER LEFT HALF RING
 <U02C1><S90D>;<BASE>;<MIN>;<U02C1> % MODIFIER LETTER REVERSED GLOTTAL STOP
 <U01BE><S90E>;<BASE>;<MIN>;<U01BE> % LATIN LETTER INVERTED GLOTTAL STOP WITH STROKE
 <U02A1><S912>;<BASE>;<MIN>;<U02A1> % LATIN LETTER GLOTTAL STOP WITH STROKE
 <U02A2><S916>;<BASE>;<MIN>;<U02A2> % LATIN LETTER REVERSED GLOTTAL STOP WITH STROKE
 <U0296><S91A>;<BASE>;<MIN>;<U0296> % LATIN LETTER INVERTED GLOTTAL STOP
 <U01C0><S91E>;<BASE>;<MIN>;<U01C0> % LATIN LETTER DENTAL CLICK
 <U01C1><S922>;<BASE>;<MIN>;<U01C1> % LATIN LETTER LATERAL CLICK
 <U01C2><S926>;<BASE>;<MIN>;<U01C2> % LATIN LETTER ALVEOLAR CLICK
 <U01C3><S92A>;<BASE>;<MIN>;<U01C3> % LATIN LETTER RETROFLEX CLICK
 <U0297><S92E>;<BASE>;<MIN>;<U0297> % LATIN LETTER STRETCHED C
 <U0298><S932>;<BASE>;<MIN>;<U0298> % LATIN LETTER BILABIAL CLICK
 <U03B1><S936>;<BASE>;<MIN>;<U03B1> % GREEK SMALL LETTER ALPHA

<U038A><S940>:"<BASE><AIGUT>:"<CAP><MIN>:"<U038A> % GREEK CAPITAL LETTER IOTA WITH TONOS
 <U1FD8><S940>:"<BASE><AIGUT>:"<CAP><MIN>:"<U1FD8> % GREEK CAPITAL LETTER IOTA WITH OXIA
 <U1F76><S940>:"<BASE><GRAVE>:"<MIN><MIN>:"<U1F76> % GREEK SMALL LETTER IOTA WITH VARIA
 <U1FDA><S940>:"<BASE><GRAVE>:"<CAP><MIN>:"<U1FDA> % GREEK CAPITAL LETTER IOTA WITH VARIA
 <U1FD0><S940>:"<BASE><BREVE>:"<MIN><MIN>:"<U1FD0> % GREEK SMALL LETTER IOTA WITH VRACHY
 <U1FD8><S940>:"<BASE><BREVE>:"<CAP><MIN>:"<U1FD8> % GREEK CAPITAL LETTER IOTA WITH VRACHY
 <U1FD6><S940>:"<BASE><PERIS>:"<MIN><MIN>:"<U1FD6> % GREEK SMALL LETTER IOTA WITH PERISPOMENI
 <U03CA><S940>:"<BASE><TREMA>:"<MIN><MIN>:"<U03CA> % GREEK SMALL LETTER IOTA WITH DIALYTIKA
 <U03AA><S940>:"<BASE><TREMA>:"<CAP><MIN>:"<U03AA> % GREEK CAPITAL LETTER IOTA WITH DIALYTIKA
 <U0390><S940>:"<BASE><TREMA><AIGUT>:"<MIN><MIN><MIN>:"<U0390> % GREEK SMALL LETTER IOTA WITH DIALYTIKA AND TONOS
 <U1FD3><S940>:"<BASE><TREMA><AIGUT>:"<MIN><MIN><MIN>:"<U1FD3> % GREEK SMALL LETTER IOTA WITH DIALYTIKA AND OXIA
 <U1FD2><S940>:"<BASE><TREMA><GRAVE>:"<MIN><MIN><MIN>:"<U1FD2> % GREEK SMALL LETTER IOTA WITH DIALYTIKA AND VARIA
 <U1FD7><S940>:"<BASE><TREMA><PERIS>:"<MIN><MIN><MIN>:"<U1FD7> % GREEK SMALL LETTER IOTA WITH DIALYTIKA AND PERISPOMENI
 <U1FD1><S940>:"<BASE><MACRO>:"<MIN><MIN>:"<U1FD1> % GREEK SMALL LETTER IOTA WITH MACRON
 <U1FD9><S940>:"<BASE><MACRO>:"<CAP><MIN>:"<U1FD9> % GREEK CAPITAL LETTER IOTA WITH MACRON
 <U03F3><S941>:"<BASE><MIN>:"<U03F3> % GREEK LETTER YOT
 <U03BA><S942>:"<BASE><MIN>:"<U03BA> % GREEK SMALL LETTER KAPPA
 <U03F0><S942>:"<BASE><COMPAT>:"<U03F0> % GREEK KAPPA SYMBOL
 <U039A><S942>:"<BASE><CAP>:"<U039A> % GREEK CAPITAL LETTER KAPPA
 <U03BB><S943>:"<BASE><MIN>:"<U03BB> % GREEK SMALL LETTER LAMDA
 <U039B><S943>:"<BASE><CAP>:"<U039B> % GREEK CAPITAL LETTER LAMDA
 <U03BC><S944>:"<BASE><MIN>:"<U03BC> % GREEK SMALL LETTER MU
 <U00B5><S944>:"<BASE><COMPAT>:"<U00B5> % MICRO SIGN
 <U039C><S944>:"<BASE><CAP>:"<U039C> % GREEK CAPITAL LETTER MU
 <U3382><S944><S6C>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U3382> % SQUARE MU A
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 <U338D><S944><S759>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U338D> % SQUARE MU G
 <U3395><S944><S7BD>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U3395> % SQUARE MU L
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 <U33B2><S944><S85D>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U33B2> % SQUARE MU S
 <U33B6><S944><S8A5>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U33B6> % SQUARE MU V
 <U33BC><S944><S8B1>:"<BASE><BASE>:"<SQUARED><SQUARED>:"<U33BC> % SQUARE MU W
 <U03BD><S945>:"<BASE><MIN>:"<U03BD> % GREEK SMALL LETTER NU
 <U039D><S945>:"<BASE><CAP>:"<U039D> % GREEK CAPITAL LETTER NU
 <U03BE><S946>:"<BASE><MIN>:"<U03BE> % GREEK SMALL LETTER XI
 <U039E><S946>:"<BASE><CAP>:"<U039E> % GREEK CAPITAL LETTER XI
 <U03BF><S947>:"<BASE><MIN>:"<U03BF> % GREEK SMALL LETTER OMICRON
 <U039F><S947>:"<BASE><CAP>:"<U039F> % GREEK CAPITAL LETTER OMICRON
 <U1F40><S947>:"<BASE><PSILI>:"<MIN><MIN>:"<U1F40> % GREEK SMALL LETTER OMICRON WITH PSILI
 <U1F48><S947>:"<BASE><PSILI>:"<CAP><MIN>:"<U1F48> % GREEK CAPITAL LETTER OMICRON WITH PSILI
 <U1F44><S947>:"<BASE><PSILI><AIGUT>:"<MIN><MIN><MIN>:"<U1F44> % GREEK SMALL LETTER OMICRON WITH PSILI AND OXIA
 <U1F4C><S947>:"<BASE><PSILI><AIGUT>:"<CAP><MIN><MIN>:"<U1F4C> % GREEK CAPITAL LETTER OMICRON WITH PSILI AND OXIA
 <U1F42><S947>:"<BASE><PSILI><GRAVE>:"<MIN><MIN><MIN>:"<U1F42> % GREEK SMALL LETTER OMICRON WITH PSILI AND VARIA
 <U1F4A><S947>:"<BASE><PSILI><GRAVE>:"<CAP><MIN><MIN>:"<U1F4A> % GREEK CAPITAL LETTER OMICRON WITH PSILI AND VARIA
 <U1F41><S947>:"<BASE><DASIA>:"<MIN><MIN>:"<U1F41> % GREEK SMALL LETTER OMICRON WITH DASIA
 <U1F49><S947>:"<BASE><DASIA>:"<CAP><MIN><MIN>:"<U1F49> % GREEK CAPITAL LETTER OMICRON WITH DASIA
 <U1F45><S947>:"<BASE><DASIA><AIGUT>:"<MIN><MIN><MIN>:"<U1F45> % GREEK SMALL LETTER OMICRON WITH DASIA AND OXIA
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 <U1F43><S947>:"<BASE><DASIA><GRAVE>:"<MIN><MIN><MIN>:"<U1F43> % GREEK SMALL LETTER OMICRON WITH DASIA AND VARIA
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 <U1F79><S947>:"<BASE><AIGUT>:"<MIN><MIN>:"<U1F79> % GREEK SMALL LETTER OMICRON WITH OXIA
 <U038C><S947>:"<BASE><AIGUT>:"<CAP><MIN>:"<U038C> % GREEK CAPITAL LETTER OMICRON WITH TONOS
 <U1FF9><S947>:"<BASE><AIGUT>:"<CAP><MIN>:"<U1FF9> % GREEK CAPITAL LETTER OMICRON WITH OXIA
 <U1F78><S947>:"<BASE><GRAVE>:"<MIN><MIN>:"<U1F78> % GREEK SMALL LETTER OMICRON WITH VARIA
 <U1FF8><S947>:"<BASE><GRAVE>:"<CAP><MIN>:"<U1FF8> % GREEK CAPITAL LETTER OMICRON WITH VARIA
 <U03C0><S948>:"<BASE><MIN>:"<U03C0> % GREEK SMALL LETTER PI
 <U03D6><S948>:"<BASE><COMPAT>:"<U03D6> % GREEK PI SYMBOL
 <U03A0><S948>:"<BASE><CAP>:"<U03A0> % GREEK CAPITAL LETTER PI
 <U03DE><S949>:"<BASE><MIN>:"<U03DE> % GREEK LETTER KOPPA
 <U03C1><S94A>:"<BASE><MIN>:"<U03C1> % GREEK SMALL LETTER RHO
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 <U1FE4><S94A>:"<BASE><PSILI>:"<MIN><MIN>:"<U1FE4> % GREEK SMALL LETTER RHO WITH PSILI
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 <U1FEC><S94A>:"<BASE><DASIA>:"<CAP><MIN>:"<U1FEC> % GREEK CAPITAL LETTER RHO WITH DASIA
 <U03C2><S94B>:"<BASE><MIN>:"<U03C2> % GREEK SMALL LETTER FINAL SIGMA
 <U03C3><S94B>:"<BASE><MIN>:"<U03C3> % GREEK SMALL LETTER SIGMA
 <U03F2><S94B>:"<BASE><COMPAT>:"<U03F2> % GREEK LUNATE SIGMA SYMBOL
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 <U03C6><S94D>:"<BASE><MIN>:"<U03C6> % GREEK SMALL LETTER UPSILON
 <U03A5><S94D>:"<BASE><CAP>:"<U03A5> % GREEK CAPITAL LETTER UPSILON
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 <U1F60><S94D>:"<BASE><PSILI>:"<MIN><MIN>:"<U1F60> % GREEK SMALL LETTER UPSILON WITH PSILI
 <U1F54><S94D>:"<BASE><PSILI><AIGUT>:"<MIN><MIN><MIN>:"<U1F54> % GREEK SMALL LETTER UPSILON WITH PSILI AND OXIA
 <U1F52><S94D>:"<BASE><PSILI><GRAVE>:"<MIN><MIN><MIN>:"<U1F52> % GREEK SMALL LETTER UPSILON WITH PSILI AND VARIA
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 <U1F5F><S94D>:"<BASE><DASIA><PERIS>:"<CAP><MIN><MIN>:"<U1F5F> % GREEK CAPITAL LETTER UPSILON WITH DASIA AND PERISPOMENI

<U03E2><S953><BASE><CAP><U03E2> % COPTIC CAPITAL LETTER SHEI
 <U03E5><S954><BASE><MIN><U03E5> % COPTIC SMALL LETTER FEI
 <U03E4><S954><BASE><CAP><U03E4> % COPTIC CAPITAL LETTER FEI
 <U03E7><S955><BASE><MIN><U03E7> % COPTIC SMALL LETTER KHEI
 <U03E6><S955><BASE><CAP><U03E6> % COPTIC CAPITAL LETTER KHEI
 <U03E9><S956><BASE><MIN><U03E9> % COPTIC SMALL LETTER HORI
 <U03E8><S956><BASE><CAP><U03E8> % COPTIC CAPITAL LETTER HORI
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 <U03EA><S957><BASE><CAP><U03EA> % COPTIC CAPITAL LETTER GANGIA
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 <U03EC><S958><BASE><CAP><U03EC> % COPTIC CAPITAL LETTER SHIMA
 <U03EF><S959><BASE><MIN><U03EF> % COPTIC SMALL LETTER DEI
 <U03EE><S959><BASE><CAP><U03EE> % COPTIC CAPITAL LETTER DEI
 <U0430><S96A><BASE><MIN><U0430> % CYRILLIC SMALL LETTER A
 <U0410><S96A><BASE><CAP><U0410> % CYRILLIC CAPITAL LETTER A
 <U04D1><S95A><BASE><BREVE><MIN><U04D1> % CYRILLIC SMALL LETTER A WITH BREVE
 <U04D0><S95A><BASE><BREVE><CAP><MIN><U04D0> % CYRILLIC CAPITAL LETTER A WITH BREVE
 <U04D3><S95A><BASE><TREMA><MIN><MIN><U04D3> % CYRILLIC SMALL LETTER A WITH DIAERESIS
 <U04D2><S95A><BASE><TREMA><CAP><MIN><U04D2> % CYRILLIC CAPITAL LETTER A WITH DIAERESIS
 <U04D9><S95E><BASE><MIN><U04D9> % CYRILLIC SMALL LETTER SCHWA
 <U04D8><S95E><BASE><CAP><U04D8> % CYRILLIC CAPITAL LETTER SCHWA
 <U04DB><S95E><BASE><TREMA><MIN><MIN><U04DB> % CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS
 <U04DA><S95E><BASE><TREMA><CAP><MIN><U04DA> % CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS
 <U04D5><S962><BASE><MIN><U04D5> % CYRILLIC SMALL LIGATURE A IE
 <U04D4><S962><BASE><CAP><U04D4> % CYRILLIC CAPITAL LIGATURE A IE
 <U0431><S966><BASE><MIN><U0431> % CYRILLIC SMALL LETTER BE
 <U0411><S966><BASE><CAP><U0411> % CYRILLIC CAPITAL LETTER BE
 <U0432><S96A><BASE><MIN><U0432> % CYRILLIC SMALL LETTER VE
 <U0412><S96A><BASE><CAP><U0412> % CYRILLIC CAPITAL LETTER VE
 <U0433><S96E><BASE><MIN><U0433> % CYRILLIC SMALL LETTER GHE
 <U0413><S96E><BASE><CAP><U0413> % CYRILLIC CAPITAL LETTER GHE
 <U0453><S96E><BASE><AIGUT><MIN><MIN><U0453> % CYRILLIC SMALL LETTER GJE
 <U0403><S96E><BASE><AIGUT><CAP><MIN><U0403> % CYRILLIC CAPITAL LETTER GJE
 <U0491><S972><BASE><MIN><U0491> % CYRILLIC SMALL LETTER GHE WITH UPTURN
 <U0490><S972><BASE><CAP><U0490> % CYRILLIC CAPITAL LETTER GHE WITH UPTURN
 <U0493><S976><BASE><MIN><U0493> % CYRILLIC SMALL LETTER GHE WITH STROKE
 <U0492><S976><BASE><CAP><U0492> % CYRILLIC CAPITAL LETTER GHE WITH STROKE
 <U0495><S97A><BASE><MIN><U0495> % CYRILLIC SMALL LETTER GHE WITH MIDDLE HOOK
 <U0494><S97A><BASE><CAP><U0494> % CYRILLIC CAPITAL LETTER GHE WITH MIDDLE HOOK
 <U0434><S97E><BASE><MIN><U0434> % CYRILLIC SMALL LETTER DE
 <U0414><S97E><BASE><CAP><U0414> % CYRILLIC CAPITAL LETTER DE
 <U0452><S982><BASE><MIN><U0452> % CYRILLIC SMALL LETTER DJE
 <U0402><S982><BASE><CAP><U0402> % CYRILLIC CAPITAL LETTER DJE
 <U0499><S986><BASE><MIN><U0499> % CYRILLIC SMALL LETTER ZE WITH DESCENDER
 <U0498><S986><BASE><CAP><U0498> % CYRILLIC CAPITAL LETTER ZE WITH DESCENDER
 <U0435><S98A><BASE><MIN><U0435> % CYRILLIC SMALL LETTER IE
 <U0415><S98A><BASE><CAP><U0415> % CYRILLIC CAPITAL LETTER IE
 <U04D7><S98A><BASE><BREVE><MIN><MIN><U04D7> % CYRILLIC SMALL LETTER IE WITH BREVE
 <U04D6><S98A><BASE><BREVE><CAP><MIN><U04D6> % CYRILLIC CAPITAL LETTER IE WITH BREVE
 <U0451><S98A><BASE><TREMA><MIN><MIN><U0451> % CYRILLIC SMALL LETTER IO
 <U0401><S98A><BASE><TREMA><CAP><MIN><U0401> % CYRILLIC CAPITAL LETTER IO
 <U0454><S98E><BASE><MIN><U0454> % CYRILLIC SMALL LETTER UKRAINIAN IE
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 <U0416><S992><BASE><CAP><U0416> % CYRILLIC CAPITAL LETTER ZHE
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 <U0417><S99A><BASE><CAP><U0417> % CYRILLIC CAPITAL LETTER ZE
 <U04DF><S99A><BASE><TREMA><MIN><MIN><U04DF> % CYRILLIC SMALL LETTER ZE WITH DIAERESIS
 <U04DE><S99A><BASE><TREMA><CAP><MIN><U04DE> % CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS
 <U0455><S99E><BASE><MIN><U0455> % CYRILLIC SMALL LETTER DZE
 <U0405><S99E><BASE><CAP><U0405> % CYRILLIC CAPITAL LETTER DZE
 <U04E1><S9A2><BASE><MIN><U04E1> % CYRILLIC SMALL LETTER ABKHASIAN DZE
 <U04E0><S9A2><BASE><CAP><U04E0> % CYRILLIC CAPITAL LETTER ABKHASIAN DZE
 <U0438><S9A6><BASE><MIN><U0438> % CYRILLIC SMALL LETTER I
 <U0418><S9A6><BASE><CAP><U0418> % CYRILLIC CAPITAL LETTER I
 <U0439><S9A6><BASE><BREVE><MIN><MIN><U0439> % CYRILLIC SMALL LETTER SHORT I
 <U0419><S9A6><BASE><BREVE><CAP><MIN><U0419> % CYRILLIC CAPITAL LETTER SHORT I
 <U04E5><S9A6><BASE><TREMA><MIN><MIN><U04E5> % CYRILLIC SMALL LETTER I WITH DIAERESIS
 <U04E4><S9A6><BASE><TREMA><CAP><MIN><U04E4> % CYRILLIC CAPITAL LETTER I WITH DIAERESIS
 <U04E3><S9A6><BASE><MACRO><MIN><MIN><U04E3> % CYRILLIC SMALL LETTER I WITH MACRON
 <U04E2><S9A6><BASE><MACRO><CAP><MIN><U04E2> % CYRILLIC CAPITAL LETTER I WITH MACRON
 <U0456><S9AA><BASE><MIN><U0456> % CYRILLIC SMALL LETTER BYELORUSSIAN UKRAINIAN I
 <U0406><S9AA><BASE><CAP><U0406> % CYRILLIC CAPITAL LETTER BYELORUSSIAN UKRAINIAN I
 <U0457><S9AA><BASE><TREMA><MIN><MIN><U0457> % CYRILLIC SMALL LETTER YI
 <U0407><S9AA><BASE><TREMA><CAP><MIN><U0407> % CYRILLIC CAPITAL LETTER YI
 <U0458><S9AE><BASE><MIN><U0458> % CYRILLIC SMALL LETTER JE
 <U0408><S9AE><BASE><CAP><U0408> % CYRILLIC CAPITAL LETTER JE
 <U043A><S9B2><BASE><MIN><U043A> % CYRILLIC SMALL LETTER KA
 <U041A><S9B2><BASE><CAP><U041A> % CYRILLIC CAPITAL LETTER KA
 <U045C><S9B2><BASE><AIGUT><MIN><MIN><U045C> % CYRILLIC SMALL LETTER KJE
 <U040C><S9B2><BASE><AIGUT><CAP><MIN><U040C> % CYRILLIC CAPITAL LETTER KJE

