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Title   **ISO/IEC CD 14651** - International String Ordering - Method for comparing Character Strings and Description of the Common Template Tailorable Ordering

[ISO/CEI CD 14651 - Classement international de chaînes de caractères - Méthode de comparaison de chaînes de caractères et description du modèle commun d'ordre de classement]

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FOREWORD

ISO (International Standards Organization) and IEC (International Electrotechnical Commission) form the specialized bodies for world-wide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees. These technical committees are established by the respective organization to deal with particular fields of mutual interest. In liaison with ISO and IEC, other international organizations, governmental and non-governmental, 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 worldwide, and provides a common template table whose tailoring eases adaptation of a specific script while retaining universal properties for other scripts. The purpose of such a mechanism is to correct errors of the past regarding only collation on binary coded character values. Past approaches have often not respected cultural preferences for collation. English is one exception, although a poor one, when only upper case alphabetic data was used instead of other characters including punctuation and spacing.

This is one of the major flaws that affect portability between countries and between applications. (Traditionally, different programs use different ordering specifications.) Therefore, it has been considered feasible to design a Common Template Tailorable Ordering Mechanism (a method and a unique table). This mechanism will constitute an acceptable tool that will make sense for most users of different scripts. Also, many simple applications will be able to use the mechanism without modification. These applications use ordering dependencies that are not dependent on any context.

To achieve these requirements, the comparison and ordering mechanism on which focus is directed here is included in a more general model. The general model is also described in this international standard. The general model allows multiple-field ordering and prehandling and posthandling transformation phases. The ordering mechanism assumes this higher-level scheme.

To simplify matters, the Common Template Tailorable Ordering Mechanism will describe a method to order text data independently of context. The method will be culturally acceptable to a majority of world-wide environments (with provisions to accommodate more local contexts).

The design of this international standard keeps in mind that old systems could also integrate culturally valid ordering with minimal changes. Therefore, the basic API makes it possible to work on ready-made bit strings directly comparable by any application that is able to compare binary data but not necessarily able to interpret character strings correctly for comparisons according to a particular sort table. It is also possible to work at a higher level where interpretation of the character strings is made only when required.

1 Scope

This international standard defines:

- an application program interface for doing deterministic and internationalized character string comparisons. The interface is applicable on strings that exploit the full repertoire of ISO/IEC 10646 (independently of coding) or subsets, so that these comparisons be applicable for subrepertoires such as those of ISO 8859 parts, and in a given set of languages for each script. This interface uses transformation tables derived from either the common template provided or from its tailoring.

- a specific Common Template order description used by the preceding specification for the ISO/IEC 10646 characters; this Common Template enables to specify culturally acceptable ordering to a maximum of cultures with minimal efforts.

  It is to be considered normal practice that this Common Template order be modified with a minimum of efforts to suit the needs of a local environment. The main benefit, worldwide, is that for other scripts, no modification is required and that the order will remain as consistent as possible and predictable from an international point of view.

2 Normative References

ISO/IEC CD 14652 Cultural Conventions Specification

ISO/IEC 10646-1 Information technology -- Universal Multiple-Octet Coded Character Set (UCS) -- Part 1: Architecture and Basic Multilingual Plane

ISO/IEC 9899:1990 Programming languages -- C

3 Definitions

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

API	Application Program Interface, defined as a standardized application process describing the specifications of different procedures with their input and output
canonical form	the coding of a UCS character in 4 octet binary form according to ISO/IEC 10646-1
character string	a series of characters concatenated in logical sequence
collation	ordering of elements
collating symbol	a symbol used to specify weights assigned to a character in a symbolic fashion rather than absolutely
collating element	the smallest entity used to determine the logical ordering of strings. It normally consists of either a single character, or two or more characters collating as a single entity
concatenation	logical operation which consist in adding an element at the end of a string to consider the result as a new string, longer than the first one (it is like adding a new wagon to the tail of a train)
equivalence	in a comparison between two character strings, a form of partial equality between the two strings. After decomposition of the two strings in different levels according to the ordering table, there may exist an equality at the first levels, without this equality continuing to exist at subsequent levels. Even if one can not talk about absolute equality in this case, it is a kind of equivalence. The typical case, for Western languages, is the equivalence, sometimes desired, between a word written in upper case letters, and its counterpart in lower case. In this case one can talk about equivalence up to level 2, since case is evaluated at level 3, where a difference will be found. In the same vein, an accented character may sometimes be considered, for example for searching purposes, as equivalent to the same letter, unaccented.
field	for the purposes of this International Standard, a single character string or any other data type which may be ordered alone or in conjunction with other fields of a record, each field of a record being compared to the same field of another

	record; in case of absolute equality of two equivalent fields, other fields of the records will have to be compared to eventually solve a tie.
first order token	an absolute number used as a comparison element, obtained out of tables for the first level that describes a character; note that some characters, such as ligatures, may lead to more than one token for a character at one given level
fourth order token	an absolute number used as a comparison element, obtained either out of tables for the fourth level that describes a special character, or specifying the position of the special character represented in the original string; tokens of the fourth order level are always in pairs, the first token being a position, the second one being a weight for the character represented
graphic character	a character, other than a control function, that has a visual representation normally handwritten, printed, or displayed
level	whenever used without qualification in this International Standard, "level" stands for "key level" or "precision level" (when a conformance level will be meant, the expression "conformance level" will be precisely mentioned): degree of precision of a comparison; normally a weight is assigned to each character of a character string which must be compared to another one at a given level of precision; when comparison does not break ties at this level, then another weight is assigned to each character of the string at the next level of precision (see actual example in 5.2.1.1)
numeric relative value	the relative value of a given weight, or token, compared to other ones, in its final numeric and processable form
ordering	a process in which a set of fields composing a record are assigned a given order relative to any other set of fields composing other records of a file
ordering key	a series of bits, the numerical value of which determines its order; to a character string may be allocated a series of tokens, which correspond, level by level, to weights assigned to characters
ordering subkey	a sub-series of bits in an ordering key - an ordering subkey corresponds to the set of tokens corresponding to the weights of a character string assigned to a given level of precision
posthandling	a process in which an ordering subkey is processed internally after the straightforward comparisons done according to the APIs defined in this standard
prehandling	a process in which character strings are modified internally to lead to straightforward comparisons according to the APIs defined in this standard
record	the exhaustive structured set of fields that form a monolithic block in a file, this set belonging together according to specific application-defined requirements
reference string	in a comparison operation, the string which serves as a base reference for comparison; the string to which another string is compared

referenced string — in a comparison operation, the string which is being compared to a reference string

second order token — an absolute number used as a comparison element, obtained out of tables for the second level that describes a character; note that some characters, such as ligatures, may lead to more than one token for a character at one given level

string — a series of individual elements which form a whole, when they are concatenated, i.e. linked together like wagons in a train; a character string is a series of characters, a bit string is a series of bits

procedure process — a programmed entity equipped with input parameters and accomplishing a

from this input to produce a result returned back into output parameters

symbolic relative value — the relative value of a given weight, or token, compared to other ones, in its symbolic, human-readable text format

third order token — an absolute number used as a comparison element, obtained out of tables for the third level that describes a character; note that some characters, such as ligatures, may lead to more than one token for a character at one given level

transformation — An operation performed prior to comparison or ordering, which, for the purposes of this International Standard, modifies an original input character or character string into a different output character or into a single or multiple character strings. For example, given the input number "5", a transformation may result in the output character string "cinq" in French, or "fünf" in German or "five" in English, or all three if desired).

4 Symbols and abbreviations

Identification of characters of the ISO/IEC 10646 repertoire will be by means of symbols of the form <U[XXXX]XXXX>. The occurrences of XXXX which follow the letter "U" represent the hexadecimal value (using upper case letters when applicable) of a coded character as defined in ISO/IEC 10646. This is a means to be code-independent (the same value being possibly used even if the coded character set in use in a given implementation is not ISO/IEC 10646). At the same time, this is a means to keep a straightforward link with the Universal Multiple-Octet Coded Character Set, which is assumed to contain all the coded graphic characters ever defined by ISO/IEC. Addenda to ISO/IEC 10646 will be published from time to time; these addenda may then also give way to addenda in this international standard if necessary.

If a character outside of the standard repertoire of ISO/IEC 10646 is to be used in tailored ordering tables, it is recommended that the code-independent symbol identifying this character use the form <U8XXXXXXX> for documentary purposes indicating its nonstandard nature. The binding of these symbols referring to nonstandard characters to actual coding is done through a repertoiremap as defined in ISO/IEC 14652. If, for example, actual UCS coding is used, then private zones of this character set will normally be used, and binding then is normally specified in this way.

Whenever possible, in the Common Template ordering table, glyphs are used in comments alongside with character ordering definitions. This gives a more accurate understanding of characters in question. It is understood that these glyphs may be removed in machine-readable files.

The collating-symbol statements will include declarations of symbols used as intermediary values for:

-possible collating elements that are composed of sequences of graphic characters. An example is tailoring the Common Template to Danish. The digraph "aa" is composed of a sequence of two graphic characters which, in Danish, are considered as a single letter of the alphabet and require a single ordering definition.

-possible collating elements that require an intermediate definition for other reasons

For easy cross-referencing the various weights, numeric relative values (informative) will be shown in the table as comments. A system of short mnemonics intended to replace glyphs when it is not possible to transmit them will also be used in tables alongside with glyphs representing characters, whenever possible.

5 Requirements

This international standard can be implemented with three conformance levels of increasing complexity. Hence the first conformance level (conformance level A) is limited to a comparison API using the fixed common template specified in annex 1 (table 1) with the result precision fixed; the second conformance level (conformance level B) requires in addition the possibility to invoke a tailored ordering table, and the third conformance level (conformance level C) requires the API to allow the choice of the table and of the result precision. Levels of conformance applicable to each requirement are specifically indicated in the following subclauses.

5.1 Prehandling phase (external to the comparison operation API)

5.1.1 Prehandling of the symbolic table data

This requirement shall be met for conformance levels greater than 1.

It is recommended that tailoring be done starting with the Common Template table described in annex 1. This tailoring shall be done according to the specification of ISO/IEC 14652.

The symbolic table, as provided in annex 1 or as modified in a tailoring process, shall be presented in a numeric form to the comparison operation API described hereafter. The table handled by the comparison operation API shall consist of a matrix of n lines by m columns, n being the number of characters in the character set used and m being the number of levels provided in the symbolic data, each element of the matrix being a numerical token indicating one or more relative weights. The exact values used for the weights and how these numbers are represented internally is implementation-defined. However the values used shall respect the order specified in the symbolic table data.

As prehandling can be done on many different tables in a given application environment, each one shall be identified by a name in this environment. Conformance level C requires that the API shall allow to choose a table built at a preceding time.

5.1.2 Prehandling of character strings provided to the comparison operation API

It may be necessary to transform a field of a record or to transform unstructured records into structured fields before the actual ordering process can begin. This process is called prehandling. The implementer is responsible for ensuring that prehandling has been done prior to the ordering process. For examples of how applications can take advantage of prehandling, see Annex B. This is a global operation that may involve exploding records before ordering them. Therefore, the prehandling phase, unlike its posthandling counterpart, shall be done on a whole set of input records before any comparison is made. Thus, prehandling is not part of the comparison operation API. The comparison operation API will not contain any default method related to prehandling. However prehandling functionality shall be provided to the user by the application developer for allowing the use of this international standard in higher layers of the application.

The prehandling phase shall, as a minimum, transform the actual coded characters used on input in a coding consistent with the internal tables used by the comparison operation. If the actual coding in use corresponds to the coding assumed in the internal tables of the comparison API, and that no other prehandling is required, then the prehandling phase can correspond to an empty process.

Note :   Escape sequences constitute very sensitive data to interpret, and it is highly recommended that prehandling should filter out or transform these sequences. Ideally, all control characters should be filtered out before comparison and reintroduced in the posthandling phase in case of absolute homography, although they were assigned ordering values in the common template.

5.2 Comparison operation API

5.2.1 Multi-field key comparison

A comparison mechanism in conformance with this International Standard shall provide an API meeting the requirements of this section, which themselves depend of the selected conformance level (see section 6).

The general interface consists in three procedures called COMPCAR (Procedure 1 to compare two character strings), COMPBIN (Procedure 2 to compare two prefacbricated bit strings) and CARABIN (Procedure 3 to convert a character string into a prefabricated bit sring, processable direcly) in this International Standard.

Note : In the following descriptions, numbers (integers) are used. These values are not prescribed values. The implementer may choose more appropriate values for the application. The same applies to names of parameters, to their order and their exact types, those being subject to the requirements of the different programming languages.

Proposed names of procedures are only indicative : in a language binding, the specifications may choose other names than the ones given here.

5.2.1.1 Procedure 1 - Compare two character strings (COMPCAR)

Function: Comparison of two character strings, with respect to a stated precision level

Input Parameters:

- **string1**: referenced character string that is to be compared to the reference string (string2)

- **string2**: reference character string that is to be compared to the referenced string (string1)

- **precision**: level of precision required for the comparison. This is a value between 0 and n; this value specifies the precision level for the comparison requested, i.e. the last level at which the comparison must be operated before the mechanism concludes that the two strings are equivalent or not. Two strings are said equivalent at precision level n if their comparison up to this level (inclusively) results in equality.

   If the precision level specified is equal to zero or is greater than the last available level, the comparison will operate up to the last available level. Values less than zero for this parameter are reserved for future use in this standard.

   This parameter is fixed to value 0 for conformance levels A and B, which implies that the comparison is done up to the last level available in table **table**. Conformance level C allows the choice of the level of precision.

   As an example, consider the words "alpha" and "ALPHA". These words are equivalent at level 1 (alphabetic) and level 2 (diacritical marks). However, the words are different at level 3, where case is taken into account. If comparisons are requested up to level 2, then approximate equality, i.e. equivalence, will result. If level 3 or greater is required, then the two character strings will be considered different, and not equivalent.

- **table**: the name of the ordering table to be used to make the comparison. This is only required for conformance level C. If this parameter is not provided, the common template will be assumed. The default is the name "ISO14651_1998_TABLE1" which shall invoke the unmodified Common Template table described in annex 1 of this International Standard. Conformance level A requires the use of the latter table with tailoring.

Output Parameter:

- **return**: a number whose sign indicates the result of the comparison: **return**<0 if **string1** comes before **string2** ; **return**=0 is **string1** and **string2** are equivalent at precision level specified by input parameter **precision** ; and **return**>0 if **string1** comes after **string2**.

COMPCAR process:

This procedure shall be processed to give results equivalent to the following:

> This procedure shall be implemented to produce results *equivalent* to the following:

> 1. Submit character strings **string1** and **string2** and table **table** to procedure 3 [CARABIN] to convert them into binary strings that can directly be used for comparison. Results of these conversions are returned by procedure CARABIN in parameters **chbin1** and **chbin2**.

> 2. Execute procedure COMPBIN with parameters **chbin1, chbin2** and **precision** to get the result of the comparison in parameter **return**.

> **Examples of C language binding**

> A complete interface for conformance level C with all the above-described parameters could be expressed in the following C-language function prototype:

> int
> compcar(const char ***string1**, const char ***string2**, int **precision**, const char ***table**);

> The result of the comparison (**return**) is the value returned by the function.

> A minimum interface for conformance level A or B can very well use the standard C-language function model of strcoll() as follows :

> int
> strcoll(const char ***string1**, const char ***string2**);

> This limited   interface does not allow the choice of an ordering table different from the Common Template table, nor choices regarding the precision level. However the C language allows the use of a global locale which comprehends an ordering table.

5.2.1.2 Procedure 2 - Compare two prefabricated bit strings (COMPBIN)

Function: Comparison of two prefabricated bit strings (output of procedure 3 [CARABIN]), with respect to a stated precision level

Input Parameters:

- **chbin1**: referenced bitstring that is to be compared to the reference bitstring (chbin2)

- **chbin2**: reference bitstring that is to be compared to the referenced bitstring (chbin1)

- **precision**: level of precision required for the comparison. This is a value between 0 and n; this value specifies the precision level for the comparison requested, i.e. the last level at which the comparison must be operated before the mechanism concludes that the two bit strings (representing character strings after internal conversion to ease binary comparison) are equivalent or not. Two strings are said equivalent at precision level n if their comparison up to this level (inclusively) results in equality.

   If the precision level specified is equal to zero or is greater than the last available level, the comparison will operate up to the last available level. Values less than zero for this parameter are reserved for future use in this standard.

   This parameter is fixed to value 0 for conformance levels A and B, which implies that the comparison is done up to the last level available in table **table**. Conformance level C allows the choice of the level of precision.

   As an example, consider the words "alpha" and "ALPHA", whose prefabricated comparison bit strings are used. These words are equivalent at level 1 (alphabetic) and level 2 (diacritical marks). However, the words are different at level 3, where case is taken into account. If comparisons are requested up to level 2, then approximate equality, i.e. equivalence, will result. If level 3 or greater is required, then the two character strings will be considered different, and not equivalent.

Output Parameter:

- **return**: a number whose sign indicates the result of the comparison: **return**<0 if **string1** comes before **string2** ; **return**=0 is **string1** and **string2** are equivalent at precision level specified by input parameter **precision** ; and **return**>0 if **string1** comes after **string2**.

COMPBIN process

This procedure shall be implemented, in conjunction with implementing procedure 3 [CARABIN], so that the result of comparison between **chbin1** and **chbin2** be identical to the one expected from the comparison of the corresponding coded character strings **string1** and **string2** in conformance with this Standard.

Note : it is possible to design CARABIN so that implementing COMPBIN be reduced to a binary comparison, octet by octet, of the prefabricated binary strings, in case where **precision**=0. Other level values smaller than the highest available level require a more complex implementation of COMPBIN.

C language binding examples

A complete interface, at conformance level C, with this procedure in the C language can take the following form:

int compbin(const char ***chbin1**, const char ***chbin2**, int **precision**);

If procedure CARABIN is designed so that implementing COMPBIN is reduced to a binary comparison at precision level 0 (maximum), an interface in the C language of conformance level A or B may simply use the standard C function strcmp() :

int
strcmp(const char ***chbin1**, const char ***chbin2**);

5.2.1.3 Procedure 3 - Convert a character string to a comparable bit string (CARABIN)

Function: Conversion of a character string to a comparable bit string.

Input Parameters:

- **string**: character string that is to be converted to the bit string **chbin**

- **table**: the name of the ordering table to be used to make the comparison. This is only required for conformance level C. If this parameter is not provided, the common template will be assumed. The default is the name "ISO14651_1998_TABLE1" which shall invoke the unmodified Common Template table described in annex 1 of this International Standard. Conformance level A requires the use of the latter table.

Note : in order to avoid inefficiencies that could greatly affect applications, it is recommended that special care be taken in implementation not to compile the table **table** every time this function is called. The first call using a given table should open and compile this table and keep it open for further calls.

Output Parameter:

- **chbin**: bit string that is the result of converting the character string, **string**

> This parameter contains the comparable binary string resulting from the conversion. This binary string is normally coded to be equivalent to the making of multi-level binary keys described in clause 5.3. Such a binary string is the result of digesting the input character string as per the transformation table described in normative annex 1, with the knowledge that this table may have been adapted according to the description given in clause 5.5.

> The binary string structure chosen shall allow the procedures of the comparison API (in particular procedure COMPBIN) to delimit the different levels. Implementation may use any method appropriate for satisfying this requirement.

CARABIN process

This procedure shall be processed to give results equivalent to the following:

1. Digest the input character string **string** into a binary string which respects the requirements of clause 5.3 in using, for conformance level C, the table invoked by parameter **table**.

2. Return the resulting binary string in parameter **chbin**.

C language binding examples

A complete interface at conformance level C to this International standard can take the following form in the C language:

```
size_t
carabin(char *chbin, const char *string, size_t n, const char *table);
```

The input parameter **n** provides the size (in octets) of buffer **chbin** destined to contain the converted binary string. The value returned by the function indicates the number of octets actually copied in **chbin** ; if this value is greater than or equal to **n**, the function failed and the value of **chbin** is undetermined.

At conformance levels A or B, one can simply make use of the interface provided by the standard C-language function strxfrm(), which does not use parameter **table** but which is otherwise identical to the above carabin() example :

```
size_t
strxfrm(char *chbin, const char *string, size_t n);
```

5.3 Multilevel key building

The internal building of keys to be used for actual digital comparisons is implementation dependent. See informative annex C for an example on how this can possibly be done.

The binary string structure chosen shall allow the procedures of the comparison API (in particular procedure COMPBIN) to delimit the different levels. Implementation may use any method appropriate for satisfying this requirement.

5.4 Table formation

Table 1 is formed out of the LC_COLLATE specification data described in ISO/IEC 14652. Each of the collating element definitions of the Common Template contains multiple values (4 in the template). Each value corresponds to one internally-used token or more.

To be conformant to this international standard at any conformance level, the parameter couple "backward, position" shall never be specified for the last comparison level . These two parameters shall be considered mutually exclusive.

5.5 Common Template table (table 1)

Normative Annex 1 gives the international Common Template ordering table used as a template for tailoring localized applications working on the full repertoire of ISO/IEC 10646 (the Universal multi-octed coded character set).

The order of scripts as given in this table is slightly different from the order presented in ISO/IEC 10646. In the latter this order is rather arbitrary, and will become more arbitrary as scripts are added to the BMP and as Plane 1 is developed. In accordance with the general principles of the ordering standard, scripts have been ordered in the same kind of "logical" order in which similar or related scripts are kept near to one another in groups, e.g. simple European alphabetic scripts, right-to-left "semitic" scripts, Indic scripts, syllabaries (Ethiopic, Canadian Syllabics, Cherokee, Hangul), ideographic scripts. This order is less arbitrary and therefore considered more user-friendly. As this template is tailorable, users can reorder the scripts, or blocks of scripts according to local requirements.

6. Conformance

An API is conformant to this International standard :

1) at conformance level A when it is able to produce results implied by clause 5 according to a table tailored from the common template as defined in annex 1, with a fixed precision. This minimally requires setting some toggles (see the template's *ifdef* statements in table 1) ;
2) at conformance level B when it is able to produce results implied by clause 5 according to any fixed table[1] conformant to specifications of ISO/IEC 14652, with a fixed precision ;

3) at conformance level C when it is able to produce results implied by clause 5 according to multiple tables[2] conformant to specifications of ISO/IEC 14652, with the possibility to choose result precision[2].

Notes

1. The normative annex 1 (table 1) is a table that follows ISO/IEC 14652 in all its richness. It is strongly recommended that tailoring be done using it as a base.

2. Conformance Level C prescribes an API that allows to specify the table used and the precision required (see clause 5).

7. Data specification

7.1 Data specification

The symbolic data specified in the Common Template table of Annex 1 is conformant to the specification described in ISO/IEC 14652. Explanation of the structure of this table and of its different parameters is to be found in that International standard.

Although the data in table 1 defines a specific ordering, it should not be considered as an internationally acceptable default ordering but only as a starting point for the tailoring process prescribed in the next paragraph.

7.2 Tailoring Mechanism

International standard ISO/IEC 14652 specifies how the symbolic data of the table described in Annex 1 can be tailored according to local user requirements.

There are some ways for modifying the order defined by table 1. The most primitive way is to get a new table as a result of editing this table, but it is not an easy way, because it requires good knowledge of the specification described in ISO/IEC 14652.

Tailoring in this standard is applied to a process which gets a new table by copying table 1 as a whole and adding some instructions (keywords) defined in ISO/IEC 14652.

It is strongly recommended to care about the tailoring process of ISO/IEC 14652 and not avoid using it, even if the expected result is the same as the one expected as per common template.

Example 1 of tailoring:

To make the actual ISO/IEC 10646 UCS-2-coded combining sequence <E><ACUTE ACCENT> (i.e. <U0045> <U0301>) equivalent to character É, using the following CHARMAP statement can be done (there are also other methods to achieve the same goal, but this is a simple way to do it) :

<U00C9> x00450301

Once this is done, the definition of ordering U00C9 according to table 1 of this International Standard does not have to be modified as it is code-independent : it uses the identifier U00C9 (prescribed by ISO/IEC 10646)to identify the text element <É> .

Example 2 of tailoring:

To make Scandinavian letter Æ (i.e. <U00C6>, the identifier of this character) be ordered after Z rather than with the letter A, as in the common template, the following can be added after copying the template provided in Table 1.

reorder-after <z8>
<U00C6> <U00C6>;<BLANK>;<CAP>;IGNORE

Example 3 of tailoring:

To order the Latin script (symbol <La>) after the Arabic presentation forms (symbol <ARABFOR>) without affecting the order per se of any script described in Table 1, the following statements can be used :

copy "ISO14651_1998_TABLE1"
reorder-scripts-after <ARABFOR>
<La>
reorder-scripts-end

Normative annexes

Note: In this draft, annexes identified with a digit are intended to be normative. Annexes identified with a letter are intended to be informative.

