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Annex F
(informative)

Sample National Profile

Editor's Note: All uses of the term ''character set'' this annex have been changed to ''coded character set'' without further diff marks.

This annex is an example of a country's needs with respect to this standard and how those needs relate to other international standards as well as national standards. The example provided is included here for informative purposes and is not a formal standard in the country in question. It is provided by the Danish Standards Association [1)] and is as accurate as possible with regards to Danish needs.

F.1 (Example) Danish National Profile

This is the definition of the Danish Standards Association POSIX.2 profile. The subset of conforming implementations that provide the required characteristics below is referred to as conforming to the ''Danish Standards Association (DS) Environment Profile'' for this standard.

This profile specifies the following requirements on implementations:

(1) In POSIX.2 section 2.13.1, the limit {COLL_WEIGHTS_MAX} shall be provided with a value of 4. All other limits shall conform to at least the minimum values shown in Table 2-16.

(2) The following options shall be supported according to POSIX.2 section 2.13.2:

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1) Further information may be obtained from the Danish Standards Association, Attn: S142u22A8 Baunegaardsvej 73, DK-2900 Hellerup, Denmark; FAX: +45 39 77 02 02; Email: `u22a8@dkuug.dk`

The data is also available electronically by anonymous FTP or FTAM at the site `dkuug.dk` in the directory `i18n`, where some other example national profiles, locales, and *charmaps* may also be found. They are also available by an archive server reached at `archive@dkuug.dk`; use '`Subject: help`' for further information.

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`POSIX2_C_BIND`	Optional.	2
`POSIX2_C_DEV`	Optional.	2
`POSIX2_FORT_DEV`	Optional.	2
`POSIX2_FORT_RUN`	Optional.	2
`POSIX2_LOCALEDEF`	Required; the system shall support the creation of locales as described in 4.35.	2
`POSIX2_SW_DEV`	Optional.	2

F.1.1 Danish Locale Model

Editor's Note: This subclause is offered as rationale for the current state of this example annex. It will not necessarily appear in this form in any final version of the annex.

Creating a national locale for Denmark has been a quite elaborate effort. Time and again, we thought we had reached an agreement on the locale, but then some aspect disrupted the entire work, and we more or less had to start all over.

We think we have identified the cause of these problems to a general uncertainty regarding the exact purpose of a ‘‘national’’ locale. If we look at the Danish situation (which we know pretty well by now), we have identified several levels of locales, depending on the ‘‘complexity’’ of the collating sequence (or more generally sorting different kinds of text):

(1) *Byte/machine level.* Here everything is sorted according to the character's byte value.

(2) *Character/utility level.* Here we want to work almost on the same level as (1), i.e., character by character, but obeying a (simple) collating sequence that ensures that, for example, upper- and lowercase letters are equivalent, or that national characters are sorted correctly. The characters still do not have any ‘‘implicit’’ meaning, and the comparison of two strings is still deterministic; i.e., strings that are different at level 1 are still different at level 2.

(3) *Text/application level.* Here we want to be able to search in text looking for specific words or items. The comparison is still performed on a character-by-character basis, but possibly ignoring some characters that are not important, and determinism is not important either.

(4) *Semantic/dictionary/library/phone-book level.* Entire words like ‘‘the’’ are omitted from comparisons; maybe soundex is required. This probably requires specially developed software.

Our problem has been the conflicting requirements from each of these levels, which we optimistically have tried to combine into a single national locale (ignoring level 4, however). The POSIX Locale is aimed at level 2; i.e., at a rather low level. Many of our attempts to write a national Danish locale have failed because we have actually tried to write a level 3 locale, and finding that it did not work as

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an alternative to the default POSIX locale at level 2.

The locale we now provide is the final compromise between level 2 and level 3, by taking our latest attempt aimed at level 3, and make the comparison completely deterministic, and thus bring it down to level 2.

We also have found that we may need to include some more information in the identification of a specific locale than just the country code, the language code, and the coded character set, since what we have had most problems with was the purpose or scope of a specific locale; i.e., is it just a nationalized version of the POSIX Locale (e.g., extended with `<ae>`, `<o/>`, and `<aa>` at the proper positions), is it aimed at text search (ignoring certain characters), or is it on an even higher level? Many such alternative locales would certainly be useful for various classes of problems or applications, so our model for the locale name identification string includes a *<version>* parameter.

We hope by providing these comments to have clarified our intention with the locale definitions to save other countries from doing our mistakes all over.

F.2 Locale String Definition Guideline

The following guideline is used for specifying the locale identification string: [2]

> `"%2.2s_%2.2s.%s,%s"`, *<language>*, *<territory>* , *<coded-character-set>*, *<version>*

where *<language>* shall be taken from ISO 639 {B1} and *<territory>* shall be the two-letter country code of ISO 3166 {B4}, if possible. The *<language>* shall be specified with lowercase letters only, and the *<territory>* shall be specified in uppercase letters only. An optional *<coded-character-set>* specification may follow after a `<period>` for the name of the coded character set; if just a numeric specification is present, this shall represent the number of the international standard describing the coded character set. If the *<coded-character-set>* specification is not present, the encoded character-set-specific locale shall be determined by the **CHARSET** environment variable, and if this is unset or null, the encoding of ISO 8859-1 {5} shall be assumed. A parameter specifying a *<version>* of the locale may be placed after the optional *<coded-character-set>* specification, delimited by `<comma>`. This may be used to discriminate between different cultural needs; for instance, dictionary order versus a more systems-oriented collating order.

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2) The guideline was inspired by the *X/Open Portability Guide* {B31}.

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F.3 Scope of Danish National Locale

This national locale covers the Danish language in Denmark. In addition, Faroese and Greenlandic `LC_TIME` and `LC_MESSAGES` specifications have been defined; the rest of the Danish national locale shall be used for these locales as well.

This locale is designed to be coded character-set independent. It completely specifies the behavior of systems based on ISO/IEC 10646 {B11} (with ISO 6429 {B5} control character encoding) together with many 7-bit and 8-bit encoded character sets, including ISO 8859 character sets and major vendor-specific 8-bit character sets (with ISO 6429 {B5} or ISO/IEC 646 {1} control character encoding when applicable).

This locale is portable as long as the character naming in the charmap description file `ISO_10646` for ISO/IEC 10646 {B11} is followed. Examples of such charmap files for ISO/IEC 10646 {B11} and ISO 8859-1 {5} are shown in F.5.1 and F.5.2.

The collating sequence is completely deterministic and is aimed for usage in system tools. Other Danish collation sequences with nondeterministic properties, which may be needed for some application programs, are not covered by this locale.

The `LC_TYPE` category of the locale is quite general and may be useful for other locales; also the `LC_COLLATE` category, though specifically Danish, may be a good template from which to generate other locales.

Following the preceding guidelines for locale names, the national Danish locale string shall be:

```
da_DK
```

F.3.1 da_DK — (Example) Danish National Locale

```
escape_char     /
comment_char    %                                                  1
% Danish example national locale for the language Danish           1
% Source: Danish Standards Association                             1
% Revision 1.7 1991-05-07                                          1

LC_CTYPE                                                           1

digit   <0>;<1>;<2>;<3>;<4>;<5>;<6>;<7>;<8>;<9>                    1

xdigit  <0>;<1>;<2>;<3>;<4>;<5>;<6>;<7>;<8>;<9>;/                  1
        <A>;<B>;<C>;<D>;<E>;<F>;<a>;<b>;<c>;<d>;<e>;<f>            1

blank   <SP>;<HT>;<NS>                                             1

space   <SP>;<LF>;<VT>;<FF>;<CR>;<HT>;<NS>                         1

upper   <A>;<B>;<C>;<D>;<E>;<F>;<G>;<H>;<I>;<J>;/                  1
        <K>;<L>;<M>;<N>;<O>;<P>;<Q>;<R>;<S>;<T>;/                  1
        <U>;<V>;<W>;<X>;<Y>;<Z>;<A!>;<A'>;<A/>>;<A?>;/             1
```