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 <U049A><S9B6>;<BASE>;<CAP>;<U049A> % CYRILLIC CAPITAL LETTER KA WITH DESCENDER
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 <U04A0><S9BE>;<BASE>;<CAP>;<U04A0> % CYRILLIC CAPITAL LETTER BASHKIR KA
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 <U049E><S9C2>;<BASE>;<CAP>;<U049E> % CYRILLIC CAPITAL LETTER KA WITH STROKE
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 <U043B><S9CA>;<BASE>;<MIN>;<U043B> % CYRILLIC SMALL LETTER EL
 <U041B><S9CA>;<BASE>;<CAP>;<U041B> % CYRILLIC CAPITAL LETTER EL
 <U0459><S9CE>;<BASE>;<MIN>;<U0459> % CYRILLIC SMALL LETTER LJE
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 <U04E7><S9EA>;<BASE>;<TREMA>;<MIN>;<MIN>;<U04E7> % CYRILLIC SMALL LETTER O WITH DIAERESIS
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 <U040B><SA12>;<BASE>;<CAP>;<U040B> % CYRILLIC CAPITAL LETTER TSHE
 <U0443><SA16>;<BASE>;<MIN>;<U0443> % CYRILLIC SMALL LETTER U
 <U0423><SA16>;<BASE>;<CAP>;<U0423> % CYRILLIC CAPITAL LETTER U
 <U045E><SA16>;<BASE>;<BREVE>;<MIN>;<MIN>;<U045E> % CYRILLIC SMALL LETTER SHORT U
 <U040E><SA16>;<BASE>;<BREVE>;<CAP>;<MIN>;<U040E> % CYRILLIC CAPITAL LETTER SHORT U
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 <U04F0><SA16>;<BASE>;<TREMA>;<CAP>;<MIN>;<U04F0> % CYRILLIC CAPITAL LETTER U WITH DIAERESIS
 <U04F3><SA16>;<BASE>;<2AIGU>;<MIN>;<MIN>;<U04F3> % CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
 <U04F2><SA16>;<BASE>;<2AIGU>;<CAP>;<MIN>;<U04F2> % CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
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 <U0478><SA22>;<BASE>;<CAP>;<U0478> % CYRILLIC CAPITAL LETTER UK
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 <U0425><SA2A>;<BASE>;<CAP>;<U0425> % CYRILLIC CAPITAL LETTER HA
 <U04B3><SA2E>;<BASE>;<MIN>;<U04B3> % CYRILLIC SMALL LETTER HA WITH DESCENDER
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 <U10F0><SADE><BASE><MIN><U10F0>% GEORGIAN LETTER HAE
 <U10C0><SADE><BASE><CAP><U10C0>% GEORGIAN CAPITAL LETTER HAE
 <U10F5><SADF><BASE><MIN><U10F5>% GEORGIAN LETTER HOE
 <U10C5><SADF><BASE><CAP><U10C5>% GEORGIAN CAPITAL LETTER HOE
 <U10F6><SAE0><BASE><MIN><U10F6>% GEORGIAN LETTER FI
 <U0561><SAE1><BASE><MIN><U0561>% ARMENIAN SMALL LETTER AYB
 <U0531><SAE1><BASE><CAP><U0531>% ARMENIAN CAPITAL LETTER AYB
 <U0562><SAE2><BASE><MIN><U0562>% ARMENIAN SMALL LETTER BEN
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 <U0533><SAE3><BASE><CAP><U0533>% ARMENIAN CAPITAL LETTER GIM
 <U0564><SAE4><BASE><MIN><U0564>% ARMENIAN SMALL LETTER DA
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 <U0565><SAE5><BASE><MIN><U0565>% ARMENIAN SMALL LETTER ECH
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 <U0587><SAE5><SB02><BASE><BASE><COMPAT><COMPAT><U0587>% ARMENIAN SMALL LIGATURE ECH YIWN
 <U0566><SAE6><BASE><MIN><U0566>% ARMENIAN SMALL LETTER ZA
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 <U0568><SAE8><BASE><MIN><U0568>% ARMENIAN SMALL LETTER ET
 <U0538><SAE8><BASE><CAP><U0538>% ARMENIAN CAPITAL LETTER ET
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 <U0539><SAE9><BASE><CAP><U0539>% ARMENIAN CAPITAL LETTER TO
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 <U053A><SAEA><BASE><CAP><U053A>% ARMENIAN CAPITAL LETTER ZHE
 <U056B><SAEB><BASE><MIN><U056B>% ARMENIAN SMALL LETTER INI
 <U053B><SAEB><BASE><CAP><U053B>% ARMENIAN CAPITAL LETTER INI
 <U056C><SAEC><BASE><MIN><U056C>% ARMENIAN SMALL LETTER LIWN
 <U053C><SAEC><BASE><CAP><U053C>% ARMENIAN CAPITAL LETTER LIWN
 <U056D><SAED><BASE><MIN><U056D>% ARMENIAN SMALL LETTER XEH
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 <U056E><SAEE><BASE><MIN><U056E>% ARMENIAN SMALL LETTER CA
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 <U056F><SAEF><BASE><MIN><U056F>% ARMENIAN SMALL LETTER KEN
 <U053F><SAEF><BASE><CAP><U053F>% ARMENIAN CAPITAL LETTER KEN
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 <U0571><SAF1><BASE><MIN><U0571>% ARMENIAN SMALL LETTER JA
 <U0541><SAF1><BASE><CAP><U0541>% ARMENIAN CAPITAL LETTER JA
 <U0572><SAF2><BASE><MIN><U0572>% ARMENIAN SMALL LETTER GHAD
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<U0573><SAF3><BASE><MIN><U0573> % ARMENIAN SMALL LETTER CHEH
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<UFB13><SAF4><SAF6><BASE><BASE><COMPAT><COMPAT><UFB13> % ARMENIAN SMALL LIGATURE MEN NOW
<U0575><SAF5><BASE><MIN><U0575> % ARMENIAN SMALL LETTER YI
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<U0576><SAF6><BASE><MIN><U0576> % ARMENIAN SMALL LETTER NOW
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<U0547><SAF7><BASE><CAP><U0547> % ARMENIAN CAPITAL LETTER SHA
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<U0582><SB02><BASE><MIN><U0582> % ARMENIAN SMALL LETTER YIWN
<U0552><SB02><BASE><CAP><U0552> % ARMENIAN CAPITAL LETTER YIWN
<U0583><SB03><BASE><MIN><U0583> % ARMENIAN SMALL LETTER PIWR
<U0553><SB03><BASE><CAP><U0553> % ARMENIAN CAPITAL LETTER PIWR
<U0584><SB04><BASE><MIN><U0584> % ARMENIAN SMALL LETTER KEH
<U0554><SB04><BASE><CAP><U0554> % ARMENIAN CAPITAL LETTER KEH
<U0585><SB05><BASE><MIN><U0585> % ARMENIAN SMALL LETTER OH
<U0555><SB05><BASE><CAP><U0555> % ARMENIAN CAPITAL LETTER OH
<U0586><SB06><BASE><MIN><U0586> % ARMENIAN SMALL LETTER FEH
<U0556><SB06><BASE><CAP><U0556> % ARMENIAN CAPITAL LETTER FEH
<U0559><SB07><BASE><MIN><U0559> % ARMENIAN MODIFIER LETTER LEFT HALF RING
<U05D0><SB08><BASE><MIN><U05D0> % HEBREW LETTER ALEF
<U2135><SB08><BASE><COMPAT><U2135> % ALEF SYMBOL
<UFB21><SB08><BASE><UFB21> % HEBREW LETTER WIDE ALEF
<UFB2E><SB08><BASE><PATAH><MIN><MIN><UFB2E> % HEBREW LETTER ALEF WITH PATAH
<UFB2F><SB08><BASE><QAMAT><MIN><MIN><UFB2F> % HEBREW LETTER ALEF WITH QAMATS
<UFB30><SB08><BASE><DAGESH><MIN><MIN><UFB30> % HEBREW LETTER ALEF WITH MAPIQ
<UFB4F><SB08><SB13><BASE><BASE><COMPAT><COMPAT><UFB4F> % HEBREW LIGATURE ALEF LAMED
<U05D1><SB09><BASE><MIN><U05D1> % HEBREW LETTER BET
<U2136><SB09><BASE><COMPAT><U2136> % BET SYMBOL
<UFB31><SB09><BASE><DAGESH><MIN><MIN><UFB31> % HEBREW LETTER BET WITH DAGESH
<UFB4C><SB09><BASE><RAPHE><MIN><MIN><UFB4C> % HEBREW LETTER BET WITH RAPE
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<U2137><SB0A><BASE><COMPAT><U2137> % GIMEL SYMBOL
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<UFB34><SB0C><BASE><DAGESH><MIN><MIN><UFB34> % HEBREW LETTER HE WITH MAPIQ
<U05D5><SB0D><BASE><MIN><U05D5> % HEBREW LETTER VAV
<UFB4B><SB0D><BASE><HOLAM><MIN><MIN><UFB4B> % HEBREW LETTER VAV WITH HOLAM
<UFB35><SB0D><BASE><DAGESH><MIN><MIN><UFB35> % HEBREW LETTER VAV WITH DAGESH
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<U05F1><SB0D><SB14><BASE><BASE><COMPAT><COMPAT><U05F1> % HEBREW LIGATURE YIDDISH VAV YOD
<U05D6><SB0E><BASE><MIN><U05D6> % HEBREW LETTER ZAYIN
<UFB36><SB0E><BASE><DAGESH><MIN><MIN><UFB36> % HEBREW LETTER ZAYIN WITH DAGESH
<U05D7><SB0F><BASE><MIN><U05D7> % HEBREW LETTER HET
<U05D8><SB10><BASE><MIN><U05D8> % HEBREW LETTER TET
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<U05F2><SB11><SB11><BASE><BASE><COMPAT><COMPAT><U05F2> % HEBREW LIGATURE YIDDISH DOUBLE YOD
<UFB1F><SB11><SB11><BASE><BASE><PATAH><MIN><MIN><COMPAT><COMPAT><UFB1F> % HEBREW LIGATURE YIDDISH YOD YOD PATAH
<U05DB><SB12><BASE><MIN><U05DB> % HEBREW LETTER KAF
<UFB24><SB12><BASE><UFB24> % HEBREW LETTER WIDE KAF
<U05DA><SB12><BASE><AFIN><U05DA> % HEBREW LETTER FINAL KAF
<UFB3B><SB12><BASE><DAGESH><MIN><MIN><UFB3B> % HEBREW LETTER KAF WITH DAGESH
<UFB3A><SB12><BASE><DAGESH><AFIN><MIN><MIN><UFB3A> % HEBREW LETTER FINAL KAF WITH DAGESH
<UFB4D><SB12><BASE><RAPHE><MIN><MIN><UFB4D> % HEBREW LETTER KAF WITH RAPE

<U05DC><SB13><BASE><MIN><U05DC> % HEBREW LETTER LAMED
 <UFB26><SB13><BASE><UFB26> % HEBREW LETTER WIDE LAMED
 <UFB3C><SB13><BASE><DAGES><MIN><MIN><UFB3C> % HEBREW LETTER LAMED WITH DAGESH
 <U05DE><SB14><BASE><MIN><U05DE> % HEBREW LETTER MEM
 <UFB26><SB14><BASE><UFB26> % HEBREW LETTER WIDE FINAL MEM
 <U05DD><SB14><BASE><AFIN><U05DD> % HEBREW LETTER FINAL MEM
 <UFB3E><SB14><BASE><DAGES><MIN><MIN><UFB3E> % HEBREW LETTER MEM WITH DAGESH
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 <U05DF><SB15><BASE><AFIN><U05DF> % HEBREW LETTER FINAL NUN
 <UFB40><SB15><BASE><DAGES><MIN><MIN><UFB40> % HEBREW LETTER NUN WITH DAGESH
 <U05E1><SB16><BASE><MIN><U05E1> % HEBREW LETTER SAMEKH
 <UFB41><SB16><BASE><DAGES><MIN><MIN><UFB41> % HEBREW LETTER SAMEKH WITH DAGESH
 <U05E2><SB17><BASE><MIN><U05E2> % HEBREW LETTER AYIN
 <UFB20><SB17><BASE><UFB20> % HEBREW LETTER ALTERNATIVE AYIN
 <U05E4><SB18><BASE><MIN><U05E4> % HEBREW LETTER PE
 <U05E3><SB18><BASE><AFIN><U05E3> % HEBREW LETTER FINAL PE
 <UFB44><SB18><BASE><DAGES><MIN><MIN><UFB44> % HEBREW LETTER PE WITH DAGESH
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 <U05E6><SB19><BASE><MIN><U05E6> % HEBREW LETTER TSADI
 <U05E5><SB19><BASE><AFIN><U05E5> % HEBREW LETTER FINAL TSADI
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 <U05E7><SB1A><BASE><MIN><U05E7> % HEBREW LETTER QOF
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 <U05E8><SB1B><BASE><MIN><U05E8> % HEBREW LETTER RESH
 <UFB27><SB1B><BASE><UFB27> % HEBREW LETTER WIDE RESH
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 <U05E9><SB1C><BASE><MIN><U05E9> % HEBREW LETTER SHIN
 <UFB49><SB1C><BASE><DAGES><MIN><MIN><UFB49> % HEBREW LETTER SHIN WITH DAGESH
 <UFB2C><SB1C><BASE><DAGES><SHIN><MIN><MIN><UFB2C> % HEBREW LETTER SHIN WITH DAGESH AND SHIN DOT
 <UFB2D><SB1C><BASE><DAGES><SINPT><MIN><MIN><MIN><UFB2D> % HEBREW LETTER SHIN WITH DAGESH AND SIN DOT
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 <U0621><SB1E><BASE><MIN><U0621> % ARABIC LETTER HAMZA
 <UFE80><SB1E><BASE><ALISO><UFE80> % ARABIC LETTER HAMZA ISOLATED FORM
 <U0674><SB1F><BASE><MIN><U0674> % ARABIC LETTER HIGH HAMZA
 <U0622><SB20><BASE><MIN><U0622> % ARABIC LETTER ALEF WITH MADDA ABOVE
 <UFE82><SB20><BASE><AFIN><UFE82> % ARABIC LETTER ALEF WITH MADDA ABOVE FINAL FORM
 <UFE81><SB20><BASE><ALISO><UFE81> % ARABIC LETTER ALEF WITH MADDA ABOVE ISOLATED FORM
 <U0623><SB21><BASE><MIN><U0623> % ARABIC LETTER ALEF WITH HAMZA ABOVE
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 <U0672><SB22><BASE><MIN><U0672> % ARABIC LETTER ALEF WITH WAVY HAMZA ABOVE
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 <U0671><SB24><BASE><MIN><U0671> % ARABIC LETTER ALEF WASLA
 <UFB51><SB24><BASE><AFIN><UFB51> % ARABIC LETTER ALEF WASLA FINAL FORM
 <UFB50><SB24><BASE><ALISO><UFB50> % ARABIC LETTER ALEF WASLA ISOLATED FORM
 <U0624><SB25><BASE><MIN><U0624> % ARABIC LETTER WAW WITH HAMZA ABOVE
 <UFE86><SB25><BASE><AFIN><UFE86> % ARABIC LETTER WAW WITH HAMZA ABOVE FINAL FORM
 <UFE85><SB25><BASE><ALISO><UFE85> % ARABIC LETTER WAW WITH HAMZA ABOVE ISOLATED FORM
 <U0676><SB26><BASE><MIN><U0676> % ARABIC LETTER HIGH HAMZA WAW
 <U0677><SB27><BASE><MIN><U0677> % ARABIC LETTER U WITH HAMZA ABOVE
 <UFBDD><SB27><BASE><ALISO><UFBDD> % ARABIC LETTER U WITH HAMZA ABOVE ISOLATED FORM
 <U0625><SB28><BASE><MIN><U0625> % ARABIC LETTER ALEF WITH HAMZA BELOW
 <UFE88><SB28><BASE><AFIN><UFE88> % ARABIC LETTER ALEF WITH HAMZA BELOW FINAL FORM
 <UFE87><SB28><BASE><ALISO><UFE87> % ARABIC LETTER ALEF WITH HAMZA BELOW ISOLATED FORM
 <U0673><SB29><BASE><MIN><U0673> % ARABIC LETTER ALEF WITH WAVY HAMZA BELOW
 <U0626><SB2A><BASE><MIN><U0626> % ARABIC LETTER YEH WITH HAMZA ABOVE
 <UFE8B><SB2A><BASE><AINI><UFE8B> % ARABIC LETTER YEH WITH HAMZA ABOVE INITIAL FORM
 <UFE8C><SB2A><BASE><AMED><UFE8C> % ARABIC LETTER YEH WITH HAMZA ABOVE MEDIAL FORM
 <UFE8A><SB2A><BASE><AFIN><UFE8A> % ARABIC LETTER YEH WITH HAMZA ABOVE FINAL FORM
 <UFE89><SB2A><BASE><ALISO><UFE89> % ARABIC LETTER YEH WITH HAMZA ABOVE ISOLATED FORM
 <UFBEB><SB2A><SB2C><BASE><BASE><AFIN><AFIN><UFBEB> % ARABIC LIGATURE YEH WITH HAMZA ABOVE WITH ALEF FINAL FORM
 <UFBFA><SB2A><SB2C><BASE><BASE><ALISO><ALISO><UFBFA> % ARABIC LIGATURE YEH WITH HAMZA ABOVE WITH ALEF ISOLATED FORM
 <UFC97><SB2A><SB39><BASE><BASE><AINI><AINI><UFC97> % ARABIC LIGATURE YEH WITH HAMZA ABOVE WITH JEEM INITIAL FORM
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 <UFBF2><SB2A><SB93><BASE><BASE><ALISO><ALISO><UFBF2> % ARABIC LIGATURE YEH WITH HAMZA ABOVE WITH OE ISOLATED FORM
 <UFBF1><SB2A><SB94><BASE><BASE><AFIN><AFIN><UFBF1> % ARABIC LIGATURE YEH WITH HAMZA ABOVE WITH U FINAL FORM
 <UFBF0><SB2A><SB94><BASE><BASE><ALISO><ALISO><UFBF0> % ARABIC LIGATURE YEH WITH HAMZA ABOVE WITH U ISOLATED FORM

<UFB77><SB3A><BASE><AFIN><UFB77> % ARABIC LETTER NYEH FINAL FORM
 <UFB76><SB3A><BASE><AISO><UFB76> % ARABIC LETTER NYEH ISOLATED FORM
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 <UFB74><SB3B><BASE><AINI><UFB74> % ARABIC LETTER DYEH INITIAL FORM
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 <UFB73><SB3B><BASE><AFIN><UFB73> % ARABIC LETTER DYEH FINAL FORM
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 <UFEA3><SB3E><BASE><AINI><UFEA3> % ARABIC LETTER HAH INITIAL FORM
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 <UFD5B> " <SB3E><SB83><SB99> " <BASE><BASE><BASE> " <AFIN><AFIN><AFIN> " <UFD5B> % ARABIC LIGATURE HAH WITH MEEM WITH ALEF MAKSURA FINAL FORM
 <UFD5A> " <SB3E><SB83><SB9A> " <BASE><BASE><BASE> " <AFIN><AFIN><AFIN> " <UFD5A> % ARABIC LIGATURE HAH WITH MEEM WITH YEH FINAL FORM
 <UFD1B> " <SB3E><SB99> " <BASE><BASE> " <AFIN><AFIN> " <UFD1B> % ARABIC LIGATURE HAH WITH ALEF MAKSURA FINAL FORM
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 <UFD00> " <SB3E><SB9A> " <BASE><BASE> " <AISO><AISO> " <UFD00> % ARABIC LIGATURE HAH WITH YEH ISOLATED FORM
 <U062E><SB3F><BASE><MIN><U062E> % ARABIC LETTER KHAH
 <UFEA7><SB3F><BASE><AINI><UFEA7> % ARABIC LETTER KHAH INITIAL FORM
 <UFEA8><SB3F><BASE><AMED><UFEA8> % ARABIC LETTER KHAH MEDIAL FORM
 <UFEA6><SB3F><BASE><AFIN><UFEA6> % ARABIC LETTER KHAH FINAL FORM
 <UFEA5><SB3F><BASE><AISO><UFEA5> % ARABIC LETTER KHAH ISOLATED FORM
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 <U0681><SB40><BASE><MIN><U0681> % ARABIC LETTER HAH WITH HAMZA ABOVE
 <U0682><SB41><BASE><MIN><U0682> % ARABIC LETTER HAH WITH TWO DOTS VERTICAL ABOVE
 <U0685><SB42><BASE><MIN><U0685> % ARABIC LETTER HAH WITH THREE DOTS ABOVE
 <U062F><SB43><BASE><MIN><U062F> % ARABIC LETTER DAL
 <UFEAA><SB43><BASE><AFIN><UFEAA> % ARABIC LETTER DAL FINAL FORM
 <UFEA9><SB43><BASE><AISO><UFEA9> % ARABIC LETTER DAL ISOLATED FORM
 <U0630><SB44><BASE><MIN><U0630> % ARABIC LETTER THAL
 <UFEAC><SB44><BASE><AFIN><UFEAC> % ARABIC LETTER THAL FINAL FORM
 <UFEAB><SB44><BASE><AISO><UFEAB> % ARABIC LETTER THAL ISOLATED FORM
 <UFC5B><SB44> " <BASE><SUPERALEF> " <AISO><MIN> " <UFC5B> % ARABIC LIGATURE THAL WITH SUPERScript ALEF ISOLATED FORM
 <U0688><SB45><BASE><MIN><U0688> % ARABIC LETTER DDAL
 <UFB89><SB45><BASE><AFIN><UFB89> % ARABIC LETTER DDAL FINAL FORM
 <UFB88><SB45><BASE><AISO><UFB88> % ARABIC LETTER DDAL ISOLATED FORM
 <U0689><SB46><BASE><MIN><U0689> % ARABIC LETTER DAL WITH RING
 <U068A><SB47><BASE><MIN><U068A> % ARABIC LETTER DAL WITH DOT BELOW
 <U068B><SB48><BASE><MIN><U068B> % ARABIC LETTER DAL WITH DOT BELOW AND SMALL TAH
 <U068C><SB49><BASE><MIN><U068C> % ARABIC LETTER DAHAL
 <UFB85><SB49><BASE><AFIN><UFB85> % ARABIC LETTER DAHAL FINAL FORM
 <UFB84><SB49><BASE><AISO><UFB84> % ARABIC LETTER DAHAL ISOLATED FORM
 <U068D><SB4A><BASE><MIN><U068D> % ARABIC LETTER DDAHAL
 <UFB83><SB4A><BASE><AFIN><UFB83> % ARABIC LETTER DDAHAL FINAL FORM
 <UFB82><SB4A><BASE><AISO><UFB82> % ARABIC LETTER DDAHAL ISOLATED FORM
 <U068E><SB4B><BASE><MIN><U068E> % ARABIC LETTER DUL
 <UFB87><SB4B><BASE><AFIN><UFB87> % ARABIC LETTER DUL FINAL FORM
 <UFB86><SB4B><BASE><AISO><UFB86> % ARABIC LETTER DUL ISOLATED FORM
 <U068F><SB4C><BASE><MIN><U068F> % ARABIC LETTER DAL WITH THREE DOTS ABOVE DOWNWARDS
 <U0690><SB4D><BASE><MIN><U0690> % ARABIC LETTER DAL WITH FOUR DOTS ABOVE
 <U0631><SB4E><BASE><MIN><U0631> % ARABIC LETTER REH
 <UFEAE><SB4E><BASE><AFIN><UFEAE> % ARABIC LETTER REH FINAL FORM
 <UFEAD><SB4E><BASE><AISO><UFEAD> % ARABIC LETTER REH ISOLATED FORM
 <UFC5C><SB4E> " <BASE><SUPERALEF> " <AISO><MIN> " <UFC5C> % ARABIC LIGATURE REH WITH SUPERScript ALEF ISOLATED FORM
 <UFD F6> " <SB4E><SB59><SB8F><SB7F> " <BASE><BASE><BASE><BASE> " <AISO><AISO><AISO><AISO> " <UFD F6> % ARABIC LIGATURE RASOUL ISOLATED FORM
 <U0632><SB4F><BASE><MIN><U0632> % ARABIC LETTER ZAIN
 <UFEBO><SB4F><BASE><AFIN><UFEBO> % ARABIC LETTER ZAIN FINAL FORM
 <UFEAF><SB4F><BASE><AISO><UFEAF> % ARABIC LETTER ZAIN ISOLATED FORM
 <U0691><SB50><BASE><MIN><U0691> % ARABIC LETTER RREH
 <UFB8D><SB50><BASE><AFIN><UFB8D> % ARABIC LETTER RREH FINAL FORM
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<UFEC9> <SB65> <BASE> <AISO> <UFEC9> % ARABIC LETTER AIN ISOLATED FORM
 <UFCBA> <SB65> <SB39> <BASE> <BASE> <AINI> <AINI> <UFCBA> % ARABIC LIGATURE AIN WITH JEEM INITIAL FORM
 <UFC29> <SB65> <SB39> <BASE> <BASE> <AISO> <AISO> <UFC29> % ARABIC LIGATURE AIN WITH JEEM ISOLATED FORM
 <UFD4C> <SB65> <SB39> <SB83> <BASE> <BASE> <BASE> <AINI> <AINI> <AINI> <UFD4C> % ARABIC LIGATURE AIN WITH JEEM WITH MEEM INITIAL FORM
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 <UFD77> <SB65> <SB7F> <SB9A> <SB89> <BASE> <BASE> <BASE> <BASE> <AISO> <AISO> <AISO> <AISO> <UFD77> % ARABIC LIGATURE ALAYHE ISOLATED FORM
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 <UFC2A> <SB65> <SB83> <BASE> <BASE> <AISO> <AISO> <UFC2A> % ARABIC LIGATURE AIN WITH MEEM ISOLATED FORM
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 <UFD76> <SB65> <SB83> <SB83> <BASE> <BASE> <BASE> <AFIN> <AFIN> <AFIN> <UFD76> % ARABIC LIGATURE AIN WITH MEEM WITH MEEM FINAL FORM
 <UFD78> <SB65> <SB83> <SB99> <BASE> <BASE> <BASE> <AFIN> <AFIN> <AFIN> <UFD78> % ARABIC LIGATURE AIN WITH MEEM WITH ALEF MAKSURA FINAL FORM
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 <UFCF7> <SB65> <SB99> <BASE> <BASE> <AISO> <AISO> <UFCF7> % ARABIC LIGATURE AIN WITH ALEF MAKSURA ISOLATED FORM
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 <UFCF7> <SB66> <BASE> <AINI> <UFCF7> % ARABIC LETTER GHAIN INITIAL FORM
 <UFED0> <SB66> <BASE> <AMED> <UFED0> % ARABIC LETTER GHAIN MEDIAL FORM
 <UFCCE> <SB66> <BASE> <AFIN> <UFCCE> % ARABIC LETTER GHAIN FINAL FORM
 <UFCED> <SB66> <BASE> <AISO> <UFCED> % ARABIC LETTER GHAIN ISOLATED FORM
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 <UFD16> <SB66> <SB9A> <BASE> <BASE> <AFIN> <AFIN> <UFD16> % ARABIC LIGATURE GHAIN WITH YEH FINAL FORM
 <UFCFA> <SB66> <SB9A> <BASE> <BASE> <AISO> <AISO> <UFCFA> % ARABIC LIGATURE GHAIN WITH YEH ISOLATED FORM
 <U06A0> <SB67> <BASE> <MIN> <U06A0> % ARABIC LETTER AIN WITH THREE DOTS ABOVE
 <U0641> <SB68> <BASE> <MIN> <U0641> % ARABIC LETTER FEH
 <UFED3> <SB68> <BASE> <AINI> <UFED3> % ARABIC LETTER FEH INITIAL FORM
 <UFED4> <SB68> <BASE> <AMED> <UFED4> % ARABIC LETTER FEH MEDIAL FORM
 <UFED2> <SB68> <BASE> <AFIN> <UFED2> % ARABIC LETTER FEH FINAL FORM
 <UFED1> <SB68> <BASE> <AISO> <UFED1> % ARABIC LETTER FEH ISOLATED FORM
 <UFCBE> <SB68> <SB39> <BASE> <BASE> <AINI> <AINI> <UFCBE> % ARABIC LIGATURE FEH WITH JEEM INITIAL FORM
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 <UFD7D> <SB68> <SB3F> <SB83> <BASE> <BASE> <BASE> <AINI> <AINI> <AINI> <UFD7D> % ARABIC LIGATURE FEH WITH KHAH WITH MEEM INITIAL FORM
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 <UFC30> <SB68> <SB83> <BASE> <BASE> <AISO> <AISO> <UFC30> % ARABIC LIGATURE FEH WITH MEEM ISOLATED FORM
 <UFD41> <SB68> <SB83> <SB9A> <BASE> <BASE> <BASE> <AFIN> <AFIN> <AFIN> <UFD41> % ARABIC LIGATURE FEH WITH MEEM WITH YEH FINAL FORM
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 <UFC31> <SB68> <SB99> <BASE> <BASE> <AISO> <AISO> <UFC31> % ARABIC LIGATURE FEH WITH ALEF MAKSURA ISOLATED FORM
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 <UFC32> <SB68> <SB9A> <BASE> <BASE> <AISO> <AISO> <UFC32> % ARABIC LIGATURE FEH WITH YEH ISOLATED FORM
 <U06A1> <SB69> <BASE> <MIN> <U06A1> % ARABIC LETTER DOTLESS FEH
 <U06A2> <SB6A> <BASE> <MIN> <U06A2> % ARABIC LETTER FEH WITH DOT MOVED BELOW
 <U06A3> <SB6B> <BASE> <MIN> <U06A3> % ARABIC LETTER FEH WITH DOT BELOW
 <U06A4> <SB6C> <BASE> <MIN> <U06A4> % ARABIC LETTER VEH
 <UFB6C> <SB6C> <BASE> <AINI> <UFB6C> % ARABIC LETTER VEH INITIAL FORM
 <UFB6D> <SB6C> <BASE> <AMED> <UFB6D> % ARABIC LETTER VEH MEDIAL FORM
 <UFB6B> <SB6C> <BASE> <AFIN> <UFB6B> % ARABIC LETTER VEH FINAL FORM
 <UFB6A> <SB6C> <BASE> <AISO> <UFB6A> % ARABIC LETTER VEH ISOLATED FORM
 <U06A5> <SB6D> <BASE> <MIN> <U06A5> % ARABIC LETTER FEH WITH THREE DOTS BELOW
 <U06A6> <SB6E> <BASE> <MIN> <U06A6> % ARABIC LETTER PEHEH
 <UFB70> <SB6E> <BASE> <AINI> <UFB70> % ARABIC LETTER PEHEH INITIAL FORM
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 <U0642> <SB6F> <BASE> <MIN> <U0642> % ARABIC LETTER QAF
 <UFED7> <SB6F> <BASE> <AINI> <UFED7> % ARABIC LETTER QAF INITIAL FORM
 <UFED8> <SB6F> <BASE> <AMED> <UFED8> % ARABIC LETTER QAF MEDIAL FORM
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 <UFC02> <SB6F> <SB3E> <BASE> <BASE> <AINI> <AINI> <UFC02> % ARABIC LIGATURE QAF WITH HAH INITIAL FORM
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 <UFD71> <SB6F> <SB7F> <SBA1> <BASE> <BASE> <BASE> <AISO> <AISO> <AISO> <UFD71> % ARABIC LIGATURE QALA USED AS KORANIC STOP SIGN ISOLATED FORM
 <UFC03> <SB6F> <SB83> <BASE> <BASE> <AINI> <AINI> <UFC03> % ARABIC LIGATURE QAF WITH MEEM INITIAL FORM
 <UFC34> <SB6F> <SB83> <BASE> <BASE> <AISO> <AISO> <UFC34> % ARABIC LIGATURE QAF WITH MEEM ISOLATED FORM
 <UFD84> <SB6F> <SB83> <SB3E> <BASE> <BASE> <BASE> <AINI> <AINI> <AINI> <UFD84> % ARABIC LIGATURE QAF WITH MEEM WITH HAH INITIAL FORM
 <UFD7E> <SB6F> <SB83> <SB3E> <BASE> <BASE> <BASE> <AFIN> <AFIN> <AFIN> <UFD7E> % ARABIC LIGATURE QAF WITH MEEM WITH HAH FINAL FORM
 <UFD7F> <SB6F> <SB83> <SB83> <BASE> <BASE> <BASE> <AFIN> <AFIN> <AFIN> <UFD7F> % ARABIC LIGATURE QAF WITH MEEM WITH MEEM FINAL FORM
 <UFD82> <SB6F> <SB83> <SB9A> <BASE> <BASE> <BASE> <AFIN> <AFIN> <AFIN> <UFD82> % ARABIC LIGATURE QAF WITH MEEM WITH YEH FINAL FORM
 <UFC7E> <SB6F> <SB99> <BASE> <BASE> <AFIN> <AFIN> <UFC7E> % ARABIC LIGATURE QAF WITH ALEF MAKSURA FINAL FORM
 <UFC35> <SB6F> <SB99> <BASE> <BASE> <AISO> <AISO> <UFC35> % ARABIC LIGATURE QAF WITH ALEF MAKSURA ISOLATED FORM