Annex 1 (normative) International Common Template Table (Table 1)

In this ordering table constituting a common template, a number of scripts are missing, in some cases due to lack of data at time of editing, in other cases due to the non-inclusion of those scripts in ISO/IEC 10646 at time of publishing. It is the intent of ISO/IEC to complete ordering of those scripts explicitly in the common template whenever data becomes available by way of amendments to this International standard. In the meantime, implementers are encouraged to take advantage of the tailoring method provided in ISO/IEC 14652 to meet user sorting requirements. If the common template is not tailored for unspecified characters, then an implicit order is assigned in the following table, which might not meet user requirements of a particular community.

```
Name used for invoking this table of this version of this International
standard : ISO14651_1998_TABLE1


escape_char /
comment_char %

LC_COLLATE

% Script symbols/Symboles des systèmes d'écriture

script <Xx> % Special/Spécial
script <Xy> % Numbers/Numérotation
script <La> % Latin/Latin
script <El> % Greek/Grec
script <Cy> % Cyrillic/Cyrillique
script <Ka> % Georgian/Géorgien
script <Hy> % Armenian/Arménien
script <Ar> % Arabint (Arabic intrinsic/Arabe intrinsèque)
script <Ax> % Arabfor (Arabic forms/Formes de présentation arabes)
script <He> % Hebrew/Hébreu
script <Dn> % Devanagari/Devanâgari
script <Bn> % Bengali/Bengali
script <Gm> % Gurmukhi/Pendjabi
script <Gu> % Gujarati/Goudjarati
script <Or> % Oriya/Oriya
script <Ta> % Tamil/Tamoul
script <Te> % Telugu/Télougou
script <Kn> % Kannada/Kannara
script <Ml> % Malayalam/Malayalam
script <Th> % Thai/Thaï
script <Lo> % Lao/Laotien
script <Bo> % Tibetan/Tibétain
script <Jl> % Cherokee/Cherokee
script <Et> % Ethiopic/Éthiopique
script <Sl> % Canadian Syllabics/Syllabaire canadien
script <Yy> % Yi/Yi
script <Jk> % Kana/Kana
script <Hg> % Hangul/Hangul
script <Hn> % Hàn (CJK)/Hàn (CJK)

% Internal symbols/Symboles internes
```

```
collating-symbol <RES-1>
```

% Reserved symbol/Symbole reservé

% The collating symbol naming is
% mostly taken from ISO 10646-1;
% for example the case and accent
% names are based on the English or
% French names in that standard.

% Les noms des symboles qui suivent sont pour la plupart
% tirés de l'ISO/CEI 10646-1 ; par exemple les noms de la position de casse
% et des accents sont basés sur les noms anglais et français de cette norme.

% Xx (Specials/Spéciaux)

% Arabic forms/Formes arabes

```
collating-symbol <ANOR> % normal/normal
collating-symbol <AISO> % isolated/isolé
collating-symbol <AFIN> % final/final
collating-symbol <AINI> % initial/initial
collating-symbol <AMED> % medial/médian
```

% Accents/Accents

% In the accent names, final -S is mnemonic for
% BELOW (south) and final -N for ABOVE (north).

% Dans le nom des accents, un S final est un artifice mnémonique
% pour INFÉRIEUR (sud), un N final pour SUPÉRIEUR (nord)

```
collating-symbol <BLANK> % no accent/aucun accent

collating-symbol <AMADD> % accent madda
collating-symbol <AHAMZ> % accent hamza
collating-symbol <AHWAW> % accent hamza-waw
collating-symbol <AHMZS> % accent hamza under/hamza souscrit
collating-symbol <AYEHS> % accent under yeh/accent souscrit du ya'
collating-symbol <AYEHB> % hamza-yeh barrée

collating-symbol <PCULR> % peculiar character/caractère particulier
collating-symbol <MNCAP> % smallcap/petite capitale
collating-symbol <PRLIG> % preceding ligature/ligature précédente
collating-symbol <AIGUT> % acute/aigu
collating-symbol <AIGUT+POINT> % acute+dot/aigu+point
collating-symbol <GRAVE> % grave/grave
collating-symbol <2GRAV> % double grave/double grave
collating-symbol <BREVE> % breve/brève
collating-symbol <BREVE+AIGUT> % breve+acute/brève+aigu
collating-symbol <BREVE+GRAVE> % breve+grave/brève+grave
collating-symbol <BREVE+CROOK> % breve+hook/brève+crochet
collating-symbol <BREVE+TILDE> % breve+tilde/brève+tilde
collating-symbol <BREVE+POINS> % breve+dot below/brève+point souscrit
collating-symbol <BREVE+MACRO> % breve+macron/brève+macron
collating-symbol <VRACH> % vrachy/vrakhy
collating-symbol <BREVS> % breve below/brève souscrit
collating-symbol <BREVR> % inverted breve/brève renversé
collating-symbol <CIRCF> % circumflex/circonflexe
collating-symbol <CIRCF+AIGUT> % circumflex+acute/circonflexe+aigu
collating-symbol <CIRCF+GRAVE> % circumflex+grave/circonflexe+grave
collating-symbol <CIRCF+CROOK> % circumflex+hook/circonflexe+crochet
collating-symbol <CIRCF+TILDE> % circumflex+tilde/circonflexe+tilde
collating-symbol <CIRCF+POINS> % circumflex+dot below/circonflexe+point souscrit
collating-symbol <POINS+MACRO> % dot below+macron/point souscrit+macron
collating-symbol <CIRCS> % circumflex below/circonflexe souscrit
collating-symbol <CARON> % caron/caron
collating-symbol <CARON+TREMA> % caron+diaeresis/caron+tréma
collating-symbol <CARON+POINT> % caron+dot/caron+point
```

```
collating-symbol <CRCLE> % ring/rond
collating-symbol <CRCLE+AIGUT> % ring+acute/rond+aigu
collating-symbol <CRCLS> % ring below/rond souscrit
collating-symbol <CRCL2> % right half ring/demi-rond à droite
collating-symbol <TREMA> % diaeresis/tréma
collating-symbol <TREMA+AIGUT> % diaeresis+acute/tréma+aigu
collating-symbol <TREMA+GRAVE> % diaeresis+grave/tréma+grave
collating-symbol <TREMA+CARON> % diaeresis+caron/tréma+caron
collating-symbol <TREMA+MACRO> % diaeresis+macron/tréma+macron
collating-symbol <TREMS> % diaeresis below/tréma souscrit
collating-symbol <2AIGU> % double acute/double aigu
collating-symbol <CROOK> % hook/crochet
collating-symbol <LIGCR> % lighook/crochet liant
collating-symbol <LIGCR+MNCAP> % lighook+smallcap/crochet liant+petite capitale
collating-symbol <PALCR> % palatal hook/crochet mouillé
collating-symbol <RETCR> % retroflex hook/crochet rétroflexe
collating-symbol <RHOCR> % rhotic hook/crochet de rhotacisme
collating-symbol <TILDE> % tilde/tilde
collating-symbol <TILDE+AIGUT> % tilde+acute/tilde+aigu
collating-symbol <TILDE+TREMA> % tilde+diaeresis/tilde+tréma
collating-symbol <TILDS> % tilde below/tilde souscrit
collating-symbol <TILDX> % middle tilde/tilde médian
collating-symbol <POINT> % dot/point
collating-symbol <POINT+POINS> % dot+dot below/point+point souscrit
collating-symbol <POINT+MACRO> % dot+macron/point+macron
collating-symbol <POINS> % dot below/point souscrit
collating-symbol <POINM> % middle dotpoint médian
collating-symbol <OBLIK> % stroke/barre oblique
collating-symbol <OBLIK+AIGUT> % stroke+acute/barre oblique+aigu
collating-symbol <BARRE> % bar/barre
collating-symbol <CEDIL> % cedilla/cédille
collating-symbol <CEDIL+AIGUT> % cedilla+acute/cédille+aigu
collating-symbol <CEDIL+GRAVE> % cedilla+grave/cédille+grave
collating-symbol <CEDIL+BREVE> % cedilla+breve/cédille+brève
collating-symbol <COMMS> % comma below/virgule inférieur
collating-symbol <OGONK> % ogonek/ogonek
collating-symbol <OGONK+AIGUT> % ogonek+acute/ogonek+aigu
collating-symbol <OGONK+MACRO> % ogonek/ogonek
collating-symbol <MACRO> % macron/macron
collating-symbol <MACRO+AIGUT> % macron+acute/macron+aigu
collating-symbol <MACRO+GRAVE> % macron+grave/macron+grave
collating-symbol <MACRO+CIRCF> % macron+circumflex/macron+circonflexe
collating-symbol <MACRO+TREMA> % macron+diaeresis/macron+tréma
collating-symbol <MACRO+TREMS> % macron+diaresis below/macron+tréma souscrit
collating-symbol <MACRO+POINT> % macron+dot/macron+point
collating-symbol <BARRN> % topbar/barre haute
collating-symbol <MACRS> % macron below/macron souscrit
collating-symbol <HORNU> % horn/cornu
collating-symbol <HORNU+AIGUT> % horn+acute/cornu+aigu
collating-symbol <HORNU+GRAVE> % horn+grave/cornu+grave
collating-symbol <HORNU+CROOK> % horn+hook/cornu+crochet
collating-symbol <HORNU+TILDE> % horn+tilde/cornu+tilde
collating-symbol <HORNU+POINS> % horn+dot below/cornu+point souscrit
collating-symbol <APOST> % apostrophe
collating-symbol <RVERS> % reversed/réfléchi
collating-symbol <RVERS+MNCAP> % reversed+smallcap/réfléchi+petite capitale
collating-symbol <RVERS+BARRE> % reversed+stroke/réfléchi+barre oblique
collating-symbol <INVRT> % inverted/renversé
collating-symbol <INVRT+MNCAP> % inverted+smallcap/renversé+petite capitale
collating-symbol <INVRT+BARRE> % inverted+stroke/renversé+barre oblique
collating-symbol <TOURN> % turned/culbuté
collating-symbol <TOURN+LIGCR> % turned+lighook/culbuté+crochet liant
collating-symbol <TOURN+LONGU> % turned+long/culbuté+long
collating-symbol <SPIRL> % curl/bouclé
collating-symbol <SPIRL+RVERS> % curl+reversed/bouclé+réfléchi
collating-symbol <LONGU> % long/long
collating-symbol <LONGU+POINT> % long+dot/long + point
collating-symbol <VARNT> % variant/variant
collating-symbol <VARNT+CARON> % variant+caron/variant+caron
```

```
collating-symbol <VARNT+LIGCR> % variant+lighook/variant+crochet liant
collating-symbol <VARNT+RHOCR> % variant+rhotic hook/variant+crochet de rhotacisme
collating-symbol <VARNT+OBLIK> % variant+stroke/variant+barre oblique
collating-symbol <VARNT+BARRE> % variant+bar/variant+barre
collating-symbol <VARNT+RVERS> % variant+reversed/variant+
collating-symbol <VARNT+SPIRL> % variant+curl/variant+bouclé
collating-symbol <VARNT+LONGU> % variant+long/variant+long
collating-symbol <NUMER> % numeric/numérique
collating-symbol <LATIN> % latin/latin
collating-symbol <GREEK> % greek/grec
collating-symbol <GREEK+MNCAP> % greek+smallcap/grec+
collating-symbol <GREEK+LIGCR> % greek+lighook/grec+crochet liant
collating-symbol <GREEK+OBLIK> % greek+stroke/grec+barre oblique
collating-symbol <GREEK+RVERS> % greek+reversed/grec+réfléchi
collating-symbol <GREEK+RVERS+LIGCR> % greek+reversed+lighook/grec+réfléchi+crochet liant
collating-symbol <GREEK+RVERS+RHOCR> % greek+reversed+rhotichook/grec+réfléchi+crochet de
rhotacisme
collating-symbol <GREEK+TOURN> % greek+turned/grec+culbuté
collating-symbol <TONOS> % tonos
collating-symbol <PSILI> % psili
collating-symbol <PSILI+VARIA>
collating-symbol <PSILI+VARIA+YPOGE>
collating-symbol <PSILI+VARIA+PROSG>
collating-symbol <PSILI+OXIAA>
collating-symbol <PSILI+OXIAA+YPOGE>
collating-symbol <PSILI+OXIAA+PROSG>
collating-symbol <PSILI+PERIS>
collating-symbol <PSILI+PERIS+YPOGE>
collating-symbol <PSILI+PERIS+PROSG>
collating-symbol <PSILI+YPOGE>
collating-symbol <PSILI+PROSG>
collating-symbol <DASIA> % dasia
collating-symbol <DASIA+VARIA>
collating-symbol <DASIA+VARIA+YPOGE>
collating-symbol <DASIA+VARIA+PROSG>
collating-symbol <DASIA+OXIAA>
collating-symbol <DASIA+OXIAA+YPOGE>
collating-symbol <DASIA+OXIAA+PROSG>
collating-symbol <DASIA+PERIS>
collating-symbol <DASIA+PERIS+YPOGE>
collating-symbol <DASIA+PERIS+PROSG>
collating-symbol <DASIA+YPOGE>
collating-symbol <DASIA+PROSG>
collating-symbol <VARIA> % varia
collating-symbol <VARIA+YPOGE>
collating-symbol <VARIA+DIALY>
collating-symbol <OXIAA> % oxia
collating-symbol <OXIAA+YPOGE>
collating-symbol <OXIAA+DIALY>
collating-symbol <PERIS> % perispomeni
collating-symbol <PERIS+YPOGE>
collating-symbol <YPOGE> % ypogegrammeni
collating-symbol <PROSG> % prosgegrammeni
collating-symbol <DIALY> % dialytika
collating-symbol <DIALY+PERIS>
collating-symbol <DIALY+TONOS>
collating-symbol <GRKCR> % greek hook/crochet grec
collating-symbol <GRKCR+OXIAA>
collating-symbol <GRKCR+DIALY>
collating-symbol <CYRIL> % cyrillic/cyrillique
collating-symbol <GEORG> % georgian/géorgien
collating-symbol <ARMEN> % armenian/arménien
collating-symbol <ARBIN> % arabic intrinsic/arabe intrinsèque
collating-symbol <ARBFO> % arabic forms/formes de présentation arabes
collating-symbol <IVRIT> % hebrew/hébreu
collating-symbol <NAGAR> % devanagari/devanâgari
collating-symbol <BENGL> % bengali/bengali
collating-symbol <GURMU> % gurmukhi/pendjabi
collating-symbol <GUJAR> % gujarati/goudjarati
```

```
collating-symbol <ORIYA> % oriya
collating-symbol <TAMIL> % tamil/tamoul
collating-symbol <TELGU> % telugu/télougou
collating-symbol <KNNDA> % kannada/kannara
collating-symbol <MALAY> % malayalam
collating-symbol <THAII> % thai/thaï
collating-symbol <LAAOO> % lao/laotien
collating-symbol <BODKA> % tibetan/tibétain
collating-symbol <HANGL> % hangul
collating-symbol <JALGI> % cherokee
collating-symbol <ETHIO> % ethiopic/éthiopique
collating-symbol <SYLLA> % canadian syllabics/syllabaire canadien
collating-symbol <NUOSU> % yi
collating-symbol <HIRAG> % hiragana
collating-symbol <KATAK> % katakana
collating-symbol <CJKVS> % hàn
collating-symbol <SPECL> % special/spécial
collating-symbol <LIGLT> % ligletter/digramme soudé
collating-symbol <LIGLT+SPIRL> % ligletter+curl/digramme soudé+bouclé
collating-symbol <LIGLT+VARNT> % ligletter+variant/digramme soudé+variant
collating-symbol <SHINP> % shin dot/point shin
collating-symbol <SHINP+DAGES> % shin dot+dagesh/point shin+dagesh
collating-symbol <SINPT> % sin dot/point sin
collating-symbol <SINPT+DAGES> % sin dot+dagesh/point sin+dagesh
collating-symbol <DAGES> % dagesh
collating-symbol <METEG> % meteg
collating-symbol <RAPHE> % raphe
collating-symbol <SHEVA> % sheva
collating-symbol <HTFSG> % hataf segol
collating-symbol <HTFPT> % hataf patah
collating-symbol <HTFQM> % hataf
collating-symbol <HIRIQ> % hiriq
collating-symbol <TSERE> % tsere
collating-symbol <SEGOL> % segol
collating-symbol <PATAH> % patah
collating-symbol <QAMAT> % qamats
collating-symbol <HOLAM> % holam
collating-symbol <QUBUT> % qubuts
collating-symbol <POINN> % upper dot/point supérieur
collating-symbol <ETNHT> % etnahta
collating-symbol <ACSEG> % accent segol
collating-symbol <SLSLT> % shalshalet
collating-symbol <ZQFQT> % zaqef qatan
collating-symbol <ZQFGD> % zaqef gadol
collating-symbol <TIPHA> % tipeha
collating-symbol <REVIA> % revia
collating-symbol <ZARQA> % zarqa
collating-symbol <PASHT> % pashta
collating-symbol <YETIV> % yetiv
collating-symbol <TEVIR> % tevir
collating-symbol <ACGRS> % accent geresh
collating-symbol <GRSMQ> % geresh muqdam
collating-symbol <ACGRM> % accent gershayim
collating-symbol <QARNP> % qarney para
collating-symbol <TLGDL> % telisha gedola
collating-symbol <PAZER> % pazer
collating-symbol <MUNAH> % munah
collating-symbol <MHPKH> % mahapakh
collating-symbol <MRKHA> % merkha
collating-symbol <MRKHK> % merkha kefula
collating-symbol <DARGA> % darga
collating-symbol <QADMA> % qadma
collating-symbol <TLQTN> % telisha qetana
collating-symbol <YRBNY> % yerah ben yomo
collating-symbol <OLEEE> % ole
collating-symbol <ILUYY> % iluy
collating-symbol <DEHII> % dehi
collating-symbol <ZINOR> % zinor
collating-symbol <MASOR> % masora circle/rond masora
```

```
% New diacritic collating symbols and
% combinations can be easily created and
% inserted into this specification.

% L'on peut facilement créer dans cette table de nouveaux symboles de classement
% pour les diacritiques,  de même que de nouvelles combinaisons.

% second level for Japanese kanas/deuxième niveau pour les kanas japonais

collating-symbol  <KNHIR> % hiragana
collating symbol  <KNKAT> % katakana

% Case and size/Casse et taille

collating-symbol <BLK> % no case/aucune casse
collating-symbol <CAP> % capital/majuscule
collating-symbol <CPM> % capital+small/majuscule+minuscule
collating-symbol <MNC> % small+capital/minuscule+majuscule
collating-symbol <MIN> % small/minuscule
collating-symbol <SUP> % superscript capital/majuscule supérieur
collating-symbol <MNN> % superscript small/minuscule supérieur
collating-symbol <SUB> % subscript capital/majuscule inférieur
collating-symbol <MNS> % subscript small/minuscule inférieur

% third level for Japanese kanas/troisième niveau pour les kanas japonais

collating-symbol <KNMIN> % small kana/kana minuscule
collating-symbol <KNMNH> % halfwidth small kana/kana minuscule demi-chasse
collating-symbol <KNNOR> % normal kana/kana normale
collating-symbol <KNNRH> % halfwidth normal kana/kana normale demi-chasse
collating-symbol <KNVOX> % voiced/voisé
collating-symbol <KNSEM> % semivoiced/semi-voisé

% Xy (Numbers/Numéros)

collating-symbol <espace>
collating-symbol <08>
collating-symbol <18>
collating-symbol <28>
collating-symbol <38>
collating-symbol <48>
collating-symbol <58>
collating-symbol <68>
collating-symbol <78>
collating-symbol <88>
collating-symbol <98>
collating-symbol <108>
collating-symbol <118>
collating-symbol <128>
collating-symbol <138>
collating-symbol <148>
collating-symbol <158>
collating-symbol <168>
collating-symbol <178>
collating-symbol <188>
collating-symbol <198>
collating-symbol <208>
collating-symbol <218>
collating-symbol <228>
collating-symbol <238>
collating-symbol <248>
collating-symbol <258>
collating-symbol <268>
collating-symbol <278>
collating-symbol <288>
collating-symbol <298>
collating-symbol <308>
collating-symbol <318>
```

```
collating-symbol <508>
collating-symbol <1008>
collating-symbol <5008>
collating-symbol <10008>
collating-symbol <50008>
collating-symbol <100008>

% Jk Japanese kanas/Kanas japonais

collating-symbol <kn-dot>
collating-symbol <kn-prolong>
collating-symbol <kn-a>
collating-symbol <kn-i>
collating-symbol <kn-u>
collating-symbol <kn-e>
collating-symbol <kn-o>
collating-symbol <kn-ka>
collating-symbol <kn-ki>
collating-symbol <kn-ku>
collating-symbol <kn-ke>
collating-symbol <kn-ko>
collating-symbol <kn-sa>
collating-symbol <kn-si>
collating-symbol <kn-su>
collating-symbol <kn-se>
collating-symbol <kn-so>
collating-symbol <kn-ta>
collating-symbol <kn-ti>
collating-symbol <kn-tu>
collating-symbol <kn-te>
collating-symbol <kn-to>
collating-symbol <kn-na>
collating-symbol <kn-ni>
collating-symbol <kn-nu>
collating-symbol <kn-ne>
collating-symbol <kn-no>
collating-symbol <kn-ha>
collating-symbol <kn-hi>
collating-symbol <kn-hu>
collating-symbol <kn-he>
collating-symbol <kn-ho>
collating-symbol <kn-ma>
collating-symbol <kn-mi>
collating-symbol <kn-mu>
collating-symbol <kn-me>
collating-symbol <kn-mo>
collating-symbol <kn-ya>
collating-symbol <kn-yu>
collating-symbol <kn-yo>
collating-symbol <kn-ra>
collating-symbol <kn-ri>
collating-symbol <kn-ru>
collating-symbol <kn-re>
collating-symbol <kn-ro>
collating-symbol <kn-wa>
collating-symbol <kn-wi>
collating-symbol <kn-we>
collating-symbol <kn-wo>
collating-symbol <kn-n>
collating-symbol <kn-cmb-voice>
collating-symbol <kn-cmb-semivoice>
collating-symbol <kn-voice>
collating-symbol <kn-semivoice>
collating-symbol <kn-iter>

% The <a8> ...... <click8> collating
% symbols have defined weights as
% the last character in a group of
% Latin letters. They are used
```

```
% to specify deltas by locales using
% a locale as the Common Template ordering
% and by "replace-after" statements
% specifying the changed placement
% in an ordering of a character.
% The numerals precede the letters.
% It has been necessary, due to
% the fact that all Latin letters cannot
% be subsumed under the 26 letters of
% ASCII, to add some basic letters to the
% collating-symbols.

% Les symboles <a8> ...... <click8> ont des poids relatifs
% en tant que marqueurs de dernier caractère dans un groupe de lettres latines.
% On les utilise pour préciser des deltas dans les locales, en partant d'une
% locale comme modèle commun et en utilisant des énoncés « replace-after »
% pour préciser le changement d'ordre d'un caractère.
% les caractères numériques précèdent les lettres.
% Le fait que toutes les lettres latines ne puissent être assujetties aux 26
% lettres de l'ASCII a rendu nécessaire l'ajout de quelques lettres de base comme symboles.

% La (Latin/Latin)

collating-symbol <a8>
collating-symbol <b8>
collating-symbol <c8>
collating-symbol <d8>
collating-symbol <e8>
collating-symbol <f8>
collating-symbol <g8>
collating-symbol <gha8> % Established as a derived LETTER collating-symbol <h8>
collating-symbol <i8>
collating-symbol <j8>
collating-symbol <k8>
collating-symbol <l8>
collating-symbol <m8>
collating-symbol <n8>
collating-symbol <o8>
collating-symbol <p8>
collating-symbol <q8>
collating-symbol <r8>
collating-symbol <s8>
collating-symbol <esh8> % Established as a derived letter; many deformations
collating-symbol <t8>
collating-symbol <u8>
collating-symbol <v8>
collating-symbol <w8>
collating-symbol <x8>
collating-symbol <y8>
collating-symbol <z8>
collating-symbol <thorn8> % Established as a basic LETTER
collating-symbol <wynn8> % Basic like THORN, in its traditional position
collating-symbol <glottal8> % Established as a basic LETTER
collating-symbol <click8> % Established as together as a basic LETTER

% El (Greek/Grec)

collating-symbol <alpha8>
collating-symbol <beta8>
collating-symbol <gamma8>
collating-symbol <delta8>
collating-symbol <epsilon8>
collating-symbol <digamma8>
collating-symbol <stigma8>
collating-symbol <zeta8>
collating-symbol <eta8>
collating-symbol <theta8>
collating-symbol <iota8>
collating-symbol <kappa8>
```

```
collating-symbol <lamda8>
collating-symbol <mu8>
collating-symbol <nu8>
collating-symbol <xi8>
collating-symbol <omicron8>
collating-symbol <pi8>
collating-symbol <koppa8>
collating-symbol <rho8>
collating-symbol <sigma8>
collating-symbol <tau8>
collating-symbol <upsilon8>
collating-symbol <phi8>
collating-symbol <chi8>
collating-symbol <psi8>
collating-symbol <omega8>
collating-symbol <sampi8>
collating-symbol <shei8>
collating-symbol <fei8>
collating-symbol <khei8>
collating-symbol <hori8>
collating-symbol <gangia8>
collating-symbol <shima8>
collating-symbol <dei8>

% Cy (Cyrillic/Cyrillique)

collating-symbol <acy8>
collating-symbol <acybreve8>
collating-symbol <acydieresis8>
collating-symbol <aecy8>
collating-symbol <be8>
collating-symbol <ve8>
collating-symbol <ge8>
collating-symbol <gje8>
collating-symbol <gebar8>
collating-symbol <geupturn8>
collating-symbol <gehook8>
collating-symbol <de8>
collating-symbol <dje8>
collating-symbol <ie8>
collating-symbol <io8>
collating-symbol <iebreve8>
collating-symbol <ecy8>
collating-symbol <schwacy8>
collating-symbol <schwacydieresis8>
collating-symbol <ecy8>
collating-symbol <schwacy8>
collating-symbol <schwacydieresis8>
collating-symbol <zhe8>
collating-symbol <zhebreve8>
collating-symbol <zhedieresis8>
collating-symbol <zhertdes8>
collating-symbol <ze8>
collating-symbol <zedieresis8>
collating-symbol <zecedilla8>
collating-symbol <ezhcy8>
collating-symbol <ii8>
collating-symbol <iidieresis8>
collating-symbol <iimacron8>
collating-symbol <icy8>
collating-symbol <yi8>
collating-symbol <iibreve8>
collating-symbol <je8>
collating-symbol <ka8>
collating-symbol <kje8>
collating-symbol <kabar8>
collating-symbol <kavertbar8>
collating-symbol <kartdes8>
collating-symbol <kabashkir8>
```

```
collating-symbol <kahook8>
collating-symbol <tshe8>
collating-symbol <el8>
collating-symbol <lje8>
collating-symbol <em8>
collating-symbol <en8>
collating-symbol <nje8>
collating-symbol <enrtdes8>
collating-symbol <engcy8>
collating-symbol <enhook8>
collating-symbol <ocy8>
collating-symbol <ocydieresis8>
collating-symbol <ocybar8>
collating-symbol <ocybardieresis8>
collating-symbol <pecy8>
collating-symbol <pehook8>
collating-symbol <er8>
collating-symbol <es8>
collating-symbol <escedilla8>
collating-symbol <te8>
collating-symbol <tertdes8>
collating-symbol <ucy8>
collating-symbol <ucybreve8>
collating-symbol <ucydieresis8>
collating-symbol <ucydblacute8>
collating-symbol <ucymacron8>
collating-symbol <ustrt8>
collating-symbol <ustrtbar8>
collating-symbol <uk8>
collating-symbol <ef8>
collating-symbol <kha8>
collating-symbol <khartdes8>
collating-symbol <hcy8>
collating-symbol <omegacy8>
collating-symbol <omegacytitlo8>
collating-symbol <omegacyround8>
collating-symbol <tse8>
collating-symbol <ttse8>
collating-symbol <koppacy8>
collating-symbol <dze8>
collating-symbol <dzhe8>
collating-symbol <chertdes8>
collating-symbol <chevertbar8>
collating-symbol <cheleftdes8>
collating-symbol <chedieresis8>
collating-symbol <dzhe8>
collating-symbol <sha8>
collating-symbol <shcha8>
collating-symbol <hard8>
collating-symbol <yeri8>
collating-symbol <yeridieresis8>
collating-symbol <soft8>
collating-symbol <yat8>
collating-symbol <ecyrev8>
collating-symbol <iu8>
collating-symbol <eiotified8>
collating-symbol <ia8>
collating-symbol <yuslittle8>
collating-symbol <yusbig8>
collating-symbol <yuslittleiotified8>
collating-symbol <yusbigiotified8>
collating-symbol <xicy8>
collating-symbol <psicy8>
collating-symbol <fita8>
collating-symbol <izhitsa8>
collating-symbol <izhitsadblgrave8>
collating-symbol <palochka8>
collating-symbol <cheabkhasian8>
collating-symbol <cheabkhasiandes8>
```

```
collating-symbol <haabkhasian8>
```