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```
         <A:>;<AA>;<AE>;<C,>;<E!>;<E'>;<E/>>;<E:>;<I!>;<I'>;/          1
         <I/>>;<I:>;<D->;<N?>;<O!>;<O'>;<O/>>;<O?>;<O:>;<O//>;/        1
         <U!>;<U'>;<U/>>;<U:>;<Y'>;<TH>;<A->;<C/>>;<C.>;<E->;/         1
         <E.>;<G/>>;<G(>;<G.>;<G,>;<H/>>;<I?>;<I->;<I.>;<I;>;/         1
         <J/>>;<K,>;<H//>;<IJ>;<L.>;<L,>;<N,>;<OE>;<O->;<T//>;/        1
         <NG>;<A;>;<L//>;<L<>;<S'>;<S/>>;<S<>;<S,>;<T<>;<Z'>;/         1
         <Z<>;<Z.>;<R'>;<R,>;<A(>;<L'>;<C'>;<C<>;<E;>;<E<>;/           1
         <D<>;<D//>;<N'>;<N<>;<U?>;<O">;<U->;<U(>;<R<>;<U0>;/          1
         <U;>;<U">;<W/>>;<Y/>>;<T,>;<Y:>;<A<>;<A_>;<'A>;<A1>;/
         <A2>;<A3>;<B.>;<B_>;<D_>;<D.>;<D;>;<E(>;<E_>;<E?>;/
         <F.>;<G<>;<G->;<G//>;<H:>;<H.>;<H,>;<H;>;<I<>;<I(>;/
         <J(>;<K'>;<K<>;<K_>;<K.>;<K;>;<L_>;<M'>;<M.>;<N.>;/
         <N_>;<O<>;<O(>;<O_>;<O;>;<O1>;<P'>;<R.>;<R_>;<S.>;/
         <S;>;<T_>;<T.>;<U<>;<V?>;<W'>;<W.>;<W:>;<X.>;<X:>;/
         <Y!>;<Y.>;<Z/>>;<Z(>;<Z_>;<Z//>;<EZ>;<G'>;<'B>;<'D>;/
         <'G>;<'J>;<'Y>;<ED>;<IO>;<D%>;<G%>;<IE>;<DS>;<II>;/
         <YI>;<J%>;<LJ>;<NJ>;<Ts>;<KJ>;<V%>;<DZ>;<A=>;<B=>;/
         <V=>;<G=>;<D=>;<E=>;<Z%>;<Z=>;<I=>;<J=>;<K=>;<L=>;/
         <M=>;<N=>;<O=>;<P=>;<R=>;<S=>;<T=>;<U=>;<F=>;<H=>;/
         <C=>;<C%>;<S%>;<Sc>;<=">;<Y=>;<%">;<JE>;<JU>;<JA>;/
         <I3>;<A%>;<E%>;<Y%>;<I%>;<O%>;<U%>;<W%>;<A*>;<B*>;/
         <G*>;<D*>;<E*>;<Z*>;<Y*>;<H*>;<I*>;<K*>;<L*>;<M*>;/
         <N*>;<C*>;<O*>;<P*>;<R*>;<S*>;<T*>;<U*>;<F*>;<X*>;/
         <Q*>;<W*>;<J*>;<V*>

lower    <a>;<b>;<c>;<d>;<e>;<f>;<g>;<h>;<i>;<j>;/
         <k>;<l>;<m>;<n>;<o>;<p>;<q>;<r>;<s>;<t>;/
         <u>;<v>;<w>;<x>;<y>;<z>;<ss>;<a!>;<a'>;<a/>>;/
         <a?>;<a:>;<aa>;<ae>;<c,>;<e!>;<e'>;<e/>>;<e:>;<i!>;/
         <i'>;<i/>>;<i:>;<d->;<n?>;<o!>;<o'>;<o/>>;<o?>;<o:>;/
         <o//>;<u!>;<u'>;<u/>>;<u:>;<y'>;<th>;<y:>;<a->;<c/>>;/
         <c.>;<e->;<e.>;<g/>>;<g(>;<g.>;<g,>;<h/>>;<i?>;<i->;/
         <'n>;<kk>;<i;>;<j/>>;<k,>;<h//>;<i.>;<ij>;<l.>;<l,>;/
         <n,>;<oe>;<o->;<t//>;<ng>;<a;>;<l//>;<l<>;<s'>;<s/>>;/
         <s<>;<s,>;<t<>;<z'>;<z<>;<z.>;<r'>;<r,>;<a(>;<l'>;/
         <c'>;<c<>;<e;>;<e<>;<d<>;<d//>;<n'>;<n<>;<u?>;<o">;/
         <u->;<u(>;<r<>;<u0>;<u;>;<u">;<w/>>;<y/>>;<t,>;<a<>;/         1
         <a_>;<'a>;<a1>;<a2>;<a3>;<b.>;<b_>;<d_>;<d.>;<d;>;/
         <e(>;<e_>;<e?>;<f.>;<g<>;<g->;<g//>;<h:>;<h.>;<h,>;/
         <h;>;<i<>;<i(>;<j(>;<k'>;<k<>;<k_>;<k.>;<k;>;<l_>;/
         <m'>;<m.>;<n.>;<n_>;<o<>;<o(>;<o_>;<o;>;<o1>;<p'>;/
         <r.>;<r_>;<s.>;<s;>;<t_>;<t.>;<u<>;<v?>;<w'>;<w.>;/
         <w:>;<x.>;<x:>;<y!>;<y.>;<z/>>;<z(>;<z_>;<z//>;<ez>;/
         <g'>;<'b>;<'d>;<'g>;<'j>;<'y>;<ed>;<nS>;<sB>;<a=>;/
         <b=>;<v=>;<g=>;<d=>;<e=>;<z%>;<z=>;<i=>;<j=>;<k=>;/
         <l=>;<m=>;<n=>;<o=>;<p=>;<r=>;<s=>;<t=>;<u=>;<f=>;/
         <h=>;<c=>;<c%>;<s%>;<sc>;<='>;<y=>;<%'>;<je>;<ju>;/
         <ja>;<io>;<d%>;<g%>;<ie>;<ds>;<ii>;<yi>;<j%>;<lj>;/
         <nj>;<ts>;<kj>;<v%>;<dz>;<a%>;<e%>;<y%>;<i%>;<a*>;/
         <b*>;<g*>;<d*>;<e*>;<z*>;<y*>;<h*>;<i*>;<k*>;<l*>;/
         <m*>;<n*>;<c*>;<o*>;<p*>;<r*>;<*s>;<s*>;<t*>;<u*>;/
         <f*>;<x*>;<q*>;<w*>;<j*>;<v*>;<o%>;<u%>;<w%>;<A5>;/
         <I5>;<U5>;<E5>;<O5>;<tU>;<yA>;<yU>;<yO>;<wA>;<a6>;/
         <i6>;<u6>;<e6>;<o6>;<TU>;<YA>;<YU>;<YO>;<WA>;<KA>;/
         <KE>;<ff>;<fi>;<fl>;<ft>;<st>