<UFC8E>"<SB84><SB99>"<BASE><BASE>"<AFIN><AFIN>"<UFC8E>% ARABIC LIGATURE NOON WITH ALEF MAKSURA FINAL FORM
 <UFC4F>"<SB84><SB99>"<BASE><BASE>"<AFIN><AFIN>"<UFC4F>% ARABIC LIGATURE NOON WITH ALEF MAKSURA ISOLATED FORM
 <UFC8F>"<SB84><SB9A>"<BASE><BASE>"<AFIN><AFIN>"<UFC8F>% ARABIC LIGATURE NOON WITH YEH FINAL FORM
 <UFC50>"<SB84><SB9A>"<BASE><BASE>"<AFIN><AFIN>"<UFC50>% ARABIC LIGATURE NOON WITH YEH ISOLATED FORM
 <U06BA><SB85><BASE><MIN><U06BA>% ARABIC LETTER NOON GHUNNA
 <UFB9F><SB85><BASE><AFIN><UFB9F>% ARABIC LETTER NOON GHUNNA FINAL FORM
 <UFB9E><SB85><BASE><AFIN><UFB9E>% ARABIC LETTER NOON GHUNNA ISOLATED FORM
 <U06BB><SB86><BASE><MIN><U06BB>% ARABIC LETTER RNOON
 <UFB2><SB86><BASE><AFIN><UFB2>% ARABIC LETTER RNOON INITIAL FORM
 <UFB3><SB86><BASE><AFIN><UFB3>% ARABIC LETTER RNOON MEDIAL FORM
 <UFB1><SB86><BASE><AFIN><UFB1>% ARABIC LETTER RNOON FINAL FORM
 <UFB0><SB86><BASE><AFIN><UFB0>% ARABIC LETTER RNOON ISOLATED FORM
 <U06BC><SB87><BASE><MIN><U06BC>% ARABIC LETTER NOON WITH RING
 <U06BD><SB88><BASE><MIN><U06BD>% ARABIC LETTER NOON WITH THREE DOTS ABOVE
 <U0647><SB89><BASE><MIN><U0647>% ARABIC LETTER HEH
 <UFEEB><SB89><BASE><AFIN><UFEEB>% ARABIC LETTER HEH INITIAL FORM
 <UFEEC><SB89><BASE><AFIN><UFEEC>% ARABIC LETTER HEH MEDIAL FORM
 <UFEED><SB89><BASE><AFIN><UFEED>% ARABIC LETTER HEH FINAL FORM
 <UFEED><SB89><BASE><AFIN><UFEED>% ARABIC LETTER HEH ISOLATED FORM
 <UFC9><SB89><BASE><AFIN><UFC9>% ARABIC LIGATURE HEH WITH SUPERSCRIPT ALEF INITIAL FORM
 <UFC7><SB89><SB39>"<BASE><BASE>"<AFIN><AFIN>"<UFC7>% ARABIC LIGATURE HEH WITH JEEM INITIAL FORM
 <UFC51>"<SB89><SB39>"<BASE><BASE>"<AFIN><AFIN>"<UFC51>% ARABIC LIGATURE HEH WITH JEEM ISOLATED FORM
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 <UFC52>"<SB89><SB39>"<BASE><BASE>"<AFIN><AFIN>"<UFC52>% ARABIC LIGATURE HEH WITH MEEM ISOLATED FORM
 <UFD93>"<SB89><SB39><SB39>"<BASE><BASE><BASE>"<AFIN><AFIN><AFIN>"<UFD93>% ARABIC LIGATURE HEH WITH MEEM WITH JEEM INITIAL FORM
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 <U06BE><SB8A><BASE><MIN><U06BE>% ARABIC LETTER HEH DOACHASHMEE
 <UFBAC><SB8A><BASE><AFIN><UFBAC>% ARABIC LETTER HEH DOACHASHMEE INITIAL FORM
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 <UFBAB><SB8A><BASE><AFIN><UFBAB>% ARABIC LETTER HEH DOACHASHMEE FINAL FORM
 <UFBAA><SB8A><BASE><AFIN><UFBAA>% ARABIC LETTER HEH DOACHASHMEE ISOLATED FORM
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 <UFB5><SB8B><BASE><AFIN><UFB5>% ARABIC LETTER HEH WITH YEH ABOVE FINAL FORM
 <UFB4><SB8B><BASE><AFIN><UFB4>% ARABIC LETTER HEH WITH YEH ABOVE ISOLATED FORM
 <U06C1><SB8C><BASE><MIN><U06C1>% ARABIC LETTER HEH GOAL
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 <UFB7><SB8C><BASE><AFIN><UFB7>% ARABIC LETTER HEH GOAL FINAL FORM
 <UFB6><SB8C><BASE><AFIN><UFB6>% ARABIC LETTER HEH GOAL ISOLATED FORM
 <U06C2><SB8D><BASE><MIN><U06C2>% ARABIC LETTER HEH GOAL WITH HAMZA ABOVE
 <U06C3><SB8E><BASE><MIN><U06C3>% ARABIC LETTER TEH MARBUTA GOAL
 <U0648><SB8F><BASE><MIN><U0648>% ARABIC LETTER WAW
 <UFEED><SB8F><BASE><AFIN><UFEED>% ARABIC LETTER WAW FINAL FORM
 <UFEED><SB8F><BASE><AFIN><UFEED>% ARABIC LETTER WAW ISOLATED FORM
 <UFD8>"<SB8F><SB59><SB7F><SB83>"<BASE><BASE><BASE><BASE>"<AFIN><AFIN><AFIN><AFIN>"<UFD8>% ARABIC LIGATURE WASALLAM ISOLATED FORM
 <U06E5><SB90><BASE><MIN><U06E5>% ARABIC SMALL WAW
 <U06C4><SB91><BASE><MIN><U06C4>% ARABIC LETTER WAW WITH RING
 <U06C5><SB92><BASE><MIN><U06C5>% ARABIC LETTER KIRGHIZ OE
 <UFB1><SB92><BASE><AFIN><UFB1>% ARABIC LETTER KIRGHIZ OE FINAL FORM
 <UFB0><SB92><BASE><AFIN><UFB0>% ARABIC LETTER KIRGHIZ OE ISOLATED FORM
 <U06C6><SB93><BASE><MIN><U06C6>% ARABIC LETTER OE
 <UFBDA><SB93><BASE><AFIN><UFBDA>% ARABIC LETTER OE FINAL FORM
 <UFB9><SB93><BASE><AFIN><UFB9>% ARABIC LETTER OE ISOLATED FORM
 <U06C7><SB94><BASE><MIN><U06C7>% ARABIC LETTER U
 <UFB8><SB94><BASE><AFIN><UFB8>% ARABIC LETTER U FINAL FORM
 <UFB7><SB94><BASE><AFIN><UFB7>% ARABIC LETTER U ISOLATED FORM
 <U06C8><SB95><BASE><MIN><U06C8>% ARABIC LETTER YU
 <UFBDC><SB95><BASE><AFIN><UFBDC>% ARABIC LETTER YU FINAL FORM
 <UFBDB><SB95><BASE><AFIN><UFBDB>% ARABIC LETTER YU ISOLATED FORM
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 <UFB3><SB96><BASE><AFIN><UFB3>% ARABIC LETTER KIRGHIZ YU FINAL FORM
 <UFB2><SB96><BASE><AFIN><UFB2>% ARABIC LETTER KIRGHIZ YU ISOLATED FORM
 <U06CA><SB97><BASE><MIN><U06CA>% ARABIC LETTER WAW WITH TWO DOTS ABOVE
 <U06CB><SB98><BASE><MIN><U06CB>% ARABIC LETTER VE
 <UFBDF><SB98><BASE><AFIN><UFBDF>% ARABIC LETTER VE FINAL FORM
 <UFBDE><SB98><BASE><AFIN><UFBDE>% ARABIC LETTER VE ISOLATED FORM
 <U0649><SB99><BASE><MIN><U0649>% ARABIC LETTER ALEF MAKSURA
 <UFB8><SB99><BASE><AFIN><UFB8>% ARABIC LETTER UIGHUR KAZAKH KIRGHIZ ALEF MAKSURA INITIAL FORM
 <UFB9><SB99><BASE><AFIN><UFB9>% ARABIC LETTER UIGHUR KAZAKH KIRGHIZ ALEF MAKSURA MEDIAL FORM
 <UFEF0><SB99><BASE><AFIN><UFEF0>% ARABIC LETTER ALEF MAKSURA FINAL FORM
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 <UFC90><SB99><BASE><AFIN><UFC90>% ARABIC LIGATURE ALEF MAKSURA WITH SUPERSCRIPT ALEF FINAL FORM
 <UFC5D><SB99><BASE><AFIN><UFC5D>% ARABIC LIGATURE ALEF MAKSURA WITH SUPERSCRIPT ALEF ISOLATED FORM
 <U064A><SB9A><BASE><MIN><U064A>% ARABIC LETTER YEH
 <UFEF3><SB9A><BASE><AFIN><UFEF3>% ARABIC LETTER YEH INITIAL FORM
 <UFEF4><SB9A><BASE><AFIN><UFEF4>% ARABIC LETTER YEH MEDIAL FORM
 <UFEF2><SB9A><BASE><AFIN><UFEF2>% ARABIC LETTER YEH FINAL FORM
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 <UFCDA>"<SB9A><SB39>"<BASE><BASE>"<AFIN><AFIN>"<UFCDA>% ARABIC LIGATURE YEH WITH JEEM INITIAL FORM
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 <U06CC>"<SB9C><BASE><MIN>"<U06CC> % ARABIC LETTER FARSI YEH
 <UFBFE>"<SB9C><BASE><AINI>"<UFBFE> % ARABIC LETTER FARSI YEH INITIAL FORM
 <UFBFF>"<SB9C><BASE><AMED>"<UFBFF> % ARABIC LETTER FARSI YEH MEDIAL FORM
 <UFBFD>"<SB9C><BASE><AFIN>"<UFBFD> % ARABIC LETTER FARSI YEH FINAL FORM
 <UFBFC>"<SB9C><BASE><AI&O>"<UFBFC> % ARABIC LETTER FARSI YEH ISOLATED FORM
 <U06CD>"<SB9D><BASE><MIN>"<U06CD> % ARABIC LETTER YEH WITH TAIL
 <U06CE>"<SB9E><BASE><MIN>"<U06CE> % ARABIC LETTER YEH WITH SMALL V
 <U06D0>"<SB9F><BASE><MIN>"<U06D0> % ARABIC LETTER E
 <UFBE6>"<SB9F><BASE><AINI>"<UFBE6> % ARABIC LETTER E INITIAL FORM
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 <UFBE5>"<SB9F><BASE><AFIN>"<UFBE5> % ARABIC LETTER E FINAL FORM
 <UFBE4>"<SB9F><BASE><AI&O>"<UFBE4> % ARABIC LETTER E ISOLATED FORM
 <U06D1>"<SBA0><BASE><MIN>"<U06D1> % ARABIC LETTER YEH WITH THREE DOTS BELOW
 <U06D2>"<SBA1><BASE><MIN>"<U06D2> % ARABIC LETTER YEH BARREE
 <UFBFA>"<SBA1><BASE><AFIN>"<UFBFA> % ARABIC LETTER YEH BARREE FINAL FORM
 <UFBAE>"<SBA1><BASE><AI&O>"<UFBAE> % ARABIC LETTER YEH BARREE ISOLATED FORM
 <U06D3>"<SBA2><BASE><MIN>"<U06D3> % ARABIC LETTER YEH BARREE WITH HAMZA ABOVE
 <UFBFB1>"<SBA2><BASE><AFIN>"<UFBFB1> % ARABIC LETTER YEH BARREE WITH HAMZA ABOVE FINAL FORM
 <UFBBO>"<SBA2><BASE><AI&O>"<UFBBO> % ARABIC LETTER YEH BARREE WITH HAMZA ABOVE ISOLATED FORM
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 <U0902>"<SBA5><BASE><MIN>"<U0902> % DEVANAGARI SIGN ANUSVARA
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 <U0907>"<SBA9><BASE><MIN>"<U0907> % DEVANAGARI LETTER I
 <U0908>"<SBA&><BASE><MIN>"<U0908> % DEVANAGARI LETTER II
 <U0909>"<SBAB><BASE><MIN>"<U0909> % DEVANAGARI LETTER U
 <U090A>"<SBAC><BASE><MIN>"<U090A> % DEVANAGARI LETTER UU
 <U090B>"<SBAD><BASE><MIN>"<U090B> % DEVANAGARI LETTER VOCALIC R
 <U0960>"<SBAE><BASE><MIN>"<U0960> % DEVANAGARI LETTER VOCALIC RR
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 <U0914>"<SBB8><BASE><MIN>"<U0914> % DEVANAGARI LETTER AU
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 <U0918>"<SBBC><BASE><MIN>"<U0918> % DEVANAGARI LETTER GHA
 <U0919>"<SBBD><BASE><MIN>"<U0919> % DEVANAGARI LETTER NGA
 <U091A>"<SBBE><BASE><MIN>"<U091A> % DEVANAGARI LETTER CA
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<U09F1><SC1C>;<BASE>;<MIN>;<U09F1> % BENGALI LETTER RA WITH LOWER DIAGONAL
 <U09B6><SC1D>;<BASE>;<MIN>;<U09B6> % BENGALI LETTER SHA
 <U09B7><SC1E>;<BASE>;<MIN>;<U09B7> % BENGALI LETTER SSA
 <U09B8><SC1F>;<BASE>;<MIN>;<U09B8> % BENGALI LETTER SA
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 <U09BE><SC21>;<BASE>;<MIN>;<U09BE> % BENGALI VOWEL SIGN AA
 <U09BF><SC22>;<BASE>;<MIN>;<U09BF> % BENGALI VOWEL SIGN I
 <U09C0><SC23>;<BASE>;<MIN>;<U09C0> % BENGALI VOWEL SIGN II
 <U09C1><SC24>;<BASE>;<MIN>;<U09C1> % BENGALI VOWEL SIGN U
 <U09C2><SC25>;<BASE>;<MIN>;<U09C2> % BENGALI VOWEL SIGN UU
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 <U09C8><SC2B>;<BASE>;<MIN>;<U09C8> % BENGALI VOWEL SIGN AI
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 <U09CC><SC2D>;<BASE>;<MIN>;<U09CC> % BENGALI VOWEL SIGN AU
 <U09CD><SC2E>;<BASE>;<MIN>;<U09CD> % BENGALI SIGN VIRAMA
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 <U0A02><SC30>;<BASE>;<MIN>;<U0A02> % GURMUKHI SIGN BINDI
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 <U0C93><SD74>;<BASE>;<MIN>;<U0C93> % KANNADA LETTER OO
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 <U0C9D><SD7E>;<BASE>;<MIN>;<U0C9D> % KANNADA LETTER JHA
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 <U0CAA><SD8A>;<BASE>;<MIN>;<U0CAA> % KANNADA LETTER PA
 <U0CAB><SD8B>;<BASE>;<MIN>;<U0CAB> % KANNADA LETTER PHA
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 <U0CAF><SD8F>;<BASE>;<MIN>;<U0CAF> % KANNADA LETTER YA
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 <U0CCD><SDA7>;<BASE>;<MIN>;<U0CCD> % KANNADA SIGN VIRAMA
 <U0CD5><SDA8>;<BASE>;<MIN>;<U0CD5> % KANNADA LENGTH MARK
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 <U0D07><SDAE>;<BASE>;<MIN>;<U0D07> % MALAYALAM LETTER I
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 <U0D0B><SDB2>;<BASE>;<MIN>;<U0D0B> % MALAYALAM LETTER VOCALIC R
 <U0D60><SDB3>;<BASE>;<MIN>;<U0D60> % MALAYALAM LETTER VOCALIC RR
 <U0D0C><SDB4>;<BASE>;<MIN>;<U0D0C> % MALAYALAM LETTER VOCALIC L
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 <U0D10><SDB8>;<BASE>;<MIN>;<U0D10> % MALAYALAM LETTER AI
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 <U0D1C><SDC3>;<BASE>;<MIN>;<U0D1C> % MALAYALAM LETTER JA
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 <U0D28><SDCF>;<BASE>;<MIN>;<U0D28> % MALAYALAM LETTER NA
 <U0D2A><SDD0>;<BASE>;<MIN>;<U0D2A> % MALAYALAM LETTER PA
 <U0D2B><SDD1>;<BASE>;<MIN>;<U0D2B> % MALAYALAM LETTER PHA
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 <U0D3F><SDE1>;<BASE>;<MIN>;<U0D3F> % MALAYALAM VOWEL SIGN I
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<U0E30><SE1D>;<BASE>;<MIN>;<U0E30> % THAI CHARACTER SARA A
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 <U0E32><SE1F>;<BASE>;<MIN>;<U0E32> % THAI CHARACTER SARA AA
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 <U0E81><SE30>;<BASE>;<MIN>;<U0E81> % LAO LETTER KO
 <U0E82><SE31>;<BASE>;<MIN>;<U0E82> % LAO LETTER KHO SUNG
 <U0E84><SE32>;<BASE>;<MIN>;<U0E84> % LAO LETTER KHO TAM
 <U0E87><SE33>;<BASE>;<MIN>;<U0E87> % LAO LETTER NGO
 <U0E88><SE34>;<BASE>;<MIN>;<U0E88> % LAO LETTER GO
 <U0E8A><SE35>;<BASE>;<MIN>;<U0E8A> % LAO LETTER SO TAM
 <U0E8D><SE36>;<BASE>;<MIN>;<U0E8D> % LAO LETTER NYO
 <U0E94><SE37>;<BASE>;<MIN>;<U0E94> % LAO LETTER DO
 <U0E95><SE38>;<BASE>;<MIN>;<U0E95> % LAO LETTER TO
 <U0E96><SE39>;<BASE>;<MIN>;<U0E96> % LAO LETTER THO SUNG
 <U0E97><SE3A>;<BASE>;<MIN>;<U0E97> % LAO LETTER THO TAM
 <U0E99><SE3B>;<BASE>;<MIN>;<U0E99> % LAO LETTER NO
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 <U0E9B><SE3D>;<BASE>;<MIN>;<U0E9B> % LAO LETTER PO
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 <U0EA7><SE46>;<BASE>;<MIN>;<U0EA7> % LAO LETTER WO
 <U0EAA><SE47>;<BASE>;<MIN>;<U0EAA> % LAO LETTER SO SUNG
 <U0EAB><SE48>;<BASE>;<MIN>;<U0EAB> % LAO LETTER HO SUNG
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 <U0EAF><SE4B>;<BASE>;<MIN>;<U0EAF> % LAO ELLIPSIS
 <U0EB0><SE4C>;<BASE>;<MIN>;<U0EB0> % LAO VOWEL SIGN A
 <U0EB1><SE4D>;<BASE>;<MIN>;<U0EB1> % LAO VOWEL SIGN MAI KAN
 <U0EB2><SE4E>;<BASE>;<MIN>;<U0EB2> % LAO VOWEL SIGN AA
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 <U0EB4><SE4F>;<BASE>;<MIN>;<U0EB4> % LAO VOWEL SIGN I
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 <U0EBB><SE55>;<BASE>;<MIN>;<U0EBB> % LAO VOWEL SIGN MAI KON
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 <U0EBD><SE57>;<BASE>;<MIN>;<U0EBD> % LAO SEMIVOWEL SIGN NYO
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 <U0ECC><SE5D>;<BASE>;<MIN>;<U0ECC> % LAO CANCELLATION MARK
 <U0ECD><SE5E>;<BASE>;<MIN>;<U0ECD> % LAO NIGGAHITA
 <U0F7E><SE5F>;<BASE>;<MIN>;<U0F7E> % TIBETAN SIGN RJES SU NGA RO
 <U0F7F><SE60>;<BASE>;<MIN>;<U0F7F> % TIBETAN SIGN RNAM BCAD
 <U0F40><SE61>;<BASE>;<MIN>;<U0F40> % TIBETAN LETTER KA
 <U0F69>"<SE61><SE9C>;";<BASE><BASE>;";<MIN><MIN>;";<U0F69> % TIBETAN LETTER KSSA
 <U0F90><SE62>;<BASE>;<MIN>;<U0F90> % TIBETAN SUBJOINED LETTER KA
 <U0FB9>"<SE62><SE9C>;";<BASE><BASE>;";<MIN><MIN>;";<U0FB9> % TIBETAN SUBJOINED LETTER KSSA
 <U0F41><SE63>;<BASE>;<MIN>;<U0F41> % TIBETAN LETTER KHA
 <U0F91><SE64>;<BASE>;<MIN>;<U0F91> % TIBETAN SUBJOINED LETTER KHA
 <U0F42><SE65>;<BASE>;<MIN>;<U0F42> % TIBETAN LETTER GA
 <U0F43>"<SE65><SEA0>;";<BASE><BASE>;";<MIN><MIN>;";<U0F43> % TIBETAN LETTER GHA
 <U0F92><SE66>;<BASE>;<MIN>;<U0F92> % TIBETAN SUBJOINED LETTER GA
 <U0F93>"<SE66><SEA0>;";<BASE><BASE>;";<MIN><MIN>;";<U0F93> % TIBETAN SUBJOINED LETTER GHA
 <U0F44><SE67>;<BASE>;<MIN>;<U0F44> % TIBETAN LETTER NGA
 <U0F94><SE68>;<BASE>;<MIN>;<U0F94> % TIBETAN SUBJOINED LETTER NGA
 <U0F45><SE69>;<BASE>;<MIN>;<U0F45> % TIBETAN LETTER CA
 <U0F95><SE6A>;<BASE>;<MIN>;<U0F95> % TIBETAN SUBJOINED LETTER CA
 <U0F46><SE6B>;<BASE>;<MIN>;<U0F46> % TIBETAN LETTER CHA