% Ka (Georgian/Géorgien)

```
collating-symbol <an8>
collating-symbol <ban8>
collating-symbol <gan8>
collating-symbol <don8>
collating-symbol <enka8>
collating-symbol <vin8>
collating-symbol <zen8>
collating-symbol <heka8>
collating-symbol <tan8>
collating-symbol <in8>
collating-symbol <kan8>
collating-symbol <las8>
collating-symbol <man8>
collating-symbol <nar8>
collating-symbol <hie8>
collating-symbol <on8>
collating-symbol <par8>
collating-symbol <zhar8>
collating-symbol <rae8>
collating-symbol <san8>
collating-symbol <tar8>
collating-symbol <un8>
collating-symbol <we8>
collating-symbol <phar8>
collating-symbol <khar8>
collating-symbol <ghan8>
collating-symbol <qar8>
collating-symbol <shinka8>
collating-symbol <chin8>
collating-symbol <can8>
collating-symbol <jil8>
collating-symbol <cil8>
collating-symbol <char8>
collating-symbol <xan8>
collating-symbol <har8>
collating-symbol <jhan8>
collating-symbol <hae8>
collating-symbol <hoe8>
collating-symbol <fi8>
collating-symbol <schwaka8>
collating-symbol <elifi8>
```

% Hy (Armenian/Arménien)

```
collating-symbol <ayb8>
collating-symbol <ben8>
collating-symbol <gim8>
collating-symbol <da8>
collating-symbol <ech8>
collating-symbol <za8>
collating-symbol <eh8>
collating-symbol <et8>
collating-symbol <to8>
collating-symbol <zhehy8>
collating-symbol <ini8>
collating-symbol <liwn8>
collating-symbol <xeh8>
collating-symbol <ca8>
collating-symbol <ken8>
collating-symbol <ho8>
collating-symbol <ja8>
collating-symbol <ghad8>
collating-symbol <cheh8>
collating-symbol <men8>
collating-symbol <yihy8>
```

```
collating-symbol <now8>
collating-symbol <shahy8>
collating-symbol <vo8>
collating-symbol <cha8>
collating-symbol <pehhy8>
collating-symbol <jheh8>
collating-symbol <ra8>
collating-symbol <seh8>
collating-symbol <vew8>
collating-symbol <tiwn8>
collating-symbol < rehhy8>
collating-symbol <co8>
collating-symbol <yiwn8>
collating-symbol <piwr8>
collating-symbol <keh8>
collating-symbol <oh8>
collating-symbol <fehhy8>

% Ar & Ax (Arabic intrinsic and forms/Arab intrinsèque et formes)

collating-symbol <hamza8>
collating-symbol <alef8>
collating-symbol <beh8>
collating-symbol <peh8>
collating-symbol <tehmarbuta8>
collating-symbol <teh8>
collating-symbol <tteh8>
collating-symbol <theh8>
collating-symbol <jeem8>
collating-symbol <tcheh8>
collating-symbol <hah8>
collating-symbol <khah8>
collating-symbol <dal8>
collating-symbol <ddal8>
collating-symbol <thal8>
collating-symbol <reh8>
collating-symbol <rreh8>
collating-symbol <zain8>
collating-symbol <jeh8>
collating-symbol <seen8>
collating-symbol <sheen8>
collating-symbol <sad8>
collating-symbol <dad8>
collating-symbol <tah8>
collating-symbol <zah8>
collating-symbol <ain8>
collating-symbol <ghain8>
collating-symbol <feh8>
collating-symbol <qaf8>
collating-symbol < kaf8>
collating-symbol <keheh8>
collating-symbol <gaf8>
collating-symbol <lam8>
collating-symbol <meem8>
collating-symbol <noon8>
collating-symbol <noonghunna8>
collating-symbol <heh8>
collating-symbol <hehyeh8>
collating-symbol <waw8>
collating-symbol <alefmaksura8>
collating-symbol <yehbarree8>

% He (Hebrew/Hébreu)

collating-symbol <alefhe8>
collating-symbol <bet8>
collating-symbol <gimel8>
collating-symbol <dalet8>
collating-symbol <he8>
```

```
collating-symbol <vav8>
collating-symbol <zayin8>
collating-symbol <het8>
collating-symbol <tet8>
collating-symbol <yod8>
collating-symbol <kaffin8>
collating-symbol <kafhe8>
collating-symbol <lamed8>
collating-symbol <memfin8>
collating-symbol <mem8>
collating-symbol <nunfin8>
collating-symbol <nun8>
collating-symbol <samekh8>
collating-symbol <ayin8>
collating-symbol <pefin8>
collating-symbol <pe8>
collating-symbol <tsadifin8>
collating-symbol <tsadi8>
collating-symbol <qof8>
collating-symbol <resh8>
collating-symbol <shin8>
collating-symbol <tav8>

% Order of internal symbols/Ordre des symboles internes

<RES-1>

% Ar & Ax (Arabic intrinsic and forms/Arabe intrinsèque et formes)

<ANOR>
<AISO>
<AFIN>
<AINI>
<AMED>

% Case and size/Casse et taille

<BLK>

% If toggle PRIMCAP is defined, capital letters are sorted before small letters;
%  otherwise PRIMIN shall be defined and small letters are sorted before capitals

% Si le bouton PRIMCAP est défini, les capitales sont classées avant les minuscules ;
%  sinon le bouton PRIMIN doit être défini et les minuscules sont classées avant les capitales

ifdef PRIMIN
<MIN>
endif

<CPM>
<MNC>
<MNS>
<MNN>

<CAP>

% If toggle PRIMCAP is defined, capital letters are sorted before small letters;
%  otherwise PRIMIN shall be defined and small letters are sorted before capitals

% Si le bouton PRIMCAP est défini, les capitales sont classées avant les minuscules ;
%  sinon le bouton PRIMIN doit être défini et les minuscules sont classées avant les capitales

ifdef PRIMCAP
<MIN>
elif PRIMIN
%
else
<ERR Intentional mistake for non-conformance/ Erreur intentionnelle de non-conformité
endif
```

```
<SUB>
<SUP>

<KNMIN>
<KNMNH>
<KNNRM>
<KNNRH>
<KNVOX>
<KNSEM>

% Xz (Accents/Accents)

<AMADD>
<AHAMZ>
<AHWAW>
<AHMZS>
<AYEHS>
<AYEHB>

<BLANK>
<PCULR>
<MNCAP>
<PRLIG>
<AIGUT>
<AIGUT+POINT>
<GRAVE>
<2GRAV>
<BREVE>
<BREVE+AIGUT>
<BREVE+GRAVE>
<BREVE+CROOK>
<BREVE+TILDE>
<BREVE+POINS>
<BREVE+MACRO>
<VRACH>
<BREVEBELOW>
<BREVR>
<CIRCF>
<CIRCF+AIGUT>
<CIRCF+GRAVE>
<CIRCF+CROOK>
<CIRCF+TILDE>
<CIRCF+POINS>
<CIRCS>
<CARON>
<CARON+TREMA>
<CARON+POINT>
<CRCLE>
<CRCLE+AIGUT>
<CRCLS>
<CRCL2>
<TREMA>
<TREMA+AIGUT>
<TREMA+GRAVE>
<TREMA+CARON>
<TREMA+MACRO>
<2AIGU>
<CROOK>
<LIGCR>
<LIGCR+MNCAP>
<PALCR>
<RETCR>
<RHOCR>
<TILDE>
<TILDE+AIGUT>
<TILDE+TREMA>
<TILDS>
<TILDX>
```

```
<POINT>
<POINT+POINS>
<POINT+MACRO>
<POINS>
<POINM>
<OBLIK>
<OBLIK+AIGUT>
<BARRE>
<CEDIL>
<CEDIL+AIGUT>
<CEDIL+GRAVE>
<CEDIL+BREVE>
<COMMS>
<OGONK>
<OGONK+MACRO>
<MACRO>
<MACRO+AIGUT>
<MACRO+GRAVE>
<MACRO+CIRCF>
<MACRO+TREMA>
<MACRO+TREMS>
<MACRO+POINT>
<BARRN>
<MACRS>
<HORNU>
<HORNU+AIGUT>
<HORNU+GRAVE>
<HORNU+CROOK>
<HORNU+TILDE>
<HORNU+POINS>
<APOST>
<RVERS>
<RVERS+MNCAP>
<RVERS+BARRE>
<INVRT>
<INVRT+MNCAP>
<INVRT+BARRE>
<TOURN>
<TOURN+LIGCR>
<TOURN+LONGU>
<SPIRL>
<LONGU>
<VARNT>
<VARNT+CARON>
<VARNT+LIGCR>
<VARNT+RHOCR>
<VARNT+OBLIK>
<VARNT+BARRE>
<VARNT+RVERS>
<VARNT+SPIRL>
<VARNT+LONGU>
<NUMER>
<LATIN>
<GREEK>
<GREEK+MNCAP>
<GREEK+LIGCR>
<GREEK+OBLIK>
<GREEK+RVERS>
<GREEK+RVERS+LIGCR>
<GREEK+RVERS+RHOCR>
<GREEK+TOURN>
<TONOS>
<PSILI>
<PSILI+VARIA>
<PSILI+VARIA+YPOGE>
<PSILI+VARIA+PROSG>
<PSILI+OXIAA>
<PSILI+OXIAA+YPOGE>
<PSILI+OXIAA+PROSG>
```

```
<PSILI+PERIS>
<PSILI+PERIS+YPOGE>
<PSILI+PERIS+PROSG>
<PSILI+YPOGE>
<PSILI+PROSG>
<DASIA>
<DASIA+VARIA>
<DASIA+VARIA+YPOGE>
<DASIA+VARIA+PROSG>
<DASIA+OXIAA>
<DASIA+OXIAA+YPOGE>
<DASIA+OXIAA+PROSG>
<DASIA+PERIS>
<DASIA+PERIS+YPOGE>
<DASIA+PERIS+PROSG>
<DASIA+YPOGE>
<DASIA+PROSG>
<VARIA>
<VARIA+YPOGE>
<VARIA+DIALY>
<OXIAA>
<OXIAA+YPOGE>
<OXIAA+DIALY>
<PERIS>
<PERIS+YPOGE>
<TONOS>
<YPOGE>
<PROSG>
<DIALY>
<DIALY+TONOS>
<DIALY+PERIS>
<GRKCR>
<GRKCR+OXIAA>
<GRKCR+DIALY>
<CYRIL>
<GEORG>
<ARMEN>
<ARBIN>
<ARBFO>
<IVRIT>
<NAGAR>
<BENGL>
<GURMU>
<GUJAR>
<ORIYA>
<TAMIL>
<TELGU>
<KNNDA>
<MALAY>
<THAII>
<LAAOO>
<BODKA>
<HANGL>
<JALGI>
<ETHIO>
<SYLLA>
<NUOSU>
<HIRAG>
<KATAK>
<CJKVS>
<SPECL>
<LIGLT>
<LIGLT+SPIRL>
<LIGLT+VARNT>
<SHINP>
<SHINP+DAGES>
<SINPT>
<SINPT+DAGES>
<DAGES>
```

```
<METEG>
<RAPHE>
<SHEVA>
<HTFSG>
<HTFPT>
<HTFQM>
<HIRIQ>
<TSERS>
<SEGOL>
<PATAH>
<QAMAT>
<HOLAM>
<QUBUT>
<POINN>
<ETNHT>
<ACSEG>
<SLSLT>
<ZQFQT>
<ZQFGD>
<TIPHA>
<REVIA>
<ZARQA>
<PASHT>
<YETIV>
<TEVIR>
<ACGRS>
<GRSMQ>
<ACGRM>
<QARNP>
<TLGDL>
<PAZER>
<MUNAH>
<MHPKH>
<MRKHA>
<MRKHK>
<DARGA>
<QADMA>
<TLQTN>
<YRBNY>
<OLEEE>
<ILUYY>
<DEHII>
<ZINOR>
<MASOR>

<KNHIR>
<KNKAT>

% Xy (Numbers/Numérotation)

<espace>
% Jk Japanese kanas/Kanas japonais

%level 1
<kn-dot>
<kn-prolong>
<kn-a>
<kn-i>
<kn-u>
<kn-e>
<kn-o>
<kn-ka>
<kn-ki>
<kn-ku>
<kn-ke>
<kn-ko>
<kn-sa>
<kn-si>
<kn-su>
```

```
<kn-se>
<kn-so>
<kn-ta>
<kn-ti>
<kn-tu>
<kn-te>
<kn-to>
<kn-na>
<kn-ni>
<kn-nu>
<kn-ne>
<kn-no>
<kn-ha>
<kn-hi>
<kn-hu>
<kn-he>
<kn-ho>
<kn-ma>
<kn-mi>
<kn-mu>
<kn-me>
<kn-mo>
<kn-ya>
<kn-yu>
<kn-yo>
<kn-ra>
<kn-ri>
<kn-ru>
<kn-re>
<kn-ro>
<kn-wa>
<kn-wi>
<kn-we>
<kn-wo>
<kn-n>
<kn-cmb-voice>
<kn-cmb-semivoice>
<kn-voice>
<kn-semivoice>
<kn-iter>

% <Uxxxx> <Base>;<Accent>;<Case>;<Special>
% <Uxxxx> <Base>;<Accent>;<Casse>;<Spécial>

order_start <Xx>;forward;forward;forward;forward,position
```

%Série pratique prévoyant les omissions;
%Convenient ellipsis for omitted characters

```
<U0000>..<U7FFFFFFF>  IGNORE;IGNORE;IGNORE;<U0000>..<U7FFFFFFF>
```