alpha    <A>;<B>;<C>;<D>;<E>;<F>;<G>;<H>;<I>;<J>;/
```

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```
        <K>;<L>;<M>;<N>;<O>;<P>;<Q>;<R>;<S>;<T>;/
        <U>;<V>;<W>;<X>;<Y>;<Z>;<a>;<b>;<c>;<d>;/
        <e>;<f>;<g>;<h>;<i>;<j>;<k>;<l>;<m>;<n>;/
        <o>;<p>;<q>;<r>;<s>;<t>;<u>;<v>;<w>;<x>;/
        <y>;<z>;<-->;<A!>;<A’>;<A/>>;<A?>;<A:>;<AA>;<AE>;/
        <C,>;<E!>;<E’>;<E/>>;<E:>;<I!>;<I’>;<I/>>;<I:>;<D->;/
        <N?>;<O!>;<O’>;<O/>>;<O?>;<O:>;<O//>;<U!>;<U’>;<U/>>;/
        <U:>;<Y’>;<TH>;<ss>;<a!>;<a’>;<a/>>;<a?>;<a:>;<aa>;/
        <ae>;<c,>;<e!>;<e’>;<e/>>;<e:>;<i!>;<i’>;<i/>>;<i:>;/
        <d->;<n?>;<o!>;<o’>;<o/>>;<o?>;<o:>;<o//>;<u!>;<u’>;/
        <u/>>;<u:>;<y’>;<th>;<y:>;<A->;<C/>>;<C.>;<E->;<E.>;/
        <G/>>;<G(>;<a->;<c/>>;<c.>;<e->;<e.>;<g/>>;<g(>;<G.>;/
        <G,>;<H/>>;<I?>;<I->;<I.>;<g.>;<g,>;<h/>>;<i?>;<i->;/
        <I;>;<J/>>;<K,>;<H//>;<IJ>;<L.>;<L,>;<N,>;<OE>;<O->;/
        <T//>;<NG>;<’n>;<kk>;<i;>;<j/>>;<k,>;<h//>;<i.>;<ij>;/
        <l.>;<l,>;<n,>;<oe>;<o->;<t//>;<ng>;<A;>;<L//>;<L<>;/
        <S’>;<S/>>;<S<>;<S,>;<T<>;<Z’>;<Z<>;<Z.>;<a;>;<l//>;/
        <l<>;<s’>;<s/>>;<s<>;<s,>;<t<>;<z’>;<z<>;<z.>;<R’>;/
        <R,>;<A(>;<L’>;<C’>;<C<>;<E;>;<E<>;<D<>;<D//>;<N’>;/
        <N<>;<U?>;<O">;<U->;<U(>;<R<>;<U0>;<U;>;<U">;<W/>>;/     1
        <Y/>>;<T,>;<Y:>;<r’>;<r,>;<a(>;<l’>;<c’>;<c<>;<e;>;/
        <e<>;<d<>;<d//>;<n’>;<n<>;<u?>;<o">;<u->;<u(>;<r<>;/
        <u0>;<u;>;<u">;<w/>>;<y/>>;<t,>;<a<>;<A<>;<a_>;<A_>;/     1
        <’a>;<’A>;<a1>;<A1>;<a2>;<A2>;<a3>;<A3>;<b.>;<B.>;/
        <b_>;<B_>;<d_>;<D_>;<d.>;<D.>;<d;>;<D;>;<e(>;<E(>;/
        <e_>;<E_>;<e?>;<E?>;<f.>;<F.>;<g<>;<G<>;<g->;<G->;/
        <g//>;<G//>;<h:>;<H:>;<h.>;<H.>;<h,>;<H,>;<h;>;<H;>;/
        <i<>;<I<>;<i(>;<I(>;<j(>;<J(>;<k’>;<K’>;<k<>;<K<>;/
        <k_>;<K_>;<k.>;<K.>;<k;>;<K;>;<l_>;<L_>;<m’>;<M’>;/
        <m.>;<M.>;<n.>;<N.>;<n_>;<N_>;<o<>;<O<>;<o(>;<O(>;/
        <o_>;<O_>;<o;>;<O;>;<o1>;<O1>;<p’>;<P’>;<r.>;<R.>;/
        <r_>;<R_>;<s.>;<S.>;<s;>;<S;>;<t_>;<T_>;<t.>;<T.>;/
        <u<>;<U<>;<v?>;<V?>;<w’>;<W’>;<w.>;<W.>;<w:>;<W:>;/
        <x.>;<X.>;<x:>;<X:>;<y!>;<Y!>;<y.>;<Y.>;<z/>>;<Z/>>;/
        <z(>;<Z(>;<z_>;<Z_>;<z//>;<Z//>;<ez>;<EZ>;<g’>;<G’>;/
        <’b>;<’B>;<’d>;<’D>;<’g>;<’G>;<’j>;<’J>;<’y>;<’Y>;/
        <ed>;<ED>;<nS>;<IO>;<D%>;<G%>;<IE>;<DS>;<II>;<YI>;/
        <J%>;<LJ>;<NJ>;<Ts>;<KJ>;<V%>;<DZ>;<A=>;<B=>;<V=>;/
        <G=>;<D=>;<E=>;<Z%>;<Z=>;<I=>;<J=>;<K=>;<L=>;<M=>;/
        <N=>;<O=>;<P=>;<R=>;<S=>;<T=>;<U=>;<F=>;<H=>;<C=>;/
        <C%>;<S%>;<Sc>;<=">;<Y=>;<%">;<JE>;<JU>;<JA>;<a=>;/
        <b=>;<v=>;<g=>;<d=>;<e=>;<z%>;<z=>;<i=>;<j=>;<k=>;/
        <l=>;<m=>;<n=>;<o=>;<p=>;<r=>;<s=>;<t=>;<u=>;<f=>;/
        <h=>;<c=>;<c%>;<s%>;<sc>;<=’>;<y=>;<%’>;<je>;<ju>;/
        <ja>;<io>;<d%>;<g%>;<ie>;<ds>;<ii>;<yi>;<j%>;<lj>;/
        <nj>;<ts>;<kj>;<v%>;<dz>;<I3>;<A%>;<E%>;<Y%>;<I%>;/
        <O%>;<U%>;<W%>;<A*>;<B*>;<G*>;<D*>;<E*>;<Z*>;<Y*>;/
        <H*>;<I*>;<K*>;<L*>;<M*>;<N*>;<C*>;<O*>;<P*>;<R*>;/
        <S*>;<T*>;<U*>;<F*>;<X*>;<Q*>;<W*>;<J*>;<V*>;<a%>;/
        <e%>;<y%>;<i%>;<a*>;<b*>;<g*>;<d*>;<e*>;<z*>;<y*>;/
        <h*>;<i*>;<k*>;<l*>;<m*>;<n*>;<c*>;<o*>;<p*>;<r*>;/
        <*s>;<s*>;<t*>;<u*>;<f*>;<x*>;<q*>;<w*>;<j*>;<v*>;/
        <o%>;<u%>;<w%>;<p+>;<v+>;<gf>;<H’>;<aM>;<aH>;<wH>;/
        <ah>;<yH>;<a+>;<b+>;<tm>;<t+>;<tk>;<g+>;<hk>;<x+>;/
        <d+>;<dk>;<r+>;<z+>;<s+>;<sn>;<c+>;<dd>;<tj>;<zH>;/
        <e+>;<i+>;<f+>;<q+>;<k+>;<l+>;<m+>;<n+>;<h+>;<w+>;/
        <j+>;<y+>;<A+>;<B+>;<G+>;<D+>;<H+>;<W+>;<Z+>;<X+>;/
```

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```
         <Tj>;<J+>;<K%>;<K+>;<L+>;<M%>;<M+>;<N%>;<N+>;<S+>;/
         <E+>;<P%>;<P+>;<Zj>;<ZJ>;<Q+>;<R+>;<Sh>;<T+>;<b4>;/
         <p4>;<m4>;<f4>;<d4>;<t4>;<n4>;<l4>;<g4>;<k4>;<h4>;/
         <j4>;<q4>;<x4>;<zh>;<ch>;<sh>;<r4>;<z4>;<c4>;<s4>;/
         <a4>;<o4>;<e4>;<eh>;<ai>;<ei>;<au>;<ou>;<an>;<en>;/
         <aN>;<eN>;<er>;<i4>;<u4>;<iu>;<A5>;<a5>;<I5>;<i5>;/
         <U5>;<u5>;<E5>;<e5>;<O5>;<o5>;<ka>;<ga>;<ki>;<gi>;/
         <ku>;<gu>;<ke>;<ge>;<ko>;<go>;<sa>;<za>;<si>;<zi>;/
         <su>;<zu>;<se>;<ze>;<so>;<zo>;<ta>;<da>;<ti>;<di>;/
         <tU>;<tu>;<du>;<te>;<de>;<to>;<do>;<na>;<ni>;<nu>;/
         <ne>;<no>;<ha>;<ba>;<pa>;<hi>;<bi>;<pi>;<hu>;<bu>;/
         <pu>;<he>;<be>;<pe>;<ho>;<bo>;<po>;<ma>;<mi>;<mu>;/
         <me>;<mo>;<yA>;<ya>;<yU>;<yu>;<yO>;<yo>;<ra>;<ri>;/
         <ru>;<re>;<ro>;<wA>;<wa>;<wi>;<we>;<wo>;<n5>;<a6>;/
         <A6>;<i6>;<I6>;<u6>;<U6>;<e6>;<E6>;<o6>;<O6>;<Ka>;/
         <Ga>;<Ki>;<Gi>;<Ku>;<Gu>;<Ke>;<Ge>;<Ko>;<Go>;<Sa>;/
         <Za>;<Si>;<Zi>;<Su>;<Zu>;<Se>;<Ze>;<So>;<Zo>;<Ta>;/
         <Da>;<Ti>;<Di>;<TU>;<Tu>;<Du>;<Te>;<De>;<To>;<Do>;/
         <Na>;<Ni>;<Nu>;<Ne>;<No>;<Ha>;<Ba>;<Pa>;<Hi>;<Bi>;/        1
         <Pi>;<Hu>;<Bu>;<Pu>;<He>;<Be>;<Pe>;<Ho>;<Bo>;<Po>;/        1
         <Ma>;<Mi>;<Mu>;<Me>;<Mo>;<YA>;<Ya>;<YU>;<Yu>;<YO>;/
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         <yf>

cntrl    <NU>;<SH>;<SX>;<EX>;<ET>;<EQ>;<AK>;<BL>;<BS>;<HT>;/
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         <D4>;<NK>;<SY>;<EB>;<CN>;<EM>;<SB>;<EC>;<FS>;<GS>;/
         <RS>;<US>;<DT>;<PA>;<HO>;<BH>;<NH>;<IN>;<NL>;<SA>;/
         <ES>;<HS>;<HJ>;<VS>;<PD>;<PU>;<RI>;<S2>;<S3>;<DC>;/
         <P1>;<P2>;<TS>;<CC>;<MW>;<SG>;<EG>;<SS>;<GC>;<SC>;/
         <CI>;<ST>;<OC>;<PM>;<AC>