<U0F47><SE6C>;<BASE>;<MIN>;<U0F47> % TIBETAN LETTER JA
 <U0F97><SE6D>;<BASE>;<MIN>;<U0F97> % TIBETAN SUBJOINED LETTER JA
 <U0F49><SE6E>;<BASE>;<MIN>;<U0F49> % TIBETAN LETTER NYA
 <U0F99><SE6F>;<BASE>;<MIN>;<U0F99> % TIBETAN SUBJOINED LETTER NYA
 <U0F4A><SE70>;<BASE>;<MIN>;<U0F4A> % TIBETAN LETTER TTA
 <U0F9A><SE71>;<BASE>;<MIN>;<U0F9A> % TIBETAN SUBJOINED LETTER TTA
 <U0F4B><SE72>;<BASE>;<MIN>;<U0F4B> % TIBETAN LETTER TTHA
 <U0F9B><SE73>;<BASE>;<MIN>;<U0F9B> % TIBETAN SUBJOINED LETTER TTHA
 <U0F4C><SE74>;<BASE>;<MIN>;<U0F4C> % TIBETAN LETTER DDA
 <U0F4D><SE74><SEA0>;<BASE><BASE>;<MIN><MIN>;<U0F4D> % TIBETAN LETTER DDHA
 <U0F9C><SE75>;<BASE>;<MIN>;<U0F9C> % TIBETAN SUBJOINED LETTER DDA
 <U0F9D><SE75><SEA0>;<BASE><BASE>;<MIN><MIN>;<U0F9D> % TIBETAN SUBJOINED LETTER DDHA
 <U0F4E><SE76>;<BASE>;<MIN>;<U0F4E> % TIBETAN LETTER NNA
 <U0F9E><SE77>;<BASE>;<MIN>;<U0F9E> % TIBETAN SUBJOINED LETTER NNA
 <U0F4F><SE78>;<BASE>;<MIN>;<U0F4F> % TIBETAN LETTER TA
 <U0F9F><SE79>;<BASE>;<MIN>;<U0F9F> % TIBETAN SUBJOINED LETTER TA
 <U0F50><SE7A>;<BASE>;<MIN>;<U0F50> % TIBETAN LETTER THA
 <U0FA0><SE7B>;<BASE>;<MIN>;<U0FA0> % TIBETAN SUBJOINED LETTER THA
 <U0F51><SE7C>;<BASE>;<MIN>;<U0F51> % TIBETAN LETTER DA
 <U0F52><SE7C><SEA0>;<BASE><BASE>;<MIN><MIN>;<U0F52> % TIBETAN LETTER DHA
 <U0FA1><SE7D>;<BASE>;<MIN>;<U0FA1> % TIBETAN SUBJOINED LETTER DA
 <U0FA2><SE7D><SEA0>;<BASE><BASE>;<MIN><MIN>;<U0FA2> % TIBETAN SUBJOINED LETTER DHA
 <U0F53><SE7E>;<BASE>;<MIN>;<U0F53> % TIBETAN LETTER NA
 <U0FA3><SE7F>;<BASE>;<MIN>;<U0FA3> % TIBETAN SUBJOINED LETTER NA
 <U0F54><SE80>;<BASE>;<MIN>;<U0F54> % TIBETAN LETTER PA
 <U0FA4><SE81>;<BASE>;<MIN>;<U0FA4> % TIBETAN SUBJOINED LETTER PA
 <U0F55><SE82>;<BASE>;<MIN>;<U0F55> % TIBETAN LETTER PHA
 <U0FA5><SE83>;<BASE>;<MIN>;<U0FA5> % TIBETAN SUBJOINED LETTER PHA
 <U0F56><SE84>;<BASE>;<MIN>;<U0F56> % TIBETAN LETTER BA
 <U0F57><SE84><SEA0>;<BASE><BASE>;<MIN><MIN>;<U0F57> % TIBETAN LETTER BHA
 <U0FA6><SE85>;<BASE>;<MIN>;<U0FA6> % TIBETAN SUBJOINED LETTER BA
 <U0FA7><SE85><SEA0>;<BASE><BASE>;<MIN><MIN>;<U0FA7> % TIBETAN SUBJOINED LETTER BHA
 <U0F58><SE86>;<BASE>;<MIN>;<U0F58> % TIBETAN LETTER MA
 <U0FA8><SE87>;<BASE>;<MIN>;<U0FA8> % TIBETAN SUBJOINED LETTER MA
 <U0F59><SE88>;<BASE>;<MIN>;<U0F59> % TIBETAN LETTER TSA
 <U0FA9><SE89>;<BASE>;<MIN>;<U0FA9> % TIBETAN SUBJOINED LETTER TSA
 <U0F5A><SE8A>;<BASE>;<MIN>;<U0F5A> % TIBETAN LETTER TSHA
 <U0FAA><SE8B>;<BASE>;<MIN>;<U0FAA> % TIBETAN SUBJOINED LETTER TSHA
 <U0F5B><SE8C>;<BASE>;<MIN>;<U0F5B> % TIBETAN LETTER DZA
 <U0F5C><SE8C><SEA0>;<BASE><BASE>;<MIN><MIN>;<U0F5C> % TIBETAN LETTER DZHA
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 <U0FAD><SE8F>;<BASE>;<MIN>;<U0FAD> % TIBETAN SUBJOINED LETTER WA
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 <U0F5F><SE91>;<BASE>;<MIN>;<U0F5F> % TIBETAN LETTER ZA
 <U0F60><SE92>;<BASE>;<MIN>;<U0F60> % TIBETAN LETTER -A
 <U0F61><SE93>;<BASE>;<MIN>;<U0F61> % TIBETAN LETTER YA
 <U0FB1><SE94>;<BASE>;<MIN>;<U0FB1> % TIBETAN SUBJOINED LETTER YA
 <U0F62><SE95>;<BASE>;<MIN>;<U0F62> % TIBETAN LETTER RA
 <U0FB2><SE96>;<BASE>;<MIN>;<U0FB2> % TIBETAN SUBJOINED LETTER RA
 <U0F63><SE97>;<BASE>;<MIN>;<U0F63> % TIBETAN LETTER LA
 <U0FB3><SE98>;<BASE>;<MIN>;<U0FB3> % TIBETAN SUBJOINED LETTER LA
 <U0F64><SE99>;<BASE>;<MIN>;<U0F64> % TIBETAN LETTER SHA
 <U0FB4><SE9A>;<BASE>;<MIN>;<U0FB4> % TIBETAN SUBJOINED LETTER SHA
 <U0F65><SE9B>;<BASE>;<MIN>;<U0F65> % TIBETAN LETTER SSA
 <U0FB5><SE9C>;<BASE>;<MIN>;<U0FB5> % TIBETAN SUBJOINED LETTER SSA
 <U0F66><SE9D>;<BASE>;<MIN>;<U0F66> % TIBETAN LETTER SA
 <U0FB6><SE9E>;<BASE>;<MIN>;<U0FB6> % TIBETAN SUBJOINED LETTER SA
 <U0F67><SE9F>;<BASE>;<MIN>;<U0F67> % TIBETAN LETTER HA
 <U0FB7><SEA0>;<BASE>;<MIN>;<U0FB7> % TIBETAN SUBJOINED LETTER HA
 <U0F68><SEA1>;<BASE>;<MIN>;<U0F68> % TIBETAN LETTER A
 <U0F00><SEA1><SEB3><SE5F>;<BASE><BASE><BASE>;<COMPAT><COMPAT><COMPAT>;<U0F00> % TIBETAN SYLLABLE OM
 <U0F88><SEA2>;<BASE>;<MIN>;<U0F88> % TIBETAN SIGN LCE TSA CAN
 <U0F89><SEA3>;<BASE>;<MIN>;<U0F89> % TIBETAN SIGN MCHU CAN
 <U0F8A><SEA4>;<BASE>;<MIN>;<U0F8A> % TIBETAN SIGN GRU CAN RGYINGS
 <U0F8B><SEA5>;<BASE>;<MIN>;<U0F8B> % TIBETAN SIGN GRU MED RGYINGS
 <U0F71><SEA6>;<BASE>;<MIN>;<U0F71> % TIBETAN VOWEL SIGN AA
 <U0F72><SEA7>;<BASE>;<MIN>;<U0F72> % TIBETAN VOWEL SIGN I
 <U0F73><SEA8>;<BASE>;<MIN>;<U0F73> % TIBETAN VOWEL SIGN II
 <U0F80><SEA9>;<BASE>;<MIN>;<U0F80> % TIBETAN VOWEL SIGN REVERSED I
 <U0F81><SEAA>;<BASE>;<MIN>;<U0F81> % TIBETAN VOWEL SIGN REVERSED II
 <U0F74><SEAB>;<BASE>;<MIN>;<U0F74> % TIBETAN VOWEL SIGN U
 <U0F75><SEAC>;<BASE>;<MIN>;<U0F75> % TIBETAN VOWEL SIGN UU
 <U0F76><SEAD>;<BASE>;<MIN>;<U0F76> % TIBETAN VOWEL SIGN VOCALIC R
 <U0F77><SEAE>;<BASE>;<MIN>;<U0F77> % TIBETAN VOWEL SIGN VOCALIC RR
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 <U0F79><SEB0>;<BASE>;<MIN>;<U0F79> % TIBETAN VOWEL SIGN VOCALIC LL
 <U0F7A><SEB1>;<BASE>;<MIN>;<U0F7A> % TIBETAN VOWEL SIGN E
 <U0F7B><SEB2>;<BASE>;<MIN>;<U0F7B> % TIBETAN VOWEL SIGN EE
 <U0F7C><SEB3>;<BASE>;<MIN>;<U0F7C> % TIBETAN VOWEL SIGN O
 <U0F7D><SEB4>;<BASE>;<MIN>;<U0F7D> % TIBETAN VOWEL SIGN OO
 <U0F84><SEB5>;<BASE>;<MIN>;<U0F84> % TIBETAN MARK HALANTA
 <U1100><SEB6>;<BASE>;<MIN>;<U1100> % HANGUL CHOSEONG KIYEOK
 <U3131><SEB6>;<BASE>;<COMPAT>;<U3131> % HANGUL LETTER KIYEOK
 <U3200><SEB6>;<BASE>;<COMPAT>;<U3200> % PARENTHESIZED HANGUL KIYEOK
 <U3260><SEB6>;<BASE>;<CIRCLE>;<U3260> % CIRCLED HANGUL KIYEOK

<UFFA1><SEB6><BASE><NARROW><UFFA1> % HALFWIDTH HANGUL LETTER KIYEOK
 <U320E><SEB6><SF12><BASE><BASE><COMPAT><COMPAT><U320E> % PARENTHESIZED HANGUL KIYEOK-A
 <U326E><SEB6><SF12><BASE><BASE><CIRCLE><CIRCLE><U326E> % CIRCLED HANGUL KIYEOK-A
 <U1101><SEB7><BASE><MIN><U1101> % HANGUL CHOSEONG SSANGKIYEOK
 <U3132><SEB7><BASE><COMPAT><U3132> % HANGUL LETTER SSANGKIYEOK
 <UFFA2><SEB7><BASE><NARROW><UFFA2> % HALFWIDTH HANGUL LETTER SSANGKIYEOK
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 <U3134><SEB8><BASE><COMPAT><U3134> % HANGUL LETTER NIEUN
 <U3201><SEB8><BASE><COMPAT><U3201> % PARENTHESIZED HANGUL NIEUN
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 <U320F><SEB8><SF12><BASE><BASE><COMPAT><COMPAT><U320F> % PARENTHESIZED HANGUL NIEUN-A
 <U326F><SEB8><SF12><BASE><BASE><CIRCLE><CIRCLE><U326F> % CIRCLED HANGUL NIEUN-A
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 <U3137><SEB9><BASE><COMPAT><U3137> % HANGUL LETTER TIKEUT
 <U3202><SEB9><BASE><COMPAT><U3202> % PARENTHESIZED HANGUL TIKEUT
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 <U1104><SEBA><BASE><MIN><U1104> % HANGUL CHOSEONG SSANGTIKEUT
 <U3138><SEBA><BASE><COMPAT><U3138> % HANGUL LETTER SSANGTIKEUT
 <UFFA8><SEBA><BASE><NARROW><UFFA8> % HALFWIDTH HANGUL LETTER SSANGTIKEUT
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 <U3142><SEBD><BASE><COMPAT><U3142> % HANGUL LETTER PIEUP
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 <U3143><SEBE><BASE><COMPAT><U3143> % HANGUL LETTER SSANGPIEUP
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 <U3145><SEBF><BASE><COMPAT><U3145> % HANGUL LETTER SIOS
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 <U3149><SEC3><BASE><COMPAT><U3149> % HANGUL LETTER SSANGCIEUC
 <UFFB9><SEC3><BASE><NARROW><UFFB9> % HALFWIDTH HANGUL LETTER SSANGCIEUC
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 <U314B><SEC5><BASE><COMPAT><U314B> % HANGUL LETTER KHIEUKH
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 <U326A><SEC5><BASE><CIRCLE><U326A> % CIRCLED HANGUL KHIEUKH
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<U112B> <SEE1> <BASE> <MIN> <U112B> % HANGUL CHOSEONG KAPYEOUNPIEUP
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 <U1153><SF09><BASE><MIN><U1153> % HANGUL CHOSEONG CHIEUCH-HIEUH
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 <U1161><SF12><BASE><MIN><U1161> % HANGUL JUNGSEONG-A
 <U314F><SF12><BASE><COMPAT><U314F> % HANGUL LETTER A
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 <U3150><SF13><BASE><COMPAT><U3150> % HANGUL LETTER AE
 <U1163><SF14><BASE><MIN><U1163> % HANGUL JUNGSEONG-YA
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 <U3154><SF17><BASE><COMPAT><U3154> % HANGUL LETTER E
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 <U3156><SF19><BASE><COMPAT><U3156> % HANGUL LETTER YE
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 <U3157><SF1A><BASE><COMPAT><U3157> % HANGUL LETTER O
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 <U3160><SF23><BASE><COMPAT><U3160>% HANGUL LETTER YU
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 <U3161><SF24><BASE><COMPAT><U3161>% HANGUL LETTER EU
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 <U3162><SF25><BASE><COMPAT><U3162>% HANGUL LETTER YI
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 <U11D4><SF80>;<BASE>;<MIN>;<U11D4> % HANGUL JONGSEONG-RIEUL-PIEUP-HIEUH
 <U11D5><SF81>;<BASE>;<MIN>;<U11D5> % HANGUL JONGSEONG-RIEUL-KAPYEOUNPIEUP
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 <U11E2><SF8E>;<BASE>;<MIN>;<U11E2> % HANGUL JONGSEONG-KAPYEOUNMIEUM
 <U11E3><SF8F>;<BASE>;<MIN>;<U11E3> % HANGUL JONGSEONG-PIEUP-RIEUL
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 <U11F5><SFA1>;<BASE>;<MIN>;<U11F5> % HANGUL JONGSEONG-HIEUH-NIEUN

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 <U11F7><SFA3><BASE><MIN><U11F7>% HANGUL JONGSEONG HIEUH MIEUM
 <U11F8><SFA4><BASE><MIN><U11F8>% HANGUL JONGSEONG HIEUH PIEUP
 <U11F9><SFA5><BASE><MIN><U11F9>% HANGUL JONGSEONG YEORINHIEUH
 <U3041><SFA6><BASE><HIRA SMALL><U3041>% HIRAGANA LETTER SMALL A
 <U3042><SFA6><BASE><HIRA><U3042>% HIRAGANA LETTER A
 <U30A1><SFA6><BASE><SMALL><U30A1>% KATAKANA LETTER SMALL A
 <UFF67><SFA6><BASE><SMALL NARROW><UFF67>% HALFWIDTH KATAKANA LETTER SMALL A
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 <UFF71><SFA6><BASE><NARROW><UFF71>% HALFWIDTH KATAKANA LETTER A
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 <U3300><SFA6><SFBF><S2A3><SFB9><BASE><BASE><KNSMV><BASE><BASE><SQUARED><SQUARED><MIN><SQUARED><SQUARED><U3300>%
 SQUARE APAATO
 <U3301><SFA6><SFC6><SFC1><SFA6><BASE><BASE><BASE><BASE><SQUARED><SQUARED><SQUARED><SQUARED><U3301>% SQUARE ARUHUA
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 SQUARE ANPEA
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 <U3044><SFA7><BASE><HIRA><U3044>% HIRAGANA LETTER I
 <U30A3><SFA7><BASE><SMALL><U30A3>% KATAKANA LETTER SMALL I
 <UFF68><SFA7><BASE><SMALL NARROW><UFF68>% HALFWIDTH KATAKANA LETTER SMALL I
 <U30A4><SFA7><BASE><KATA><U30A4>% KATAKANA LETTER I
 <UFF72><SFA7><BASE><NARROW><UFF72>% HALFWIDTH KATAKANA LETTER I
 <U32D1><SFA7><BASE><CIRCLE KATA><U32D1>% CIRCLED KATAKANA I
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 SQUARE ININGU
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 <U3045><SFA8><BASE><HIRA SMALL><U3045>% HIRAGANA LETTER SMALL U
 <U3046><SFA8><BASE><HIRA><U3046>% HIRAGANA LETTER U
 <U30A5><SFA8><BASE><SMALL><U30A5>% KATAKANA LETTER SMALL U
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 <U30A6><SFA8><BASE><KATA><U30A6>% KATAKANA LETTER U
 <UFF73><SFA8><BASE><NARROW><UFF73>% HALFWIDTH KATAKANA LETTER U
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 <U3047><SFA9><BASE><HIRA SMALL><U3047>% HIRAGANA LETTER SMALL E
 <U3048><SFA9><BASE><HIRA><U3048>% HIRAGANA LETTER E
 <U30A7><SFA9><BASE><SMALL><U30A7>% KATAKANA LETTER SMALL E
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 <U304A><SFAA><BASE><HIRA><U304A>% HIRAGANA LETTER O
 <U30A9><SFAA><BASE><SMALL><U30A9>% KATAKANA LETTER SMALL O
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 <U30F5><SFAB><BASE><SMALL><U30F5>% KATAKANA LETTER SMALL KA
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 <U304D><SFAC><BASE><HIRA><U304D>% HIRAGANA LETTER KI
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 SQUARE GIRUDAA
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 <U3315>
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 <U30F6><SFAE>:"<BASE>:"<SMALL>:"<U30F6> % KATAKANA LETTER SMALL KE
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 <U3068><SFB9><BASE><HIRA><U3068>% HIRAGANA LETTER TO
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 <U30C9><SFB9><BASE><KNVCE><KATA><MIN><U30C9>% KATAKANA LETTER DO
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 <UFF86><SFB B><BASE><NARROW><UFF86>% HALFWIDTH KATAKANA LETTER NI
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 SQUARE BAARERU
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 <U30D8><SFC2><BASE><KATA><U30D8> % KATAKANA LETTER HE
 <UFF8D><SFC2><BASE><NARROW><UFF8D> % HALFWIDTH KATAKANA LETTER HE
 <U32EC><SFC2><BASE><CIRCLE KATA><U32EC> % CIRCLED KATAKANA HE
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 <U30DA><SFC2><BASE><KNSMV><KATA><MIN>";<U30DA> % KATAKANA LETTER PE
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 <UFF8E><SFC3><BASE><NARROW><UFF8E> % HALFWIDTH KATAKANA LETTER HO
 <U32ED><SFC3><BASE><CIRCLE KATA><U32ED> % CIRCLED KATAKANA HO
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 SQUARE POINTO
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 SQUARE MANSYON
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 <U30E0><SFC6><BASE><KATA><U30E0> % KATAKANA LETTER MU
 <UFF91><SFC6><BASE><NARROW><UFF91> % HALFWIDTH KATAKANA LETTER MU
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 SQUARE MEGATON
 <U3082><SFC8><BASE><HIRA><U3082> % HIRAGANA LETTER MO
 <U30E2><SFC8><BASE><KATA><U30E2> % KATAKANA LETTER MO
 <UFF93><SFC8><BASE><NARROW><UFF93> % HALFWIDTH KATAKANA LETTER MO
 <U32F2><SFC8><BASE><CIRCLE KATA><U32F2> % CIRCLED KATAKANA MO
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 <U30E3><SFC9><BASE><SMALL><U30E3> % KATAKANA LETTER SMALL YA
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 <U30FA><SFD4>""<BASE><KNVCE>""<KATA><MIN>""<U30FA>% KATAKANA LETTER VO
 <U3093><SFD5><BASE><HIRA><U3093>% HIRAGANA LETTER N
 <U30F3><SFD5><BASE><KATA><U30F3>% KATAKANA LETTER N
 <UFF9D><SFD5><BASE><NARROW><UFF9D>% HALFWIDTH KATAKANA LETTER N
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 <U3105><SFD7><BASE><MIN><U3105>% BOPOMOFO LETTER B
 <U3106><SFD8><BASE><MIN><U3106>% BOPOMOFO LETTER P
 <U3107><SFD9><BASE><MIN><U3107>% BOPOMOFO LETTER M
 <U3108><SFDA><BASE><MIN><U3108>% BOPOMOFO LETTER F
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 <U3109><SFDC><BASE><MIN><U3109>% BOPOMOFO LETTER D
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 <U310C><SFDF><BASE><MIN><U310C>% BOPOMOFO LETTER L
 <U310D><SFE0><BASE><MIN><U310D>% BOPOMOFO LETTER G
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 <U312B><SFE2><BASE><MIN><U312B>% BOPOMOFO LETTER NG
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 <U3115><SFEA><BASE><MIN><U3115>% BOPOMOFO LETTER SH
 <U3116><SFEB><BASE><MIN><U3116>% BOPOMOFO LETTER R
 <U3117><SFEC><BASE><MIN><U3117>% BOPOMOFO LETTER Z
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 <U311B><SFF5><BASE><MIN><U311B> % BOPOMOFO LETTER O
 <U311C><SFF1><BASE><MIN><U311C> % BOPOMOFO LETTER E
 <U311D><SFF2><BASE><MIN><U311D> % BOPOMOFO LETTER EH
 <U311E><SFF3><BASE><MIN><U311E> % BOPOMOFO LETTER AI
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 <U32A2><S5199><BASE><CIRCLE><U32A2> % CIRCLED IDEOGRAPHS COPY
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 <UFA28><SFA28>;<BASE>;<MIN>;<UFA28> % CJK COMPATIBILITY IDEOGRAPH FA28
 <UFA29><SFA29>;<BASE>;<MIN>;<UFA29> % CJK COMPATIBILITY IDEOGRAPH FA29

% Weights for unified Han characters follow the Unified Repertoire and
 Ordering, which is a language neutral, traditional radical-stroke order.