*% Control characters and associated symbols; caractères de commande et
symboles associés*

```
<U0000> IGNORE;IGNORE;IGNORE;<U0000> % NULL
<U2400> IGNORE;IGNORE;IGNORE;<U2400> % SYMBOL FOR NULL
<U0001> IGNORE;IGNORE;IGNORE;<U0001> % START OF HEADING
<U2401> IGNORE;IGNORE;IGNORE;<U2401> % SYMBOL FOR START OF HEADING
<U0002> IGNORE;IGNORE;IGNORE;<U0002> % START OF TEXT
<U2402> IGNORE;IGNORE;IGNORE;<U2402> % SYMBOL FOR START OF TEXT
<U0003> IGNORE;IGNORE;IGNORE;<U0003> % END OF TEXT
<U2403> IGNORE;IGNORE;IGNORE;<U2403> % SYMBOL FOR END OF TEXT
<U0005> IGNORE;IGNORE;IGNORE;<U0005> % ENQUIRY
<U2405> IGNORE;IGNORE;IGNORE;<U2405> % SYMBOL FOR ENQUIRY
<U0004> IGNORE;IGNORE;IGNORE;<U0004> % END OF TRANSMISSION
<U2404> IGNORE;IGNORE;IGNORE;<U2404> % SYMBOL FOR END OF TRANSMISSION
<U0006> IGNORE;IGNORE;IGNORE;<U0006> % ACKNOWLEDGE
```

```
<U2406> IGNORE;IGNORE;IGNORE;<U2406> % SYMBOL FOR ACKNOWLEDGE
<U0007> IGNORE;IGNORE;IGNORE;<U0007> % BELL
<U2407> IGNORE;IGNORE;IGNORE;<U2407> % SYMBOL FOR BELL
<U0008> IGNORE;IGNORE;IGNORE;<U0008> % BACKSPACE
<U2408> IGNORE;IGNORE;IGNORE;<U2408> % SYMBOL FOR BACKSPACE
<U0009> IGNORE;IGNORE;IGNORE;<U0009> % HORIZONTAL TABULATION
<U2409> IGNORE;IGNORE;IGNORE;<U2409> % SYMBOL FOR HORIZONTAL TABULATION
<U000A> IGNORE;IGNORE;IGNORE;<U000A> % LINE FEED
<U240A> IGNORE;IGNORE;IGNORE;<U240A> % SYMBOL FOR LINE FEED
<U2424> IGNORE;IGNORE;IGNORE;<U2424> % SYMBOL FOR NEWLINE
<U000B> IGNORE;IGNORE;IGNORE;<U000B> % VERTICAL TABULATION
<U240B> IGNORE;IGNORE;IGNORE;<U240B> % SYMBOL FOR VERTICAL TABULATION
<U000C> IGNORE;IGNORE;IGNORE;<U000C> % FORM FEED
<U240C> IGNORE;IGNORE;IGNORE;<U240C> % SYMBOL FOR FORM FEED
<U000D> IGNORE;IGNORE;IGNORE;<U000D> % CARRIAGE RETURN
<U240D> IGNORE;IGNORE;IGNORE;<U240D> % SYMBOL FOR CARRIAGE RETURN
<U000E> IGNORE;IGNORE;IGNORE;<U000E> % SHIFT-OUT
<U240E> IGNORE;IGNORE;IGNORE;<U240E> % SYMBOL FOR SHIFT OUT
<U000F> IGNORE;IGNORE;IGNORE;<U000F> % SHIFT-IN
<U240F> IGNORE;IGNORE;IGNORE;<U240F> % SYMBOL FOR SHIFT IN
<U0010> IGNORE;IGNORE;IGNORE;<U0010> % DATA LINK ESCAPE
<U2410> IGNORE;IGNORE;IGNORE;<U2410> % SYMBOL FOR DATA LINK ESCAPE
<U0011> IGNORE;IGNORE;IGNORE;<U0011> % DEVICE CONTROL ONE
<U2411> IGNORE;IGNORE;IGNORE;<U2411> % SYMBOL FOR DEVICE CONTROL ONE
<U0012> IGNORE;IGNORE;IGNORE;<U0012> % DEVICE CONTROL TWO
<U2412> IGNORE;IGNORE;IGNORE;<U2412> % SYMBOL FOR DEVICE CONTROL TWO
<U0013> IGNORE;IGNORE;IGNORE;<U0013> % DEVICE CONTROL THREE
<U2413> IGNORE;IGNORE;IGNORE;<U2413> % SYMBOL FOR DEVICE CONTROL THREE
<U0014> IGNORE;IGNORE;IGNORE;<U0014> % DEVICE CONTROL FOUR
<U2414> IGNORE;IGNORE;IGNORE;<U2414> % SYMBOL FOR DEVICE CONTROL FOUR
<U0015> IGNORE;IGNORE;IGNORE;<U0015> % NEGATIVE ACKNOWLEDGE
<U2415> IGNORE;IGNORE;IGNORE;<U2415> % SYMBOL FOR NEGATIVE ACKNOWLEDGE
<U0016> IGNORE;IGNORE;IGNORE;<U0016> % SYNCHRONOUS IDLE
<U2416> IGNORE;IGNORE;IGNORE;<U2416> % SYMBOL FOR SYNCHRONOUS IDLE
<U0017> IGNORE;IGNORE;IGNORE;<U0017> % END OF TRANSMISSION BLOCK
<U2417> IGNORE;IGNORE;IGNORE;<U2417> % SYMBOL FOR END OF TRANSMISSION BLOCK
<U0018> IGNORE;IGNORE;IGNORE;<U0018> % CANCEL
<U2418> IGNORE;IGNORE;IGNORE;<U2418> % SYMBOL FOR CANCEL
<U0019> IGNORE;IGNORE;IGNORE;<U0019> % END OF MEDIUM
<U2419> IGNORE;IGNORE;IGNORE;<U2419> % SYMBOL FOR END OF MEDIUM
<U001A> IGNORE;IGNORE;IGNORE;<U001A> % SUBSTITUTE CHARACTER
<U241A> IGNORE;IGNORE;IGNORE;<U241A> % SYMBOL FOR SUBSTITUTE
<U001B> IGNORE;IGNORE;IGNORE;<U001B> % ESCAPE
<U241B> IGNORE;IGNORE;IGNORE;<U241B> % SYMBOL FOR ESCAPE
<U001C> IGNORE;IGNORE;IGNORE;<U001C> % FILE SEPARATOR
<U241C> IGNORE;IGNORE;IGNORE;<U241C> % SYMBOL FOR FILE SEPARATOR
<U001D> IGNORE;IGNORE;IGNORE;<U001D> % GROUP SEPARATOR
<U241D> IGNORE;IGNORE;IGNORE;<U241D> % SYMBOL FOR GROUP SEPARATOR
<U001E> IGNORE;IGNORE;IGNORE;<U001E> % RECORD SEPARATOR
<U241E> IGNORE;IGNORE;IGNORE;<U241E> % SYMBOL FOR RECORD SEPARATOR
<U001F> IGNORE;IGNORE;IGNORE;<U001F> % UNIT SEPARATOR
<U241F> IGNORE;IGNORE;IGNORE;<U241F> % SYMBOL FOR UNIT SEPARATOR
<U2028> IGNORE;IGNORE;IGNORE;<U2028> % LINE SEPARATOR
<U2029> IGNORE;IGNORE;IGNORE;<U2029> % PARAGRAPH SEPARATOR
<U2421> IGNORE;IGNORE;IGNORE;<U2421> % GRAPHIC FOR DELETE
<U2302> IGNORE;IGNORE;IGNORE;<U2302> % HOUSE

% Spaces; espaces

%If toggle PRIMESPACE ordering for the Latin script is defined, this
% statement specifies ordering of character NBSP, otherwise PRIMNBSP must be defined to rather
% specify here the ordering of SPACE
%Si le bouton PRIMESPACE est défini pour l'alphabet latin,
% l'énoncé suivant décrit le classement du caractère NBSP (sinon le bouton PRIMNBSP doit être
% défini pour préciser plutôt ici le classement du caractère ESPACE)

ifdef PRIMESPACE
<U00A0> IGNORE;IGNORE;IGNORE;<U00A0> % SPACE
elif PRIMNBSP
```

```
<U0020> IGNORE;IGNORE;IGNORE;<U0020> % SPACE
else
<ERR Intentional mistake for non-conformance/ Erreur intentionnelle de non-conformité
endif

<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
<U2420> IGNORE;IGNORE;IGNORE;<U2420> % GRAPHIC FOR SPACE
<U2422> IGNORE;IGNORE;IGNORE;<U2422> % BLANK SYMBOL
<U2423> IGNORE;IGNORE;IGNORE;<U2423> % OPEN BOX

% General punctuation; ponctuation en général

<U005F> IGNORE;IGNORE;IGNORE;<U005F> % LOW LINE
<U2017> IGNORE;IGNORE;IGNORE;<U2017> % DOUBLE LOW LINE
<U203E> IGNORE;IGNORE;IGNORE;<U203E> % OVERLINE
<U203F> IGNORE;IGNORE;IGNORE;<U203F> % UNDERTIE
<U2040> IGNORE;IGNORE;IGNORE;<U2040> % CHARACTER TIE
<U00AD> IGNORE;IGNORE;IGNORE;<U00AD> % SOFT HYPHEN
<U002D> IGNORE;IGNORE;IGNORE;<U002D> % HYPHEN-MINUS
<U2010> IGNORE;IGNORE;IGNORE;<U2010> % HYPHEN
<U2013> IGNORE;IGNORE;IGNORE;<U2013> % EN DASH
<U2014> IGNORE;IGNORE;IGNORE;<U2014> % EM DASH
<U2012> IGNORE;IGNORE;IGNORE;<U2012> % FIGURE DASH
<U2015> IGNORE;IGNORE;IGNORE;<U2015> % HORIZONTAL BAR
<U2027> IGNORE;IGNORE;IGNORE;<U2027> % HYPHENATION POINT
<U05BE> IGNORE;IGNORE;IGNORE;<U05BE> % HEBREW PUNCTUATION MAQAF
<U002C> IGNORE;IGNORE;IGNORE;<U002C> % COMMA
<U055D> IGNORE;IGNORE;IGNORE;<U055D> % ARMENIAN COMMA
<U05C0> IGNORE;IGNORE;IGNORE;<U05C0> % HEBREW PUNCTUATION PASEQ
<U003B> IGNORE;IGNORE;IGNORE;<U003B> % SEMICOLON
<U0387> IGNORE;IGNORE;IGNORE;<U0387> % GREEK ANO TELEIA
<U003A> IGNORE;IGNORE;IGNORE;<U003A> % COLON
<U0964> IGNORE;IGNORE;IGNORE;<U0964> % DEVANAGARI DANDA
<U00A1> IGNORE;IGNORE;IGNORE;<U00A1> % INVERTED EXCLAMATION MARK
<U2762> IGNORE;IGNORE;IGNORE;<U2762> % HEAVY EXCLAMATION MARK ORNAMENT
<U2763> IGNORE;IGNORE;IGNORE;<U2763> % HEAVY HEART EXCLAMATION MARK ORNAMENT
<U0021> IGNORE;IGNORE;IGNORE;<U0021> % EXCLAMATION MARK
<U055C> IGNORE;IGNORE;IGNORE;<U055C> % ARMENIAN EXCLAMATION MARK
<U055B> IGNORE;IGNORE;IGNORE;<U055B> % ARMENIAN EMPHASIS MARK
<U203C> IGNORE;IGNORE;IGNORE;<U203C> % DOUBLE EXCLAMATION MARK
<U203D> IGNORE;IGNORE;IGNORE;<U203D> % INTERROBANG
<U00BF> IGNORE;IGNORE;IGNORE;<U00BF> % INVERTED QUESTION MARK
<U003F> IGNORE;IGNORE;IGNORE;<U003F> % QUESTION MARK
<U037E> IGNORE;IGNORE;IGNORE;<U037E> % GREEK QUESTION MARK
<U055E> IGNORE;IGNORE;IGNORE;<U055E> % ARMENIAN QUESTION MARK
<U002F> IGNORE;IGNORE;IGNORE;<U002F> % SOLIDUS
<U2044> IGNORE;IGNORE;IGNORE;<U2044> % FRACTION SLASH
<U002E> IGNORE;IGNORE;IGNORE;<U002E> % FULL STOP
<U0589> IGNORE;IGNORE;IGNORE;<U0589> % ARMENIAN FULL STOP
<U05C3> IGNORE;IGNORE;IGNORE;<U05C3> % HEBREW PUNCTUATION SOF PASUQ
<U0965> IGNORE;IGNORE;IGNORE;<U0965> % DEVANAGARI DOUBLE DANDA
<U2024> IGNORE;IGNORE;IGNORE;<U2024> % ONE DOT LEADER
<U2025> IGNORE;IGNORE;IGNORE;<U2025> % TWO DOT LEADER
<U2026> IGNORE;IGNORE;IGNORE;<U2026> % HORIZONTAL ELLIPSIS
<U055F> IGNORE;IGNORE;IGNORE;<U055F> % ARMENIAN ABBREVIATION MARK
<U05F3> IGNORE;IGNORE;IGNORE;<U05F3> % HEBREW PUNCTUATION GERESH
<U05F4> IGNORE;IGNORE;IGNORE;<U05F4> % HEBREW PUNCTUATION GERSHAYIM
<U0970> IGNORE;IGNORE;IGNORE;<U0970> % DEVANAGARI ABBREVIATION SIGN
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% Accents

<U00B4> IGNORE;IGNORE;IGNORE;<U00B4> % ACUTE ACCENT
<U02CA> IGNORE;IGNORE;IGNORE;<U02CA> % MODIFIER LETTER ACUTE ACCENT
<U0301> IGNORE;IGNORE;IGNORE;<U0301> % COMBINING ACUTE ACCENT
<U0341> IGNORE;IGNORE;IGNORE;<U0341> % COMBINING ACUTE TONE MARK
<U02CF> IGNORE;IGNORE;IGNORE;<U02CF> % MODIFIER LETTER LOW ACUTE ACCENT
<U0317> IGNORE;IGNORE;IGNORE;<U0317> % COMBINING ACUTE ACCENT BELOW
<U0060> IGNORE;IGNORE;IGNORE;<U0060> % GRAVE ACCENT
<U02CB> IGNORE;IGNORE;IGNORE;<U02CB> % MODIFIER LETTER GRAVE ACCENT
<U0300> IGNORE;IGNORE;IGNORE;<U0300> % COMBINING GRAVE ACCENT
<U0340> IGNORE;IGNORE;IGNORE;<U0340> % COMBINING GRAVE TONE MARK
<U02CE> IGNORE;IGNORE;IGNORE;<U02CE> % MODIFIER LETTER LOW GRAVE ACCENT
<U0316> IGNORE;IGNORE;IGNORE;<U0316> % COMBINING GRAVE ACCENT BELOW
<U030F> IGNORE;IGNORE;IGNORE;<U030F> % COMBINING DOUBLE GRAVE ACCENT
<U02D8> IGNORE;IGNORE;IGNORE;<U02D8> % BREVE
<U0306> IGNORE;IGNORE;IGNORE;<U0306> % COMBINING BREVE
<U0310> IGNORE;IGNORE;IGNORE;<U0310> % COMBINING CANDRABINDU
<U032E> IGNORE;IGNORE;IGNORE;<U032E> % COMBINING BREVE BELOW
<U033A> IGNORE;IGNORE;IGNORE;<U033A> % COMBINING INVERTED BRIDGE BELOW
<U0311> IGNORE;IGNORE;IGNORE;<U0311> % COMBINING INVERTED BREVE
<U0484> IGNORE;IGNORE;IGNORE;<U0484> % CYRILLIC COMBINING PALATALIZATION
<UFB1E> IGNORE;IGNORE;IGNORE;<U02D8> % HEBREW POINT JUDEO-SPANISH VARIKA
<UFE20> IGNORE;IGNORE;IGNORE;<UFE20> % COMBINING LIGATURE LEFT HALF
<UFE21> IGNORE;IGNORE;IGNORE;<UFE21> % COMBINING LIGATURE RIGHT HALF
<U032F> IGNORE;IGNORE;IGNORE;<U032F> % COMBINING INVERTED BREVE BELOW
<U032A> IGNORE;IGNORE;IGNORE;<U032A> % COMBINING BRIDGE BELOW
<U005E> IGNORE;IGNORE;IGNORE;<U005E> % CIRCUMFLEX ACCENT
<U02C6> IGNORE;IGNORE;IGNORE;<U02C6> % MODIFIER LETTER CIRCUMFLEX ACCENT
<U0302> IGNORE;IGNORE;IGNORE;<U0302> % COMBINING CIRCUMFLEX ACCENT
<U032D> IGNORE;IGNORE;IGNORE;<U032D> % COMBINING CIRCUMFLEX ACCENT BELOW
<U02C7> IGNORE;IGNORE;IGNORE;<U02C7> % CARON
<U030C> IGNORE;IGNORE;IGNORE;<U030C> % COMBINING CARON
<U032C> IGNORE;IGNORE;IGNORE;<U032C> % COMBINING CARON BELOW
<U02DA> IGNORE;IGNORE;IGNORE;<U02DA> % RING ABOVE
<U030A> IGNORE;IGNORE;IGNORE;<U030A> % COMBINING RING ABOVE
<U02BE> IGNORE;IGNORE;IGNORE;<U02BE> % MODIFIER LETTER RIGHT HALF RING
<U02BF> IGNORE;IGNORE;IGNORE;<U02BF> % MODIFIER LETTER LEFT HALF RING
<U0559> IGNORE;IGNORE;IGNORE;<U0559> % ARMENIAN MODIFIER LETTER LEFT HALF RING
<U02D2> IGNORE;IGNORE;IGNORE;<U02D2> % MODIFIER LETTER CENTRED RIGHT HALF RING
<U02D3> IGNORE;IGNORE;IGNORE;<U02D3> % MODIFIER LETTER CENTRED LEFT HALF RING
<U0325> IGNORE;IGNORE;IGNORE;<U0325> % COMBINING RING BELOW
<U033B> IGNORE;IGNORE;IGNORE;<U033B> % COMBINING SQUARE BELOW
<U031C> IGNORE;IGNORE;IGNORE;<U031C> % COMBINING LEFT HALF RING BELOW
<U0339> IGNORE;IGNORE;IGNORE;<U0339> % COMBINING RIGHT HALF RING BELOW
<U00A8> IGNORE;IGNORE;IGNORE;<U00A8> % DIAERESIS
<U0308> IGNORE;IGNORE;IGNORE;<U0308> % COMBINING DIAERESIS
<U0324> IGNORE;IGNORE;IGNORE;<U0324> % COMBINING DIAERESIS BELOW
<U02DD> IGNORE;IGNORE;IGNORE;<U02DD> % DOUBLE ACUTE ACCENT
<U030B> IGNORE;IGNORE;IGNORE;<U030B> % COMBINING DOUBLE ACUTE ACCENT
<U030E> IGNORE;IGNORE;IGNORE;<U030E> % COMBINING DOUBLE VERTICAL LINE ABOVE
<U0309> IGNORE;IGNORE;IGNORE;<U0309> % COMBINING HOOK ABOVE
<U0321> IGNORE;IGNORE;IGNORE;<U0321> % COMBINING PALATALIZED HOOK BELOW
<U0322> IGNORE;IGNORE;IGNORE;<U0322> % COMBINING RETROFLEX HOOK BELOW
<U007E> IGNORE;IGNORE;IGNORE;<U007E> % TILDE
<U02DC> IGNORE;IGNORE;IGNORE;<U02DC> % SMALL TILDE
<U0303> IGNORE;IGNORE;IGNORE;<U0303> % COMBINING TILDE
<U0330> IGNORE;IGNORE;IGNORE;<U0330> % COMBINING TILDE BELOW
<U0334> IGNORE;IGNORE;IGNORE;<U0334> % COMBINING TILDE OVERLAY
<U033E> IGNORE;IGNORE;IGNORE;<U033E> % COMBINING VERTICAL TILDE
<UFE22> IGNORE;IGNORE;IGNORE;<UFE22> % COMBINING DOUBLE TILDE LEFT HALF
<UFE23> IGNORE;IGNORE;IGNORE;<UFE23> % COMBINING DOUBLE TILDE RIGHT HALF
<U02D9> IGNORE;IGNORE;IGNORE;<U02D9> % DOT ABOVE
<U0307> IGNORE;IGNORE;IGNORE;<U0307> % COMBINING DOT ABOVE
<U0323> IGNORE;IGNORE;IGNORE;<U0323> % COMBINING DOT BELOW
<U0335> IGNORE;IGNORE;IGNORE;<U0335> % COMBINING SHORT STROKE OVERLAY
<U0336> IGNORE;IGNORE;IGNORE;<U0336> % COMBINING LONG STROKE OVERLAY
<U0337> IGNORE;IGNORE;IGNORE;<U0337> % COMBINING SHORT SOLIDUS OVERLAY
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<U0338> IGNORE;IGNORE;IGNORE;<U0338> % COMBINING LONG SOLIDUS OVERLAY
<U00B8> IGNORE;IGNORE;IGNORE;<U00B8> % CEDILLA
<U0327> IGNORE;IGNORE;IGNORE;<U0327> % COMBINING CEDILLA
<U0326> IGNORE;IGNORE;IGNORE;<U0326> % COMBINING COMMA BELOW
<U02DB> IGNORE;IGNORE;IGNORE;<U02DB> % OGONEK
<U0328> IGNORE;IGNORE;IGNORE;<U0328> % COMBINING OGONEK
<U00AF> IGNORE;IGNORE;IGNORE;<U00AF> % MACRON
<U02C9> IGNORE;IGNORE;IGNORE;<U02C9> % MODIFIER LETTER MACRON
<U0304> IGNORE;IGNORE;IGNORE;<U0304> % COMBINING MACRON
<U02CD> IGNORE;IGNORE;IGNORE;<U02CD> % MODIFIER LETTER LOW MACRON
<U0331> IGNORE;IGNORE;IGNORE;<U0331> % COMBINING MACRON BELOW
<U0305> IGNORE;IGNORE;IGNORE;<U0305> % COMBINING OVERLINE
<U033F> IGNORE;IGNORE;IGNORE;<U033F> % COMBINING DOUBLE OVERLINE
<U0332> IGNORE;IGNORE;IGNORE;<U0332> % COMBINING LOW LINE
<U0333> IGNORE;IGNORE;IGNORE;<U0333> % COMBINING DOUBLE LOW LINE
<U0318> IGNORE;IGNORE;IGNORE;<U0318> % COMBINING LEFT TACK BELOW
<U0319> IGNORE;IGNORE;IGNORE;<U0319> % COMBINING RIGHT TACK BELOW
<U02D4> IGNORE;IGNORE;IGNORE;<U02D4> % MODIFIER LETTER UP TACK
<U031D> IGNORE;IGNORE;IGNORE;<U031D> % COMBINING UP TACK BELOW
<U02D5> IGNORE;IGNORE;IGNORE;<U02D5> % MODIFIER LETTER DOWN TACK
<U031E> IGNORE;IGNORE;IGNORE;<U031E> % COMBINING DOWN TACK BELOW
<U02D6> IGNORE;IGNORE;IGNORE;<U02D6> % MODIFIER LETTER PLUS SIGN
<U031F> IGNORE;IGNORE;IGNORE;<U031F> % COMBINING PLUS SIGN BELOW
<U02D7> IGNORE;IGNORE;IGNORE;<U02D7> % MODIFIER LETTER MINUS SIGN
<U0320> IGNORE;IGNORE;IGNORE;<U0320> % COMBINING MINUS SIGN BELOW
<U031B> IGNORE;IGNORE;IGNORE;<U031B> % COMBINING HORN
<U00B7> IGNORE;IGNORE;IGNORE;<U00B7> % MIDDLE DOT
<U1FBF> IGNORE;IGNORE;IGNORE;<U1FBF> % GREEK PSILI
<U0313> IGNORE;IGNORE;IGNORE;<U0313> % COMBINING COMMA ABOVE
<U0486> IGNORE;IGNORE;IGNORE;<U0486> % CYRILLIC COMBINING PSILI PNEUMATA
<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
<U1FFE> IGNORE;IGNORE;IGNORE;<U1FFE> % GREEK DASIA
<U0314> IGNORE;IGNORE;IGNORE;<U0314> % COMBINING REVERSED COMMA ABOVE
<U0485> IGNORE;IGNORE;IGNORE;<U0485> % CYRILLIC COMBINING DASIA PNEUMATA
<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
<U1FEF> IGNORE;IGNORE;IGNORE;<U1FEF> % GREEK VARIA
<U1FFD> IGNORE;IGNORE;IGNORE;<U1FFD> % GREEK OXIA
<U0384> IGNORE;IGNORE;IGNORE;<U0384> % GREEK TONOS
<U030D> IGNORE;IGNORE;IGNORE;<U030D> % COMBINING VERTICAL LINE ABOVE
<U1FC0> IGNORE;IGNORE;IGNORE;<U1FC0> % GREEK PERISPOMENI
<U1FBE> IGNORE;IGNORE;IGNORE;<U1FBE> % GREEK PROSGEGRAMMENI
<U037A> IGNORE;IGNORE;IGNORE;<U037A> % GREEK YPOGEGRAMMENI
<U1FED> IGNORE;IGNORE;IGNORE;<U1FED> % GREEK DIALYTIKA AND VARIA
<U1FEE> IGNORE;IGNORE;IGNORE;<U1FEE> % GREEK DIALYTIKA AND OXIA
<U0385> IGNORE;IGNORE;IGNORE;<U0385> % GREEK DIALYTIKA TONOS
<U1FC1> IGNORE;IGNORE;IGNORE;<U1FC1> % GREEK DIALYTIKA AND PERISPOMENI
<U02D0> IGNORE;IGNORE;IGNORE;<U02D0> % MODIFIER LETTER TRIANGULAR COLON
<U02D1> IGNORE;IGNORE;IGNORE;<U02D1> % MODIFIER LETTER HALF TRIANGULAR COLON
<U02C8> IGNORE;IGNORE;IGNORE;<U02C8> % MODIFIER LETTER VERTICAL LINE
<U02CC> IGNORE;IGNORE;IGNORE;<U02CC> % MODIFIER LETTER LOW VERTICAL LINE
<U0329> IGNORE;IGNORE;IGNORE;<U0329> % COMBINING VERTICAL LINE BELOW
<U02B9> IGNORE;IGNORE;IGNORE;<U02B9> % MODIFIER LETTER PRIME
<U02BA> IGNORE;IGNORE;IGNORE;<U02BA> % MODIFIER LETTER DOUBLE PRIME
<U02BB> IGNORE;IGNORE;IGNORE;<U02BB> % MODIFIER LETTER TURNED COMMA
<U0312> IGNORE;IGNORE;IGNORE;<U0312> % COMBINING TURNED COMMA ABOVE
<U02BD> IGNORE;IGNORE;IGNORE;<U02BD> % MODIFIER LETTER REVERSED COMMA
<U02BC> IGNORE;IGNORE;IGNORE;<U02BC> % MODIFIER LETTER APOSTROPHE
<U0315> IGNORE;IGNORE;IGNORE;<U0315> % COMBINING COMMA ABOVE RIGHT
<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
<U02DE> IGNORE;IGNORE;IGNORE;<U02DE> % MODIFIER LETTER RHOTIC HOOK
<U031A> IGNORE;IGNORE;IGNORE;<U031A> % COMBINING LEFT ANGLE ABOVE
<U032B> IGNORE;IGNORE;IGNORE;<U032B> % COMBINING INVERTED DOUBLE ARCH BELOW
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<U033C> IGNORE;IGNORE;IGNORE;<U033C> % COMBINING SEAGULL BELOW
<U033D> IGNORE;IGNORE;IGNORE;<U033D> % COMBINING X ABOVE
<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
<U20D0> IGNORE;IGNORE;IGNORE;<U20D0> % COMBINING LEFT HARPOON ABOVE
<U20D1> IGNORE;IGNORE;IGNORE;<U20D1> % COMBINING RIGHT HARPOON ABOVE
<U20D2> IGNORE;IGNORE;IGNORE;<U20D2> % COMBINING LONG VERTICAL LINE OVERLAY
<U20D3> IGNORE;IGNORE;IGNORE;<U20D3> % COMBINING SHORT VERTICAL LINE OVERLAY
<U20D4> IGNORE;IGNORE;IGNORE;<U20D4> % COMBINING ANTICLOCKWISE ARROW ABOVE
<U20D5> IGNORE;IGNORE;IGNORE;<U20D5> % COMBINING CLOCKWISE ARROW ABOVE
<U20D6> IGNORE;IGNORE;IGNORE;<U20D6> % COMBINING LEFT ARROW ABOVE
<U20D7> IGNORE;IGNORE;IGNORE;<U20D7> % COMBINING RIGHT ARROW ABOVE
<U20D8> IGNORE;IGNORE;IGNORE;<U20D8> % COMBINING RING OVERLAY
<U20D9> IGNORE;IGNORE;IGNORE;<U20D9> % COMBINING CLOCKWISE RING OVERLAY
<U20DA> IGNORE;IGNORE;IGNORE;<U20DA> % COMBINING ANTICLOCKWISE RING OVERLAY