punct    <!>;<">;<Nb>;<DO>;<%>;<&>;<’>;<(>;<)>;<*>;/
         <+>;<,>;<->;<.>;<//>;<:>;<;>;<<>;<=>;</>>;/
         <?>;<At>;<<(>;<////>;<)/>>;<’/>>;<_>;<’!>;<(!>;<!!>;/
         <!)>;<’?>;<!I>;<Ct>;<Pd>;<Cu>;<Ye>;<BB>;<SE>;<’:>;/
         <Co>;<-a>;<<<>;<NO>;<Rg>;<’->;<DG>;<+->;<2S>;<3S>;/
         <’’>;<My>;<PI>;<.M>;<’,>;<1S>;<-o>;</>/>>;<14>;<12>;/
         <34>;<?I>;<*X>;<-:>;<’6>;<"6>;<<->;<-!>;<-/>>;<-v>;/
         <’9>;<"9>;<’0>;<HB>;<TM>;<Md>;<18>;<38>;<58>;<78>;/
         <Om>;<’(>;<’;>;<’<>;<’">;<’.>;<;S>;<Vs>;<1M>;<1N>;/
         <3M>;<4M>;<6M>;<1H>;<1T>;<-1>;<-N>;<-2>;<-M>;<-3>;/
         <’1>;<’2>;<’3>;<9’>;<9">;<.9>;<:9>;<<1>;</>1>;<<//>;/
         <///>>;<15>;<25>;<35>;<45>;<16>;<13>;<23>;<56>;<*->;/
         <//->;<//=>;<-X>;<%0>;<co>;<PO>;<Rx>;<AO>;<oC>;<Ml>;/
         <Fm>;<Tl>;<TR>;<MX>;<Mb>;<Mx>;<XX>;<OK>;<M2>;<!2>;/
         <=2>;<Ca>;<..>;<.3>;<:3>;<.:>;<:.>;<-+>;<!=>;<=3>;/
         <?1>;<?2>;<?->;<?=>;<=<>;</>=>;<0(>;<00>;<PP>;<-T>;/
         <-L>;<-V>;<AN>;<OR>;<.P>;<dP>;<f(>;<In>;<Io>;<RT>;/
         <*P>;<+Z>;<FA>;<TE>;<GF>;<DE>;<NB>;<(U>;<)U>;<(C>;/
         <)C>;<(_>;<)_>;<(->;<-)>;<</>>;<UD>;<Ub>;<<=>;<=/>>;/
         <==>;<//0>;<OL>;<0u>;<0U>;<SU>;<0:>;<OS>;<fS>;<Or>;/
         <SR>;<uT>;<UT>;<dT>;<Dt>;<PL>;<PR>;<*1>;<*2>;<VV>;/
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         <TB>;<LB>;<FB>;<sB>;<EH>;<vv>;<hh>;<dr>;<dl>;<ur>;/
         <ul>;<vr>;<vl>;<dh>;<uh>;<vh>;<.S>;<:S>;<?S>;<lB>;/
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          <RB>;<cC>;<cD>;<Dr>;<Dl>;<Ur>;<Ul>;<Vr>;<Vl>;<dH>;/
          <uH>;<vH>;<Ob>;<Sb>;<Sn>;<Pt>;<NI>;<cH>;<cS>;<dR>;/
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          <Ic>;<SM>;<CG>;<Ci>;<(A>;</>V>;<!<>;<<*>;<!/>>;<*/>>;/
          <<7>;<7<>;</>7>;<7/>>;<I2>;<0.>;<HI>;<::>;<FD>;<LZ>;/
          <BD>;<1R>;<2R>;<3R>;<4R>;<5R>;<6R>;<7R>;<8R>;<9R>;/
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          <?+>;<++>;<:+>;<"+>;<=+>;<//+>;<'+>;<1+>;<3+>;<0+>;/
          <IS>;<,_>;<._>;<+">;<+_>;<*_>;<;_>;<0_>;<<+>;</>+>;/
          <<'>;</>'>;<<">;</>">;<(">;<)">;<=//>;<=_>;<('>;<)'>;/
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          <__>;<"!>;<"'>;<"/>>;<"?>;<"->;<"(>;<".>;<":>;<"//>;/          1
          <"0>;<",>;<"_>;<"">;<"<>;<";>;<"=>;<"1>;<"2>;<Fd>;/
          <Bd>;<Fl>;<Li>;<//f>;<0s>;<1s>;<2s>;<3s>;<4s>;<5s>;/
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          <9S>;<+S>;<-S>;<1h>;<2h>;<3h>;<4h>;<1j>;<2j>;<3j>;/
          <4j>;<UA>;<UB>;<yr>;<.6>;<<6>;</>6>;<,6>;<&6>;<(S>;/
          <)S>

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        (<A;>,<a;>); (<A<>,<a<>); (<A/>>,<a/>>); (<A?>,<a?>); (<AA>,<aa>);/
        (<AE>,<ae>); (<A_>,<a_>); (<B>,<b>); (<B.>,<b.>); (<B_>,<b_>);/
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        (<C/>>,<c/>>); (<D>,<d>); (<D->,<d->); (<D.>,<d.>); (<D//>,<d//>);/
        (<D;>,<d;>); (<D<>,<d<>); (<D_>,<d_>); (<E>,<e>); (<E!>,<e!>);/
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        (<E;>,<e;>); (<E<>,<e<>); (<E/>>,<e/>>); (<E?>,<e?>); (<ED>,<ed>);/
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        (<G>,<ft>); (<G'>,<g'>); (<G(>,<g(>); (<G,>,<g,>);/
        (<G->,<g->); (<G.>,<g.>); (<G//>,<g//>); (<G<>,<g<>); (<G/>>,<g/>>);/
        (<H>,<h>); (<H,>,<h,>); (<H.>,<h.>); (<H//>,<h//>); (<H:>,<h:>);/
        (<H;>,<h;>); (<H/>>,<h/>>); (<I>,<i>); (<I!>,<i!>); (<I'>,<i'>);/
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        (<Y!>,<y!>); (<Y'>,<y'>); (<Y.>,<y.>); (<Y:>,<y:>); (<Y/>>,<y/>>);/
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         (<Z*>,<z*>)

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         (<e;>,<E;>); (<e<>,<E<>); (<e/>>,<E/>>); (<e?>,<E?>); (<ed>,<ED>);/
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         (<ft>,<G>); (<g’>,<G’>); (<g(>,<G(>); (<g,>,<G,>);/
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         (<t>,<T,>); (<t.>,<T.>); (<t//>,<T//>); (<t<>,<T<>);/
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         (<y!>,<Y!>); (<y’>,<Y’>); (<y.>,<Y.>); (<y:>,<Y:>); (<y/>>,<Y/>>);/
         (<z>,<Z>); (<z’>,<Z’>); (<z(>,<Z(>); (<z.>,<Z.>); (<z//>,<Z//>);/
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        (<g%>,<G%>); (<g=>,<G=>); (<h=>,<H=>); (<i=>,<I=>); (<ie>,<IE>);/
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        (<lj>,<LJ>); (<m=>,<M=>); (<n=>,<N=>); (<nj>,<NJ>); (<o=>,<O=>);/
        (<p=>,<P=>); (<r=>,<R=>); (<s%>,<S%>); (<s=>,<S=>); (<sc>,<Sc>);/
        (<t=>,<T=>); (<ts>,<Ts>); (<u=>,<U=>); (<v=>,<V=>); (<y=>,<Y=>);/
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        (<f*>,<F*>); (<g*>,<G*>); (<h*>,<H*>); (<i%>,<I%>); (<i*>,<I*>);/
        (<j*>,<J*>); (<k*>,<K*>); (<l*>,<L*>); (<m*>,<M*>); (<n*>,<N*>);/
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        (<v*>,<V*>); (<w%>,<W%>); (<w*>,<W*>); (<x*>,<X*>); (<y%>,<Y%>);/    1
        (<y*>,<Y*>); (<z*>,<Z*>)                                             1