<U4E00>..<U9FA5>..<S4E00>..<S9FA5>;<BLANK>;<MIN>;<U4E00>..<U9FA5> % Han

% Weights for Hangul syllables are built by equivalences to the sequence of
 corresponding jamo weights for the characters U+1100..U+11F9.

<UAC00>..<UD7A3>..<SAC00>..<SD7A3>;<BLANK>;<MIN>;<UAC00>..<UD7A3> % Hangul

~~% A Hangul tailoring for a system which does not use combining jamos
% may choose to simply weight the Hangul syllables directly as shown above.
collating symbol <SFFFF> % Guaranteed largest symbol value. Keep at end of table~~

UNDEFINED % For all unsupported characters to be treated as unweighted.

% order_end

% END LC_COLLATE

% Uncomment the line above to create a 14652-style
% LC_COLLATE definition.

Annex B – Tailoring deltas (informative)

B.1 Example 1 – Canadian delta and benchmark

This annex describes benchmark 1, based on Canadian standard CAN/CSA Z243.4.1-1998 (and -1992). The delta that precedes the benchmark *has been simplified* for illustration here; a larger delta is required, mainly for special characters, for full conformance to this Canadian standard, and is given here as an example only, limited to what is required for the benchmark. For complete information the Canadian standard CAN/CSA Z243.4.1 should be consulted.– The example's specifications are to be performed using the Common Template Table of annex A, with the following delta:

5.1. Processing properties:

~~order_start~~ <TABLE>; forward; backward; forward; forward; position

6.2. Number of levels unchanged to 4.

7.3. No symbol change.

8.4. No other insertion, deletion or redefinition than:

- æ sorted as if it were separate letters "ae" at level 1. The letters "ae" are distinguished at level 2 from the character "æ" and are sorted before it. Upper case is distinguished from lower case at level 3.
- ð sorted as if it were the letter "d" at level 1. The letter "ð" is distinguished at level 2 from the letter "d" and is sorted after it. Upper case is distinguished from lower case at level 3.
- þ sorted as if it were separate letters "th" at level 1. The letters "th" are distinguished at level 2 from the letter "þ" and are sorted before it. Upper case is distinguished from lower case at level 3.

Alternate formal ISO/IEC DTR 14652 tailoring equivalent

```
% copy ISO14651 2000 TABLE1
reorder-after <SFFF>
order_start forward;backward;forward;forward;position
reorder-after <U00C6>
<U00E6> "<S0061><S0065>"; "<BASE><VRNT1><BASE>"; "<MIN><COMPAT><MIN>"; <U00E6> % æ
<U00C6> "<S0061><S0065>"; "<BASE><VRNT1><BASE>"; "<CAP><COMPAT><CAP>"; <U00C6> % Æ
reorder-after <U00D0>
<U00F0> <S0064>; <VRNT1>; <MIN>; <U00F0> % ð
<U00D0> <S0064>; <VRNT1>; <CAP>; <U00D0> % Ð
reorder-after <U00DE>
<U00FE> "<S0074><S0068>"; "<BASE><VRNT1><BASE>"; "<MIN><COMPAT><MIN>"; <U00FE> % þ
<U00DE> "<S0074><S0068>"; "<BASE><VRNT1><BASE>"; "<CAP><COMPAT><CAP>"; <U00DE> % Þ
reorder-end
% copy ISO14651 1999 TABLE1
order_start TABLE;forward;backward;forward;forward;position
reorder-after <U00C6>
<U00E6> <S6CD><S72D>; <COMPAT><COMPAT>; <MIN><MIN>; IGNORE % <ae>
<U00C6> <S6CD><S72D>; <COMPAT><COMPAT>; <CAP><CAP>; IGNORE % <AE>
reorder-after <U1E0E>
<U00F0> <S705>; <COMPAT>; <MIN>; IGNORE % <d>
<U00D0> <S705>; <COMPAT>; <CAP>; IGNORE % <D>
reorder-after <U2122>
<U00FE> <S88B><S781>; <COMPAT><COMPAT>; <MIN><MIN>; IGNORE % <th>
<U00DE> <S88B><S781>; <COMPAT><COMPAT>; <CAP><CAP>; IGNORE % <TH>
reorder-end
```

1 Unordered list (required test as per Canadian standard CAN/CSA Z243.4.1-1998 plus additions)

ou	Canon	côté
lésé	lame	coté
péché	Bohême	aide
vice-président	0000	air
9999	relève	vice-president
OÙ	gène	modélé
haïe	casanier	Thorvardur
coop	élevé	MODÈLE
caennais	COTÉ	maçon
lèse	relevé	MÂCON
dû	Grossist	pêche
air@@@	vice-presidents' offices	pêché
côlon	Copenhagen	medalovoïde
bohème	côte	pechère
géné	McArthur	ode
međal	Mc Mahon	péchère
lamé	Aalborg	œil
pêche	Größe	
LÈS	vice-president's offices	
vice versa	cølibat	
C.A.F.	PÉCHÉ	
Þorsmörk	COOP	
cæsium	@@@air	
resumé	VICE-VERSA	
Bohémien	gêne	
co-op	CO-OP	
pêcher	révélé	
les	révèle	
CÔTÉ	ça et là	
résumé	MacArthur	
Ålborg	Noël	
cañon	île	
du	aïeul	
haie	Île d'Orléans	
pécher	nôtre	
Mc Arthur	notre	
cote	août	
colon	NOËL	
l'âme	@@@@@	
resume	L'Hay-les-Roses	
élève	CÔTE	
Þorvarður	COTE	

2 List with required results as per Canadian standard CAN/CSA Z243.4.1-1998

@@@@@	gêné	relève
0000	Größe	relevé
9999	Grossist	resume
Aalborg	haie	resumé
aide	haïe	résumé
aïeul	île	révèle
air	Île d'Orléans	révélé
@@@air	lame	Þorsmörk
air@@@	l'âme	Thorvardur
Ålborg	lamé	Þorvarður
août	les	vice-president
bohème	LÈS	vice-président
Bohême	lèse	vice-president's offices
Bohémien	lésé	vice-presidents' offices
caennais	L'Hay-les-Roses	vice versa
cæsius	MacArthur	VICE-VERSA
çà et là	MÂCON	
C.A.F.	maçon	
Canon	medal	
cañon	međal	
casanier	McArthur	
cølibat	Mc Arthur	
colon	Mc Mahon	
côlon	MODÈLE	
coop	modelé	
co-op	Noël	
COOP	NOËL	
CO-OP	notre	
Copenhagen	nôtre	
cote	ode	
COTE	œil	
côte	ou	
CÔTE	OÙ	
coté	ovoïde	
COTÉ	pêche	
côté	pêche	
CÔTÉ	péché	
du	PÉCHÉ	
dû	pêché	
élève	pécher	
élevé	pêcher	
gène	pechère	
gêne	péchère	

B.2 Example 2 – Danish delta and benchmark

The following is a Danish delta tailoring example. This formal specification corresponds to Danish standard DS 377 and to "Retskrivningsordbogen", the Danish orthography specification.

```
% This tailoring is in accordance with Danish Standard DS 377 (1980)
% and the Danish Orthography Dictionary (Retskrivningsordbogen, 1986).
% It is also in accordance with Greenlandic orthography.

% copy ISO14651 2000 TABLE1

% Define collating elements for a-ring and its decompositions
collating-element <AA> % a-ring symbolic weight
collating-element <A-ring> from "<U0041><U030A>" % decomposition of Å
collating-element <a-ring> from "<U0061><U030A>" % decomposition of å
collating-element <A-ring-acute> from "<U0041><U030A><U0301>" % decomposition of Å WITH ACUTE
collating-element <a-ring-acute> from "<U0061><U030A><U0301>" % decomposition of å WITH ACUTE
% Define collating elements for sequences of a+a
collating-element <A-A> from "<U0041><U0041>"
collating-element <A-a> from "<U0041><U0061>"
collating-element <a-A> from "<U0061><U0041>"
collating-element <a-a> from "<U0061><U0061>"
% Define collating elements for decompositions of ü, u-doubleacute, ö, and o-doubleacute
collating-element <U-diaeresis> from "<U0055><U0308>" % decomposition of Ü
collating-element <u-diaeresis> from "<U0075><U0308>" % decomposition of ü
collating-element <U-doubleacute> from "<U0055><U030B>" % decomposition of U WITH DOUBLE ACUTE
collating-element <u-doubleacute> from "<U0075><U030B>" % decomposition of u with double acute
collating-element <O-diaeresis> from "<U004F><U0308>" % decomposition of Ö
collating-element <o-diaeresis> from "<U006F><U0308>" % decomposition of ö
collating-element <O-doubleacute> from "<U004F><U030B>" % decomposition of O WITH DOUBLE ACUTE
collating-element <o-doubleacute> from "<U006F><U030B>" % decomposition of o with double acute
% Make capital letters sort before lowercase.
% Cf. example 3 for more explanation.
reorder-after <CIRCLECAP>
<MIN>
<WIDE>
<COMPAT>
<FONT>
<CIRCLE>
% Reorder Æ, Ø, and Å at the end of the alphabet, after thorn (Ð).
reorder-after <S00FE> % thorn
<S00E6> % Æ
<S00F8> % Ø
<AA> % Å
% Add the obligatory order start line.
reorder-after <SFFFF>
order start forward;backward;forward;forward,position
% A list of reweighting statements to deal with specific
% Danish behavior. All of these define or redefine weight list's,
% and so the entire block could simply be reordered after the
% last entry in the table. However, for clarity here and for
% stability, each separate set of weightings is reordered locally in the
% table around the first entry for that set of weightings.
% Space, hyphen-minus, and solidus are given a primary weight
% before any letter or digit, with hyphen-minus and solidus
% given a secondary difference from the weight for space.
reorder-after <U0020>
<U0020> <S0020>;<BASE>;<MIN>;<U0020> % SPACE
<U002D> <S0020>;<BASE><VRNT1>;<MIN><MIN>;<U002D> % HYPHEN-MINUS
<U002F> <S0020>;<BASE><VRNT2>;<MIN><MIN>;<U002F> % SOLIDUS
% The letter kra (for Greenlandic) is equated to a lowercase q,
% with a secondary difference to distinguish it from q itself.
reorder-after <U0138>
<U0138> <S0138>;<BASE><VRNT1>;<MIN><MIN>;<U0138> % LATIN SMALL LETTER KRA
% The letter thorn is treated as a sequence of t + h, with a variant weight
% at the secondary level (comparable to the treatment of sharp-s).
```

```

reorder-after <U00DE>
<U00DE> "<S0074><S0068>";"<BASE><VRNT1><BASE>";"<CAP><COMPAT><CAP>";<U00DE> % ɔ̇
<U00FE> "<S0074><S0068>";"<BASE><VRNT1><BASE>";"<MIN><COMPAT><MIN>";<U00FE> % ɔ̈
% The letters u-diaeresis and u-double-acute are given the same primary
% weight as y, with unique variant weights at the secondary level.
reorder-after <U00DC>
<U00DC> <S0079>";"<BASE><VRNT1>";"<CAP><MIN>";<U00DC> % Ů
<U00FC> <S0079>";"<BASE><VRNT1>";"<MIN><MIN>";<U00FC> % ů
<U0170> <S0079>";"<BASE><VRNT2>";"<CAP><MIN>";<U0170> % U WITH DOUBLE ACUTE
<U0171> <S0079>";"<BASE><VRNT2>";"<MIN><MIN>";<U0171> % u with double acute
% And replicate the weighting for the collating-element's formed from the decompositions.
<U-diaeresis> <S0079>";"<BASE><VRNT1>";"<CAP><MIN>";<U00DC> % Ů
<u-diaeresis> <S0079>";"<BASE><VRNT1>";"<MIN><MIN>";<U00FC> % ů
<U-doubleacute> <S0079>";"<BASE><VRNT2>";"<CAP><MIN>";<U0170> % U WITH DOUBLE ACUTE
<u-doubleacute> <S0079>";"<BASE><VRNT2>";"<MIN><MIN>";<U0171> % u with double acute
% The letters o-diaeresis and o-double-acute are given the same primary
% weight as o-stroke, with unique variant weights at the secondary level.
reorder-after <U00D6>
<U00D6> <S00F8>";"<BASE><VRNT1>";"<CAP><MIN>";<U00D6> % Ö
<U00F6> <S00F8>";"<BASE><VRNT1>";"<MIN><MIN>";<U00F6> % ö
<U0150> <S00F8>";"<BASE><VRNT2>";"<CAP><MIN>";<U0150> % O WITH DOUBLE ACUTE
<U0151> <S00F8>";"<BASE><VRNT2>";"<MIN><MIN>";<U0151> % o with double acute
% And replicate the weighting for the collating-element's formed from the decompositions.
<O-diaeresis> <S00F8>";"<BASE><VRNT1>";"<CAP><MIN>";<U00D6> % Ö
<o-diaeresis> <S00F8>";"<BASE><VRNT1>";"<MIN><MIN>";<U00F6> % ö
<O-doubleacute> <S00F8>";"<BASE><VRNT2>";"<CAP><MIN>";<U0150> % O WITH DOUBLE ACUTE
<o-doubleacute> <S00F8>";"<BASE><VRNT2>";"<MIN><MIN>";<U0151> % o with double acute
% The letter a-ring is weighted following the letter o-stroke (see above)
reorder-after <U00C5>
<U00C5> <AA>;<BASE>;<CAP>;<U00C5> % Å
<U00E5> <AA>;<BASE>;<CAP>;<U00E5> % å
<U01FA> <AA>;<BASE><AIGUT>;<CAP><MIN>;<U01FA> % Å WITH ACUTE
<U01FB> <AA>;<BASE><AIGUT>;<MIN><MIN>;<U01FB> % å WITH RING ABOVE AND ACUTE
% And replicate the weighting for the collating-element's formed from the decompositions.
<A-ring> <AA>;<BASE>;<CAP>;<U00C5> % Å
<a-ring> <AA>;<BASE>;<CAP>;<U00E5> % å
<A-ring-acute> <AA>;<BASE><AIGUT>;<CAP><MIN>;<U01FA> % Å WITH ACUTE
<a-ring-acute> <AA>;<BASE><AIGUT>;<MIN><MIN>;<U01FB> % å WITH ACUTE
% The sequences of letters a+a are weighted as secondary variants of a-ring
<A-A> <AA>;<BASE><VRNT1>;<CAP><CAP>;<U0041><U0041> % AA
<A-a> <AA>;<BASE><VRNT1>;<CAP><MIN>;<U0041><U0061> % Aa
<a-A> <AA>;<BASE><VRNT1>;<MIN><CAP>;<U0061><U0041> % aA
<a-a> <AA>;<BASE><VRNT1>;<MIN><MIN>;<U0061><U0061> % aa
reorder-end
% End of the Danish tailoring
The following is a Danish delta tailoring example. This formal specification
corresponds to Danish standard DS 377 and to "Retskrivningsordbogen", the
Danish orthography specification. The repertoire used assumes the exclusion
of combining characters.

% This tailoring is in accordance with Danish Standard DS 377 (1980)
% and the Danish Orthography Dictionary (Retskrivningsordbogen, 1986).
% It is also in accordance with Greenlandic orthography.

% Define a collating element for a-ring.

collating element <AA>

% Define collating elements for sequences of a+a

collating element <A A> from "<U0041><U0041>"
collating element <A-a> from "<U0041><U0061>"
collating element <a-A> from "<U0061><U0041>"
collating element <a-a> from "<U0061><U0061>"

% Make capital letters sort before lowercase
% Note that this simple tailoring only impacts basic letters.
% To also make capital letters in compatibility characters sort
% before lowercase, a slightly more complex tailoring is required.

```

```

reorder-after <CAP>
<MIN>

% Reorder a-diaeresis, o-stroke, and a-ring at the end of the alphabet, after z.

reorder after <S8E5> % ezh with curl (after z)
<S6D3> <ae>
<S80D> % o-stroke
<AA> % a-ring

% A series of reweighting statements to deal with specific
% Danish behavior. All of these define or redefine weight_list's,
% and so the entire block can simply be reordered after the
% last entry in the table.

reorder after <SFFFF>

% Space, hyphen-minus, and solidus are a primary weight
% before any letter or digit, with hyphen-minus and solidus
% given a secondary difference from the weight for space.

<U0020> <S209>; <BASE>; <MIN>; <U0020> % SPACE
<U002D> <S209>; " <BASE><VRNT1>"; " <MIN><MIN>"; <U002D> % HYPHEN-MINUS
<U002F> <S209>; " <BASE><VRNT2>"; " <MIN><MIN>"; <U002F> % SOLIDUS

% The letter kra (for Greenlandic) is equated to a lowercase q,
% with a secondary difference to distinguish it from q itself.

<U0138> <S829>; " <BASE><VRNT1>"; " <MIN><MIN>"; <U0138> % LATIN SMALL LETTER KRA

% The letter thorn is treated as a sequence of t + h, with a variant weight
% at the secondary level (comparable to the treatment of sharp-s).

<U00DE> " <S875><S773>"; " <BASE><VRNT1><BASE>"; " <CAP><MIN><CAP>"; <U00DE> % LATIN CAPITAL LETTER THORN
<U00FE> " <S875><S773>"; " <BASE><VRNT1><BASE>"; " <MIN><MIN><MIN>"; <U00FE> % LATIN SMALL LETTER THORN

% The letters u-diaeresis and u-double-acute are given the same primary
% weight as y, with unique variant weights at the secondary level.

<U00DC> <S8BD>; " <BASE><VRNT1>"; " <CAP><MIN>"; <U00DC> % LATIN CAPITAL LETTER U WITH DIAERESIS
<U00FC> <S8BD>; " <BASE><VRNT1>"; " <MIN><MIN>"; <U00FC> % LATIN SMALL LETTER U WITH DIAERESIS
<U0170> <S8BD>; " <BASE><VRNT2>"; " <CAP><MIN>"; <U0170> % LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
<U0171> <S8BD>; " <BASE><VRNT2>"; " <MIN><MIN>"; <U0171> % LATIN SMALL LETTER U WITH DOUBLE ACUTE

% The letters o-diaeresis and o-double-acute are given the same primary
% weight as o-slash, with unique variant weights at the secondary level.

<U00D6> <S80D>; " <BASE><VRNT1>"; " <CAP><MIN>"; <U00D6> % LATIN CAPITAL LETTER O WITH DIAERESIS
<U00F6> <S80D>; " <BASE><VRNT1>"; " <MIN><MIN>"; <U00F6> % LATIN SMALL LETTER O WITH DIAERESIS
<U0150> <S80D>; " <BASE><VRNT2>"; " <CAP><MIN>"; <U0150> % LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
<U0151> <S80D>; " <BASE><VRNT2>"; " <MIN><MIN>"; <U0151> % LATIN SMALL LETTER O WITH DOUBLE ACUTE

% The letter a-ring is weighted following the letter o-slash (see above)

<U00C5> <AA>; <BASE>; <CAP>; <U00C5> % LATIN CAPITAL LETTER A WITH RING
<U00E5> <AA>; <BASE>; <CAP>; <U00E5> % LATIN SMALL LETTER A WITH RING
<U01FA> <AA>; " <BASE><AIGUT>"; " <CAP><MIN>"; <U01FA> % LATIN CAPITAL LETTER A WITH RING ABOVE AND ACUTE
<U01FB> <AA>; " <BASE><AIGUT>"; " <MIN><MIN>"; <U01FB> % LATIN SMALL LETTER A WITH RING ABOVE AND ACUTE

% The sequences of letters a+a are weighted a secondary variants of a-ring

<A-A> <AA>; " <BASE><VRNT1>"; " <CAP><CAP>"; <U0041><U0041> % AA
<A a> <AA>; " <BASE><VRNT1>"; " <CAP><MIN>"; <U0041><U0061> % Aa
<a A> <AA>; " <BASE><VRNT1>"; " <MIN><CAP>"; <U0061><U0041> % aA
<a a> <AA>; " <BASE><VRNT1>"; " <MIN><MIN>"; <U0061><U0061> % aa

reorder-end

```

~~% End of the Danish tailoring~~

Benchmark 2 for Danish

A/S	THYGESEN
ANDRE	VESTERGÅRD, A
ANDRÉ	VESTERGAARD, A
ANDREAS	VESTERGÅRD, B
AS	ÆBLE
CA	ÄBLE
ÇA	ØBERG
CB	ÖBERG
ÇC	
DA	
ÐA	
DB	
ÐC	
DSB	
D.S.B.	
DSC	
EKSTRA-ARBEJDE	
EKSTRABUD	
EKSTRAARBEJDE	
HØST	
HAAG	
HÅNDBOG	
HAANDVÆRKS BANKEN	
Karl	
karl	
NIELS JØRGEN	
NIELS-JØRGEN	
NIELSEN	
RÉE, A	
REE, B	
RÉE, L	
REE, V	
SCHYTT, B	
SCHYTT, H	
SCHÜTT, H	
SCHYTT, L	
SCHÜTT, M	
ß	
SS	
SSA	
STORE VILDMOSE	
STOREKÆR	
STORM PETERSEN	
STORMLY	
THORVALD	
THORVARDUR	
ÞORVARÐUR	

B.3 Example 3 – Reversing the order of lower case and upper case letters

The following is a simple tailoring example to show how to reverse the order of uppercase versus lowercase from the order specified in the Common Tailorable Template Table.