<U20DB> IGNORE;IGNORE;IGNORE;<U20DB> % COMBINING THREE DOTS ABOVE
<U20DC> IGNORE;IGNORE;IGNORE;<U20DC> % COMBINING FOUR DOTS ABOVE
<U20DD> IGNORE;IGNORE;IGNORE;<U20DD> % COMBINING ENCLOSING CIRCLE
<U20DE> IGNORE;IGNORE;IGNORE;<U20DE> % COMBINING ENCLOSING SQUARE
<U20DF> IGNORE;IGNORE;IGNORE;<U20DF> % COMBINING ENCLOSING DIAMOND
<U20E0> IGNORE;IGNORE;IGNORE;<U20E0> % COMBINING ENCLOSING CIRCLE BACKSLASH
<U20E1> IGNORE;IGNORE;IGNORE;<U20E1> % COMBINING LEFT RIGHT ARROW ABOVE
<U05C1> IGNORE;IGNORE;IGNORE;<U05C1> % HEBREW POINT SHIN DOT
<U05C2> IGNORE;IGNORE;IGNORE;<U05C2> % HEBREW POINT SIN DOT
<U05B0> IGNORE;IGNORE;IGNORE;<U05B0> % HEBREW POINT SHEVA
<U05B1> IGNORE;IGNORE;IGNORE;<U05B1> % HEBREW POINT HATAF SEGOL
<U05B2> IGNORE;IGNORE;IGNORE;<U05B2> % HEBREW POINT HATAF PATAH
<U05B3> IGNORE;IGNORE;IGNORE;<U05B3> % HEBREW POINT HATAF QAMATS
<U05B4> IGNORE;IGNORE;IGNORE;<U05B4> % HEBREW POINT HIRIQ
<U05B5> IGNORE;IGNORE;IGNORE;<U05B5> % HEBREW POINT TSERE
<U05B6> IGNORE;IGNORE;IGNORE;<U05B6> % HEBREW POINT SEGOL
<U05B7> IGNORE;IGNORE;IGNORE;<U05B7> % HEBREW POINT PATAH
<U05B8> IGNORE;IGNORE;IGNORE;<U05B8> % HEBREW POINT QAMATS
<U05B9> IGNORE;IGNORE;IGNORE;<U05B9> % HEBREW POINT HOLAM
<U05BB> IGNORE;IGNORE;IGNORE;<U05BB> % HEBREW POINT QUBUTS
<U05BC> IGNORE;IGNORE;IGNORE;<U05BC> % HEBREW POINT DAGESH OR MAPIQ
<U05BD> IGNORE;IGNORE;IGNORE;<U05BD> % HEBREW POINT METEG
<U05BF> IGNORE;IGNORE;IGNORE;<U05BF> % HEBREW POINT RAFE
<U05C4> IGNORE;IGNORE;IGNORE;<U05C4> % HEBREW MARK UPPER DOT
<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
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<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
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% Paired punctuation; ponctuation par paires

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<U0027> IGNORE;IGNORE;IGNORE;<U0027> % APOSTROPHE
<U2039> IGNORE;IGNORE;IGNORE;<U2039> % SINGLE LEFT-POINTING ANGLE QUOTATION MARK
<U201A> IGNORE;IGNORE;IGNORE;<U201A> % SINGLE LOW-9 QUOTATION MARK
<U2018> IGNORE;IGNORE;IGNORE;<U2018> % LEFT SINGLE QUOTATION MARK
<U275B> IGNORE;IGNORE;IGNORE;<U275B> % HEAVY SINGLE TURNED COMMA QUOTATION MARK ORNAMENT
<U2019> IGNORE;IGNORE;IGNORE;<U2019> % RIGHT SINGLE QUOTATION MARK
<U275C> IGNORE;IGNORE;IGNORE;<U275C> % HEAVY SINGLE COMMA QUOTATION MARK ORNAMENT
<U201B> IGNORE;IGNORE;IGNORE;<U201B> % SINGLE HIGH-REVERSED-9 QUOTATION MARK
<U203A> IGNORE;IGNORE;IGNORE;<U203A> % SINGLE RIGHT-POINTING ANGLE QUOTATION MARK
<U1FBD> IGNORE;IGNORE;IGNORE;<U1FBD> % GREEK KORONIS
<U055A> IGNORE;IGNORE;IGNORE;<U055A> % ARMENIAN APOSTROPHE
<U0022> IGNORE;IGNORE;IGNORE;<U0022> % QUOTATION MARK
<U00AB> IGNORE;IGNORE;IGNORE;<U00AB> % LEFT-POINTING DOUBLE ANGLE QUOTATION MARK
<U201E> IGNORE;IGNORE;IGNORE;<U201E> % DOUBLE LOW-9 QUOTATION MARK
<U201C> IGNORE;IGNORE;IGNORE;<U201C> % LEFT DOUBLE QUOTATION MARK
<U275D> IGNORE;IGNORE;IGNORE;<U275D> % HEAVY DOUBLE TURNED COMMA QUOTATION MARK ORNAMENT
<U201D> IGNORE;IGNORE;IGNORE;<U201D> % RIGHT DOUBLE QUOTATION MARK
<U275E> IGNORE;IGNORE;IGNORE;<U275E> % HEAVY DOUBLE COMMA QUOTATION MARK ORNAMENT
<U201F> IGNORE;IGNORE;IGNORE;<U201F> % DOUBLE HIGH-REVERSED-9 QUOTATION MARK
<U00BB> IGNORE;IGNORE;IGNORE;<U00BB> % RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK
<U0028> IGNORE;IGNORE;IGNORE;<U0028> % LEFT PARENTHESIS
<U207D> IGNORE;IGNORE;IGNORE;<U207D> % SUPERSCRIPT LEFT PARENTHESIS
<U208D> IGNORE;IGNORE;IGNORE;<U208D> % SUBSCRIPT LEFT PARENTHESIS
<U005B> IGNORE;IGNORE;IGNORE;<U005B> % LEFT SQUARE BRACKET
<U2045> IGNORE;IGNORE;IGNORE;<U2045> % LEFT SQUARE BRACKET WITH QUILL
<U007B> IGNORE;IGNORE;IGNORE;<U007B> % LEFT CURLY BRACKET
<U007D> IGNORE;IGNORE;IGNORE;<U007D> % RIGHT CURLY BRACKET
<U2046> IGNORE;IGNORE;IGNORE;<U2046> % RIGHT SQUARE BRACKET WITH QUILL
<U005D> IGNORE;IGNORE;IGNORE;<U005D> % RIGHT SQUARE BRACKET
<U0029> IGNORE;IGNORE;IGNORE;<U0029> % RIGHT PARENTHESIS
<U207E> IGNORE;IGNORE;IGNORE;<U207E> % SUPERSCRIPT RIGHT PARENTHESIS
<U208E> IGNORE;IGNORE;IGNORE;<U208E> % SUBSCRIPT RIGHT PARENTHESIS
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% Typographical signs; symboles typographiques

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<U00A7> IGNORE;IGNORE;IGNORE;<U00A7> % SECTION SIGN
<U00B6> IGNORE;IGNORE;IGNORE;<U00B6> % PILCROW SIGN
<U2761> IGNORE;IGNORE;IGNORE;<U2761> % CURVED STEM PARAGRAPH SIGN ORNAMENT
<U10FB> IGNORE;IGNORE;IGNORE;<U10FB> % GEORGIAN PARAGRAPH SEPARATOR
<U00A9> IGNORE;IGNORE;IGNORE;<U00A9> % COPYRIGHT SIGN
<U2117> IGNORE;IGNORE;IGNORE;<U2117> % SOUND RECORDING COPYRIGHT
<U00AE> IGNORE;IGNORE;IGNORE;<U00AE> % REGISTERED SIGN
<U2120> IGNORE;IGNORE;IGNORE;<U2120> % SERVICE MARK
<U2121> IGNORE;IGNORE;IGNORE;<U2121> % TELEPHONE SIGN
<U2122> IGNORE;IGNORE;IGNORE;<U2122> % TRADE MARK SIGN
<U0040> IGNORE;IGNORE;IGNORE;<U0040> % COMMERCIAL AT
<U212E> IGNORE;IGNORE;IGNORE;<U212E> % ESTIMATED SYMBOL
<U00A4> IGNORE;IGNORE;IGNORE;<U00A4> % CURRENCY SIGN
<U0E3F> IGNORE;IGNORE;IGNORE;<U0E3F> % THAI CURRENCY SYMBOL BAHT
<U00A2> IGNORE;IGNORE;IGNORE;<U00A2> % CENT SIGN
<U20A1> IGNORE;IGNORE;IGNORE;<U20A1> % COLON SIGN
<U20A2> IGNORE;IGNORE;IGNORE;<U20A2> % CRUZEIRO SIGN
<U0024> IGNORE;IGNORE;IGNORE;<U0024> % DOLLAR SIGN
<U20AB> IGNORE;IGNORE;IGNORE;<U20AB> % DONG SIGN
<U20A0> IGNORE;IGNORE;IGNORE;<U20A0> % EURO-CURRENCY SIGN
<U20A3> IGNORE;IGNORE;IGNORE;<U20A3> % FRENCH FRANC SIGN
<U20A4> IGNORE;IGNORE;IGNORE;<U20A4> % LIRA SIGN
<U20A5> IGNORE;IGNORE;IGNORE;<U20A5> % MILL SIGN
<U20A6> IGNORE;IGNORE;IGNORE;<U20A6> % NAIRA SIGN
<U20A7> IGNORE;IGNORE;IGNORE;<U20A7> % PESETA SIGN
<U00A3> IGNORE;IGNORE;IGNORE;<U00A3> % POUND SIGN
<U20A8> IGNORE;IGNORE;IGNORE;<U20A8> % RUPEE SIGN
<U20AA> IGNORE;IGNORE;IGNORE;<U20AA> % NEW SHEQEL SIGN
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<U20A9> IGNORE;IGNORE;IGNORE;<U20A9> % WON SIGN
<U00A5> IGNORE;IGNORE;IGNORE;<U00A5> % YEN SIGN
<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
<U2022> IGNORE;IGNORE;IGNORE;<U2022> % BULLET
<U25D8> IGNORE;IGNORE;IGNORE;<U25D8> % INVERSE BULLET
<U25CB> IGNORE;IGNORE;IGNORE;<U25CB> % WHITE CIRCLE
<U25D9> IGNORE;IGNORE;IGNORE;<U25D9> % INVERSE WHITE CIRCLE
<U2023> IGNORE;IGNORE;IGNORE;<U2023> % TRIANGULAR BULLET
<U2043> IGNORE;IGNORE;IGNORE;<U2043> % HYPHEN BULLET
<U25A0> IGNORE;IGNORE;IGNORE;<U25A0> % BLACK SQUARE
<U25AC> IGNORE;IGNORE;IGNORE;<U25AC> % BLACK RECTANGLE
<U25CA> IGNORE;IGNORE;IGNORE;<U25CA> % LOZENGE
<U2020> IGNORE;IGNORE;IGNORE;<U2020> % DAGGER
<U2021> IGNORE;IGNORE;IGNORE;<U2021> % DOUBLE DAGGER
<U203B> IGNORE;IGNORE;IGNORE;<U203B> % REFERENCE MARK
<U2038> IGNORE;IGNORE;IGNORE;<U2038> % CARET
<U2041> IGNORE;IGNORE;IGNORE;<U2041> % CARET INSERTION POINT


% Programming signs; symboles de programmation

<U002A> IGNORE;IGNORE;IGNORE;<U002A> % ASTERISK
<U2042> IGNORE;IGNORE;IGNORE;<U2042> % ASTERISM
<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
<U2731> IGNORE;IGNORE;IGNORE;<U2731> % HEAVY ASTERISK
<U2732> IGNORE;IGNORE;IGNORE;<U2732> % OPEN CENTER ASTERISK
<U2733> IGNORE;IGNORE;IGNORE;<U2733> % EIGHT SPOKED ASTERISK
<U273A> IGNORE;IGNORE;IGNORE;<U273A> % SIXTEEN POINTED ASTERISK
<U273B> IGNORE;IGNORE;IGNORE;<U273B> % TEARDROP-SPOKED ASTERISK
<U273C> IGNORE;IGNORE;IGNORE;<U273C> % OPEN CENTER TEARDROP-SPOKED ASTERISK
<U273D> IGNORE;IGNORE;IGNORE;<U273D> % HEAVY TEARDROP-SPOKED ASTERISK
<U2743> IGNORE;IGNORE;IGNORE;<U2743> % HEAVY TEARDROP-SPOKED PINWHEEL ASTERISK
<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
<U005C> IGNORE;IGNORE;IGNORE;<U005C> % REVERSE SOLIDUS
<U0026> IGNORE;IGNORE;IGNORE;<U0026> % AMPERSAND
<U0023> IGNORE;IGNORE;IGNORE;<U0023> % NUMBER SIGN
<U0025> IGNORE;IGNORE;IGNORE;<U0025> % PERCENT SIGN
<U2030> IGNORE;IGNORE;IGNORE;<U2030> % PER MILLE SIGN
<U2031> IGNORE;IGNORE;IGNORE;<U2031> % PER TEN THOUSAND SIGN
<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
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<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

% Keyboard and formatting signs; symboles de claviers et de formatage

<U2318> IGNORE;IGNORE;IGNORE;<U2318> % PLACE OF INTEREST SIGN
<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
<U232B> IGNORE;IGNORE;IGNORE;<U232B> % ERASE TO THE LEFT
<U2327> IGNORE;IGNORE;IGNORE;<U2327> % X IN A RECTANGLE BOX
<U2328> IGNORE;IGNORE;IGNORE;<U2328> % KEYBOARD
<U200C> IGNORE;IGNORE;IGNORE;<U200C> % ZERO WIDTH NON-JOINER
<U200D> IGNORE;IGNORE;IGNORE;<U200D> % ZERO WIDTH JOINER
<U200E> IGNORE;IGNORE;IGNORE;<U200E> % LEFT-TO-RIGHT MARK
<U200F> IGNORE;IGNORE;IGNORE;<U200F> % RIGHT-TO-LEFT MARK
<U202A> IGNORE;IGNORE;IGNORE;<U202A> % LEFT-TO-RIGHT EMBEDDING
<U202B> IGNORE;IGNORE;IGNORE;<U202B> % RIGHT-TO-LEFT EMBEDDING
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<U202C> IGNORE;IGNORE;IGNORE;<U202C> % POP DIRECTIONAL FORMATTING
<U202D> IGNORE;IGNORE;IGNORE;<U202D> % LEFT-TO-RIGHT OVERRIDE
<U202E> IGNORE;IGNORE;IGNORE;<U202E> % RIGHT-TO-LEFT OVERRIDE
<UFFFD> IGNORE;IGNORE;IGNORE;<UFFFD> % REPLACEMENT CHARACTER

% Arithmetic signs; signes arithmétiques

<U2212> IGNORE;IGNORE;IGNORE;<U2212> % MINUS SIGN
<U207B> IGNORE;IGNORE;IGNORE;<U207B> % SUPERSCRIPT MINUS
<U208B> IGNORE;IGNORE;IGNORE;<U208B> % SUBSCRIPT MINUS
<U2296> IGNORE;IGNORE;IGNORE;<U2296> % CIRCLED MINUS
<U229D> IGNORE;IGNORE;IGNORE;<U229D> % CIRCLED DASH
<U229F> IGNORE;IGNORE;IGNORE;<U229F> % SQUARED MINUS
<U2216> IGNORE;IGNORE;IGNORE;<U2216> % SET MINUS
<U2213> IGNORE;IGNORE;IGNORE;<U2213> % MINUS-OR-PLUS SIGN
<U002B> IGNORE;IGNORE;IGNORE;<U002B> % PLUS SIGN
<UFB29> IGNORE;IGNORE;IGNORE;<UFB29> % HEBREW LETTER ALTERNATIVE PLUS SIGN
<U00B1> IGNORE;IGNORE;IGNORE;<U00B1> % PLUS-MINUS SIGN
<U2214> IGNORE;IGNORE;IGNORE;<U2214> % DOT PLUS
<U207A> IGNORE;IGNORE;IGNORE;<U207A> % SUPERSCRIPT PLUS SIGN
<U208A> IGNORE;IGNORE;IGNORE;<U208A> % SUBSCRIPT PLUS SIGN
<U2295> IGNORE;IGNORE;IGNORE;<U2295> % CIRCLED PLUS
<U229E> IGNORE;IGNORE;IGNORE;<U229E> % SQUARED PLUS
<U00D7> IGNORE;IGNORE;IGNORE;<U00D7> % MULTIPLICATION SIGN
<U2297> IGNORE;IGNORE;IGNORE;<U2297> % CIRCLED TIMES
<U22A0> IGNORE;IGNORE;IGNORE;<U22A0> % SQUARED TIMES
<U22C7> IGNORE;IGNORE;IGNORE;<U22C7> % DIVISION TIMES
<U00F7> IGNORE;IGNORE;IGNORE;<U00F7> % DIVISION SIGN
<U2215> IGNORE;IGNORE;IGNORE;<U2215> % DIVISION SLASH
<U2298> IGNORE;IGNORE;IGNORE;<U2298> % CIRCLED DIVISION SLASH
<U2219> IGNORE;IGNORE;IGNORE;<U2219> % BULLET OPERATOR
<U22C5> IGNORE;IGNORE;IGNORE;<U22C5> % DOT OPERATOR
<U2299> IGNORE;IGNORE;IGNORE;<U2299> % CIRCLED DOT OPERATOR
<U22A1> IGNORE;IGNORE;IGNORE;<U22A1> % SQUARED DOT OPERATOR
<U22C6> IGNORE;IGNORE;IGNORE;<U22C6> % STAR OPERATOR
<U2218> IGNORE;IGNORE;IGNORE;<U2218> % RING OPERATOR
<U229A> IGNORE;IGNORE;IGNORE;<U229A> % CIRCLED RING OPERATOR
<U22C4> IGNORE;IGNORE;IGNORE;<U22C4> % DIAMOND OPERATOR
<U2217> IGNORE;IGNORE;IGNORE;<U2217> % ASTERISK OPERATOR
<U229B> IGNORE;IGNORE;IGNORE;<U229B> % CIRCLED ASTERISK OPERATOR

% Logic signs; opérateurs logiques

<U003C> IGNORE;IGNORE;IGNORE;<U003C> % LESS-THAN SIGN
<U2264> IGNORE;IGNORE;IGNORE;<U2264> % LESS-THAN OR EQUAL TO
<U2266> IGNORE;IGNORE;IGNORE;<U2266> % LESS-THAN OVER EQUAL TO
<U2268> IGNORE;IGNORE;IGNORE;<U2268> % LESS-THAN BUT NOT EQUAL TO
<U226A> IGNORE;IGNORE;IGNORE;<U226A> % MUCH LESS-THAN
<U226E> IGNORE;IGNORE;IGNORE;<U226E> % NOT LESS-THAN
<U2270> IGNORE;IGNORE;IGNORE;<U2270> % NEITHER LESS-THAN NOR EQUAL TO
<U2272> IGNORE;IGNORE;IGNORE;<U2272> % LESS-THAN OR EQUIVALENT TO
<U2274> IGNORE;IGNORE;IGNORE;<U2274> % NEITHER LESS-THAN NOR EQUIVALENT TO
<U2276> IGNORE;IGNORE;IGNORE;<U2276> % LESS-THAN OR GREATER-THAN
<U2278> IGNORE;IGNORE;IGNORE;<U2278> % NEITHER LESS-THAN NOR GREATER-THAN
<U22D6> IGNORE;IGNORE;IGNORE;<U22D6> % LESS-THAN WITH DOT
<U22D8> IGNORE;IGNORE;IGNORE;<U22D8> % VERY MUCH LESS-THAN
<U22DA> IGNORE;IGNORE;IGNORE;<U22DA> % LESS-THAN EQUAL TO OR GREATER-THAN
<U22DC> IGNORE;IGNORE;IGNORE;<U22DC> % EQUAL TO OR LESS-THAN
<U22E6> IGNORE;IGNORE;IGNORE;<U22E6> % LESS-THAN BUT NOT EQUIVALENT TO
<U227A> IGNORE;IGNORE;IGNORE;<U227A> % PRECEDES
<U227C> IGNORE;IGNORE;IGNORE;<U227C> % PRECEDES OR EQUAL TO
<U227E> IGNORE;IGNORE;IGNORE;<U227E> % PRECEDES OR EQUIVALENT TO
<U2280> IGNORE;IGNORE;IGNORE;<U2280> % DOES NOT PRECEDE
<U22DE> IGNORE;IGNORE;IGNORE;<U22DE> % EQUAL TO OR PRECEDES
<U22E0> IGNORE;IGNORE;IGNORE;<U22E0> % DOES NOT PRECEDE OR EQUAL
<U22E8> IGNORE;IGNORE;IGNORE;<U22E8> % PRECEDES BUT NOT EQUIVALENT TO
<U22B0> IGNORE;IGNORE;IGNORE;<U22B0> % PRECEDES UNDER RELATION
<U2248> IGNORE;IGNORE;IGNORE;<U2248> % ALMOST EQUAL TO
<U003D> IGNORE;IGNORE;IGNORE;<U003D> % EQUALS SIGN
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<U207C> IGNORE;IGNORE;IGNORE;<U207C> % SUPERSCRIPT EQUALS SIGN
<U208C> IGNORE;IGNORE;IGNORE;<U208C> % SUBSCRIPT EQUALS SIGN
<U229C> IGNORE;IGNORE;IGNORE;<U229C> % CIRCLED EQUALS
<U2261> IGNORE;IGNORE;IGNORE;<U2261> % IDENTICAL TO
<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 EQUAL
<U2255> IGNORE;IGNORE;IGNORE;<U2255> % EQUAL 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
<U226C> IGNORE;IGNORE;IGNORE;<U226C> % BETWEEN
<U226D> IGNORE;IGNORE;IGNORE;<U226D> % NOT EQUIVALENT TO
<U003E> IGNORE;IGNORE;IGNORE;<U003E> % GREATER-THAN SIGN
<U2265> IGNORE;IGNORE;IGNORE;<U2265> % GREATER-THAN OR EQUAL TO
<U2267> IGNORE;IGNORE;IGNORE;<U2267> % GREATER-THAN OVER EQUAL TO
<U2269> IGNORE;IGNORE;IGNORE;<U2269> % GREATER-THAN BUT NOT EQUAL TO
<U226B> IGNORE;IGNORE;IGNORE;<U226B> % MUCH GREATER-THAN
<U226F> IGNORE;IGNORE;IGNORE;<U226F> % NOT GREATER-THAN
<U2271> IGNORE;IGNORE;IGNORE;<U2271> % NEITHER GREATER-THAN NOR EQUAL TO
<U2273> IGNORE;IGNORE;IGNORE;<U2273> % GREATER-THAN OR EQUIVALENT TO
<U2275> IGNORE;IGNORE;IGNORE;<U2275> % NEITHER GREATER-THAN NOR EQUIVALENT TO
<U2277> IGNORE;IGNORE;IGNORE;<U2277> % GREATER-THAN OR LESS-THAN
<U2279> IGNORE;IGNORE;IGNORE;<U2279> % NEITHER GREATER-THAN NOR LESS-THAN
<U22D7> IGNORE;IGNORE;IGNORE;<U22D7> % GREATER-THAN WITH DOT
<U22D9> IGNORE;IGNORE;IGNORE;<U22D9> % VERY MUCH GREATER-THAN
<U22DB> IGNORE;IGNORE;IGNORE;<U22DB> % GREATER-THAN EQUAL TO OR LESS-THAN
<U22DD> IGNORE;IGNORE;IGNORE;<U22DD> % EQUAL TO OR GREATER-THAN
<U22E7> IGNORE;IGNORE;IGNORE;<U22E7> % GREATER-THAN BUT NOT EQUIVALENT TO
<U227B> IGNORE;IGNORE;IGNORE;<U227B> % SUCCEEDS
<U227D> IGNORE;IGNORE;IGNORE;<U227D> % SUCCEEDS OR EQUAL TO
<U227F> IGNORE;IGNORE;IGNORE;<U227F> % SUCCEEDS OR EQUIVALENT TO
<U2281> IGNORE;IGNORE;IGNORE;<U2281> % DOES NOT SUCCEED
<U22DF> IGNORE;IGNORE;IGNORE;<U22DF> % EQUAL TO OR SUCCEEDS
<U22E1> IGNORE;IGNORE;IGNORE;<U22E1> % DOES NOT SUCCEED OR EQUAL
<U22E9> IGNORE;IGNORE;IGNORE;<U22E9> % SUCCEEDS BUT NOT EQUIVALENT TO
<U22B1> IGNORE;IGNORE;IGNORE;<U22B1> % SUCCEEDS UNDER RELATION
<U2260> IGNORE;IGNORE;IGNORE;<U2260> % NOT EQUAL TO
<U00AC> IGNORE;IGNORE;IGNORE;<U00AC> % NOT SIGN
<U2310> IGNORE;IGNORE;IGNORE;<U2310> % REVERSED NOT SIGN
<U007C> IGNORE;IGNORE;IGNORE;<U007C> % VERTICAL LINE
<U00A6> IGNORE;IGNORE;IGNORE;<U00A6> % BROKEN BAR
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<U2016> IGNORE;IGNORE;IGNORE;<U2016> % DOUBLE VERTICAL LINE

% Mathematical signs; symboles mathématiques

<U2203> IGNORE;IGNORE;IGNORE;<U2203> % THERE EXISTS
<U2204> IGNORE;IGNORE;IGNORE;<U2204> % THERE DOES NOT EXIST
<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
<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 OR NOT EQUAL TO
<U228B> IGNORE;IGNORE;IGNORE;<U228B> % SUPERSET OF OR NOT EQUAL TO
<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
<U22D0> IGNORE;IGNORE;IGNORE;<U22D0> % DOUBLE SUBSET
<U22D1> IGNORE;IGNORE;IGNORE;<U22D1> % DOUBLE SUPERSET
<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
<U2229> IGNORE;IGNORE;IGNORE;<U2229> % INTERSECTION
<U222A> IGNORE;IGNORE;IGNORE;<U222A> % UNION
<U228C> IGNORE;IGNORE;IGNORE;<U228C> % MULTISET
<U228D> IGNORE;IGNORE;IGNORE;<U228D> % MULTISET MULTIPLICATION
<U228E> IGNORE;IGNORE;IGNORE;<U228E> % MULTISET UNION
<U2227> IGNORE;IGNORE;IGNORE;<U2227> % LOGICAL AND
<U2228> IGNORE;IGNORE;IGNORE;<U2228> % LOGICAL OR
<U22CF> IGNORE;IGNORE;IGNORE;<U22CF> % CURLY LOGICAL AND
<U22CE> IGNORE;IGNORE;IGNORE;<U22CE> % CURLY LOGICAL OR
<U22C0> IGNORE;IGNORE;IGNORE;<U22C0> % N-ARY LOGICAL AND
<U22C1> IGNORE;IGNORE;IGNORE;<U22C1> % N-ARY LOGICAL OR
<U2293> IGNORE;IGNORE;IGNORE;<U2293> % SQUARE CAP
<U2294> IGNORE;IGNORE;IGNORE;<U2294> % SQUARE CUP
<U22C2> IGNORE;IGNORE;IGNORE;<U22C2> % N-ARY INTERSECTION
<U22C3> IGNORE;IGNORE;IGNORE;<U22C3> % N-ARY UNION
<U22D2> IGNORE;IGNORE;IGNORE;<U22D2> % DOUBLE INTERSECTION
<U22D3> IGNORE;IGNORE;IGNORE;<U22D3> % DOUBLE UNION
<U221A> IGNORE;IGNORE;IGNORE;<U221A> % SQUARE ROOT
<U221B> IGNORE;IGNORE;IGNORE;<U221B> % CUBE ROOT
<U221C> IGNORE;IGNORE;IGNORE;<U221C> % FOURTH ROOT
<U222B> IGNORE;IGNORE;IGNORE;<U222B> % INTEGRAL
<U2320> IGNORE;IGNORE;IGNORE;<U2320> % TOP HALF INTEGRAL
<U2321> IGNORE;IGNORE;IGNORE;<U2321> % BOTTOM HALF 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
<U221D> IGNORE;IGNORE;IGNORE;<U221D> % PROPORTIONAL TO
<U2135> IGNORE;IGNORE;IGNORE;<U2135> % ALEF SYMBOL
<U2136> IGNORE;IGNORE;IGNORE;<U2136> % BET SYMBOL