END LC_CTYPE

LC_COLLATE

% Ordering algorithm:                                                        1
%  1. Spaces and hyphen (but not soft hyphen) before punctuation             1
%     characters, punctuation characters before numbers,                    1
%     numbers before letters.                                               1
%  2. Letters with diacritical marks are members of equivalence classes      1
%  3. Upper case letters before corresponding lower case letter.             1
%  4. Specials are ignored when comparing letters, but then they are considered 1
%  5. The alphabets are sorted in the order of appearance in ISO 10646:      1
%     Latin, Cyrillic, Greek, Arabic and Hebrew.                            1
%  6. In Danish, the letter combination ‘aa’ is equivalent to ‘<aa>’         1
%                                                                            1
% The ordering algorithm is in accordance with Danish Standard DS 377        1
% and the Danish Orthography Dictionary (Retskrivningsordbogen, 1986).       1
% It is also in accordance with Faroese and Greenlandic orthography.         1

collating-element <A-A> from <A><A>                                          1
collating-element <a-a> from <a><a>                                          1
collating-element <A-a> from <A><a>                                          1
collating-element <s-s> from <s><s>                                          1
collating-element <i-j> from <i><j>                                          1
collating-element <I-J> from <I><J>                                          1
collating-element <o-e> from <o><e>                                          1
collating-element <O-E> from <O><E>                                          1
collating-element <t-h> from <t><h>                                          1
collating-element <T-H> from <T><H>                                          1
collating-element <n-g> from <n><g>                                          1
collating-element <N-G> from <N><G>                                          1

% collating symbols, <CAPITAL> or <SMALL> letters first                      1
% <CAPITAL> letters before <SMALL> letters                                   1

collating-symbol <CAPITAL>
collating-symbol <BOTH>
collating-symbol <SMALL>

collating-symbol <NO-ACCENT>
collating-symbol <ACUTE>
```

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```
collating-symbol <GRAVE>
collating-symbol <CIRCUMFLEX>
collating-symbol <TILDE>
collating-symbol <MACRON>
collating-symbol <BREVE>
collating-symbol <DOT>
collating-symbol <DIAERESIS>
collating-symbol <CEDILLA>
collating-symbol <UNDERLINE>
collating-symbol <STROKE>
collating-symbol <DOUBLE-ACUTE>
collating-symbol <OGONEK>
collating-symbol <CARON>
collating-symbol <CYRILLIC>
collating-symbol <GREEK>
collating-symbol <ALPHA-1>
collating-symbol <ALPHA-2>
collating-symbol <PRECEDED-BY-APOSTROPHE>
collating-symbol <SPECIAL>
collating-symbol <ACC0>
collating-symbol <ACC1>
collating-symbol <ACC2>
collating-symbol <ACC3>
collating-symbol <ACC11>
collating-symbol <ACC12>

% letter;accent;case;specials                                1

order_start forward;backward;forward;forward

<CAPITAL>
<BOTH>
<SMALL>

<NO-ACCENT>
<ACUTE>
<GRAVE>
<CIRCUMFLEX>
<TILDE>
<MACRON>
<BREVE>
<DOT>
<DIAERESIS>
<CEDILLA>
<UNDERLINE>
<STROKE>
<DOUBLE-ACUTE>
<OGONEK>
<CARON>
<CYRILLIC>
<GREEK>
<ALPHA-1>
<ALPHA-2>
<PRECEDED-BY-APOSTROPHE>
<SPECIAL>
<ACC0>
<ACC1>
```

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<ACC2>
<ACC3>
<ACC11>
<ACC12>

<SP>    <SP>
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<C%>     <C%>;<ALPHA-1>;<CAPITAL>
<c%>     <C%>;<ALPHA-1>;<SMALL>
<DZ>     <DZ>;<SPECIAL>;<CAPITAL>
<dz>     <DZ>;<SPECIAL>;<SMALL>
<S%>     <S%>;<ALPHA-1>;<CAPITAL>
<s%>     <S%>;<ALPHA-1>;<SMALL>
<Sc>     <Sc>;<SPECIAL>;<CAPITAL>
<sc>     <Sc>;<SPECIAL>;<SMALL>
<='>     <='>;<ACUTE>;<SMALL>
<=">     <='>;<DOUBLE-ACUTE>;<CAPITAL>
```

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```
<Y=>    <Y=>;<CYRILLIC>;<CAPITAL>
<y=>    <Y=>;<CYRILLIC>;<SMALL>
<%'>    <%'>;<ACUTE>;<SMALL>
<%">    <%'>;<DOUBLE-ACUTE>;<CAPITAL>
<JE>    <JE>;<SPECIAL>;<CAPITAL>
<je>    <JE>;<SPECIAL>;<SMALL>
<JU>    <JU>;<SPECIAL>;<CAPITAL>
<ju>    <JU>;<SPECIAL>;<SMALL>
<JA>    <JA>;<SPECIAL>;<CAPITAL>
<ja>    <JA>;<SPECIAL>;<SMALL>
<A*>    <A*>;<GREEK>;<CAPITAL>                                     1
<a*>    <A*>;<GREEK>;<SMALL>
<A%>    <A*>;<ALPHA-1>;<CAPITAL>
<a%>    <A*>;<ALPHA-1>;<SMALL>
<B*>    <B*>;<GREEK>;<CAPITAL>
<b*>    <B*>;<GREEK>;<SMALL>
<G*>    <G*>;<GREEK>;<CAPITAL>
<g*>    <G*>;<GREEK>;<SMALL>
<D*>    <D*>;<GREEK>;<CAPITAL>
<d*>    <D*>;<GREEK>;<SMALL>
<E*>    <E*>;<GREEK>;<CAPITAL>
<e*>    <E*>;<GREEK>;<SMALL>
<E%>    <E*>;<ALPHA-1>;<CAPITAL>
<e%>    <E*>;<ALPHA-1>;<SMALL>
<Z*>    <Z*>;<GREEK>;<CAPITAL>
<z*>    <Z*>;<GREEK>;<SMALL>
<Y*>    <Y*>;<GREEK>;<CAPITAL>
<y*>    <Y*>;<GREEK>;<SMALL>
<Y%>    <Y*>;<ALPHA-1>;<CAPITAL>
<y%>    <Y*>;<ALPHA-1>;<SMALL>
<H*>    <H*>;<GREEK>;<CAPITAL>
<h*>    <H*>;<GREEK>;<SMALL>
<I*>    <I*>;<GREEK>;<CAPITAL>                                     1
<J*>    <I*>;<GREEK>;<CAPITAL>                                     1
<i*>    <I*>;<GREEK>;<SMALL>                                       1
<j*>    <I*>;<GREEK>;<SMALL>                                       1
<I%>    <I*>;<ALPHA-1>;<CAPITAL>                                   1
<i%>    <I*>;<ALPHA-1>;<SMALL>                                     1
<K*>    <K*>;<GREEK>;<CAPITAL>                                     1
<k*>    <K*>;<GREEK>;<SMALL>                                       1
<L*>    <L*>;<GREEK>;<CAPITAL>                                     1
<l*>    <L*>;<GREEK>;<SMALL>                                       1
<M*>    <M*>;<GREEK>;<CAPITAL>                                     1
<m*>    <M*>;<GREEK>;<SMALL>                                       1
<N*>    <N*>;<GREEK>;<CAPITAL>                                     1
<n*>    <N*>;<GREEK>;<SMALL>                                       1
<C*>    <C*>;<GREEK>;<CAPITAL>                                     1
<c*>    <C*>;<GREEK>;<SMALL>                                       1
<O*>    <O*>;<GREEK>;<CAPITAL>
<o*>    <O*>;<GREEK>;<SMALL>
<O%>    <O*>;<ALPHA-1>;<CAPITAL>
<o%>    <O*>;<ALPHA-1>;<SMALL>
<P*>    <P*>;<GREEK>;<CAPITAL>
<p*>    <P*>;<GREEK>;<SMALL>
<R*>    <R*>;<GREEK>;<CAPITAL>
<r*>    <R*>;<GREEK>;<SMALL>
<S*>    <S*>;<GREEK>;<CAPITAL>
```