***** Ken to provide changes in the following pink lines *****

```
% Make uppercase letters sort before lowercase
% and scanning of accents done forward at level 2.
% To do this correctly,
% first an order start is inserted to make the delta conformant.
% Then, the entire range of tertiary weight symbols
% <MIN>..<CIRCLE> are moved after <CIRCLECAP>, so that they order after
% <CAP> <WIDECAP> <COMPATCAP> <FONTCAP> <CIRCLECAP> in the same
% relative order with respect to themselves. This has the effect of
% also making all the compatibility uppercase letters sort before
% their respective compatibility lowercase letters. (For example,
% U+24B6 CIRCLED LATIN CAPITAL LETTER A will sort before
% U+24D0 CIRCLED LATIN SMALL LETTER A.
```

```
reorder after <SFFFF>
order start forward;forward;forward;forward,position
reorder-after <CIRCLECAP>
<MIN>
<WIDE>
<COMPAT>
<FONT>
<CIRCLE>
```

```
reorder-end
```

```
% End of the uppercase/lowercase tailoring
```

B.4 Thai string ordering – a case involving special preparation

Thai Ordering Principle

The widely accepted standard for Thai lexicographical ordering is defined in the Royal Institute Dictionary 2525 B.E. Edition (1982 A.D.), the official standard Thai dictionary. The ordering principles are:

Words are ordered alphabetically, not phonetically. Consonants order is:

~~ก ข ฃ ค ฅ ฉ ง จ ฉ ช ฌ ญ ฎ ฏ ฐ ฑ ฒ ณ ด
ต ถ ท ธ น
บ ป ผ ฝ พ ฟ ภ ม ย ร ฤ ฦ ฦ ๓ ๔ ๕ ๖ ๗ ๘ ๙
ห ฟ ๑ ๒~~

(~~ฤ ฦ ๓ ๔ ๕ ๖ ๗ ๘ ๙~~ are vowels and ligatures, but put in the order according to the sounds they represent.)

Vowels are also ordered by written forms, not by sounds. Vowels order is:

~~ะ ั ำ ำ ิ ี ึ ื ุ ู เ แ โ ใ ใ~~

(~~๑ ๒ ๓~~ are always ordered as consonants, although they sometimes act as vowels.)

Consonants always precede vowels. String comparison is performed from left to right, considering initial consonants before vowels in the same syllable. Tones and diacritics are normally ignored, unless all other parts are equal, in which case the order is:

~~ˆ ˊ ˋ ˎ ˏ~~

Here is an ordering example:

ก ก	ก ั ก	ก ุ น
ก ร ร ม	ก ุ ำ ำ	ก ุ ด
ก ร ร ม ˊ	ก ำ	เ ก ุ ง
ก ร ะ แ ย ั ง	ก ิ น	เ ก ล ุ ำ
ก ร ำ ๓	ก ี	เ ก ล ุ ๓ ๔
ก ะ เ ก ณ ๓	ก ุ ๑ น	เ ก ุ ำ

เกาะ	ชู่ ^๖ ำ ง อ อ ก	ทูล เกิล ^๖
เก ^๓ ' ย ว	เช ^๓ น	าทูล กรี ^๖
เก ^๓ ย ^๓ ๖	เช ^๓ ' น	หม ^๓ ' อ ม
เก ^๓ ' อ ก	เช ^๓ ' น	น ^๖ ' า
เก ^๓ ง	เช ^๓ ' ด	น ^๖ ' า
เก ^๓ ' ๖	เช ^๓ ' ง	น ^๓ ' '
เก ^๓ น	เช ^๓ ' ง	ฆ ' ญ ห ล ง
เก ^๓ ' ร ^๓ ' น	เช ^๓ ' ง	ฆ ' ญ ห ล ง
เก ^๓ ' ล ^๖	เช ^๓ ' ง ช ว า	ฆ ' า
เก ^๓ '	เช ^๓ ' ง ช ^๖ น	ฆ ['] ' า
เก ^๓ ' ล	เช ^๓ ' ง ช ^๖ น	ฆ ^๖ ' า
ช ^๖ ' น	เช ^๓ น	ฆ ^๓ ' า
ช ^๖ ' น า ฆ	คร ^๓ ' ร ร ภ	ฆ ^๓ ' า
ช ^๖ ' ำ ง	คร ^๓ ' ร ร ภ ^๓	ฆ ^๓ ' า น
ช ^๖ ' ำ ง ๖	จ ' ' ม พ ล	ฆ ^๖ ' ด
ช ^๖ ' ำ ง กรี ^๖	จ ' ' ม พ ล	ฆ ' พ ณ ๖
ค ' า น	ช ^๓ ' า ย	พ ณ ^๓ ' ช ^๓ ' ย ^๓
ช ^๖ ' ำ ง ช ^๓ ' '	เ ' ฒ ['] ' า	ย ['] ' ' อ ' ง
น	เ ' ณ ' ร	ร ' ' อ ' ง
ช ^๖ ' ำ ง ค ' ว ' า	ต ' ' ล ' า ' ด	ถ ' ' ถ ['] '
ย	ทูล ' เก ' ล ^๖	ถ ' ' '
ช ^๖ ' ำ ง ๖	า	ถ ' ' ' '
ค ['] ' ' ๖	ทูล ' เก ' ล ^๖	ถ ' ' ' ' ' ' ด ' ' ' ' '
ช ^๖ ' ำ ง ' ' '	า ' '	ภ ' ' ' ' ' ' ' '
น	ว ' ' '	ว ' ' '

~~ค ๑ ล~~

~~ห ร ิ ฎ , ญ ษ~~

~~ั ๒~~

~~ห ฤ ท ั ๒~~

~~ห ล ง~~

~~แ ห ง ิ~~

~~แ ห ิ ง~~

~~แ ห น ม~~

~~แ ห น ห ว ง~~

~~แ ห ๒~~

~~แ ห ม~~

~~ฉ ๑ น~~

~~ฉ ๑~~

Algorithmic Aspect

The above principle, with appropriate character code assignment such as TIS-620 and ISO/IEC 10646, almost allows C standard library function `strcmp()` to collate Thai strings without much more complication, except:

Leading vowels (๒ ๓ ๔ ๕ ๖), which are written before consonants, must be considered after the initial consonant. Therefore, the rearrangement is needed before comparison.

Diacritics and tone marks (๗ ๘ ๙ ๑๐ ๑๑ ๑๒ ๑๓) must be ignored in the first pass, and be considered at later pass if the first pass yields equality.

And these are the only two mandatory requirements for Thai string collation algorithms. No syllable structure nor word boundary analysis is required, as Thai lexicons are ordered alphabetically, not phonetically.

2.1 Leading Vowel Rearrangement

To fulfill this requirement, either a preprocessing or collating element grouping is required. The preprocessor scans the string once and swaps every leading vowel with its succeeding letter. The preprocessed string is then passed to the normal weight calculation process. Another way to manage this is by means of collating element formation. Every possible pair of leading vowel and consonant is defined as a collating element, whose weight equals to that of the rearranged substring.

Note that the rearrangement of a leading vowel is simply performed with its immediate succeeding consonant. No consonant cluster analysis is needed. Indeed, doing so would result in ambiguities or yield a different order than that specified in the Royal Institute Dictionary. For example:

1. Ambiguities. The problem with ambiguity is illustrated by the word “๒ ๓ ๔ ๕”. It has two potential pronunciations: either as a two-syllable word, “phe-la” (meaning “time”), or as a one-syllable word, “phlao” (meaning “axle” or “abate”). A rearrangement algorithm which follows the distinct pronunciation of the potential cluster “๓ ๔” in this string would result in distinct keys, “๓ ๒ ๔ ๕” and “๓ ๔ ๒ ๕”, and therefore different weights, which are equally legal. Both words need to have the same weight to be sortable, however.

2. Non-conforming Ordering. To illustrate the difference in ordering caused by the treatment of consonant clusters, consider these words, shown in conforming order: “๒ ๓ ๔, ๒ ๓ ๕, ๒ ๔ ๕”.

The correct rearrangement ignores any clusters and results in the following: “๓ ๒ ๔, ๓ ๒ ๕, ๓ ๒ ๕”, which sorts in the order shown.

If, however, pairs of consonants that form legal clusters were grouped as single collation elements (regardless of actual pronunciation where the potential pronunciation is ambiguous),

then the results of rearrangement would be “<๓ ๒>๔, <๓ ๒>๕, ๓ ๒ ๕”,

which would yield the (non-conforming) ordering “๒ ๓ ๕, ๒ ๓ ๔, ๒ ๔ ๕”.

Again, if actual clusters were grouped as single collation elements (with some disambiguation effort), then the results of rearrangement would be

~~“**พ** **เ** **ณ** , <**พ** **ณ**> **เ** **ง** , **พ** **เ** **ณ**”~~, which would yield the (non-conforming) ordering

~~“**เ** **พ** **ณ** , **เ** **พ** **ณ** , **เ** **พ** **ณ** **ง**”~~.

2.2 The Multiple Levels of Character Weights

The second requirement of the algorithm, relating to the treatment of diacritics and tone marks, implies multiple levels of weights. Tone marks and diacritics must be ignored in the first level, and weigh more than consonants and vowels in the second level.

There are ten Thai decimal digits (๐ ๑ ๒ ๓ ๔ ๕ ๖ ๗ ๘ ๙), each semantically equivalent to Arabic digit 0-9, respectively. Their weights are then equal to their corresponding Arabic digits in the first level, and are different in the second level, to distinguish languages.

When punctuation marks (ฯ ๒ ๐ ๗ ๐๗) are concerned, another level of weights is required for them. This corresponds to the fourth level in the Common Template Table. In string ordering, punctuation marks are less significant than any tone marks and diacritics, and must be ignored in all the first three levels.

For example, “~~พ ^๓ ำ ัง ำ , พ ^๓ ำ ัง ำ ๒ ๒ , พ ^๓ ำ ัง ำ ำ ำ ำ ,~~

~~พ ^๓ ำ ัง ำ ำ ำ~~” is a valid order in the Royal Institute Dictionary. In the first level,

the considered weights are ~~พ ำ ัง , พ ำ ัง ำ ๒ , พ ำ ัง ำ ำ ,~~

~~พ ำ ัง ำ ำ~~ respectively.

The third level is not defined for Thai string ordering, but is reserved for tailoring.

B.5 Cyrillic (issue)

IMPORTANT NOTE.

~~In accordance with the disposition of comments on the second FCD of ISO/IEC 14651, there is a known issue on Cyrillic in the Common Template Table that needs to be solved before the DIS. The common template table is mostly self-generated from character properties described in tables detained by the Unicode consortium. This led to known and manageable mismatches between this table and actual Cyrillic-sorting practice in particular in Russia.~~

~~On one hand it is known that the current template table for Cyrillic does not sort Russian correctly for some letters affected by a basic diacritic. The following delta makes the appropriate corrections.~~

~~On the other hand defining equivalence of sorting for combining sequences is still an issue whose solution is known but which was not solved on time to obey to optimum FCD ballot deadline constraints.~~

~~It is the intent that after the third FCD ballot, this issue will be solved by consensus before the DIS is published. This is expected to be the main issue remaining before the DIS ballot and the ballot period should allow sufficient time for a discussion leading to the optimum solution, whether this will be done via a delta of by manual modification of the self-generated table~~