<U2137> IGNORE;IGNORE;IGNORE;<U2137> % GIMEL SYMBOL
<U2138> IGNORE;IGNORE;IGNORE;<U2138> % DALET SYMBOL
<U2200> IGNORE;IGNORE;IGNORE;<U2200> % FOR ALL
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<U2201> IGNORE;IGNORE;IGNORE;<U2201> % COMPLEMENT
<U2205> IGNORE;IGNORE;IGNORE;<U2205> % EMPTY SET
<U220E> IGNORE;IGNORE;IGNORE;<U220E> % END OF PROOF
<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
<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
<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
<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
<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
<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
<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
<U22D4> IGNORE;IGNORE;IGNORE;<U22D4> % PITCHFORK
<U22D5> IGNORE;IGNORE;IGNORE;<U22D5> % EQUAL AND PARALLEL TO
<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

% Measurement signs; symboles métriques et de mesure en général

<U00B0> IGNORE;IGNORE;IGNORE;<U00B0> % DEGREE SIGN
<U2032> IGNORE;IGNORE;IGNORE;<U2032> % PRIME
<U2033> IGNORE;IGNORE;IGNORE;<U2033> % DOUBLE PRIME
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<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
<U2116> IGNORE;IGNORE;IGNORE;<U2116> % NUMERO SIGN
<U0374> IGNORE;IGNORE;IGNORE;<U0374> % GREEK NUMERAL SIGN
<U0375> IGNORE;IGNORE;IGNORE;<U0375> % GREEK LOWER NUMERAL SIGN
<U0483> IGNORE;IGNORE;IGNORE;<U0483> % CYRILLIC COMBINING TITLO
<U0482> IGNORE;IGNORE;IGNORE;<U0482> % CYRILLIC THOUSANDS SIGN
<U221F> IGNORE;IGNORE;IGNORE;<U221F> % RIGHT ANGLE
<U22BE> IGNORE;IGNORE;IGNORE;<U22BE> % RIGHT ANGLE WITH ARC
<U22BF> IGNORE;IGNORE;IGNORE;<U22BF> % RIGHT TRIANGLE
<U2220> IGNORE;IGNORE;IGNORE;<U2220> % ANGLE
<U2221> IGNORE;IGNORE;IGNORE;<U2221> % MEASURED ANGLE
<U2222> IGNORE;IGNORE;IGNORE;<U2222> % SPHERICAL ANGLE
<U212B> IGNORE;IGNORE;IGNORE;<U212B> % ANGSTROM SIGN
<U2103> IGNORE;IGNORE;IGNORE;<U2103> % DEGREE CELSIUS
<U2206> IGNORE;IGNORE;IGNORE;<U2206> % INCREMENT
<U2207> IGNORE;IGNORE;IGNORE;<U2207> % NABLA
<U2202> IGNORE;IGNORE;IGNORE;<U2202> % PARTIAL DIFFERENTIAL
<U2109> IGNORE;IGNORE;IGNORE;<U2109> % DEGREE FAHRENHEIT
<U212A> IGNORE;IGNORE;IGNORE;<U212A> % KELVIN SIGN
<U00B5> IGNORE;IGNORE;IGNORE;<U00B5> % MICRO SIGN
<U220F> IGNORE;IGNORE;IGNORE;<U220F> % N-ARY PRODUCT
<U2210> IGNORE;IGNORE;IGNORE;<U2210> % N-ARY COPRODUCT
<U2211> IGNORE;IGNORE;IGNORE;<U2211> % N-ARY SUMMATION
<U221E> IGNORE;IGNORE;IGNORE;<U221E> % INFINITY
<U2125> IGNORE;IGNORE;IGNORE;<U2125> % OUNCE SIGN
<U2127> IGNORE;IGNORE;IGNORE;<U2127> % INVERTED OHM SIGN
<U2126> IGNORE;IGNORE;IGNORE;<U2126> % OHM SIGN


% Letterlike signs; symboles utilisant des lettres

<U212C> IGNORE;IGNORE;IGNORE;<U212C> % SCRIPT CAPITAL B
<U2102> IGNORE;IGNORE;IGNORE;<U2102> % DOUBLE-STRUCK C
<U2104> IGNORE;IGNORE;IGNORE;<U2104> % CENTRE LINE SYMBOL
<U212D> IGNORE;IGNORE;IGNORE;<U212D> % BLACK-LETTER CAPITAL C
<U212F> IGNORE;IGNORE;IGNORE;<U212F> % SCRIPT SMALL E
<U2130> IGNORE;IGNORE;IGNORE;<U2130> % SCRIPT CAPITAL E
<U2107> IGNORE;IGNORE;IGNORE;<U2107> % EULER CONSTANT
<U2108> IGNORE;IGNORE;IGNORE;<U2108> % SCRUPLE
<U2131> IGNORE;IGNORE;IGNORE;<U2131> % SCRIPT CAPITAL F
<U2132> IGNORE;IGNORE;IGNORE;<U2132> % TURNED CAPITAL F
<U210A> IGNORE;IGNORE;IGNORE;<U210A> % SCRIPT SMALL G
<U210B> IGNORE;IGNORE;IGNORE;<U210B> % SCRIPT CAPITAL H
<U210C> IGNORE;IGNORE;IGNORE;<U210C> % BLACK-LETTER CAPITAL H
<U210D> IGNORE;IGNORE;IGNORE;<U210D> % DOUBLE-STRUCK CAPITAL H
<U210E> IGNORE;IGNORE;IGNORE;<U210E> % PLANCK CONSTANT
<U210F> IGNORE;IGNORE;IGNORE;<U210F> % PLANCK CONSTANT OVER TWO PI
<U2110> IGNORE;IGNORE;IGNORE;<U2110> % SCRIPT CAPITAL I
<U2111> IGNORE;IGNORE;IGNORE;<U2111> % BLACK-LETTER CAPITAL I
<U2129> IGNORE;IGNORE;IGNORE;<U2129> % TURNED GREEK SMALL LETTER IOTA
<U2112> IGNORE;IGNORE;IGNORE;<U2112> % SCRIPT CAPITAL L
<U2113> IGNORE;IGNORE;IGNORE;<U2113> % SCRIPT SMALL L
<U2114> IGNORE;IGNORE;IGNORE;<U2114> % L B BAR SYMBOL
<U2133> IGNORE;IGNORE;IGNORE;<U2133> % SCRIPT CAPITAL M
<U2115> IGNORE;IGNORE;IGNORE;<U2115> % DOUBLE-STRUCK CAPITAL N
<U2134> IGNORE;IGNORE;IGNORE;<U2134> % SCRIPT SMALL O
<U2118> IGNORE;IGNORE;IGNORE;<U2118> % SCRIPT CAPITAL P
<U2119> IGNORE;IGNORE;IGNORE;<U2119> % DOUBLE-STRUCK CAPITAL P
<U211A> IGNORE;IGNORE;IGNORE;<U211A> % DOUBLE-STRUCK CAPITAL Q
<U211B> IGNORE;IGNORE;IGNORE;<U211B> % SCRIPT CAPITAL R
<U211C> IGNORE;IGNORE;IGNORE;<U211C> % BLACK-LETTER CAPITAL R
<U211D> IGNORE;IGNORE;IGNORE;<U211D> % DOUBLE-STRUCK CAPITAL R
<U211E> IGNORE;IGNORE;IGNORE;<U211E> % PRESCRIPTION TAKE
<U211F> IGNORE;IGNORE;IGNORE;<U211F> % RESPONSE
<U2123> IGNORE;IGNORE;IGNORE;<U2123> % VERSICLE
<U2124> IGNORE;IGNORE;IGNORE;<U2124> % DOUBLE-STRUCK CAPITAL Z
<U2128> IGNORE;IGNORE;IGNORE;<U2128> % BLACK-LETTER CAPITAL Z
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% Office signs; symboles de bureau

<U2100> IGNORE;IGNORE;IGNORE;<U2100> % ACCOUNT OF
<U2101> IGNORE;IGNORE;IGNORE;<U2101> % ADDRESSED TO THE SUBJECT
<U2105> IGNORE;IGNORE;IGNORE;<U2105> % CARE OF
<U2106> IGNORE;IGNORE;IGNORE;<U2106> % CADA UNA
<U260F> IGNORE;IGNORE;IGNORE;<U260F> % WHITE TELEPHONE
<U260E> IGNORE;IGNORE;IGNORE;<U260E> % BLACK TELEPHONE
<U2706> IGNORE;IGNORE;IGNORE;<U2706> % TELEPHONE LOCATION SIGN
<U2315> IGNORE;IGNORE;IGNORE;<U2315> % TELEPHONE RECORDER
<U2707> IGNORE;IGNORE;IGNORE;<U2707> % TAPE DRIVE
<U2709> IGNORE;IGNORE;IGNORE;<U2709> % ENVELOPE
<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
<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
<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
<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
<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
<U261A> IGNORE;IGNORE;IGNORE;<U261A> % BLACK LEFT POINTING INDEX
<U261B> IGNORE;IGNORE;IGNORE;<U261B> % BLACK RIGHT POINTING INDEX
<U270D> IGNORE;IGNORE;IGNORE;<U270D> % WRITING HAND
<U270C> IGNORE;IGNORE;IGNORE;<U270C> % VICTORY HAND
<U2708> IGNORE;IGNORE;IGNORE;<U2708> % AIRPLANE

% Religious, philosophical or professional signs; symboles religieux, philosophiques ou
professionnels

<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
<U2719> IGNORE;IGNORE;IGNORE;<U2719> % OUTLINED GREEK CROSS
<U271A> IGNORE;IGNORE;IGNORE;<U271A> % HEAVY GREEK CROSS
<U271B> IGNORE;IGNORE;IGNORE;<U271B> % OPEN CENTER CROSS
<U271C> IGNORE;IGNORE;IGNORE;<U271C> % HEAVY OPEN CENTER 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
<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
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<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
<U0A74> IGNORE;IGNORE;IGNORE;<U0A74> % GURMUKHI EK ONKHAR
<U0950> IGNORE;IGNORE;IGNORE;<U0950> % DEVANAGARI OM
<U0AD0> IGNORE;IGNORE;IGNORE;<U0AD0> % GUJARATI OM
<U2638> IGNORE;IGNORE;IGNORE;<U2638> % WHEEL OF DHARMA

% Danger signs; symboles de danger

<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

% Boxes; symboles de traçage

<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
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<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
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<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

% Planetary signs; symboles météo et signes du zodiaque

<U2601> IGNORE;IGNORE;IGNORE;<U2601> % CLOUD
<U2602> IGNORE;IGNORE;IGNORE;<U2602> % UMBRELLA
<U2603> IGNORE;IGNORE;IGNORE;<U2603> % SNOWMAN
<U2607> IGNORE;IGNORE;IGNORE;<U2607> % LIGHTNING
<U2608> IGNORE;IGNORE;IGNORE;<U2608> % THUNDERSTORM
<U2668> IGNORE;IGNORE;IGNORE;<U2668> % HOT SPRINGS
<U263C> IGNORE;IGNORE;IGNORE;<U263C> % WHITE SUN WITH RAYS
<U2600> IGNORE;IGNORE;IGNORE;<U2600> % BLACK SUN WITH RAYS
<U2609> IGNORE;IGNORE;IGNORE;<U2609> % SUN
<U263F> IGNORE;IGNORE;IGNORE;<U263F> % MERCURY
<U2640> IGNORE;IGNORE;IGNORE;<U2640> % FEMALE SIGN
<U2641> IGNORE;IGNORE;IGNORE;<U2641> % EARTH
<U263D> IGNORE;IGNORE;IGNORE;<U263D> % FIRST QUARTER MOON
<U263E> IGNORE;IGNORE;IGNORE;<U263E> % LAST QUARTER MOON
<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
<U2604> IGNORE;IGNORE;IGNORE;<U2604> % COMET
<U2606> IGNORE;IGNORE;IGNORE;<U2606> % WHITE STAR
<U2605> IGNORE;IGNORE;IGNORE;<U2605> % BLACK STAR
<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

% Musical signs; signes musicaux

<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
<U266E> IGNORE;IGNORE;IGNORE;<U266E> % MUSIC NATURAL SIGN
<U266F> IGNORE;IGNORE;IGNORE;<U266F> % MUSIC SHARP SIGN
<U266D> IGNORE;IGNORE;IGNORE;<U266D> % MUSIC FLAT SIGN

% Game signs; symboles ludiques

<U2639> IGNORE;IGNORE;IGNORE;<U2639> % WHITE FROWNING FACE
<U263A> IGNORE;IGNORE;IGNORE;<U263A> % WHITE SMILING FACE
<U263B> IGNORE;IGNORE;IGNORE;<U263B> % BLACK SMILING FACE
<U2654> IGNORE;IGNORE;IGNORE;<U2654> % WHITE CHESS KING
<U2655> IGNORE;IGNORE;IGNORE;<U2655> % WHITE CHESS QUEEN
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<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
<U2664> IGNORE;IGNORE;IGNORE;<U2664> % WHITE SPADE SUIT
<U2667> IGNORE;IGNORE;IGNORE;<U2667> % WHITE CLUB SUIT
<U2661> IGNORE;IGNORE;IGNORE;<U2661> % WHITE HEART SUIT
<U2662> IGNORE;IGNORE;IGNORE;<U2662> % WHITE DIAMOND SUIT
<U2660> IGNORE;IGNORE;IGNORE;<U2660> % BLACK SPADE SUIT
<U2663> IGNORE;IGNORE;IGNORE;<U2663> % BLACK CLUB SUIT
<U2665> IGNORE;IGNORE;IGNORE;<U2665> % BLACK HEART SUIT
<U2666> IGNORE;IGNORE;IGNORE;<U2666> % BLACK DIAMOND SUIT


% Arrows; flèches

<U25B2> IGNORE;IGNORE;IGNORE;<U25B2> % BLACK UP-POINTING TRIANGLE
<U25BC> IGNORE;IGNORE;IGNORE;<U25BC> % BLACK DOWN-POINTING TRIANGLE
<U25C4> IGNORE;IGNORE;IGNORE;<U25C4> % BLACK LEFT-POINTING POINTER
<U25BA> IGNORE;IGNORE;IGNORE;<U25BA> % BLACK RIGHT-POINTING POINTER

<U2191> IGNORE;IGNORE;IGNORE;<U2191> % UPWARDS ARROW
<U219F> IGNORE;IGNORE;IGNORE;<U219F> % UPWARDS TWO HEADED ARROW
<U21A5> IGNORE;IGNORE;IGNORE;<U21A5> % UPWARDS ARROW FROM BAR
<U21BE> IGNORE;IGNORE;IGNORE;<U21BE> % UPWARDS HARPOON WITH BARB RIGHTWARDS
<U21BF> IGNORE;IGNORE;IGNORE;<U21BF> % UPWARDS HARPOON WITH BARB LEFTWARDS
<U21C8> IGNORE;IGNORE;IGNORE;<U21C8> % UPWARDS PAIRED ARROWS
<U21D1> IGNORE;IGNORE;IGNORE;<U21D1> % UPWARDS DOUBLE ARROW
<U21DE> IGNORE;IGNORE;IGNORE;<U21DE> % UPWARDS ARROW WITH DOUBLE STROKE
<U21E1> IGNORE;IGNORE;IGNORE;<U21E1> % UPWARDS DASHED ARROW
<U21E7> IGNORE;IGNORE;IGNORE;<U21E7> % UPWARDS WHITE ARROW
<U21EA> IGNORE;IGNORE;IGNORE;<U21EA> % UPWARDS WHITE ARROW FROM BAR
<U2193> IGNORE;IGNORE;IGNORE;<U2193> % DOWNWARDS ARROW
<U21A1> IGNORE;IGNORE;IGNORE;<U21A1> % DOWNWARDS TWO HEADED ARROW
<U21A7> IGNORE;IGNORE;IGNORE;<U21A7> % DOWNWARDS ARROW FROM BAR
<U21AF> IGNORE;IGNORE;IGNORE;<U21AF> % DOWNWARDS ZIGZAG ARROW
<U21C2> IGNORE;IGNORE;IGNORE;<U21C2> % DOWNWARDS HARPOON WITH BARB RIGHTWARDS
<U21C3> IGNORE;IGNORE;IGNORE;<U21C3> % DOWNWARDS HARPOON WITH BARB LEFTWARDS
<U21CA> IGNORE;IGNORE;IGNORE;<U21CA> % DOWNWARDS PAIRED ARROWS
<U21D3> IGNORE;IGNORE;IGNORE;<U21D3> % DOWNWARDS DOUBLE ARROW
<U21DF> IGNORE;IGNORE;IGNORE;<U21DF> % DOWNWARDS ARROW WITH DOUBLE STROKE
<U21E3> IGNORE;IGNORE;IGNORE;<U21E3> % DOWNWARDS DASHED ARROW
<U21E9> IGNORE;IGNORE;IGNORE;<U21E9> % DOWNWARDS WHITE ARROW
<U2195> IGNORE;IGNORE;IGNORE;<U2195> % UP DOWN ARROW
<U21A8> IGNORE;IGNORE;IGNORE;<U21A8> % UP DOWN ARROW WITH BASE
<U21C5> IGNORE;IGNORE;IGNORE;<U21C5> % UPWARDS ARROW LEFTWARDS OF DOWNWARDS ARROW
<U21D5> IGNORE;IGNORE;IGNORE;<U21D5> % UP DOWN DOUBLE ARROW
<U2190> IGNORE;IGNORE;IGNORE;<U2190> % LEFTWARDS ARROW
<U219A> IGNORE;IGNORE;IGNORE;<U219A> % LEFTWARDS ARROW WITH STROKE
<U219E> IGNORE;IGNORE;IGNORE;<U219E> % LEFTWARDS TWO HEADED ARROW
<U21A2> IGNORE;IGNORE;IGNORE;<U21A2> % LEFTWARDS ARROW WITH TAIL
<U21A4> IGNORE;IGNORE;IGNORE;<U21A4> % LEFTWARDS ARROW FROM BAR
<U21A9> IGNORE;IGNORE;IGNORE;<U21A9> % LEFTWARDS ARROW WITH HOOK
<U21AB> IGNORE;IGNORE;IGNORE;<U21AB> % LEFTWARDS ARROW WITH LOOP
<U21BC> IGNORE;IGNORE;IGNORE;<U21BC> % LEFTWARDS HARPOON WITH BARB UPWARDS
<U21BD> IGNORE;IGNORE;IGNORE;<U21BD> % LEFTWARDS HARPOON WITH BARB DOWNWARDS
<U21C7> IGNORE;IGNORE;IGNORE;<U21C7> % LEFTWARDS PAIRED ARROWS
<U21CD> IGNORE;IGNORE;IGNORE;<U21CD> % LEFTWARDS DOUBLE ARROW WITH STROKE
<U21D0> IGNORE;IGNORE;IGNORE;<U21D0> % LEFTWARDS DOUBLE ARROW
<U21DA> IGNORE;IGNORE;IGNORE;<U21DA> % LEFTWARDS TRIPLE ARROW
<U21DC> IGNORE;IGNORE;IGNORE;<U21DC> % LEFTWARDS SQUIGGLE ARROW
<U21E0> IGNORE;IGNORE;IGNORE;<U21E0> % LEFTWARDS DASHED ARROW
<U21E4> IGNORE;IGNORE;IGNORE;<U21E4> % LEFTWARDS ARROW TO BAR
<U21E6> IGNORE;IGNORE;IGNORE;<U21E6> % LEFTWARDS WHITE ARROW
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<U2192> IGNORE;IGNORE;IGNORE;<U2192> % RIGHTWARDS ARROW
<U219B> IGNORE;IGNORE;IGNORE;<U219B> % RIGHTWARDS ARROW WITH STROKE
<U21A0> IGNORE;IGNORE;IGNORE;<U21A0> % RIGHTWARDS TWO HEADED ARROW
<U21A3> IGNORE;IGNORE;IGNORE;<U21A3> % RIGHTWARDS ARROW WITH TAIL
<U21A6> IGNORE;IGNORE;IGNORE;<U21A6> % RIGHTWARDS ARROW FROM BAR
<U21AA> IGNORE;IGNORE;IGNORE;<U21AA> % RIGHTWARDS ARROW WITH HOOK
<U21AC> IGNORE;IGNORE;IGNORE;<U21AC> % RIGHTWARDS ARROW WITH LOOP
<U21C0> IGNORE;IGNORE;IGNORE;<U21C0> % RIGHTWARDS HARPOON WITH BARB UPWARDS
<U21C1> IGNORE;IGNORE;IGNORE;<U21C1> % RIGHTWARDS HARPOON WITH BARB DOWNWARDS
<U21C9> IGNORE;IGNORE;IGNORE;<U21C9> % RIGHTWARDS PAIRED ARROWS
<U21CF> IGNORE;IGNORE;IGNORE;<U21CF> % RIGHTWARDS DOUBLE ARROW WITH STROKE
<U21D2> IGNORE;IGNORE;IGNORE;<U21D2> % RIGHTWARDS DOUBLE ARROW
<U21DB> IGNORE;IGNORE;IGNORE;<U21DB> % RIGHTWARDS TRIPLE ARROW
<U21DD> IGNORE;IGNORE;IGNORE;<U21DD> % RIGHTWARDS SQUIGGLE ARROW
<U21E2> IGNORE;IGNORE;IGNORE;<U21E2> % RIGHTWARDS DASHED ARROW
<U21E5> IGNORE;IGNORE;IGNORE;<U21E5> % RIGHTWARDS ARROW TO BAR
<U21E8> IGNORE;IGNORE;IGNORE;<U21E8> % RIGHTWARDS WHITE ARROW
<U2794> IGNORE;IGNORE;IGNORE;<U2794> % HEAVY WIDE-HEADED RIGHTWARDS ARROW
<U2799> IGNORE;IGNORE;IGNORE;<U2799> % HEAVY RIGHTWARDS 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
<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
<U27B5> IGNORE;IGNORE;IGNORE;<U27B5> % BLACK-FEATHERED RIGHTWARDS ARROW
<U27B8> IGNORE;IGNORE;IGNORE;<U27B8> % HEAVY BLACK-FEATHERED RIGHTWARDS 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
<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
<U2194> IGNORE;IGNORE;IGNORE;<U2194> % LEFT RIGHT ARROW
<U21AD> IGNORE;IGNORE;IGNORE;<U21AD> % LEFT RIGHT WAVE ARROW
<U21AE> IGNORE;IGNORE;IGNORE;<U21AE> % LEFT RIGHT ARROW WITH STROKE
<U21B9> IGNORE;IGNORE;IGNORE;<U21B9> % LEFTWARDS ARROW TO BAR OVER RIGHTWARDS ARROW TO BAR
<U21C4> IGNORE;IGNORE;IGNORE;<U21C4> % RIGHTWARDS ARROW OVER LEFTWARDS ARROW
<U21C6> IGNORE;IGNORE;IGNORE;<U21C6> % LEFTWARDS ARROW OVER RIGHTWARDS ARROW
<U21CB> IGNORE;IGNORE;IGNORE;<U21CB> % LEFTWARDS HARPOON OVER RIGHTWARDS HARPOON
<U21CC> IGNORE;IGNORE;IGNORE;<U21CC> % RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON
<U21CE> IGNORE;IGNORE;IGNORE;<U21CE> % LEFT RIGHT DOUBLE ARROW WITH STROKE
<U21D4> IGNORE;IGNORE;IGNORE;<U21D4> % LEFT RIGHT DOUBLE ARROW
<U2196> IGNORE;IGNORE;IGNORE;<U2196> % NORTH WEST ARROW
<U219C> IGNORE;IGNORE;IGNORE;<U219C> % LEFTWARDS WAVE ARROW
<U21B8> IGNORE;IGNORE;IGNORE;<U21B8> % NORTH WEST ARROW TO LONG BAR
<U21D6> IGNORE;IGNORE;IGNORE;<U21D6> % NORTH WEST DOUBLE ARROW
<U2197> IGNORE;IGNORE;IGNORE;<U2197> % NORTH EAST ARROW
<U219D> IGNORE;IGNORE;IGNORE;<U219D> % RIGHTWARDS WAVE ARROW
<U21D7> IGNORE;IGNORE;IGNORE;<U21D7> % NORTH EAST DOUBLE ARROW
<U279A> IGNORE;IGNORE;IGNORE;<U279A> % HEAVY NORTH EAST ARROW
<U27B6> IGNORE;IGNORE;IGNORE;<U27B6> % BLACK-FEATHERED NORTH EAST ARROW
<U27B9> IGNORE;IGNORE;IGNORE;<U27B9> % HEAVY BLACK-FEATHERED NORTH EAST ARROW
<U2198> IGNORE;IGNORE;IGNORE;<U2198> % SOUTH EAST ARROW
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<U21D9> IGNORE;IGNORE;IGNORE;<U21D9> % SOUTH WEST DOUBLE ARROW
<U2798> IGNORE;IGNORE;IGNORE;<U2798> % HEAVY SOUTH EAST ARROW
<U27B4> IGNORE;IGNORE;IGNORE;<U27B4> % BLACK-FEATHERED SOUTH EAST ARROW
<U27B7> IGNORE;IGNORE;IGNORE;<U27B7> % HEAVY BLACK-FEATHERED SOUTH EAST ARROW
<U2199> IGNORE;IGNORE;IGNORE;<U2199> % SOUTH WEST ARROW
<U21D8> IGNORE;IGNORE;IGNORE;<U21D8> % SOUTH EAST DOUBLE ARROW
<U21B0> IGNORE;IGNORE;IGNORE;<U21B0> % UPWARDS ARROW WITH TIP LEFTWARDS
<U21B1> IGNORE;IGNORE;IGNORE;<U21B1> % UPWARDS ARROW WITH TIP RIGHTWARDS
<U27A6> IGNORE;IGNORE;IGNORE;<U27A6> % HEAVY BLACK CURVED UPWARDS AND RIGHTWARDS ARROW
<U21B2> IGNORE;IGNORE;IGNORE;<U21B2> % DOWNWARDS ARROW WITH TIP LEFTWARDS
<U21B3> IGNORE;IGNORE;IGNORE;<U21B3> % DOWNWARDS ARROW WITH TIP RIGHTWARDS
<U27A5> IGNORE;IGNORE;IGNORE;<U27A5> % HEAVY BLACK CURVED DOWNWARDS AND RIGHTWARDS ARROW
<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
<U21BA> IGNORE;IGNORE;IGNORE;<U21BA> % ANTICLOCKWISE OPEN CIRCLE ARROW
<U21BB> IGNORE;IGNORE;IGNORE;<U21BB> % CLOCKWISE OPEN CIRCLE ARROW


% Blocks; blocs

<U2580> IGNORE;IGNORE;IGNORE;<U2580> % UPPER HALF BLOCK
<U2594> IGNORE;IGNORE;IGNORE;<U2594> % UPPER ONE EIGHTH 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
<U2595> IGNORE;IGNORE;IGNORE;<U2595> % RIGHT ONE EIGHTH BLOCK
<U2591> IGNORE;IGNORE;IGNORE;<U2591> % LIGHT SHADE
<U2592> IGNORE;IGNORE;IGNORE;<U2592> % MEDIUM SHADE