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```
<s*>     <S*>;<GREEK>;<SMALL>
<*s>     <S*>;<SPECIAL>;<SMALL>
<T*>     <T*>;<GREEK>;<CAPITAL>
<t*>     <T*>;<GREEK>;<SMALL>
<U*>     <U*>;<GREEK>;<CAPITAL>
<V*>     <U*>;<GREEK>;<CAPITAL>
<u*>     <U*>;<GREEK>;<SMALL>
<v*>     <U*>;<GREEK>;<SMALL>
<U%>     <U*>;<ALPHA-1>;<CAPITAL>
<u%>     <U*>;<ALPHA-1>;<SMALL>
<F*>     <F*>;<GREEK>;<CAPITAL>
<f*>     <F*>;<GREEK>;<SMALL>
<X*>     <X*>;<GREEK>;<CAPITAL>
<x*>     <X*>;<GREEK>;<SMALL>
<Q*>     <Q*>;<GREEK>;<CAPITAL>
<q*>     <Q*>;<GREEK>;<SMALL>
<W*>     <W*>;<GREEK>;<CAPITAL>
<w*>     <W*>;<GREEK>;<SMALL>
<W%>     <W*>;<ALPHA-1>;<CAPITAL>
<w%>     <W*>;<ALPHA-1>;<SMALL>
<p+>
<v+>
<gf>
<H'>
<aM>
<aH>
<wH>
<ah>
<yH>
<a+>
<b+>
<tm>
<t+>
<tk>
<g+>
<hk>
<x+>
<d+>
<dk>
<r+>
<z+>
<s+>
<sn>
<c+>
<dd>
<tj>
<zH>
<e+>
<i+>
<f+>
<q+>
<k+>
<l+>
<m+>
<n+>
<h+>
<w+>
```

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```
<j+>
<y+>
<yf>
<A+>
<B+>
<G+>
<D+>
<H+>
<W+>
<Z+>
<X+>
<Tj>
<J+>
<K%>
<K+>
<L+>
<M%>
<M+>
<N%>
<N+>
<S+>
<E+>
<P%>
<P+>
<Zj>
<ZJ>
<Q+>
<R+>
<Sh>
<T+>
<b4>
<p4>
<m4>
<f4>
<d4>
<t4>
<n4>
<l4>
<g4>
<k4>
<h4>
<j4>
<q4>
<x4>
<zh>
<ch>
<sh>
<r4>
<z4>
<c4>
<s4>
<a4>
<o4>
<e4>
<eh>
<ai>
<ei>
```

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```
<au>
<ou>
<an>
<en>
<aN>
<eN>
<er>
<i4>
<u4>
<iu>
<A5>
<a5>
<I5>
<i5>
<U5>
<u5>
<E5>
<e5>
<O5>
<o5>
<ka>
<ga>
<ki>
<gi>
<ku>
<gu>
<ke>
<ge>
<ko>
<go>
<sa>
<za>
<si>
<zi>
<su>
<zu>
<se>
<ze>
<so>
<zo>
<ta>
<da>
<ti>
<di>
<tU>
<tu>
<du>
<te>
<de>
<to>
<do>
<na>
<ni>
<nu>
<ne>
<no>
<ha>
```

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```
<ba>
<pa>
<hi>
<bi>
<pi>
<hu>
<bu>
<pu>
<he>
<be>
<pe>
<ho>
<bo>
<po>
<ma>
<mi>
<mu>
<me>
<mo>
<yA>
<ya>
<yU>
<yu>
<yO>
<yo>
<ra>
<ri>
<ru>
<re>
<ro>
<wA>
<wa>
<wi>
<we>
<wo>
<n5>
<a6>
<A6>
<i6>
<I6>
<u6>
<U6>
<e6>
<E6>
<o6>
<O6>
<Ka>
<Ga>
<Ki>
<Gi>
<Ku>
<Gu>
<Ke>
<Ge>
<Ko>
<Go>
<Sa>
```

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<Za>
<Si>
<Zi>
<Su>
<Zu>
<Se>
<Ze>
<So>
<Zo>
<Ta>
<Da>
<Ti>
<Di>
<TU>
<Tu>
<Du>
<Te>
<De>
<To>
<Do>
<Na>
<Ni>
<Nu>
<Ne>
<No>
<Ha>
<Ba>
<Pa>
<Hi>
<Bi> 1
<Pi> 1
<Hu>
<Bu>
<Pu>
<He>
<Be>
<Pe>
<Ho>
<Bo>
<Po>
<Ma>
<Mi>
<Mu>
<Me>
<Mo>
<YA>
<Ya>
<YU>
<Yu>
<YO>
<Yo>
<Ra>
<Ri>
<Ru>
<Re>
<Ro>
<WA>

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```
<Wa>
<Wi>
<We>
<Wo>
<N6>
<Vu>
<KA>
<KE>

order_end

END LC_COLLATE

LC_MONETARY

% int_curr_symbol according to ISO 4217                                 1
int_curr_symbol        "DKK "                                           1
currency_symbol        "kr."                                            1
mon_decimal_point      <,>
mon_thousands_sep      <.>
mon_grouping           3;0
positive_sign          ""
negative_sign          <->
int_frac_digits        2
frac_digits            2
p_cs_precedes          1
p_sep_by_space         1
n_cs_precedes          1
n_sep_by_space         1
p_sign_posn            4
n_sign_posn            4

END LC_MONETARY

LC_NUMERIC

decimal_point          <,>
thousands_sep          <.>
grouping               3;0

END LC_NUMERIC

LC_TIME

abday       "s<o//>n";"man";"tir";"ons";"tor";"fre";"l<o//>r"             1
day         "s<o//>ndag";"mandag";"tirsdag";"onsdag";/                    1
            "torsdag";"fredag";"l<o//>rdag"                               1
abmon       "jan";"feb";"mar";"apr";"maj";"jun";/                         1
            "jul";"aug";"sep";"okt";"nov";"dec"                           1
mon         "januar";"februar";"marts";"april";"maj";"juni";/             1
            "juli";"august";"september";"oktober";"november";"december"   1
d_t_fmt     "%a %d %b %Y %T %Z"                                           1
d_fmt       "%d %b %Y"                                                    1
t_fmt       "%T"                                                          1

% The AM/PM notation is not used in Denmark and thus not allowed.         1
am_pm       "";""
```

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```
t_fmt_ampm  ""

END LC_TIME

LC_MESSAGES

% Must be careful to avoid interpreting "nej" (no) as "ja" (yes).

% yesexpr     "^[[:blank:]]*[JjYy][[:alpha:]]*"
% noexpr      "^[[:blank:]]*[Nn][[:alpha:]]*"

yesexpr     "<’//><<(><<(>:blank:<)//><)//>*<<(>JjYy<)//>/
<<(><<(>:alpha:<)//><)//>*"
noexpr      "<’//><<(><<(>:blank:<)//><)//>*<<(>Nn<)//>/
<<(><<(>:alpha:<)//><)//>*"

END LC_MESSAGES
```

F.3.2 fo_DK — (Example) Faroese LC_TIME and LC_MESSAGES

```
escape_char  /
comment_char %
% Danish example national locale for the Faroese language
% Source: Danish Standards Association
% Revision: 1.7 1991-04-26
%
% Only LC_TIME and LC_MESSAGES are specified here, else use the da_DK locale

LC_CTYPE
copy da_DK
END LC_CTYPE

LC_COLLATE
copy da_DK
END LC_COLLATE

LC_MONETARY
copy da_DK
END LC_MONETARY

LC_NUMERIC
copy da_DK
END LC_NUMERIC

LC_TIME

abday       "sun";"m<a’>n";"t<y’>s";"mik";"h<o’>s";"fr<i’>";"ley"
day         "sunnudagur";"m<a’>nadagur";"t<y’>sdagur";/
            "mikudagur";"h<o’>sdagur";"fr<i’>ggjadagur";"leygardagur"
abmon       "jan";"feb";"mar";"apr";"mai";"jun";/
            "jul";"aug";"sep";"okt";"nov";"des"
mon         "januar";"februar";"mars";"apr<i’>l";"mai";"juni";/
            "juli";"august";"september";"oktober";"november";"desember"
d_t_fmt     "%a %d %b %Y %T %Z"
d_fmt       "%d %b %Y"
t_fmt       "%T"
```

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```
am_pm        "";""
t_fmt_ampm   ""

END LC_TIME

LC_MESSAGES

% Must be careful to avoid interpreting "nej"/"nei" (no) as "ja" (yes).     1

% yesexpr     "^[[:blank:]]*[JjYy][[:alpha:]]*"     1
% noexpr      "^[[:blank:]]*[Nn][[:alpha:]]*"     1

yesexpr     "<'/>><<(><<(>:blank:<)/>><)/>>*<<(>JjYy<)/>>/     1
<<(><<(>:alpha:<)/>><)/>>*"     1
noexpr      "<'/>><<(><<(>:blank:<)/>><)/>>*<<(>Nn<)/>>/     1
<<(><<(>:alpha:<)/>><)/>>*"     1

END LC_MESSAGES
```

F.3.3 `kl_DK` — (Example) Greenlandic `LC_TIME` and `LC_MESSAGES`

```
escape_char /     1
comment_char %     1
% Danish example national locale for the Greenlandic language     1
% Source: Danish Standards Association     1
% Revision: 1.7 1991-04-26     1
%     1
% Only LC_TIME and LC_MESSAGES are specified here, else use the da_DK locale     1