reorder after <U04C0>

```

<U04D1><S95B>;<BASE>;<MIN>;<U04D1>% CYRILLIC SMALL LETTER A WITH BREVE
"<U0430><U0306>"<S95B>;<BASE>;<MIN>;"<U0430><U0306>"% CYRILLIC SMALL LETTER A with COMBINING BREVE
<U04D0><S95B>;<BASE>;<CAP>;<U04D0>% CYRILLIC CAPITAL LETTER A WITH BREVE
"<U0410><U0306>"<S95B>;<BASE>;<CAP>;"<U0410><U0306>"% CYRILLIC CAPITAL LETTER A with COMBINING BREVE
<U04D3><S95C>;<BASE>;<MIN>;<U04D3>% CYRILLIC SMALL LETTER A WITH DIAERESIS
"<U0430><U0308>"<S95C>;<BASE>;<MIN>;"<U0430><U0308>"% CYRILLIC SMALL LETTER A with COMBINING DIAERESIS
<U04D2><S95C>;<BASE>;<CAP>;<U04D2>% CYRILLIC CAPITAL LETTER A WITH DIAERESIS
"<U0410><U0308>"<S95C>;<BASE>;<CAP>;"<U0410><U0308>"% CYRILLIC CAPITAL LETTER A with COMBINING DIAERESIS

<U04DB><S95F>;<BASE>;<MIN>;<U04DB>% CYRILLIC SMALL LETTER SCHWA WITH DIAERESIS
"<U04D9><U0308>"<S95F>;<BASE>;<MIN>;"<U04D9><U0308>"% CYRILLIC SMALL LETTER SCHWA with COMBINING DIAERESIS
<U04DA><S95F>;<BASE>;<CAP>;<U04DA>% CYRILLIC CAPITAL LETTER SCHWA WITH DIAERESIS
"<U04D8><U0308>"<S95F>;<BASE>;<CAP>;"<U04D8><U0308>"% CYRILLIC CAPITAL LETTER SCHWA with COMBINING DIAERESIS

<U0453><S983>;<BASE>;<MIN>;<U0453>% CYRILLIC SMALL LETTER GJE
"<U0433><U0301>"<S983>;<BASE>;<MIN>;"<U0433><U0301>"% CYRILLIC SMALL LETTER GHE with COMBINING ACUTE ACCENT
<U0403><S983>;<BASE>;<CAP>;<U0403>% CYRILLIC CAPITAL LETTER GJE
"<U0413><U0301>"<S983>;<BASE>;<CAP>;"<U0413><U0301>"% CYRILLIC CAPITAL LETTER GHE with COMBINING ACUTE ACCENT

<U04D7><S98B>;<BASE>;<MIN>;<U04D7>% CYRILLIC SMALL LETTER IE WITH BREVE
"<U0435><U0306>"<S98B>;<BASE>;<MIN>;"<U0435><U0306>"% CYRILLIC SMALL LETTER IE with COMBINING BREVE
<U04D6><S98B>;<BASE>;<CAP>;<U04D6>% CYRILLIC CAPITAL LETTER IE WITH BREVE
"<U0415><U0306>"<S98B>;<BASE>;<CAP>;"<U0415><U0306>"% CYRILLIC CAPITAL LETTER IE with COMBINING BREVE

<U04C2><S993>;<BASE>;<MIN>;<U04C2>% CYRILLIC SMALL LETTER ZHE WITH BREVE
"<U0436><U0306>"<S993>;<BASE>;<MIN>;"<U0436><U0306>"% CYRILLIC SMALL LETTER ZHE with COMBINING BREVE
<U04C1><S993>;<BASE>;<CAP>;<U04C1>% CYRILLIC CAPITAL LETTER ZHE WITH BREVE
"<U0416><U0306>"<S993>;<BASE>;<CAP>;"<U0416><U0306>"% CYRILLIC CAPITAL LETTER ZHE with COMBINING BREVE
<U04DD><S994>;<BASE>;<MIN>;<U04DD>% CYRILLIC SMALL LETTER ZHE WITH DIAERESIS
"<U0436><U0308>"<S994>;<BASE>;<MIN>;"<U0436><U0308>"% CYRILLIC SMALL LETTER ZHE with COMBINING DIAERESIS
<U04DC><S994>;<BASE>;<CAP>;<U04DC>% CYRILLIC CAPITAL LETTER ZHE WITH DIAERESIS
"<U0416><U0308>"<S994>;<BASE>;<CAP>;"<U0416><U0308>"% CYRILLIC CAPITAL LETTER ZHE with COMBINING DIAERESIS

<U04DF><S99B>;<BASE>;<MIN>;<U04DF>% CYRILLIC SMALL LETTER ZE WITH DIAERESIS
"<U0437><U0308>"<S99B>;<BASE>;<MIN>;"<U0437><U0308>"% CYRILLIC SMALL LETTER ZE with COMBINING DIAERESIS
<U04DE><S99B>;<BASE>;<CAP>;<U04DE>% CYRILLIC CAPITAL LETTER ZE WITH DIAERESIS
"<U0417><U0308>"<S99B>;<BASE>;<CAP>;"<U0417><U0308>"% CYRILLIC CAPITAL LETTER ZE with COMBINING DIAERESIS

<U04E5><S9A7>;<BASE>;<MIN>;<U04E5>% CYRILLIC SMALL LETTER I WITH DIAERESIS
"<U0438><U0308>"<S9A7>;<BASE>;<MIN>;"<U0438><U0308>"% CYRILLIC SMALL LETTER I with COMBINING DIAERESIS
<U04E4><S9A7>;<BASE>;<CAP>;<U04E4>% CYRILLIC CAPITAL LETTER I WITH DIAERESIS
"<U0418><U0308>"<S9A7>;<BASE>;<CAP>;"<U0418><U0308>"% CYRILLIC CAPITAL LETTER I with COMBINING DIAERESIS
<U04E3><S9A8>;<BASE>;<MIN>;<U04E3>% CYRILLIC SMALL LETTER I WITH MACRON
"<U0438><U0304>"<S9A8>;<BASE>;<MIN>;"<U0438><U0304>"% CYRILLIC SMALL LETTER I with COMBINING MACRON
<U04E2><S9A8>;<BASE>;<CAP>;<U04E2>% CYRILLIC CAPITAL LETTER I WITH MACRON

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"<U0418><U0304>"<S9A8>;<BASE>;<CAP>;"<U0418><U0304>"% CYRILLIC CAPITAL LETTER I with COMBINING MACRON
 <U0457><S9AB>;<BASE>;<MIN>;"<U0457>"% CYRILLIC SMALL LETTER YI
 "<U0456><U0308>"<S9AB>;<BASE>;<MIN>;"<U0456><U0308>"% CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I with COMBINING DIAERESIS
 <U0407><S9AB>;<BASE>;<CAP>;"<U0407>"% CYRILLIC CAPITAL LETTER YI
 "<U0406><U0308>"<S9AB>;<BASE>;<CAP>;"<U0406><U0308>"% CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I with COMBINING DIAERESIS
 <U0439><S9AC>;<BASE>;<MIN>;"<U0439>"% CYRILLIC SMALL LETTER SHORT I
 "<U0438><U0306>"<S9AC>;<BASE>;<MIN>;"<U0438><U0306>"% CYRILLIC SMALL LETTER I with COMBINING BREVE
 <U0419><S9AC>;<BASE>;<CAP>;"<U0419>"% CYRILLIC CAPITAL LETTER SHORT I
 "<U0418><U0306>"<S9AC>;<BASE>;<CAP>;"<U0418><U0306>"% CYRILLIC CAPITAL LETTER I with COMBINING BREVE
 <U04E7><S9EC>;<BASE>;<MIN>;"<U04E7>"% CYRILLIC SMALL LETTER O WITH DIAERESIS
 "<U043E><U0308>"<S9EC>;<BASE>;<MIN>;"<U043E><U0308>"% CYRILLIC SMALL LETTER O with COMBINING DIAERESIS
 <U04E6><S9EC>;<BASE>;<CAP>;"<U04E6>"% CYRILLIC CAPITAL LETTER O WITH DIAERESIS
 "<U041E><U0308>"<S9EC>;<BASE>;<CAP>;"<U041E><U0308>"% CYRILLIC CAPITAL LETTER O with COMBINING DIAERESIS
 <U04EB><S9F0>;<BASE>;<MIN>;"<U04EB>"% CYRILLIC SMALL LETTER BARRED O WITH DIAERESIS
 "<U04E9><U0308>"<S9F0>;<BASE>;<MIN>;"<U04E9><U0308>"% CYRILLIC SMALL LETTER BARRED O with COMBINING DIAERESIS
 <U04EA><S9F0>;<BASE>;<CAP>;"<U04EA>"% CYRILLIC CAPITAL LETTER BARRED O WITH DIAERESIS
 "<U04E8><U0308>"<S9F0>;<BASE>;<CAP>;"<U04E8><U0308>"% CYRILLIC CAPITAL LETTER BARRED O with COMBINING DIAERESIS
 <U045C><SA13>;<BASE>;<MIN>;"<U045C>"% CYRILLIC SMALL LETTER KJE
 "<U043A><U0301>"<SA13>;<BASE>;<MIN>;"<U043A><U0301>"% CYRILLIC SMALL LETTER KA with COMBINING ACUTE ACCENT
 <U040C><SA13>;<BASE>;<CAP>;"<U040C>"% CYRILLIC CAPITAL LETTER KJE
 "<U041A><U0301>"<SA13>;<BASE>;<CAP>;"<U041A><U0301>"% CYRILLIC CAPITAL LETTER KA with COMBINING ACUTE ACCENT
 <U045E><SA17>;<BASE>;<MIN>;"<U045E>"% CYRILLIC SMALL LETTER SHORT U
 "<U0443><U0306>"<SA17>;<BASE>;<MIN>;"<U0443><U0306>"% CYRILLIC SMALL LETTER U with COMBINING BREVE
 <U040E><SA17>;<BASE>;<CAP>;"<U040E>"% CYRILLIC CAPITAL LETTER SHORT U
 "<U0423><U0306>"<SA17>;<BASE>;<CAP>;"<U0423><U0306>"% CYRILLIC CAPITAL LETTER U with COMBINING BREVE
 <U04F1><SA18>;<BASE>;<MIN>;"<U04F1>"% CYRILLIC SMALL LETTER U WITH DIAERESIS
 "<U0443><U0308>"<SA18>;<BASE>;<MIN>;"<U0443><U0308>"% CYRILLIC SMALL LETTER U with COMBINING DIAERESIS
 <U04F0><SA18>;<BASE>;<CAP>;"<U04F0>"% CYRILLIC CAPITAL LETTER U WITH DIAERESIS
 "<U0423><U0308>"<SA18>;<BASE>;<CAP>;"<U0423><U0308>"% CYRILLIC CAPITAL LETTER U with COMBINING DIAERESIS
 <U04F3><SA19>;<BASE>;<MIN>;"<U04F3>"% CYRILLIC SMALL LETTER U WITH DOUBLE ACUTE
 "<U0443><U030B>"<SA19>;<BASE>;<MIN>;"<U0443><U030B>"% CYRILLIC SMALL LETTER U with COMBINING DOUBLE ACUTE ACCENT
 <U04F2><SA19>;<BASE>;<CAP>;"<U04F2>"% CYRILLIC CAPITAL LETTER U WITH DOUBLE ACUTE
 "<U0423><U030B>"<SA19>;<BASE>;<CAP>;"<U0423><U030B>"% CYRILLIC CAPITAL LETTER U with COMBINING DOUBLE ACUTE ACCENT
 <U04EF><SA1A>;<BASE>;<MIN>;"<U04EF>"% CYRILLIC SMALL LETTER U WITH MACRON
 "<U0443><U0304>"<SA1A>;<BASE>;<MIN>;"<U0443><U0304>"% CYRILLIC SMALL LETTER U with COMBINING MACRON
 <U04EE><SA1A>;<BASE>;<CAP>;"<U04EE>"% CYRILLIC CAPITAL LETTER U WITH MACRON
 "<U0423><U0304>"<SA1A>;<BASE>;<CAP>;"<U0423><U0304>"% CYRILLIC CAPITAL LETTER U with COMBINING MACRON
 <U04AF><SA1C>;<BASE>;<MIN>;"<U04AF>"% CYRILLIC SMALL LETTER STRAIGHT U
 <U04AE><SA1C>;<BASE>;<CAP>;"<U04AE>"% CYRILLIC CAPITAL LETTER STRAIGHT U
 <U04F5><SA4F>;<BASE>;<MIN>;"<U04F5>"% CYRILLIC SMALL LETTER CHE WITH DIAERESIS
 "<U0447><U0308>"<SA4F>;<BASE>;<MIN>;"<U0447><U0308>"% CYRILLIC SMALL LETTER CHE with COMBINING DIAERESIS
 <U04F4><SA4F>;<BASE>;<CAP>;"<U04F4>"% CYRILLIC CAPITAL LETTER CHE WITH DIAERESIS
 "<U0427><U0308>"<SA4F>;<BASE>;<CAP>;"<U0427><U0308>"% CYRILLIC CAPITAL LETTER CHE with COMBINING DIAERESIS
 <U04F9><SA78>;<BASE>;<MIN>;"<U04F9>"% CYRILLIC SMALL LETTER YERU WITH DIAERESIS
 "<U044B><U0308>"<SA78>;<BASE>;<MIN>;"<U044B><U0308>"% CYRILLIC SMALL LETTER YERU with COMBINING DIAERESIS
 <U04F8><SA78>;<BASE>;<CAP>;"<U04F8>"% CYRILLIC CAPITAL LETTER YERU WITH DIAERESIS
 "<U042B><U0308>"<SA78>;<BASE>;<CAP>;"<U042B><U0308>"% CYRILLIC CAPITAL LETTER YERU with COMBINING DIAERESIS
 <U0477><SAAF>;<BASE>;<MIN>;"<U0477>"% CYRILLIC SMALL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT
 "<U0475><U030F>"<SAAF>;<BASE>;<MIN>;"<U0475><U030F>"% CYRILLIC SMALL LETTER IZHITSA with COMBINING DOUBLE GRAVE ACCENT
 <U0476><SAAF>;<BASE>;<CAP>;"<U0476>"% CYRILLIC CAPITAL LETTER IZHITSA WITH DOUBLE GRAVE ACCENT
 "<U0474><U030F>"<SAAF>;<BASE>;<CAP>;"<U0474><U030F>"% CYRILLIC CAPITAL LETTER IZHITSA with COMBINING DOUBLE GRAVE ACCENT

end-reorder

C -- Preparation (informative)

C.1 General considerations

Preparation is necessary only for modification and/or duplication of original strings to render them context-independent prior to the comparison phase. Examples are:

- duplication of a string such as "41" for ~~phonetic ordering into differentiated strings for multilingual phonetic ordering usages~~ as it is spelled out in different languages (Irish Gaelic, German, English, and French):

daichead a haon

einundvierzig

forty-one

quarante-et-un

- removal or rotation of characters that are a nuisance for special requirements of ordering; for example, removing articles in sorting book names as in

Tale of two cities, A

- transformation of abbreviated data into a fuller form; for example, transformation of "McArthur" to give "MacArthur"
- transformation of numbers so that the result will be ordered in numerical order, as opposed to positional order (see below). Numeric ordering is particularly delicate and requires special consideration in many cases.

C.2 Handling of numeral substrings in collation

A numeral is a string representing a number. The examples here deal with numerals which represent values in R , the real numbers, or subsets of R , as these have a predetermined order. Only decimal numerals are dealt with in the examples given here.

The presentation below will first give positional system decimal numerals for natural numbers using the digits 0-9. It will progress to numerals for whole numbers, numerals with a fraction part, a fraction part and an exponent. There is also a brief discussion on numerals with digits from other scripts, scripts which sometimes uses another syntax with digits for numerals (such as Hân numerals), and Roman numerals. There are circumstances where digits do not represent numeral values, such as in part numbers. These cases are not discussed below. Caution: preparatory steps have undesirable consequences in some cases such as the ordering of telephone numbers in telephone books, and should be avoided in those cases.

C.2.1 Handling of 'ordinary' numerals for natural numbers

The Common Template Table has no means of sorting strings with numbers in such a way that the resulting order reflects the number values represented by the numerals. For example, given the following randomly-arranged strings:

Release 1
Release 20

Release 12
 Release 2
 Release 9

the method described in the this International Standard yields the following list of “sorted” strings:

Release 1
 Release 12
 Release 2
 Release 20
 Release 9

(It is sufficient simply to look positionally at just the first digit in each numeral to see why this ordering results.) A more acceptable ordering is:

Release 1
 Release 2
 Release 9
 Release 12
 Release 20

The Common Template Table defined in this International Standard cannot be tailored to give this result. However, preparation can be done prior to the basic collation step to achieve the desired results when numeric value order is desired. The prepared strings are normally not presented to the user; only the original strings are. The prepared strings are normally only used for the collation key construction. A simple, but not very general, way of preparing numerals for natural ordering is to pad them with zeroes to a given number of digits. If one pads the numerals in our original example strings up to three digits, the following will result:

Release 001
 Release 020
 Release 012
 Release 002
 Release 009

Using the Common Template Table defined in this International Standard one then obtains the strings in a better order (here showing the strings as they are after preparation, which are normally not shown in the result):

Release 001
 Release 002
 Release 009
 Release 012
 Release 020

However, there are two problems with this approach:

1. One must determine beforehand a (usually small) number of digits to pad up to. If the number of digits to pad up to is too large, the strings after preparation can become rather long, especially if there are several numerals in each string. If the number of digits to pad up to is too small, however, the risk is greater that there are actually occurring numerals with more digits than one has padded up to, which results in partially getting back to the original situation, where the numerals' values are not taken entirely into account.
2. Determinacy is lost, if some of the original numerals were already partially zero-padded. For example, if the original strings were:

Release 01
Release 1

the strings after preparation are identical, and the end result (as the user would normally see it) could be either

Release 01
Release 1

or

Release 1
Release 01

and the relative order may come out differently for different occurrences of numerals, or different runs of the collation process applying the same rules. Indeterminacy in collation is not desirable.

There are many ways to deal with these problems. The following is one such way.

To each maximal digit subsequence prepend a fixed-number-of-digits numeral which represents the original number of digits in the numeral. For most cases a two-digit count would suffice (allowing up to 99 digits in the original integer numerals). For example, given the original strings:

Release 1
Release 01
Release 20
Release 12
Release 2
Release 09
Release 9

One obtains after this preparation the following strings:

Release 011
Release 0201
Release 0220
Release 0212
Release 012
Release 0209
Release 019

Which would be collated by the basic mechanism of this International Standard to:

Release 011
Release 012
Release 019
Release 0201
Release 0209
Release 0212
Release 0220

As normally presented to the user:

Release 1
 Release 2
 Release 9
 Release 01
 Release 09
 Release 12
 Release 20

This particular method puts numerals with a like original number of digits close to each other, even if the actual value represented is smaller due to the original zero-padding. If the represented *values* should be kept close together, one should instead duplicate the numeral: first a count of digits for the leading-zero-stripped numeral, the leading-zero-stripped numeral itself, followed by the original numeral. The duplication is needed to get determinacy relative to the original strings. For example, using the same original strings as above:

Release 011 1
 Release 011 01
 Release 0220 20
 Release 0212 12
 Release 012 2
 Release 019 09
 Release 019 9

Which would be collated by the basic mechanism of this standard to:

Release 011 01
 Release 011 1
 Release 012 2
 Release 019 09
 Release 019 9
 Release 0212 12
 Release 0220 20

As normally presented to the user:

Release 01
 Release 1
 Release 2
 Release 09
 Release 9
 Release 12
 Release 20

The originally zero-padded numerals consistently come before the numeral without (or with less) original zero-padding. The preparation processing could move the original numerals (in order of occurrence) to the very end of each string, if one wants to give the original zero-padding lesser significance than the text following the numerals.

The presence of several natural numerals in each string causes no additional problem.

Taking care of the natural number numerals is in most cases sufficient, and it is recommended that it be included as part of the usual preparation of strings to be collated. However such preparation is not required by this International Standard.

C.2.2 Handling of positional numerals in other scripts

ISO/IEC 10646 encodes decimal digits for a number of scripts. In most cases these are used in a positional system, just like 0-9 usually are. However, one should not regard a sequence of numerals mixed from different scripts as a single numeral; rather, one should consider each maximal substring of digits of the same script to be a numeral.

C.2.3 Handling of other non-pure positional system numerals or non-positional system numerals (e.g. Roman numerals)

Chinese and some other languages can use decimal digits (in the Hà script, for instance) interspersed with ideographs for “one thousand”, “ten”, etc. If such numerals are to be collated according to the value they represent, one can proceed as above, adding a step just after the initial duplication: convert the copy to the corresponding positional system numeral in the syntax used here for whole numerals.

Roman numerals, if handled, can be handled in a similar fashion to that described above. Duplicate, and replace the first copy with the same natural number expressed in the decimal positional system. E.g. “Louis V”, where the V is determined to be a Roman numeral, can be modified to “Louis 5 V”.

Caveat: In this case human interactive intervention or an expert system may be required, as in the following example involving the French language: CHAPITRE DIX might mean CHAPTER 10 or CHAPTER 509 (“dix” is the French word for 10, it is also the Roman numeral for 509).

C.2.4 Handling of numerals for whole numbers

If negative whole numbers are also to be sorted according to their value, there are a number of issues to be considered. Most frequently, negative whole values are given numerals that begin with a negation sign. The negation sign may be HYPHEN-MINUS U+002D (caveat: this character may represent a true hyphen, rather than a negation), or MINUS SIGN U+2212. But there are other conventions also, like using a SOLIDUS U+002F or a PERCENT SIGN U+0025 to indicate negativeness; or the negation indicator can come *after* the digits rather than before; or negativeness can be indicated by putting the digits between parenthesis, and/or putting the digits in a contrasting color (often red). In the examples here, only the case that negativeness is indicated by an immediately prepended MINUS SIGN is dealt with. Positiveness is indicated by either the absence of a MINUS SIGN, or the presence of a PLUS SIGN U+002B.

Temperature: –9 °C
 Temperature: 0 °C
 Temperature: –14 °C
 Temperature: 05 °C
 Temperature: +5 °C
 Temperature: –0 °C
 Temperature: –09 °C
 Temperature: 105 °C
 Temperature: +05 °C
 Temperature: 5 °C

One preparation to get an acceptable and determinate order for numerals (in this syntax) for whole numbers is as follows (actual implementations should do something equivalent, but more efficient):

3. Duplicate the numerals in the string (including sign indications), putting the ‘original’ ones (not to be touched by the following steps) in order of original occurrence at the end or the string, leaving the copies at the original positions. This step ensures determinacy.

4. Ensure that all of the copies have an explicit initial sign indicator.
5. Remove leading zeroes in the copies of the numerals (systematically either leaving one zero digit for zero or representing 0 by the empty string of digits); alternatively, let all numeral copies have exactly one leading zero.
6. Between the sign indicator and the digits in the copies of the numerals, insert a (two-digit) count of how many digits there were (after removing the leading zeroes).
7. Do 9's complement on each digit in each copy of a negated numeral. 9's complement of a digit that individually represents the value x , is $9-x$. That is, 9's complement of 0 is 9, of 9 is 0, of 5 is 4, etc.
8. Done with this (part of the) preparation.

For the basic collation step, use a tailoring of the template given in this standard, namely, a tailoring where the PLUS SIGN and the MINUS SIGN are significant at the same level as the digits, and where the MINUS SIGN has less weight than the PLUS SIGN. (In the example below, it is assumed that the weight of PLUS SIGN is less than the weight of 0, but this is not a prerequisite for getting an acceptable ordering.)

Our example strings after this prehanding:

Temperature: -980 °C -9
 Temperature: +00 °C 0
 Temperature: -9785 °C -14
 Temperature: +015 °C 05
 Temperature: +015 °C +5
 Temperature: -99 °C -0
 Temperature: -980 °C -09
 Temperature: +03105 °C 105
 Temperature: +015 °C +05
 Temperature: +015 °C 5

Sort these, using the basic mechanism of this standard:

Temperature: -9785 °C -14
 Temperature: -980 °C -09
 Temperature: -980 °C -9
 Temperature: -99 °C -0
 Temperature: +00 °C 0
 Temperature: +015 °C +05
 Temperature: +015 °C +5
 Temperature: +015 °C 05
 Temperature: +015 °C 5
 Temperature: +03105 °C 105

As presented to the user:

Temperature: -14 °C
 Temperature: -09 °C
 Temperature: -9 °C
 Temperature: -0 °C
 Temperature: 0 °C
 Temperature: +05 °C
 Temperature: +5 °C
 Temperature: 05 °C

Temperature: 5 °C
Temperature: 105 °C

This preparation results in a determinate ordering of strings which may have numerals for whole numbers in them (also if there are several such numerals in some of the strings), such that the numerals are ordered according to the integer value they represent.

The process for other syntaxes for whole numbers can be similar. Just add a step to convert the copies to the syntax used here for whole numbers.

This technique for handling negative numerals can be used also for numerals with a fractional part, and so on (see below).

C.2.5 Handling of positive positional numerals with fractional parts

The method presented above can easily be adapted to the case where fraction parts may occur and are to be taken into account. A problem is, however, that the characters often used to delimit the integer part from the fraction part are also used for other purposes. The separator character is generally either FULL STOP U+002E, or COMMA U+002C. These characters also have other uses, also in conjunction with digits.

For the example, assume that FULL STOP is used (only) as a fraction part delimiter.

Do as above, but count only the digits in the integer part of the numeral for the count of digits to be prepended. The fraction part delimiter character can be removed.

For example:

-12.34
12.34
3.1415
3.14

After preparation:

-978765 -12.34
+021234 12.34
+013.1415 3.1415
+01314 3.14

After sorting:

-978765 -12.34
+01314 3.14
+0131415 3.1415
+021234 12.34

As presented to the user:

-12.34
3.14
3.1415
12.34

C.2.6 Handling of positive positional numerals with fraction parts and exponent parts

For very large, or very small, values, one often uses formats like 2.5×10^7 (to illustrate just one possible way of writing these for the purposes of the examples here). Here there is already an exponent, which must be combined with the “number of integer part digits” (here: digits before the decimal point), by adding those two numbers to get a resulting fixed-number-of-digits exponent to prepend just before the first digit. For this example, with a three-digit exponent: we get +00825. One problem here is that the resulting exponent may be negative. To handle this, use an exponent bias. For a three-digit exponent a bias of 500 may be suitable, which gives us for this example numeral: +50825, and for the numeral 2.5×10^{-7} we get +49425. Negative values are handled as before, with 9’s complement. -2.5×10^7 gives -49174, and -2.5×10^{-7} gives -50574.

This method should be familiar to anyone with knowledge about (radix 10) floating point arithmetic.

Thus:

$$\begin{array}{l} 2.5 \times 10^{-7} \\ -2.5 \times 10^7 \\ 2.5 \times 10^7 \\ -2.5 \times 10^{-7} \end{array}$$

After preparation (including a duplicate of the original, for determinacy):

$$\begin{array}{l} +49425 \ 2.5 \times 10^{-7} \\ -49174 \ ^{-}2.5 \times 10^7 \\ +50825 \ 2.5 \times 10^7 \\ -50574 \ ^{-}2.5 \times 10^{-7} \end{array}$$

After sorting:

$$\begin{array}{l} -49174 \ ^{-}2.5 \times 10^7 \\ -50574 \ ^{-}2.5 \times 10^{-7} \\ +49425 \ 2.5 \times 10^{-7} \\ +50825 \ 2.5 \times 10^7 \end{array}$$

As presented to the user:

$$\begin{array}{l} -2.5 \times 10^7 \\ -2.5 \times 10^{-7} \\ 2.5 \times 10^{-7} \\ 2.5 \times 10^7 \end{array}$$

C.2.8 Handling of date and time of day indications

Going a bit beyond plain numerals, date and time-of-day indications often employ numerals (as well as names for months, weekdays, etc.) for the parts of the date and time-of-day indication. It is not uncommon to want to sort this kind of information also when it occurs within strings.

The preparation needed to obtain date and time-of-day indications, of some predetermined syntaxes, sorted according to point in time is similar to what has been described above.

9.1. Duplicate all date and time-of-day indications to maintain determinacy of collation when the original strings differ, but point in time identical. Leave the originals at the end of the strings, untouched by the following steps.

10.2. Convert the copies of the date and time indications to the same calendar system, if there are several calendar (sub)systems used and handled. The calendar (sub)system converted to, must be

suitable for being able to get proper time order. We will here use the Gregorian calendar system and the subsystem of year, month, day-of-month.

- ~~11.3.~~ Put the date and time-of-day elements in order of decreasing significance (to the resolution taken into account). Full year, month, day-of-month, hour, minute, second, fraction of second.
- ~~12.4.~~ Use a 24-hour/day clock for the time-of-day indications. Remove A.M. or P.M. indications, if present and handled, in the date-time indication copies.
- ~~13.5.~~ Use the UTC time zone for the date and time-of-day indications. Remove time zone indications, if present, in the date-time indication copies.
- ~~14.6.~~ Use month numbers, rather than month names. Use two digits each for month, day-of-month, hour, minute, second.
- ~~15.7.~~ Use full year number representation, as many digits as needed. Take abbreviations into account so that the full year number is used. E.g. '98' might denote year 98 or year 1998, or 1898, etc. No indeterminacy regarding year due to abbreviations like these may be present after the preparation step.
- ~~16.8.~~ For years AD, use an initial PLUS SIGN. For years BC, use an initial MINUS SIGN. Remove the original AD or BC indication from the copies. (To nitpick, year n BC should be represented by year $(1-n)$, which is less or equal to zero if n is positive.)
- ~~17.9.~~ For the year indications, insert between the sign indication and the first digit for the year indication a digit telling how many digits there are in the full year indication. One digit for this should suffice.
- ~~18.10.~~ For negative years, replace the each digit in the year indication (including the digit telling the number of digits in the original full year indication) with its 9's complement digit.
- ~~19.11.~~ Make sure the textual format for all of the date indication copies is the same (paying attention to hyphens, spaces, etc.). (This is most easily accomplished by printing them in the same format from an internal, non-string, representation.)
- ~~20.12.~~ Alternatively, use a number indicating the point of time on a linear time scale (for example, hours, milliseconds, or days from a predetermined point in time), to the resolution desired, and handle this as an ordinary numeral (see above).
- ~~21.13.~~ Done with this (part of the) preparation.
- ~~22.14.~~ For the basic collation step, use a tailoring of the template given in this standard. Use a tailoring where the PLUS SIGN and the MINUS SIGN are significant at the same level as the digits, and where the MINUS SIGN has less weight than the PLUS SIGN.

For example:

Dated: July 19, 1955, at 1 p.m. GMT
 Dated: January, 20 BC
 Dated: Sept. 20, 1995, at 1 p.m. PST
 Dated: 11-june/345 AD

After preparation:

Dated: +41955-07-19T13:00Z July 19, 1955, at 1 p.m. GMT
 Dated: -780-01 January, 20 BC
 Dated: +1995-09-20T10:00Z Sept. 20, 1995, at 1 p.m. PST
 Dated: +3345-06-11 11-june/345 AD

After sorting:

Dated: -780-01 January, 20 BC
 Dated: +3345-06-11 11-june/345 AD
 Dated: +41955-07-19T13:00Z July 19, 1955, at 1 p.m. GMT
 Dated: +41995-09-20T10:00Z Sept. 20, 1995, at 1 p.m. PST

As presented to the user:

Dated: January, 20 BC
 Dated: 11-june/345 AD
 Dated: July 19, 1955, at 1 p.m. GMT
 Dated: Sept. 20, 1995, at 1 p.m. PST

C.2.9 Making numbers less significant than letters

In many cases numerals preceding letters should be considered as less significant than the following alphabetic part. But the Common Template Table specifies digits to be level 1 significant. To make numerals less significant than letters, either tailor the weight table so that numerals are ignored at level 1 (but significant at level 2 or 3), or alternatively leave them significant at level 1, but prepare the strings so that numerals are moved to the end of the string or moved to a less significant field. When doing such a move, one must pay attention not to map different strings to identical strings (or identical string fields), so that determinacy is maintained (see ~~the section~~ C.2.10).

Some examples where it is appropriate to consider numerals as less significant than letters: Street or block names with one or more numbers to indicate where in the street/block, if that/those number(s) precede the street or block name (common for example in the US and in Japan); chemical compound names which have prepended numerals, e.g., 1,2-dichlorobenzol.

C.2.10 Maintaining determinacy

As noted above in several cases, part of the string has been duplicated to maintain determinacy in collation, when the original strings are different, but when preparation may otherwise turn different strings into identical strings.

This method of duplication for determinacy can be used more generally, so if there are several preparations affecting different parts of the strings, one may simply duplicate the original strings to begin with, and only perform the preparation (without additional duplication) on the first half of the “doubled” string.

One disadvantage with just concatenating the two copies is that the base letters of the second half of the “doubled” string count as more significant than the accents and case of the resulting first half of the “doubled” string. This International Standard has no mechanism for handling this in a better way, where the “original” (the second half of the “doubled” string) would count as less significant than the *entire* first half of the “doubled” string. This may be handled better by having the original and copy in different ‘fields’, and construct the collation key by combining the full keys for each ‘field’. Such processing is beyond the scope of this International Standard, however.

Note that the string after preparation is used only for the collation key construction. The original string is not intended to be retrievable from the modified string, though this is possible with this way of attaining determinacy. The strings to be presented to the user are the original, by preparation untouched, strings.

Maintenance of determinacy when some of the original strings to be collated are identical, is out of the scope of this International Standard. A collation processor should, however, document if it is ‘stable’ (maintaining initial relative order of identical strings) or not. This is useful to know when collating on one field of multi-field data.

<u>เก็ลั๊ว</u>	<u>ขั๊ว ง ๓</u>	<u>ทูลเก็ลั๊ว</u>
<u>เก็ลั๊ว ยว</u>	<u>คูน</u>	<u>า</u>
<u>เก็ลั๊ว</u>	<u>ขั๊ว ง เง ั</u>	<u>ทูลเก็ลั๊ว</u>
<u>เก็ลั๊ว</u>	<u>น</u>	<u>า ๔</u>
<u>เก็ลั๊ว ยว</u>	<u>ขั๊ว ง อ ก</u>	<u>ทูลเก็ลั๊ว</u>
<u>เก็ลั๊ว ยะ</u>	<u>เขน</u>	<u>าทูลกระ</u>
<u>เก็ลั๊ว ก</u>	<u>เข็น</u>	<u>หม่อม</u>
<u>แกง</u>	<u>เข็น</u>	<u>นั๊ว</u>
<u>แกะ</u>	<u>เข็ด</u>	<u>นั๊ว</u>
<u>โกน</u>	<u>เข็ง</u>	<u>นั๊ว</u>
<u>โกรัน</u>	<u>เข็ง</u>	<u>บุญหลง</u>
<u>ไกลั๊ว</u>	<u>เข็ง</u>	<u>บุญ-หลง</u>
<u>ไก</u>	<u>เข็ง ขว า</u>	<u>ป า</u>
<u>ไกล</u>	<u>เข็ง ข ัน</u>	<u>ป ้า</u>
<u>ขั๊น</u>	<u>เข็ง ข ัน</u>	<u>ป ้า</u>
<u>ขนาบ</u>	<u>เขน</u>	<u>ป ้า</u>
<u>ขั๊ว ง</u>	<u>ครรภ -</u>	<u>ป ้า</u>
<u>ขั๊ว ง ๓</u>	<u>ครรภ ั</u>	<u>ปาน</u>
<u>ขั๊ว ง กระ</u>	<u>จุมพล</u>	<u>ผ ัด</u>
<u>ดาน</u>	<u>จุมพล</u>	<u>๔ พณ๔</u>
<u>ขั๊ว ง ขั๊ว</u>	<u>ช าย</u>	<u>พณ ั ช ย ั</u>
<u>น</u>	<u>เฒ ้า</u>	<u>ย ็ อ ง</u>
<u>ขั๊ว ง คว า</u>	<u>เณร</u>	<u>ร อ ง</u>
<u>ย</u>	<u>ตลาต</u>	<u>ฤทธ ั ั</u>
		<u>ฤช ั</u>

ฤๅษี

ลลิตา

ภาษา

วก

ศาล

หริภุญช์

ชัย

หฤทัย

หลง

แห่ง'

แห่ง

แหม่ม

แหม่มหวง

แหบ

แหม่ม

อาน

ฮา

Algorithmic Aspect

The above principle, with appropriate character code assignment such as TIS-620 and ISO/IEC 10646, almost allows C standard library function `strcmp()` to collate Thai strings without much more complication, except:

Leading vowels (เ - แ - โ - ใ - ไ -, corresponding to characters

U0E40-U0E44), which are written before consonants, must be considered after the initial consonant. Therefore, the rearrangement is needed before comparison.

Diacritics and tone marks (- ̂ - ̄ - ̆ - ̈ - ̊ - ̋ - ̌) must be ignored in the first pass, and be considered at later pass if the first pass yields equality.

And these are the only two mandatory requirements for Thai string collation algorithms. No syllable structure nor word boundary analysis is required, as Thai lexicons are ordered alphabetically, not phonetically.

Leading Vowel Rearrangement

To fulfill this requirement, either a preprocessing or collating-element grouping is required. The preprocessor scans the string once and swaps every leading vowel with its succeeding letter. The preprocessed string is then passed to the normal weight calculation process. Another way to manage this is by means of collating-element formation. Every possible pair of leading vowel and consonant is defined as a collating-element, whose weight equals to that of the rearranged substring.

Note that the rearrangement of a leading vowel is simply performed with its immediate succeeding consonant. No consonant cluster analysis is needed. Indeed, doing so would result in ambiguities or yield a different order than that specified in the Royal Institute Dictionary. For example:

1. Ambiguities. The problem with ambiguity is illustrated by the word “เ พ ล ำ ”. It has two potential pronunciations: either as a two-syllable word, “phe-la” (meaning “time”), or as a one-syllable word, “phlao” (meaning “axle” or “abate”). A rearrangement algorithm which follows the distinct pronunciation of the potential cluster ‘พ ล ’ in this string would result in distinct keys, “พ เ ล ำ ” and “พ ล เ ำ ”, and therefore different weights, which are equally legal. Both words need to have the same weight to be sortable, however.

2. Non-conforming Ordering. To illustrate the difference in ordering caused by the treatment of consonant clusters, consider these words, shown in conforming order: “เ พ ล , เ พ ล ง , เ พ ศ ”. The correct rearrangement ignores any clusters and results in the following: “พ เ ล , พ เ ล ง , พ เ ศ ”, which sorts in the order shown.

If, however, pairs of consonants that form legal clusters were grouped as single collation elements (regardless of actual pronunciation where the potential pronunciation is ambiguous), then the results of rearrangement would be “<พล >เ , <พล >เ ง , พล เ ค์ ”, which would yield the (non-conforming) ordering “เ พล ค์ , เ พล , เ พล ง ”.

Again, if actual clusters were grouped as single collation elements (with some disambiguation effort), then the results of rearrangement would be

“พล เ ล , <พล >เ ง , พล เ ค์ ”, which would yield the (non-conforming) ordering

“เ พล , เ พล ค์ , เ พล ง ”.

The Multiple Levels of Character Weights

The second requirement of the algorithm, relating to the treatment of diacritics and tone marks, implies multiple levels of weights. Tone marks and diacritics must be ignored in the first level, and weigh more than consonants and vowels in the second level.

There are ten Thai decimal digits (๐ ๑ ๒ ๓ ๔ ๕ ๖ ๗ ๘ ๙), each semantically equivalent to Arabic digit 0-9, respectively. Their weights are then equal to their corresponding Arabic digits in the first level, and are different in the second level, to distinguish languages.

When punctuation marks (ฯ ๑ ๒ ๓ ๔ ๕ ๖ ๗ ๘ ๙) are concerned, another level of weights is required for them. This corresponds to the fourth level in the Common Template Table. In string ordering, punctuation marks are less significant than any tone marks and diacritics, and must be ignored in all the first three levels.

For example, “ข ำ ง ๑ , ข ำ ง ก บ , ข ำ ง ๑ ค ๑ ๑ .

ข ำ ง จ ำ น ” is a valid order in the Royal Institute Dictionary. In the first level, the

considered weights are ข ำ ง , ข ำ ง ก บ , ข ำ ง ค ๑ , ข ำ ง จ ำ น respectively.

The third level is not defined for Thai string ordering, but is reserved for tailoring.

Annex D -- Tutorial on solutions brought by this standard to problems of lexical ordering (informative)

Why aren't existing standard codes, character by character comparisons, and commercial sort programs appropriate for sorting, and what must be done to solve the problem? For clarity, this discussion will start with the Latin script.

- i. Sorting, in any language using the Latin script, including English, using standard ISO/IEC 646 coding, does not follow traditional dictionary sequence, which is the minimum the average user needs.

Example: Sorting the list "august", "August", "container", "coop", "co-op", "Vice-president", "Vice versa" gives the following order, if ISO/IEC 646 coding is used and a simple sort following binary order is performed:

```

August
Vice versa
Vice-president
august
co-op
container
coop

```

This ordering is obviously incorrect.

- ii. Transforming lower case to upper case and removing special characters yields a sorted list acceptable to users, but also yields unpredictable results.

Example: Sorting the list "August", "august", "coop", "co-op" gives the following order:

```

August
august
coop
co-op

```

Sorting the same list with a different initial order, say, "august", "co-op", "August", "coop" may give a different order with this method:

```

august
August
co-op
coop

```

- iii. If accented characters are introduced using for example any ISO/IEC 8-bit character set, the same problems encountered in examples i and ii above are amplified but they share the same causes.
- iv. If tables are reorganized to make all related characters contiguous, one might think that a simplified single-character sort would result, but this does not work either. Take upper and lower case unaccented letters as an example. If code position 01 is assigned to "a", code position 02 assigned

to "A", code position 03 to "b", code position 04 to "B" and so on, a list sorted directly according to these rearranged values will yield the following:

Sorted List	Internal Values
aaaa	01010101
abbb	01030303
Aaaa	02010101
Abbb	02030303

This is also predictable, but remains obviously incorrect for any country with regard to cultural expectations.

- v. The only solution is to decompose the initial data in a way which will respect traditional lexical order, and at the same time ensure absolute predictability. For the Latin script, this necessitates at least four levels:

1. The first decomposition renders information to be sorted case-insensitive and insensitive to diacritical marks, removing all special characters (which have no pre-established traditional order).

An example using English:

"résumé" ('curriculum vitae') becomes "resume" ('begin again'), without any accent.

An example using French:

"Vice-légation" becomes "vicelegation", with no accent, no upper case and no hyphen.

An example using German:

"groß" becomes "gross", with the sharp-s being converted to double-s to render it case insensitive.

In some languages including Spanish or Nordic languages, some extra letters are added to the 26 fixed letters of the English, French and German alphabets, which are not ordered according to the expectations of those languages. This demonstrates the need for adaptability.

2. The second decomposition breaks ties on quasi-homographs, that is, strings that differ only because they have different diacritical marks. In English, "resumé" and "résumé" are quasi-homographs. Traditional English lexical order requires that "resume" always comes before "résumé" (which sorting using only the first level would not guarantee). In this case, the tradition does not explicitly specify whether "resumé" should come before "résumé", though this would seem logical: most English and German dictionaries only state that unaccented words precede the accented words - However German dictionary generally employ the German standard DIN 5007, which states more precise rules.

Here another characteristic is introduced. In French, because of the large number of multiple quasi-homograph groups formed of more than 2 instances, the most important dictionaries follow the following rule: accents are generally not taken into account for sorting, but in case of homographic ties, the *last difference* in the word determines the correct order between two given words, a priority order being then assigned to each type of accent. According to this, "coté" should be sorted after

"côte" but before "côté". This is easy to implement with "backwards" tailoring: a number is assigned to each character of the data to be sorted, representing either a letter with an accent or a letter with no accent at all, but these numbers are stacked instead of being added to a linear list: in other words, the resulting string is made starting from the last character of the original data and processing in a backwards direction.

Example: to obtain an order respecting this rule: "cote", "côte", "coté", "côté", numbers could be assigned indicating respectively "*****", "**c*", "a****", "a*c*", where "*" means no accent, "a" means acute accent, "c" circumflex accent. Here this scheme is sufficient to break the tie correctly at this second level.

3. The third decomposition breaks ties for quasi-homographs which differ only because upper-case and lower-case characters are used. This time, the tradition is well established in German dictionaries, where lower case always precedes upper case in homographs, while the tradition is not well established in French dictionaries, which generally use only accented capital letters for common word entries. In known French dictionaries where upper and lower case letters are mixed, the capitals generally come first, though this is not an established and stated rule, because there are numerous exceptions. English has no monolithic practice for this, a bit like French. So for a Common Template it is advisable to use the well-established German tradition, if one wants to group the largest possible number of languages together without affecting others. Note that in Denmark, upper case is specified to precede lower case, a different but well-established rule. This is a second fact which demonstrates the need for adaptability in the model used in this International Standard.

Example: to have the following order: "august", "August", numbers could be assigned indicating respectively "lililil", "ulilil", where "l" means lower case and "u" upper case.

4. The fourth decomposition breaks the final tie which, in general, does not correspond to any strong tradition, namely, the tie between quasi-homographs differing only because they contain special characters. Breaking this tie is essential to ensure the absolute predictability of ordering as well as enabling the ordering of strings composed only of special characters. Since the traces of special characters were removed from the original data to form the three first orders of decomposition, simply putting them sequentially in the fourth order of decomposition would mean that their position would be lost. These positions are quite important to solve remaining ties and in consequence the original positions of these special characters must be retained: two quasi-homographs could each contain a common special character in different positions and thus be strictly different (example: "ab*cd" is different from "a*bcd" despite they share one and only one common special character).

Example: to obtain the following order: "coop", "co-op", "coop-", numbers could be assigned respectively according to the following pattern: "d", "d3-" and "d5-", where "d" is an ever-present delimiter separating this decomposition from the first three in case all four decompositions are to be concatenated to form a single sorting key based on numeric values (see discussion in the next paragraph). "3-" means a hyphen in position 3 of the original string. "5-" means a hyphen in position 5, and so on.

These four decompositions can be structured using a four-level key, concatenating the subkeys from the highest significance to the lowest. If the coded assignment of numbers is done properly, instead of necessitating a cumbersome exception process for dealing with homographs, all decompositions may be made at once and resulting strings concatenated and passed through a standard ordering program sorting in numeric order. To attain this result, it is sufficient that the numbers chosen for the first decomposition code set be greater than numbers chosen for the second one, the second one's greater than the third one's, and that the delimiter chosen for the fourth decomposition be less than the lowest possible number coded elsewhere for the sort (a delimiter called logical zero), in which case no restriction applies to the content of the fourth decomposition. An easier implementation

might just choose to put the lowest value possible as a delimiter between each subkey, in which case no restriction ever applies.

This method was fully described with tables in *Règles du classement alphabétique en langue française et procédure informatisée pour le tri*, Alain LaBonté, Ministère des Communications du Québec, 1988-08-19, ISBN 2-550-19046-7.

Reduction techniques have been designed to considerably shorten space requirements. As no implementation is required to use specific numbers for weights and neither reduction nor compression is required, this issue is outside the scope of this International Standard. Nevertheless, it is interesting to note that implementation can be optimized. This has been improved over time and is easy to accomplish, some methods being more efficient than others.

A public-domain reduction technique is described in details (with numerous examples) in *Technique de réduction - Tris informatiques à quatre clés*, Alain LaBonté, Ministère des Communications du Québec, 1989-06 (ISBN 2-550-19965-0).

- vi. For a number of languages, the Common Template presented in this standard will need to be adapted, both in the table values for the four orders of keys (which can require redefining characters or introducing multicharacter collating elements into the table) and in the potential context analysis processing necessary to achieve culturally correct results for users of these languages. To illustrate this (without discussing context analysis which is not necessary in what follows), examples of dictionary sequences are given here for two languages which native order is not in the Common Template table:

Traditional Spanish (where "ch" is greater than "cu" and "ña" is greater than "no"):
cuneo<cúneo<chapeo<nodo<ñaco

(Comparative French/English/German sort:
chapeo<cuneo<cúneo<ñaco<nodo)

Danish (where "a" is less than "c", "cz" is less than "cæ" and "cø", and "aa" is equivalent to "å", which is greater than "z", even in cases where it is pronounced differently):
Alzheimer<czar<cæsium<cølibat<Aachen<Aalborg<Århus

(Comparative French/English/German sort:
Aachen<Aalborg<Alzheimer<Århus<cæsium<cølibat<czar)

Annex E -- Description of a collating sequence definition (informative)

Note: This text is relevant within the context of standards ISO/IEC 9945-2 and ISO/IEC 14652 of which ISO/IEC 14651 is complementary but independent. This annex is informative as far as conformance to this International Standard is involved. The use of the word "shall" in this annex is indicative only and is to be interpreted only within the framework of International Standards ISO/IEC 9945-2 and ISO/IEC 14652, which should be consulted for more accurate information.

A collation sequence definition defines the relative order between collating elements (characters and multicharacter collating elements). This order is expressed in terms of collation values; i.e., by assigning each element one or more collation values (also known as collation weights). This does not imply that applications shall assign such values, but that ordering of strings using the resultant collation definition shall behave as if such assignment is done and used in the collation process. The collation sequence definition is used by regular expressions, pattern matching, and sorting. The following capabilities are provided:

- (1) Multicharacter collating elements. Specification of multicharacter collating elements (i.e., sequences of two or more characters to be collated as an entity).
- (2) User defined ordering of collating elements. Each collating element shall be assigned a collation value defining its order in the character (or basic) collation sequence. This ordering is used by regular expressions and pattern matching and, unless collation weights are explicitly specified, also as the collation weight to be used in sorting.
- (3) Multiple weights and equivalence classes. Collating elements can be assigned one or more collating weights for use in sorting. The first weight is hereafter referred to as the primary weight.
- (4) One to Many mapping. A single character is mapped into a string of collating elements.
- (5) Many to Many substitution. A string of one or more characters is substituted by another string (or an empty string, i.e., the character or characters shall be ignored for collation purposes).
- (6) Equivalence class definition. Two or more collating elements have the same collation value (primary weight).
- (7) Ordering by weights. When two strings are compared to determine their relative order, the two strings are first broken up into a series of collating elements, and each successive pair of elements are compared according to the relative primary weights for the elements. If equal, and more than one weight has been assigned, then the pairs of collating elements are recompared according to the relative subsequent weights, until either a pair of collating elements compare unequal or the weights are exhausted.
- (8) Easy reordering of characters. ISO/IEC 14651 has a template for collation specification that with just a few modifications can be culturally correct for a specific culture. Here the "reorder-after" keyword gives a convenient way to modify a FDCC set template.
- (9) Easy reordering of sections. The template in ISO/IEC 14651 gives an ordering of the sections that may not be culturally acceptable in certain cultures. The keyword "reorder-section-after" gives a convenient way to modify the order of sections in a FDCC set template.

The following keywords shall be recognized in a collation sequence definition. Some of them are described in detail in the following subclauses:

collating_element	Define a collating element symbol representing a multicharacter collating element. This keyword is optional.
order_start	Define collation rules. This statement is followed by one or more collation order statements, assigning character collation values and collation weights to collating elements.

order_end	Specify the end of the collation order statements.
reorder_after	Redefine collating rules. Specify after which collating element the redefinition of collation order shall take order. This statement is followed by one or more collation order statements, reassigning character collation values and collation weights to collating elements.
reorder_end	Specify the end of the "reorder after" collating order statements.
reorder_section_after	Redefine the order of sections. This statement is followed by one or more section symbols, reassigning character collation values and collation weights to collating elements.
reorder_section_end	Specify the end of the "reorder sections" section order statements.

E.1— Collation statements

The "order_start" and "replace after" keywords shall be followed by collating statements. The syntax for a collating statement is

~~—collating_statement = collating_identifier space weight ("," weight)*~~

~~Each <collating identifier> shall consist of either a character, a <collating element>, a <collating symbol>, an ellipsis, or the special symbol "UNDEFINED". The weights for each of the collation elements determines the character collation sequence—such that each collation statement does not need to be in collation order, and weights could be rearranged via for example the "replace after" keyword. No character has any specific predetermined placement in the collation sequence. The order in which collating elements are specified determines the character collation sequence, such that each collating element shall compare less than the elements following it.~~

~~A <collating element> shall be used to specify multicharacter collating elements, and indicates that the character sequence specified via the <collating element> is to be collated as a unit and in the relative order specified by its place.~~

~~A <collating symbol> shall be used to define a position in the relative order for use in weights.~~

~~The symbolic ellipses (".." or "...") specifies a sequence of collating statements. It shall be interpreted as indicating that all characters with symbolic names higher than the symbolic name of the character in the preceding line, and lower than the coded character set value for the character in the following line, shall be placed in the character collation order between the previous and the following character in ascending order.~~

~~The optional operands for each collation element shall be used to define the primary, secondary, or subsequent weights for the collating element. The first operand specifies the relative primary weight, the second the relative secondary weight, and so on. Two or more collation elements can be assigned the same weight; they belong to the same equivalence class if they have the same primary weight. Collation shall behave as if, for each weight level, "IGNORE"d elements are removed. Then each successive pair of elements shall be compared according to the relative weights for the elements. If the two strings compare equal, the process shall be repeated for the next weight level, untill all weight levels are exhausted.~~

~~Weights shall be expressed as characters (in any of the forms specified here), <collating symbol>s, <collating element>s, an ellipsis, or the special symbol "IGNORE". A single character, a <collating symbol>, or a <collating element> shall represent the relative order in the character collating sequence of the character or symbol, rather than the character or characters themselves.~~

~~One to many mapping is indicated by specifying two or more concatenated characters or symbolic names. Thus, if the character <ss> is given the string <s><s> as a weight, comparisons shall be performed as if all occurrences of the~~

character `<ss>` are replaced by `<s><s>`. If it is desirable to define `<ss>` and `<s><s>` as an equivalence class, then a collating element must be defined for the string "ss".

The special keyword "IGNORE" as a weight shall indicate that when strings are compared using the weights at the level where "IGNORE" is specified, the collating element shall be ignored, i.e., as if the string did not contain the collating element. In regular expressions and pattern matching, all characters that are "IGNORE"d in their primary weight form an equivalence class.

A `<comment_character>` occurring where the delimiter ";" may occur, terminates the collating statement.

An empty operand shall be interpreted as the collating element itself.

A symbolic ellipsis can be used as an operand if the collating element was an ellipsis, and shall be interpreted as the value of each character defined by the ellipsis.

E.2 "collating_element" keyword

In addition to the collating elements in the character set, the collating element keyword shall be used to define multicharacter collating elements. The syntax is:

```
"collating_element" collating_symbol "from" string
```

The `<collating_symbol>` operand shall be a symbolic name, enclosed between angle brackets (`<` and `>`), and shall not duplicate any symbolic name in the current charmap or repertoire map file (if any), or any other symbolic name defined in this collation definition. The string operand shall be a string of two or more characters that shall collate as an entity. A `<collating_element>` defined via this keyword is only defined within the LC_COLLATE category.

Note: The problem of comparing a fully composed character of ISO/IEC 10646 with a decomposed representation of the same text is normally handled by the two strings comparing equal up to level 3 (the case level), but distinguishing the two at the 4th level, if available.

E.3 "order_start" keyword

The "order_start" keyword shall precede collation order entries and also defines the number of weights for this collation sequence definition, the collation section name and other collation rules. The syntax is:

```
"order_start" space {section_symbol ";"} sort_rules {";" sort_rules}*
```

The operands to the "order_start" keyword are optional. If present, the operands define rules to be applied when strings are compared. The first operand may be a `<section_symbol>` surrounded by "`<`" and "`>`" and the set of collating statements following the "order_start" keyword until the "order_end" keyword are identified with this `<section_symbol>` or another "order_start" keyword is encountered. The remaining number of operands define how many weights each element is assigned; if no operands are present, one forward operand is assumed. If present, the first operand defines rules to be applied when comparing strings using the first (primary) weight; the second when comparing strings using the second weight, and so on. Operands shall be separated by semicolons (;). Each operand shall consist of one or more collation directives, separated by commas (,). The following directives shall be supported:

forward — Specifies that the direction of scanning a part of a string at a given point in a string is done towards the logical end of the whole string for this weight level.

backward — Specifies that the direction of scanning a part of a string at a given point in a string is done towards the logical beginning of the whole string for this weight level.

position — Specifies that comparison operations for the weight level will consider the relative position of non "IGNORE"d elements in the strings. The string containing a non "IGNORE"d element after the fewest IGNOREd collating elements from the start of the compare shall collate first. If both strings contain a non "IGNORE"d character in the same relative position, the collating values assigned to the elements shall determine the ordering. In case of equality, subsequent non-IGNOREd characters shall be considered in the same manner.

The directives "forward" and "backward", and "backward" and "position", are mutually exclusive at a given level.

If no operands are specified, a single forward operand shall be assumed.

E.4 "order_end" keyword

The collating order entries shall be terminated with an "order_end" keyword.

E.5 "reorder_after" keyword

The "reorder after" keyword shall be used to specify a modification to a copied collation specification of an existing FDCC set. There can be more than one "reorder after" statement in a collating specification. The syntax is:

— "reorder after" space collating_symbol

The <collating symbol> operand shall be a symbolic name, enclosed between angle brackets, and shall be present in the source. The "reorder after" statement is followed by one or more collation statements as described in the "Collating Order" clause (Annex.5).

Each collation statement reassigns character collation values and collation weights to collating elements existing in the copied collation specification, by removing the collating statement from the copied specification, and inserting the collating element in the collating sequence with the new collation weights after the preceding collating element of the "reorder after" specification, the first collating element in the collation sequence being the <collating symbol> specified on the "reorder after" statement.

A "reorder after" specification is terminated by another "reorder after" specification or the "reorder_end" statement.

E.6 "reorder_end" keyword

The "reorder_end" keyword shall specify the end of a list of collating statements, initiated by the "reorder after" keyword.

E.7 "reorder_sections_after" keyword

The "reorder_sections_after" keyword shall be used to specify a modification to a collation specification. The "reorder_sections_after" statement is followed by one or more statements consisting of section reordering statements.

E.8 section reordering statements

The section reordering statements rearranges the set of collating entries and changes sorting rules for the set of collating entries identified by a section symbol in a preceding "order_start" statement. Each section reorder statement has the syntax:

~~—section_symbol space sort_rules { ";" sort_rules } *~~

~~The <section_symbol> identifies the set of collating entries.~~

~~The <sort_rules> are as described for the "order_start" keyword. Specified <sort_rules> replace the specification for the ordering of the section given on the "order_start" statement identified by the <section_symbol>. The <sort_rules> are optional and <sort_rules> not to be changed may be given by empty specifications.~~

~~The order of the section reordering statements rearranges the assignment of collation entries for the sets of collation entries identified by the <section_symbol>s to the order that the <section_symbols> occur after the "reorder sections after" statement.~~

~~The section reordering statements are terminated by a "reorder sections end" statement.~~

~~E.9 "reorder sections end" keyword~~

~~The "reorder sections end" keyword shall specify the end of a list of section symbols, initiated by the "reorder sections after" keyword.~~

Annex ~~F~~E – BIBLIOGRAPHY (informative)

The following standards and documents are considered relevant to this standard, in addition to the normative references.

CAN/CSA Z243.4.1-1998 – *Canadian Alphanumeric Ordering Standard – A National Standard of Canada*, Canadian Standards Association

CAN/CSA Z243.230-1998 – *Minimum Canadian Software Localisation Conventions – A National Standard of Canada*

DS 377 (1980) – DS 377:1980 *Alfabetiseringsregler* – Dansk Standard

ISO/IEC 646, *Information technology – ISO 7-bit coded character set for information interchange*

ISO/IEC 2022, *Information technology – Code extension techniques*

ISO/IEC 6937, *Information technology – Coded character sets for text communication*

ISO/IEC 8859-1, *Information technolog – 8-bit single-byte coded graphic character sets -- Part 1: Latin alphabet No. 1*

ISO/IEC 8859-1, *Information technology – 8-bit single-byte coded graphic character sets -- Part 15: Latin alphabet No. 9*

ISO/IEC 9945-2, *Information Technology – Portable Operating System Interface (POSIX) - Part 2: Shell and Utilities*

ISO/IEC DTR 14652, *Information Technology -- Specification Method for Cultural Conventions* (~~FCD~~)

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