<U2593> IGNORE;IGNORE;IGNORE;<U2593> % DARK SHADE


% Technical signs; symboles techniques

<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
<U2316> IGNORE;IGNORE;IGNORE;<U2316> % POSITION INDICATOR
<U2317> IGNORE;IGNORE;IGNORE;<U2317> % VIEWDATA SQUARE
<U2319> IGNORE;IGNORE;IGNORE;<U2319> % TURNED NOT SIGN
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<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
<U2329> IGNORE;IGNORE;IGNORE;<U2329> % LEFT-POINTING ANGLE BRACKET
<U232A> IGNORE;IGNORE;IGNORE;<U232A> % RIGHT-POINTING ANGLE BRACKET
<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


% Geometric signs; symboles géométriques

<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
<U25CB> IGNORE;IGNORE;IGNORE;<U25CB> % WHITE CIRCLE
<U25CC> IGNORE;IGNORE;IGNORE;<U25CC> % DOTTED CIRCLE
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<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
<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
<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 CENTER BLACK STAR
<U272C> IGNORE;IGNORE;IGNORE;<U272C> % BLACK CENTER 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
<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
<U2742> IGNORE;IGNORE;IGNORE;<U2742> % CIRCLED OPEN CENTER EIGHT POINTED STAR
<U2747> IGNORE;IGNORE;IGNORE;<U2747> % SPARKLE
<U2748> IGNORE;IGNORE;IGNORE;<U2748> % HEAVY SPARKLE
<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
<U2744> IGNORE;IGNORE;IGNORE;<U2744> % SNOWFLAKE
<U2745> IGNORE;IGNORE;IGNORE;<U2745> % TIGHT TRIFOLIATE SNOWFLAKE
<U2746> IGNORE;IGNORE;IGNORE;<U2746> % HEAVY CHEVRON SNOWFLAKE
<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
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<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

% Non-breakers;  caractères insécables
% le dernier caractère spécial et le premier caractère alphabétique -- voir  aussi 5 lignes ci-
après ;
% the last special character and the first alphabetic character - see also 4 lines below

<U2011> IGNORE;IGNORE;IGNORE;<U2011> % NON-BREAKING HYPHEN

order_start <Xy>;forward;forward;forward;forward,position

%If toggle PRIMESPACE (for SPACE ordering at the primary level for the Latin script) is defined,
%the next statement specifies ordering of character SPACE, otherwise , otherwise PRIMNBSP must be
%defined to rather specify here the ordering of NBSP

%Si le bouton PRIMESPACE (indiquant que l'ESPACE doit être classé au premier niveau) est défini,
% l'énoncé suivant décrit le classement du caractère ESPACE (sinon le bouton PRIMNBSP doit être
% défini pour préciser plutôt ici le classement du caractère NBSP)


ifdef PRIMESPACE
<U0020> <espace>;<BLANK>;<BLK>;IGNORE % SPACE/ESPACE
elif PRIMNBSP
<U00A0> <espace>;<BLANK>;<BLK>;IGNORE % NO-BREAK SPACE/ESPACE INSÉCABLE
else
<ERR Intentional mistake for non-conformance/ Erreur intentionnelle de non-conformité
endif

<U0030> <08>;<BLANK>;<BLK>;IGNORE % DIGIT ZERO
<U2070> <08>;<BLANK>;<SUP>;IGNORE % SUPERSCRIPT ZERO
<U2080> <08>;<BLANK>;<SUB>;IGNORE % SUBSCRIPT ZERO
<U24EA> <08>;<U24EA>;<BLK>;IGNORE % CIRCLED DIGIT ZERO
<U0660> <08>;<ARBIN>;<BLK>;IGNORE % ARABIC-INDIC DIGIT ZERO
<U06F0> <08>;<ARBFO>;<BLK>;IGNORE % EXTENDED ARABIC-INDIC DIGIT ZERO
<U0966> <08>;<NAGAR>;<BLK>;IGNORE % DEVANAGARI DIGIT ZERO
<U09E6> <08>;<BENGL>;<BLK>;IGNORE % BENGALI DIGIT ZERO
<U0A66> <08>;<GURMU>;<BLK>;IGNORE % GURMUKHI DIGIT ZERO
<U0AE6> <08>;<GUJAR>;<BLK>;IGNORE % GUJARATI DIGIT ZERO
<U0B66> <08>;<ORIYA>;<BLK>;IGNORE % ORIYA DIGIT ZERO
<U0D66> <08>;<TELGU>;<BLK>;IGNORE % TELUGU DIGIT ZERO
<U0DE6> <08>;<KNNDA>;<BLK>;IGNORE % KANNADA DIGIT ZERO
<U0E66> <08>;<MALAY>;<BLK>;IGNORE % MALAYALAM DIGIT ZERO
<U0E50> <08>;<THAII>;<BLK>;IGNORE % THAI DIGIT ZERO
<U0ED0> <08>;<LAAOO>;<BLK>;IGNORE % LAO DIGIT ZERO
<U0F20> <08>;<BODKA>;<BLK>;IGNORE % TIBETAN DIGIT ZERO
<U215B> <08>;<U215B>;<BLK>;IGNORE % VULGAR FRACTION ONE EIGHTH
<U2159> <08>;<U2159>;<BLK>;IGNORE % VULGAR FRACTION ONE SIXTH
<U2155> <08>;<U2155>;<BLK>;IGNORE % VULGAR FRACTION ONE FIFTH
<U00BC> <08>;<U00BC>;<BLK>;IGNORE % VULGAR FRACTION ONE QUARTER
<U2153> <08>;<U2153>;<BLK>;IGNORE % VULGAR FRACTION ONE THIRD
<U215C> <08>;<U215C>;<BLK>;IGNORE % VULGAR FRACTION THREE EIGHTHS
<U2156> <08>;<U2156>;<BLK>;IGNORE % VULGAR FRACTION TWO FIFTHS
<U00BD> <08>;<U00BD>;<BLK>;IGNORE % VULGAR FRACTION ONE HALF
<U2157> <08>;<U2157>;<BLK>;IGNORE % VULGAR FRACTION THREE FIFTHS
<U215D> <08>;<U215D>;<BLK>;IGNORE % VULGAR FRACTION FIVE EIGHTHS
<U2154> <08>;<U2154>;<BLK>;IGNORE % VULGAR FRACTION TWO THIRDS
<U00BE> <08>;<U00BE>;<BLK>;IGNORE % VULGAR FRACTION THREE QUARTERS
<U215A> <08>;<U215A>;<BLK>;IGNORE % VULGAR FRACTION FIVE SIXTHS
<U2158> <08>;<U2158>;<BLK>;IGNORE % VULGAR FRACTION FOUR FIFTHS
<U215E> <08>;<U215E>;<BLK>;IGNORE % VULGAR FRACTION SEVEN EIGHTHS
<U215F> <08>;<U215F>;<BLK>;IGNORE % FRACTION NUMERATOR ONE
<U09F4> <08>;<BENGL>;<BLK>;IGNORE % BENGALI CURRENCY NUMERATOR ONE
<U09F5> <08>;<BENGL>;<BLK>;IGNORE % BENGALI CURRENCY NUMERATOR TWO
<U09F6> <08>;<BENGL>;<BLK>;IGNORE % BENGALI CURRENCY NUMERATOR THREE
<U09F7> <08>;<BENGL>;<BLK>;IGNORE % BENGALI CURRENCY NUMERATOR FOUR
<U09F8> <08>;<BENGL>;<BLK>;IGNORE % BENGALI CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
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<U09F9> <08>;<BENGL>;<BLK>;IGNORE % BENGALI CURRENCY DENOMINATOR SIXTEEN
<08>
<U0031> <18>;<BLANK>;<BLK>;IGNORE % DIGIT ONE
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<U2081> <18>;<BLANK>;<SUB>;IGNORE % SUBSCRIPT ONE
<U2460> <18>;<U2460>;<BLK>;IGNORE % CIRCLED DIGIT ONE
<U2776> <18>;<U2776>;<BLK>;IGNORE % DINGBAT NEGATIVE CIRCLED DIGIT ONE
<U2780> <18>;<U2780>;<BLK>;IGNORE % DINGBAT CIRCLED SANS-SERIF DIGIT ONE
<U278A> <18>;<U278A>;<BLK>;IGNORE % DINGBAT NEGATIVE CIRCLED SANS-SERIF DIGIT ONE
<U2160> <18>;<LATIN>;<CAP>;IGNORE % ROMAN NUMERAL ONE
<U2170> <18>;<LATIN>;<MIN>;IGNORE % SMALL ROMAN NUMERAL ONE
<U0661> <18>;<ARBIN>;<BLK>;IGNORE % ARABIC-INDIC DIGIT ONE
<U06F1> <18>;<ARBFO>;<BLK>;IGNORE % EXTENDED ARABIC-INDIC DIGIT ONE
<U0967> <18>;<NAGAR>;<BLK>;IGNORE % DEVANAGARI DIGIT ONE
<U09E7> <18>;<BENGL>;<BLK>;IGNORE % BENGALI DIGIT ONE
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<U2461> <28>;<U2461>;<BLK>;IGNORE % CIRCLED DIGIT TWO
<U2777> <28>;<U2777>;<BLK>;IGNORE % DINGBAT NEGATIVE CIRCLED DIGIT TWO
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<U2161> <28>;<LATIN>;<CAP>;IGNORE % ROMAN NUMERAL TWO
<U2171> <28>;<LATIN>;<MIN>;IGNORE % SMALL ROMAN NUMERAL TWO
<U0662> <28>;<ARBIN>;<BLK>;IGNORE % ARABIC-INDIC DIGIT TWO
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<U0968> <28>;<NAGAR>;<BLK>;IGNORE % DEVANAGARI DIGIT TWO
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<U2083> <38>;<BLANK>;<SUB>;IGNORE % SUBSCRIPT THREE
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<U2778> <38>;<U2778>;<BLK>;IGNORE % DINGBAT NEGATIVE CIRCLED DIGIT THREE
<U2782> <38>;<U2782>;<BLK>;IGNORE % DINGBAT CIRCLED SANS-SERIF DIGIT THREE
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<U0969> <38>;<NAGAR>;<BLK>;IGNORE % DEVANAGARI DIGIT THREE
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<U0D6C> <68>;<TELGU>;<BLK>;IGNORE % TELUGU DIGIT SIX
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%

%Toggle for scanning direction of the Latin script accents
%Bouton indiquant le sens de balayage des accents pour l'écriture latine


ifdef ACCENTSONLATIN
order_start <La>;forward;forward;forward;forward,position
elif ACCENTSOFFLATIN
order_start <La>;forward;backward;forward;forward,position
else
order_satrt intentional mistake for non conformance / erreur intentionelle de non-conformité

endif

<U0041> <a8>;<BLANK>;<CAP>;IGNORE % LATIN CAPITAL LETTER A
<U0061> <a8>;<BLANK>;<MIN>;IGNORE % LATIN SMALL LETTER A
<U00AA> <a8>;<PCULR>;<MNS>;IGNORE %ª
<U00C1> <a8>;<AIGUT>;<CAP>;IGNORE % LATIN CAPITAL LETTER A WITH ACUTE
<U00E1> <a8>;<AIGUT>;<MIN>;IGNORE % LATIN SMALL LETTER A WITH ACUTE
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<U0201> <a8>;<2GRAV>;<MIN>;IGNORE % LATIN SMALL LETTER A WITH DOUBLE GRAVE
<U0102> <a8>;<BREVE>;<CAP>;IGNORE % LATIN CAPITAL LETTER A WITH BREVE
<U0103> <a8>;<BREVE>;<MIN>;IGNORE % LATIN SMALL LETTER A WITH BREVE
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<U0064> <d8>;<BLANK>;<MIN>;IGNORE % LATIN SMALL LETTER D
<U00D0> <d8>;<PCULR>;<CAP>;IGNORE % Ð
<U00F0> <d8>;<PCULR>;<MIN>;IGNORE % ð
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LETTER Z
<U01F3> "<d8><z8>";"<BLANK><BLANK>";"<MIN><MIN>";IGNORE % LATIN SMALL LETTER DZ
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LETTER Z WITH CARON
<U01C6> "<d8><z8>";"<BLANK><CARON>";"<MIN><MIN>";IGNORE % LATIN SMALL LETTER DZ WITH CARON
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<U0065> <e8>;<BLANK>;<MIN>;IGNORE % LATIN SMALL LETTER E
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<U00E9> <e8>;<AIGUT>;<MIN>;IGNORE % LATIN SMALL LETTER E WITH ACUTE
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<U00E8> <e8>;<GRAVE>;<MIN>;IGNORE % LATIN SMALL LETTER E WITH GRAVE
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LETTER J
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% abbreviations/abréviations
%       KNHIR -- HIRAGANA LETTER/LETTRE HIRAGANA
%       KNKAT -- KATAKANA LETTER/LETTRE KATAKANA
%       hfwd   -- HALFWIDTH/DEMI-CHASSE
%       voice  -- HIRAGANA-KATAKANA VOICED SOUND MARK/SON VOISÉ HIRAGANA/KATAKANA
%       semi-voice -- SEMI-VOICED SOUND MARK/SON SEMI-VOISÉ
%       iter   -- ITERATION/ITÉRATION
%       comb   -- COMBINING/COMBINATOIRE
%       prolong -- PROLONGED SOUND MARK/MARQUE DE SON PROLONGÉ
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<U30C9> <kn-to>;<KNKAT>;<KNVOX>;<IGNORE>
%
<U306A> <kn-na>;<KNHIR>;<KNNRM>;<IGNORE>
<U30CA> <kn-na>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF85> <kn-na>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U306B> <kn-ni>;<KNHIR>;<KNNRM>;<IGNORE>
<U30CB> <kn-ni>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF86> <kn-ni>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U306C> <kn-nu>;<KNHIR>;<KNNRM>;<IGNORE>
<U30CC> <kn-nu>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF87> <kn-nu>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U306D> <kn-ne>;<KNHIR>;<KNNRM>;<IGNORE>
<U30CD> <kn-ne>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF88> <kn-ne>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U306E> <kn-no>;<KNHIR>;<KNNRM>;<IGNORE>
<U30CE> <kn-no>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF89> <kn-no>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U306F> <kn-ha>;<KNHIR>;<KNNRM>;<IGNORE>
<U3070> <kn-ha>;<KNHIR>;<KNVOX>;<IGNORE>
<U3071> <kn-ha>;<KNHIR>;<KNSEM>;<IGNORE>
<U30CF> <kn-ha>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF8A> <kn-ha>;<KNKAT>;<KNNRH>;<IGNORE>
<U30D0> <kn-ha>;<KNKAT>;<KNVOX>;<IGNORE>
<U30D1> <kn-ha>;<KNKAT>;<KNSEM>;<IGNORE>
%
<U3072> <kn-hi>;<KNHIR>;<KNNRM>;<IGNORE>
<U3073> <kn-hi>;<KNHIR>;<KNVOX>;<IGNORE>
<U3074> <kn-hi>;<KNHIR>;<KNSEM>;<IGNORE>
<U30D2> <kn-hi>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF8B> <kn-hi>;<KNKAT>;<KNNRH>;<IGNORE>
<U30D3> <kn-hi>;<KNKAT>;<KNVOX>;<IGNORE>
<U30D4> <kn-hi>;<KNKAT>;<KNSEM>;<IGNORE>
%
```

```
<U3075> <kn-hu>;<KNHIR>;<KNNRM>;<IGNORE>
<U3076> <kn-hu>;<KNHIR>;<KNVOX>;<IGNORE>
<U3077> <kn-hu>;<KNHIR>;<KNSEM>;<IGNORE>
<U30D5> <kn-hu>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF8C> <kn-hu>;<KNKAT>;<KNNRH>;<IGNORE>
<U30D6> <kn-hu>;<KNKAT>;<KNVOX>;<IGNORE>
<U30D7> <kn-hu>;<KNKAT>;<KNSEM>;<IGNORE>
%
<U3078> <kn-he>;<KNHIR>;<KNNRM>;<IGNORE>
<U3079> <kn-he>;<KNHIR>;<KNVOX>;<IGNORE>
<U307A> <kn-he>;<KNHIR>;<KNSEM>;<IGNORE>
<U30D8> <kn-he>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF8D> <kn-he>;<KNKAT>;<KNNRH>;<IGNORE>
<U30D9> <kn-he>;<KNKAT>;<KNVOX>;<IGNORE>
<U30DA> <kn-he>;<KNKAT>;<KNSEM>;<IGNORE>
%
<U307B> <kn-ho>;<KNHIR>;<KNNRM>;<IGNORE>
<U307C> <kn-ho>;<KNHIR>;<KNVOX>;<IGNORE>
<U307D> <kn-ho>;<KNHIR>;<KNSEM>;<IGNORE>
<U30DB> <kn-ho>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF8E> <kn-ho>;<KNKAT>;<KNNRH>;<IGNORE>
<U30DC> <kn-ho>;<KNKAT>;<KNVOX>;<IGNORE>
<U30DD> <kn-ho>;<KNKAT>;<KNSEM>;<IGNORE>
%
<U307E> <kn-ma>;<KNHIR>;<KNNRM>;<IGNORE>
<U30DE> <kn-ma>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF8F> <kn-ma>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U307F> <kn-mi>;<KNHIR>;<KNNRM>;<IGNORE>
<U30DF> <kn-mi>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF90> <kn-mi>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U3080> <kn-mu>;<KNHIR>;<KNNRM>;<IGNORE>
<U30E0> <kn-mu>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF91> <kn-mu>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U3081> <kn-me>;<KNHIR>;<KNNRM>;<IGNORE>
<U30E1> <kn-me>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF92> <kn-me>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U3082> <kn-mo>;<KNHIR>;<KNNRM>;<IGNORE>
<U30E2> <kn-mo>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF93> <kn-mo>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U3083> <kn-ya>;<KNHIR>;<KNMIN>;<IGNORE>
<U3084> <kn-ya>;<KNHIR>;<KNNRM>;<IGNORE>
<UFF6C> <kn-ya>;<KNKAT>;<KNMNH>;<IGNORE>
<U30E3> <kn-ya>;<KNKAT>;<KNMIN>;<IGNORE>
<U30E4> <kn-ya>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF94> <kn-ya>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U3085> <kn-yu>;<KNHIR>;<KNMIN>;<IGNORE>
<U3086> <kn-yu>;<KNHIR>;<KNNRM>;<IGNORE>
<U30E5> <kn-yu>;<KNKAT>;<KNMIN>;<IGNORE>
<UFF6D> <kn-yu>;<KNKAT>;<KNMNH>;<IGNORE>
<U30E6> <kn-yu>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF95> <kn-yu>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U3087> <kn-yo>;<KNHIR>;<KNMIN>;<IGNORE>
<U3088> <kn-yo>;<KNHIR>;<KNNRM>;<IGNORE>
<U30E7> <kn-yo>;<KNKAT>;<KNMIN>;<IGNORE>
<UFF6E> <kn-yo>;<KNKAT>;<KNMNH>;<IGNORE>
<U30E8> <kn-yo>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF96> <kn-yo>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U3089> <kn-ra>;<KNHIR>;<KNNRM>;<IGNORE>
<U30E9> <kn-ra>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF97> <kn-ra>;<KNKAT>;<KNNRH>;<IGNORE>
%
```

```
<U308A> <kn-ri>;<KNHIR>;<KNNRM>;<IGNORE>
<U30EA> <kn-ri>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF98> <kn-ri>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U308B> <kn-ru>;<KNHIR>;<KNNRM>;<IGNORE>
<U30EB> <kn-ru>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF99> <kn-ru>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U308C> <kn-re>;<KNHIR>;<KNNRM>;<IGNORE>
<U30EC> <kn-re>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF9A> <kn-re>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U308D> <kn-ro>;<KNHIR>;<KNNRM>;<IGNORE>
<U30ED> <kn-ro>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF9B> <kn-ro>;<KNKAT>;<KNNRH>;<IGNORE>
%
<U308E> <kn-wa>;<KNHIR>;<KNMIN>;<IGNORE>
<U308F> <kn-wa>;<KNHIR>;<KNNRM>;<IGNORE>
<U30EE> <kn-wa>;<KNKAT>;<KNMIN>;<IGNORE>
<U30EF> <kn-wa>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF9C> <kn-wa>;<KNKAT>;<KNNRH>;<IGNORE>
<U30F7> <kn-wa>;<KNKAT>;<KNVOX>;<IGNORE>
%
<U3090> <kn-wi>;<KNHIR>;<KNNRM>;<IGNORE>
<U30F0> <kn-wi>;<KNKAT>;<KNNRM>;<IGNORE>
<U30F8> <kn-wi>;<KNKAT>;<KNVOX>;<IGNORE>
%
<U3091> <kn-we>;<KNHIR>;<KNNRM>;<IGNORE>
<U30F1> <kn-we>;<KNKAT>;<KNNRM>;<IGNORE>
<U30F9> <kn-we>;<KNKAT>;<KNVOX>;<IGNORE>
%
<U3092> <kn-wo>;<KNHIR>;<KNNRM>;<IGNORE>
<U30F2> <kn-wo>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF66> <kn-wo>;<KNKAT>;<KNNRH>;<IGNORE>
<U30FA> <kn-wo>;<KNKAT>;<KNVOX>;<IGNORE>
%
<U3093> <kn-n>;<KNHIR>;<KNNRM>;<IGNORE>
<U30F3> <kn-n>;<KNKAT>;<KNNRM>;<IGNORE>
<UFF9D> <kn-n>;<KNKAT>;<KNNRH>;<IGNORE>
        ---
<U3099> <kn-cmb-voice>;<KNHIR>;<KNNRM>;<IGNORE>
<U309A> <kn-cmb-semivoice>;<KNHIR>;<KNNRM>;<IGNORE>
<U309B> <kn-voice>;<KNHIR>;<KNNRM>;<IGNORE>
<UFF9E> <kn-voice>;<KNHIR>;<KNNRH>;<IGNORE>
<U309C> <kn-semivoice>;<KNHIR>;<KNNRM>;<IGNORE>
<UFF9F> <kn-semivoice>;<KNHIR>;<KNNRH>;<IGNORE>
<U309D> <kn-iter>;<KNHIR>;<KNNRM>;<IGNORE>
<U30FD> <kn-iter>;<KNHIR>;<KNVOX>;<IGNORE>
<U309E> <kn-iter>;<KNKAT>;<KNNRM>;<IGNORE>
<U30FE> <kn-iter>;<KNKAT>;<KNVOX>;<IGNORE>
%
<U30FB> <IGNORE>;<IGNORE>;<IGNORE>;<U30FB>
<UFF65> <IGNORE>;<IGNORE>;<IGNORE>;<UFF65>
<U30FC> <IGNORE>;<IGNORE>;<IGNORE>;<U30FC>
<UFF70> <IGNORE>;<IGNORE>;<IGNORE>;<UFF70>

% The following 4 characters are processed like special characters at level 4.
% Les 4 caractères suivants sont traités au niveau 4 comme caractères spéciaux.
%<UFF61> % hfwd HALFWIDTH IDEOGRAPHIC FULL STOP -- to be handled with <U3002>
%<UFF62> % hfwd HALFWIDTH LEFT CORNER BRACKET -- to be handled with <U300C>
%<UFF63> % hfwd RIGHT CORNER BRACKET -- to be handled with <U300D>
%<UFF64> % HALFWIDTH IDEOGRAPHIC COMMA -- to be handlfed with <U3001>


%
order_start <Hn>;forward;forward;forward;forward,position
%
%Tous les caractères han de l'édition de 1993 de l'ISO/CEI 10646 sont déjà ordonnés;
%All characters of the 1993 edition of ISO/IEC 10646 are already ordered
<U4E00>..<U9FA5>  <U4E00>..<U9FA5>;IGNORE;IGNORE;IGNORE
```