LC_CTYPE
copy da_DK     1
END LC_CTYPE

LC_COLLATE     1
copy da_DK     1
END LC_COLLATE

LC_MONETARY     1
copy da_DK     1
END LC_MONETARY

LC_NUMERIC     1
copy da_DK     1
END LC_NUMERIC

LC_TIME     1

abday        "sab";"ata";"mar";"pin";"sis";"tal";"arf"     1
day          "sabaat";"ataasinngorneq";"marlunngorneq";"pingasunngorneq";/     1
             "sisamanngorneq";"tallimanngorneq";"arfininngorneq"     1
abmon        "jan";"feb";"mar";"apr";"maj";"jun";/     1
             "jul";"aug";"sep";"okt";"nov";"dec"     1
mon          "januari";"februari";"martsi";"aprili";"maji";"juni";/     1
             "juli";"augustusi";"septemberi";"oktoberi";"novemberi";"decemberi"     1
d_t_fmt      "%a %d %b %Y %T %Z"     1
d_fmt        "%d %b %Y"     1
```

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```
t_fmt       "%T"                                                        1
am_pm       "";""
t_fmt_ampm  ""

END LC_TIME

LC_MESSAGES

% Must be careful to avoid interpreting "namik"/"nej" (no) as "aap"/"ja" (yes). 1

% yesexpr     "^[[:blank:]]*[JjYyAa][[:alpha:]]*"                        1
% noexpr      "^[[:blank:]]*[Nn][[:alpha:]]*"                            1

yesexpr     "<'/>><<(><<(>:blank:<)/>><)/>>*<<(>JjYyAa<)/>>/             1
<<(><<(>:alpha:<)/>><)/>>*"                                             1
noexpr      "<'/>><<(><<(>:blank:<)/>><)/>>*<<(>Nn<)/>>/                 1
<<(><<(>:alpha:<)/>><)/>>*"                                             1

END LC_MESSAGES
```

F.4 Character Mnemonics Guidelines

This clause presents guidelines for character mnemonics in a minimal coded character set. These guidelines are used within this sample annex and are recommended for other national profiles.

F.4.1 Aim of Character Mnemonics

The aim of the mnemonics is to be able to represent all characters in all standard coded character sets in any standard coded character set.

The usage of the character mnemonics is primarily intended within computer operating systems, programming languages, and applications and this work with character mnemonics is the current state of work that has been presented to the ISO working group responsible for these computer related issues, namely the ISO/IEC JTC 1/SC22 special working group on coded character set usage.

F.4.2 Covered Coded Character Sets

All characters in the standard coded character sets will be given a mnemonic to be represented in the minimal character set. The minimal coded character set is defined as the basic character set of ISO 646 {1}, where 12 positions are left undefined. The standard coded character sets are taken as the sum of all ISO-defined or ISO-registered coded character sets.

The most significant ISO coded character set is the ISO 10646 {B11} coded character set, whose aim is to code in 32 bits all characters in the world. These guidelines can be seen as assigning mnemonic attributes to most characters in ISO 10646 {B11}, currently at the DIS stage.

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Other ISO coded character sets covered include all parts of ISO 8859 {B9} ISO 6937-2 {B6}, and all ISO 646 {1} conforming coded character sets in the ISO character set registry managed by ECMA according to ISO 4873 {4}. Some non-ISO coded character sets are also covered for convenience.

F.4.3 Character Mnemonics Classes

The character mnemonics are classified into two groups:

(1) A group with two-character mnemonics—Primarily intended for alphabetic scripts like Latin, Greek, Cyrillian, Hebrew, and Arabic, and special characters.

(2) A group with variable-length mnemonics—Primarily intended for nonalphabetic scripts like Japanese and Chinese. These mnemonics will have a unique lead-in and lead-out symbol.

All mnemonics are given a long descriptive name, written in the reference coded character set and taken from ISO 10646 {B11}, if possible.

F.4.4 Two-Character Mnemonics

The two-character mnemonics include various accented Latin letters, Greek, Cyrillic, Hebrew, Arabic, Hiragana, Katakana, and Bopomofo. Some special characters also are included. Almost all ISO or ISO-registered 7- and 8-bit coded character sets are covered with these two-character mnemonics.

The two characters are chosen so the graphical appearence in the reference set resembles as much as possible (within the possibilities available) the graphical appearance of the character. The basic coded character set of ISO 646 {1} is used as the reference set, as described previously.

The characters in the reference coded character set are chosen to represent themselves. They may be considered as two-character mnemonics where the second character is a space.

Control character mnemonics are chosen according to ISO 2047 {B3} and ISO 6429 {B5}.

Letters, including Greek, Cyrillic, Arabic, and Hebrew, are represented with the base letter as the first letter, and the second letter represents an accent or relation to a non-Latin script. Non-Latin letters are transliterated to Latin letters, following transliteration standards as closely as possible.

After a letter, the second character signifies the following:

exclamation-mark	!	grave
apostrophe	'	acute accent
greater-than-sign	>	circumflex accent

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question-mark	`?`	tilde
hyphen-minus	`-`	macron
left-parenthesis	`(`	breve
full-stop	`.`	dot above/ring above
colon	`:`	diaeresis
comma	`,`	cedilla
underline	`_`	underline
solidus	`/`	stroke
quotation-mark	`"`	double acute accent
semicolon	`;`	ogonek
less-than-sign	`<`	caron
equals	`=`	Cyrillian
asterisk	`*`	Greek
percent-sign	`%`	Greek/Cyrillian special
plus	`+`	smalls: Arabic, capitals: Hebrew
four	`4`	Bopomofo
five	`5`	Hiragana
six	`6`	Katakana

Special characters are encoded with some mnemonic value. These are not systematic throughout, but most mnemonics start with a special character of the reference set. Special characters with some sort of reference to the reference coded character set normally have this character as the first character in the mnemonic.

F.4.5 Variable-Length Character Mnemonics

The variable-length character mnemonics are meant primarily for the ideographic characters in larger Asian coded character sets. To have the mnemonics as short as possible, which both saves storage and is easier to type, a short name is preferred. Considering the Chinese standard GB 2312 {B14} and the Japanese standards JIS X0208 {B15} and JIS X0212 {B16}, they are all given by row and column numbers between 1 and 99. So two positions for row and column and a coded character set identifier of one character would be almost as short as possible. The following coded character set identifiers are defined:

`c`	GB 2312 {B14}
`j`	JIS X0208 {B15}
`J`	JIS X0212 {B16}
`k`	KS C 5601 {B17}

The first idea was to have a name in Latin describing the pronunciation, but that is not possible according to Asian sources.

The variable-length character mnemonics can also be used for some Latin letters with more than one accent or other special characters that are used less frequently.

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F.5 (Example) Danish Charmap Files

The (example) Danish locale is coded character-set independent, as it is defined in terms of symbolic character names. Symbolic character names are defined for about 1 300 characters, covering many coded character sets. It is not necessary to have all these characters present in the actual encoding character set because absent characters simply can be ignored. But specifying the locale with symbolic character names ensures a uniform collating sequence of the present characters, regardless of the encoded character set. The more complicated locale should not imply less efficient code at running time, although generating the locale tables could take a longer time.

Danish Standards provides several charmap files, of which the `ISO_10646` is the prime charmap, as it defines all the character names. It is expected, however, that the `ISO_8859-1` charmap would be of more current interest. The charmaps are quite general, and might be used for other countries' locales without change.

See the guidelines for character mnemonics in F.4 for guidance in reading these 1
charmap files.