Annex 2 (normative) Benchmark

The benchmark shall be tested in using the default table of annex 1, adapted in defining the following toggles: PRIMNBSP, ACCENTSONLATIN, PRIMIN. According to the specifications in ISO/IEC 14652, the following definition statements accomplish this function:

define PRIMNBSP
define ACCENTSONLATIN
define PRIMIN

 Any other adaptation of the table requires that the user should carefully readapt this benchmark.

1   Unordered list

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

2   List with required results when the Common Template table is used

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

Informative annexes

Note: In this draft, annexes identified with a digit are intended to be normative. Annexes identified with a letter are intended to be informative.

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

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 646 coding, does not follow traditional dictionary sequence, which is the minimum the average user needs.

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

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

which is obviously wrong.

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

Ex.: 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", "August", "co-op", "coop" gives a different order with this method:

august
August
co-op
coop

iii.   If accented characters are introduced using for example ISO 8859-1 code, the problems encountered in steps 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 it would permit a simplified single-character sort, but this does not work either. Take upper and lower case unaccented letters as an example. If code point 01 is assigned to "a", code point 02 assigned to "A", code point 03 to "b"", code point 04 to "B" and so on, let's see what happens in a list sorted directly by these rearranged values:

        Sorted Internal
        List   Values

        aaaa   01010101
        abbb   01030303
        Aaaa   02010101
        Abbb   02030303

    This is predictable also, but obviously wrong in any country from a cultural point of view.

v.   The only path of solution is to decompose the initial data in a way that 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 diacritical mark insensitive, and removes all special characters which have no pre-established order in any human culture:

    An example using English:

        "résumé" (an English word derived from French but with a very different meaning in French) becomes "resume", without any accent.

    An example using French:

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

    An example using German:

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

    In Spanish or Scandinavian languages, some extra letters are added to the 26 fixed letters of the English, French and German alphabet, which are not ordered according to the expectations of this group of languages. This calls for adaptability.

    2. The second decomposition breaks ties on quasi-homographs, strings that differ only because they have different diacritical marks. In the English example above, "resumé" and "résumé" are quasi-homographs. Traditional lexical order requires that "resume" always come before "résumé" (which sorting using only the first level would not guarantee). In   this case, tradition does not

say if "resumé" (another spelling) should come before "résumé", which would seem logical: English and German dictionaries only state that unaccented words precede the accented words.

Here another characteristic is introduced. In French, because of the large number of multiple quasi-homograph groups formed of more than 2 instances, main dictionaries follow a rule that is the following: 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. For example, "coté" should be sorted after "côte" but before "côté". This is easy to implement: a number is assigned to each character of original data to be sorted, representing either an accent or 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 backward.

Example: to obtain the following 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 different only because upper-case and lower-case characters are used. This time, the tradition is well established in English and 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, but this is not an established and stated rule, because there are numerous exceptions. So for a Common Template it is advisable to use English and German traditions, if one wants to group the largest possible number of languages together. Let's note here by the way that in Denmark, upper case comes before lower case, a different but well established rule. This is a second fact calling for adaptability in the model used in this standard.

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

4. The fourth decomposition breaks the final tie that does not correspond to any tradition, the tie due to quasi-homographs that differ only because they contain special characters. Breaking this tie is essential to ensure the absolute predictability of sorts and also to be able to sort 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 in row 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 we must retain here the original positions of these special characters: two quasi-homographs could each contain a common special character in different positions and thus be strictly different (ex.:"ab*cd" is still different from "a*bcd" despite they share one and only one common special character).

Example: to have 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 always-present delimiter that separates 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 dash in position 3 of the original string. "5-" means a dash 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 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 sort program sorting in numeric order. To attain this result, it is sufficient that 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 (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 has been fully described with tables for the first time in Règles du classement alphabétique en langue française et procédure informatisée pour le tri, Alain LaBonté, Ministère des Communications du Québec, 19 août 1988, 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 does not require reduction nor compression, this issue is outside the scope of this standard but it is interesting to note that implementation can be optimized. This has been improved over time and is highly feasible.

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

vi.   For a certain 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 (note "ch" greater than "cu" and "ña" greater than "no"):
          cuneo<cúneo<chapeo<nodo<ñaco

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

Danish (note "a" less than "c", "cz" less than "cæ" and "cø", and "aa" equivalent to "å" 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)

vii.   It is important that in all coding environments, and in all programming environments, the order be consistent so that sort programs can give reliable results re-useable in programs; conversely, comparisons of two character strings where an order is expected should be in line with results given by sort programs. Hence it is advisable that all processes which expect a given order all use the same comparison API. This standard has built on this requirement that was not respected before.

Furthermore it should be possible to have access, externally, to the ultimate binary strings on which real comparison is made. This will allow old processes which can not be changed easily but which are able to sort raw binary data, to sort in a consistent way with new processes. This standard allows this, while it also provides a way to completely avoid the use of such binary strings.

Annex B (informative) Prehandling and Posthandling

Description of the prehandling phase

Prehandling is essentially for modification and/or duplication of original records to render their fields context-independent prior to the comparison phase. Examples are:

- duplicating a string such as "41" for phonetic ordering into 3 strings for trilingual phonetic ordering usage (French, English and German"):

  QUARANTE-ET-UN
  FORTY-ONE
  EINUNDVIERZIG

- removing or rotating characters that are a nuisance for special requirements of ordering; for example, in France, removing "de" in "de Gaulle" and not removing "De" in "De Gaulle" according to nobiliar origin or not, to give:

  Gaulle (de)
  De Gaulle

- transform incomplete data into full form; for example, transform "Mc Arthur" to give "Mac Arthur"

- transform numbers so that the result will be ordered in numerical order and not positionally or according to phonetics, for example:

  Given the strings "100" and "15",

- either separate each of these numbers in different fields from the rest of text and convert them entirely in standard numeric (binary) data to be ordered numerically and not textually, or

- pad/align numbers to make sure the one-phase Common Template ordering mechanism will process them correctly:

  "015"
  "100"

- transform Roman numerals into Arabic numbers after having determined the context (perhaps with the help of human interactive intervention or an expert system), as in the following French example:

  CHAPITRE DIX might mean CHAPTER 010 or CHAPTER 509 ("dix" is the French word for 10, it is also the Roman numeral for 509). This generally requires context to be solved with total certainty.

Description of the Posthandling Phase

Post-processing is essentially for modifying resulting keys, or appending the original string to keys so that the results of comparisons can determine differences in the case of homography when the prehandling phase, particularly, has been done. For example, there could be equivalencies if numerical values (for example, "010" and "10") have been standardized in the prehandling phase. The Common Template ordering mechanism has no knowledge that the original strings are different in such cases, but the predictability requirement still exists.

In particular, where different coding methods have been used in the original strings to be ordered in the same process, the posthandling phase can determine internal differences which would appear exactly the same on paper for end-users (for example, an ISO 2022 input stream intermixing ISO/IEC 6937 and ISO/IEC 8859).

The Common Template-Tailorable Ordering Mechanism does not cover the prehandling and posthandling phases. However, the mechanism does describe these phases. The presence of the phases is mandatory even if empty processes must be defined. These empty processes can be replaced if the need occurs.

Annex C (informative) Multilevel key building

Preliminary considerations

Assumptions

The Common Template table or tailored tables are used.

The user is responsible for tailoring the ordering table to the application's requirements. If there is no tailoring done, then the Common Template table shall be used. The Common Template table is acceptable for one or more natural languages of each of the writing systems explicitly described. Adaptations may be necessary for specific languages using one or many of these scripts.

See ISO/IEC 14652 for the tailoring mechanism whose results are used by the comparison operation API.

The character transformation table can be considered as a matrix of n lines. N is the number of characters in the repertoire. In each line 4 levels are described by default. This default can be extended in the tailoring phase by the end-user. Any conforming implementation shall have provisions for handling a depth level of at least 7 levels. The user shall take care that in case of tailoring, levels be adjusted so that script <SPECIAL>, whose ordering is done at the last level in the Common Template, be normally processed separately and at the last level, even if the maximum number of levels specified after tailoring is not equal to 4. This will avoid collisions with eventual extra levels added by tailoring. It is highly recommended that only four levels be used in tailoring, the fourth one being the level reserved to special characters. This is the only way this standard can guarantee that nothing will be broken; otherwise thorough and skillful thinking by the implementer will be required, the minimum being that special characters have to be processed at the last level.

Table sections and processing properties

The table is separated into sections, one section for each script. Each section is assigned a sequential number corresponding to its order of apparition. The header of each section is named for clarity. The header describes transformation properties for each level of the script. These properties are tailored for the peculiarities of the script relative to the ordering process.

One of the tailoring possibilities is to change the relative order of a whole script relative to other scripts. Separation of the table into named sections will simplify that requirement, as well as serving to describe script properties.

The scanning direction (forward or backward) used to process the string at each level is a property of each script. These properties can be changed according to the language. Clause 5.5 describes tailoring.

One of the properties is also the possibility to assign a comparison on the numerical value representing the position of each character of two strings, before comparing weights assigned to the characters.

Note: The scanning direction (forward or backward) is not normally related to the natural writing direction of a script. The scanning direction applies only to the order processing in relation with the logical sequence of the coded character string.

ISO/IEC CD 14651

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 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).

Therefore, scanning forward starts with the lowest positions in the logical sequence, while scanning backward starts from the highest positions.

Now, in order to precise what was just said, in ISO/IEC 10646, Arabic is artificially separated in two scripts: the logical, intrinsic Arabic, coded independently of shapes, and the presentation forms. Both allow to code Arabic completely, but intrinsic Arabic is normally preferred for better processing, while the second is preferred by some presentation-oriented applications.

Intrinsic Arabic is coded in the logical order, while presentation forms are coded in presentation order. The first of these two scripts is described in the Common Template under the header <ARABINT>, standing for the normal coding, called intrinsic Arabic. The second one is described under the header <ARABFOR>, standing for Arabic forms. Scanning properties of these two artificial sections differ, the first one being scanned forward, the second one being scanned backward, for the first three Common Template levels.

Key composition

A series of **m** subkeys is formed out of a character string composing a comparison field ; **m** is the maximum number of levels described in either the Common Template ordering table or the tailored ordering table. The following paragraphs describe these formations. In the Common Template table, **m** is equal to 4.

Formation of subkey level 1 through m minus 1 (level i; m=4 in the Common Template)

For **i** varying from 1 to m minus 1 (from 1 to 3 if the Common Template is used), form subkey level **i** in the following way:

During forward scanning of each character of the input character string, one or more tokens are obtained. These tokens correspond to the transformation value of that character at level i.

Note: *In the Common Template definition, characters of script <SPECIAL> are ignored from level 1 through 3. The definition of these characters can be been tailored to make any of these characters a part of another script. The script <SPECIAL> is the first script to be defined in the Common Template table. It contains special characters that are not, stricto sensu, a specific part of any natural language script - for example, "dingbats" of ISO/IEC 10646, or punctuation for most scripts.*

The scanning properties for the level **i** being processed requires to be carefully monitored. When there is a change in scanning direction at level **i** *and* the new direction is backward, stacking of the token will be done at the position where the change of direction has occurred. Therefore when such a condition occurs, the application shall retain the current position in the output subkey **i** as **position p** (*push position*).

According to scanning direction assigned to the level **i** of the script whose identification corresponds to the character being processed, the obtained token is either added (concatenated) at the end of subkey **i** (which behaves like a list), or pushed at **position p** of subkey **i** (which then behaves like a stack). Subkey **i** is initially empty.

This is the equivalent of backward or forward scanning of the input string for that level. This property of scanning direction is given for each level of each script and is a script property. Each script header gives, for each level, the scanning direction property of the script.

Generally, in alphabetic scripts (and in the Common Template), levels represent the following decomposition for basic characters:

level 1: base level of each script. This level corresponds to the basic letters of the alphabet for that script, if the script is alphabetic, and to each character of the script if the script is ideographic or syllabic;

level 2: the level corresponding to diacritical marks affecting each basic character of the script. For some scripts, 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, N TILDE in Spanish 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 a tilde weight 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 extra diacritics in the second level"

level 3: the level corresponding to case or to variant character shape that affects each basic character of the script

Note: whatever the number of levels, except for level m, tailorable tables should not assign values for a given character to any level greater than 1 if no value is assigned to level 1. Otherwise full predictability of the results would not be guaranteed by this International Standard.

Formation of subkey level m (m=4 in the Common Template table)

During forward scanning of each character of the input character string, a pair of tokens is concatenated to subkey level **m**. The first token of the pair corresponds to the logical position in the original character string of the character being processed. The second token in the pair corresponds to the value assigned that character at level **m** of the table. When the character is not assigned at level m in the table, it is ignored for the formation of subkey level m and no pair is concatenated. The pair of tokens is concatenated immediately after subkey level **m**. Subkey level **m** is initially empty.

This level represents the level common to all scripts. In this standard, this level is considered as the first script (under the header <SPECIAL>). The property of this level is positional in an absolute way. This means that the numerical value of the position in the original string has precedence over the weight assigned to the special character which occupies this position. This means that subkey level **m** is composed of a pair of values for each such character (the character string being **always** scanned forward in the logical string sequence). The first value of the pair corresponds to the sequential position of the character in the input string. The second value of the pair corresponds to the weight assigned to the character according to level **m** in script <SPECIAL>.

In the table, this behavior is described using the parameter couple "forward, position". To be conformant to this international standard, the parameter couple "backward, position" shall never be specified for level **m** (see 5.4) . These two parameters shall be considered mutually exclusive.

In the Common Template table, the first script (whose header is named <SPECIAL>) exclusively includes characters that are not considered part of the set of basic characters of any script - for example, special characters such as SPACE, HYPHEN, and "dingbats" of ISO/IEC 10646.

In the Common Template table, definitions of these characters for levels 1 to 3 are such that they are ignored at these levels and values are exclusively assigned to level **m** (m being equal to 4 in the Common Template).

Formation of subkey level 5

This extra clause has been removed from previous drafts. It was intended for processing combining characters dynamically. There are more static solutions possible which will require tailoring if combining sequences are to be processed as single collating elements.

Posthandling

This requirement shall be met for conformance levels greater than 2.

The posthanding phase is part of the formation of a binary comparison key. Once the binary key has been formed out of the data specified in the table, the posthandling phase shall be invoked (see discussion about the potential purposes of such a phase in annex B). The result of the posthandling phase shall be returned as subkey level m+1 (m=5 in the Common Template table).

Annex D (informative) - Principles of the comparison API

The basic philosophy behind the culturally-correct character string comparison API had ideally been the following (although some compromises have occurred to allow producing this International standard) :

1.   No comparison mechanism is culturally correct when it assumes that the order is based on numerical internal values of raw character strings, and with any standard character set coding scheme.

2.   If two strings are different, there must be a fully predictable order assigned to each one relative to each other one.

3.   Ordering rules are language-related in a given script.

4.   Whatever the language, the ordering rules are based on lexical order at the lowest level. Higher level transformation (done in a prehandling phase) produces character strings whose ordering is to be made as for any other lexical entry.

5.   Each rule tentatively determines an order between two different character strings by operating a single binary comparison on binary strings that represent the result of a straightforward and context-independent transformation of the characters of each string. (Transformations typically involve ignoring, or giving a specific or generic weight to each character, or retaining the position of a character as a weight while assigning it a second weight depending on the character itself. Such transformations may be done by scanning the string forward or backward in the logical string sequence, except for the positional case which only implies the logical positions of a string).

6.   Transformations can typically produce equivalencies for two different character strings transformed into two identical binary strings. Thus, when such cases are encountered, other sequential series of transformation are necessary until, at a final level, all ties are solved (at the last level, binary strings are necessarily different if two original character strings to be compared are different). If the only goal of a comparison is to determine equivalence up to a certain level of precision, then character transformation is required up to a certain level only.

7.   The Common Template table will define as many levels as necessary to produce a fully predictable order for two different character strings. This involves up to four comparison levels if characters of ISO/IEC 10646 conformance level 1 are used, and up to six comparison levels if characters of ISO/IEC 10646 conformance level 3 are used.

8.   A whole character string is transformed as many times as necessary into up to a certain number of different levels. Thus, it must be possible to deduce the original character string from all the different binary transformations concatenated into one binary string (reversibility property of the transformation process).

Annex E (informative)   User needs calling for this standard

A Common Template international ordering mechanism does not provide a universal solution for all situations. The purpose of such a mechanism is to correct errors of the past regarding only collation on binary coded character values. Past approaches have often not respected cultural preferences for collation. English is one exception, although a poor one, when only upper case alphabetic data was used instead of other characters including punctuation and spacing.

This is one of the major flaws that affect portability between countries and between applications. (Traditionally, different programs make different ordering corrections.) Therefore, it has been considered feasible to design a Common Template Tailorable Ordering Mechanism (a method and a unique table). This mechanism will constitute an acceptable tool that will make sense for most users of different scripts. Also, most simple applications will be able to use the mechanism without modification. These applications use ordering dependencies that are not dependent on any context.

Naturally, a modification mechanism is embedded in the model. The mechanism will accommodate particular languages with a minimum of changes. Let us look at Latin Script as an example. Spanish, Scandinavian and several other languages (*like Polish, Finnish, Hungarian, Turkish)* will have the order of a few letters changed compared to the order acceptable in a majority of other European languages that use the Latin script. Also, a whole script order change could be desired relative to another one -for example, Thai before Latin, and so on.

Furthermore, there might be specific linguistic requirements that cannot be fulfilled without knowing the context. For example, Japanese names expressed in Kanji cannot be deduced solely in phonetic ordering. Instead, Japanese names need hidden multiple fields. Generally, in Japanese databases, a given Kanji proper name is associated with a hidden phonetic representation in a different field. This association allows correct ordering, otherwise a replication of items might be necessary for human searching of Kanji proper names in a list in the absence of other fields.

More generally, specific requirements exist for complex telephone-book type transformation or for phonetic transformation. This is particularly true in multi-lingual countries or organizations. As an example, the item "4" could sometimes be phonetically classified (transformed) in such lists to accomplish ordering. This transformation may require that the item be reproduced several times. Each replicated item may thus be transformed for phonetic ordering (for example, as "QUATRE", "FOUR" and "VIER" in French, English, and German respectively). In this way, a user can immediately retrieve the item "4" in a list under "Q", "F" and "V" depending on the individual user requirements.

To achieve these requirements, the comparison and ordering mechanism on which focus is directed here is included in a more general model. The general model is also described in this international standard. The general model allows multiple-field ordering and prehandling and posthandling transformation phases. The ordering mechanism assumes this higher-level scheme.

Specifically, the prehandling and posthandling phases could be null processes. Also in the simplest applications, only one field will typically be ordered. In such cases, a straightforward order could be achieved and would be reasonably valid for the majority of users who do not require further specialized transformation. The typical lexical dictionary order in a given natural language is an example of this type. It is assumed that lexical order is the minimal culturally acceptable order for a list so that the general public, and even specialists, can use it without error.

To simplify matters, the Common Template Tailorable Ordering Mechanism will describe a method to order text data independently of context. The method will be culturally acceptable to a majority of world-wide environments (with provisions to accommodate more local contexts).

It is obvious that ordering is not limited to a sorting program. Ordering requires that string comparison be consistently redefined with a new comparison API. This API will be used by processes which compare, sort, search, mix, and merge graphic character data. This API will be described in this international standard.

The design of this international standard keeps in mind that old systems could also integrate culturally valid ordering with minimal changes. Therefore, the basic API will allow not to work directly on a text string of graphic characters. In this optional case, the first phase of the process reduces the text string to a single bit string that is suitable for direct and mechanical numeric comparisons. It is also possible to work without using such binary strings.

Numeric data has two general kinds of representation. One type of representation is external and uses human readable graphic characters. The other type of representation is internal and is directly suitable for high-speed processing. For this reason, programming languages define data types for suitable processing of numbers (in general more than one type). In this way, programmers do not need to parse graphic characters before performing numeric processing. This parsing would be very prone to errors, add to programming complexity, and would not achieve general consistency among different applications.

Character comparisons are of a more complex nature. Therefore, having the programmers involved in parsing is not more desirable. Nevertheless, this was the prevailing situation before the present international standard was designed.

The consistent text data comparison API described in this international standard works on an internal structure that is the result of parsing an original string for comparison. Parsing is done according to a formal description of cultural ordering conventions. The definition of such an API makes it highly desirable that future versions of programming language standards define new data types. In each language, it is desirable that at least one data type manage graphic character string comparisons that are not limited to absolute equality. The programming language can define these data types as formal containers. These containers represent strings of text that can be processed internally, in a way that is very straightforward and independent of coded graphic characters.

A program may work on a character string whose values are dependent of the character set used locally. However to the difference of a character string whose interpretation can not be environment-independent, once this string has been processed through a locale, the result uses another data type whose values are locale-dependent but which may be used for comparisons in a way that is totally independent of any character set or of any locale dependency from the programming point of view. It is the locale which determines the results. It is important to underline, though, that such data are not transportable from a cultural environment to another one, even though the program may be.

In this way, the programmer is freed from parsing processes. Also, the probability of achieving application portability between different countries using different cultures would be increased because applications can be designed in a generic way.

Furthermore, the prefabricated structure materializing such a data type can be stored and reused in a given cultural environment for increasing performance and allow preserving past applications with minimal changes. Reusing the structure would require no further parsing by external, even ancient, hard-wired engines that have the capability to do straightforward binary comparisons (such as a hardware disk

search engine, or an access method designed decades ago that developers do not want to redesign because of its high efficiency).

This feature is a non-negligible economic by-product of this international standard: once a string has been parsed for an environment, its processing does not require re-parsing. In fact, as for numbers, the standard graphic character representation need not be used until data is presented again to the user. This calls for reversibility of the process. The present standard makes that reversibility a possibility (although not a requirement), in addition to guaranteeing the full predictability of the comparison operation. If two equivalent strings are not absolutely identical, then the tie must be broken. Consequently, a sort program, the simplest application, can always sort data in the same way.