F.5.1 `ISO_10646` Charmap

```
# ISO/IEC DIS 10646: 1990 charmap based on ISO/IEC JTC1/SC2/WG2 N666
# Only a part of the 10646 encoding is tabled here

<escape_char> /
<mb_cur_max> 4
CHARMAP
<NUL>               /d000/d128/d128/d128    NULL (NUL)                          1
<SOH>               /d001/d128/d128/d128    START OF HEADING (SOH)              1
<STX>               /d002/d128/d128/d128    START OF TEXT (STX)                 1
<ETX>               /d003/d128/d128/d128    END OF TEXT (ETX)                   1
<EOT>               /d004/d128/d128/d128    END OF TRANSMISSION (EOT)           1
<ENQ>               /d005/d128/d128/d128    ENQUIRY (ENQ)                       1
<ACK>               /d006/d128/d128/d128    ACKNOWLEDGE (ACK)                   1
<alert>             /d007/d128/d128/d128    BELL (BEL)                          1
<BEL>               /d007/d128/d128/d128    BELL (BEL)                          1
<backspace>         /d008/d128/d128/d128    BACKSPACE (BS)                      1
<tab>               /d009/d128/d128/d128    CHARACTER TABULATION (HT)           1
<newline>           /d010/d128/d128/d128    LINE FEED (LF)                      1
<vertical-tab>      /d011/d128/d128/d128    LINE TABULATION (VT)                1
<form-feed>         /d012/d128/d128/d128    FORM FEED (FF)                      1
<carriage-return>   /d013/d128/d128/d128    CARRIAGE RETURN (CR)                1
<DLE>               /d016/d128/d128/d128    DATALINK ESCAPE (DLE)               1
<DC1>               /d017/d128/d128/d128    DEVICE CONTROL ONE (DC1)            1
<DC2>               /d018/d128/d128/d128    DEVICE CONTROL TWO (DC2)            1
<DC3>               /d019/d128/d128/d128    DEVICE CONTROL THREE (DC3)          1
<DC4>               /d020/d128/d128/d128    DEVICE CONTROL FOUR (DC4)           1
<NAK>               /d021/d128/d128/d128    NEGATIVE ACKNOWLEDGE (NAK)          1
<SYN>               /d022/d128/d128/d128    SYNCHRONOUS IDLE (SYN)              1
<ETB>               /d023/d128/d128/d128    END OF TRANSMISSION BLOCK (ETB)     1
<CAN>               /d024/d128/d128/d128    CANCEL (CAN)                        1
<SUB>               /d026/d128/d128/d128    SUBSTITUTE (SUB)                    1
<ESC>               /d027/d128/d128/d128    ESCAPE (ESC)                        1
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<BB>    /d032/d032/d032/d166    BROKEN BAR
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<-a>    /d032/d032/d032/d170    FEMININE ORDINAL INDICATOR
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<-o>     /d032/d032/d032/d186    MASCULINE ORDINAL INDICATOR
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<O!>     /d032/d032/d032/d210    LATIN CAPITAL LETTER O WITH GRAVE
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<TH>     /d032/d032/d032/d222    LATIN CAPITAL LETTER THORN (Icelandic)
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<a'>     /d032/d032/d032/d225    LATIN SMALL LETTER A WITH ACUTE
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<i'>     /d032/d032/d032/d237    LATIN SMALL LETTER I WITH ACUTE
<i/>>    /d032/d032/d032/d238    LATIN SMALL LETTER I WITH CIRCUMFLEX
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<-/>>   /d032/d032/d033/d046    RIGHTWARD ARROW
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<c.>    /d032/d032/d033/d051    LATIN SMALL LETTER C WITH DOT ABOVE
<e->    /d032/d032/d033/d052    LATIN SMALL LETTER E WITH MACRON
<e.>    /d032/d032/d033/d053    LATIN SMALL LETTER E WITH DOT ABOVE
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<G.>    /d032/d032/d033/d065    LATIN CAPITAL LETTER G WITH DOT ABOVE
<G,>    /d032/d032/d033/d066    LATIN CAPITAL LETTER G WITH CEDILLA
<H/>>   /d032/d032/d033/d067    LATIN CAPITAL LETTER H WITH CIRCUMFLEX
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<I->    /d032/d032/d033/d071    LATIN CAPITAL LETTER I WITH MACRON
<I.>    /d032/d032/d033/d072    LATIN CAPITAL LETTER I WITH DOT ABOVE
<’0>    /d032/d032/d033/d074    RING ABOVE
<HB>    /d032/d032/d033/d080    HORIZONTAL BAR
<g.>    /d032/d032/d033/d081    LATIN SMALL LETTER G WITH DOT ABOVE
<g,>    /d032/d032/d033/d082    LATIN SMALL LETTER G WITH CEDILLA
<h/>>   /d032/d032/d033/d083    LATIN SMALL LETTER H WITH CIRCUMFLEX
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<Md>    /d032/d032/d033/d085    MUSIC NOTE
<i?>    /d032/d032/d033/d086    LATIN SMALL LETTER I WITH TILDE
<i->    /d032/d032/d033/d087    LATIN SMALL LETTER I WITH MACRON
<18>    /d032/d032/d033/d092    VULGAR FRACTION ONE EIGHTH
<38>    /d032/d032/d033/d093    VULGAR FRACTION THREE EIGHTHS
<58>    /d032/d032/d033/d094    VULGAR FRACTION FIVE EIGHTHS
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<J/>>    /d032/d032/d033/d098    LATIN CAPITAL LETTER J WITH CIRCUMFLEX
<K,>     /d032/d032/d033/d099    LATIN CAPITAL LETTER K WITH CEDILLA
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<L.>     /d032/d032/d033/d103    LATIN CAPITAL LETTER L WITH MIDDLE DOT
<L,>     /d032/d032/d033/d104    LATIN CAPITAL LETTER L WITH CEDILLA
<N,>     /d032/d032/d033/d105    LATIN CAPITAL LETTER N WITH CEDILLA
<OE>     /d032/d032/d033/d106    LATIN CAPITAL LIGATURE OE
<O->     /d032/d032/d033/d107    LATIN CAPITAL LETTER O WITH MACRON
<T//>    /d032/d032/d033/d109    LATIN CAPITAL LETTER T WITH STROKE
<NG>     /d032/d032/d033/d110    LATIN CAPITAL LETTER ENG (Lappish)
<’n>     /d032/d032/d033/d111    LATIN SMALL LETTER N PRECEDED BY APOSTROPHE
<kk>     /d032/d032/d033/d112    LATIN SMALL LETTER KRA (Greenlandic)
<i;>     /d032/d032/d033/d113    LATIN SMALL LETTER I WITH OGONEK
<j/>>    /d032/d032/d033/d114    LATIN SMALL LETTER J WITH CIRCUMFLEX
<k,>     /d032/d032/d033/d115    LATIN SMALL LETTER K WITH CEDILLA
<h//>    /d032/d032/d033/d116    LATIN SMALL LETTER H WITH STROKE
<i.>     /d032/d032/d033/d117    LATIN SMALL LETTER I WITH NO DOT
<ij>     /d032/d032/d033/d118    LATIN SMALL LIGATURE IJ
<l.>     /d032/d032/d033/d119    LATIN SMALL LETTER L WITH MIDDLE DOT
<l,>     /d032/d032/d033/d120    LATIN SMALL LETTER L WITH CEDILLA
<n,>     /d032/d032/d033/d121    LATIN SMALL LETTER N WITH CEDILLA
<oe>     /d032/d032/d033/d122    LATIN SMALL LIGATURE OE
<o->     /d032/d032/d033/d123    LATIN SMALL LETTER O WITH MACRON
<t//>    /d032/d032/d033/d125    LATIN SMALL LETTER T WITH STROKE
<ng>     /d032/d032/d033/d126    LATIN SMALL LETTER ENG
<A;>     /d032/d032/d033/d161    LATIN CAPITAL LETTER A WITH OGONEK
<’(>     /d032/d032/d033/d162    BREVE
<L//>    /d032/d032/d033/d163    LATIN CAPITAL LETTER L WITH STROKE
<L<>     /d032/d032/d033/d165    LATIN CAPITAL LETTER L WITH CARON
<S’>     /d032/d032/d033/d166    LATIN CAPITAL LETTER S WITH ACUTE
<S/>>    /d032/d032/d033/d168    LATIN CAPITAL LETTER S WITH CIRCUMFLEX
<S<>     /d032/d032/d033/d169    LATIN CAPITAL LETTER S WITH CARON
<S,>     /d032/d032/d033/d170    LATIN CAPITAL LETTER S WITH CEDILLA
<T<>     /d032/d032/d033/d171    LATIN CAPITAL LETTER T WITH CARON
<Z’>     /d032/d032/d033/d172    LATIN CAPITAL LETTER Z WITH ACUTE
<Z<>     /d032/d032/d033/d174    LATIN CAPITAL LETTER Z WITH CARON
<Z.>     /d032/d032/d033/d175    LATIN CAPITAL LETTER Z WITH DOT ABOVE
<a;>     /d032/d032/d033/d177    LATIN SMALL LETTER A WITH OGONEK
<’;>     /d032/d032/d033/d178    OGONEK
<l//>    /d032/d032/d033/d179    LATIN SMALL LETTER L WITH STROKE
<l<>     /d032/d032/d033/d181    LATIN SMALL LETTER L WITH CARON
<s’>     /d032/d032/d033/d182    LATIN SMALL LETTER S WITH ACUTE
<’<>     /d032/d032/d033/d183    CARON
<s/>>    /d032/d032/d033/d184    LATIN SMALL LETTER S WITH CIRCUMFLEX
<s<>     /d032/d032/d033/d185    LATIN SMALL LETTER S WITH CARON
<s,>     /d032/d032/d033/d186    LATIN SMALL LETTER S WITH CEDILLA
<t<>     /d032/d032/d033/d187    LATIN SMALL LETTER T WITH CARON
<z’>     /d032/d032/d033/d188    LATIN SMALL LETTER Z WITH ACUTE
<’">     /d032/d032/d033/d189    DOUBLE ACUTE ACCENT
<z<>     /d032/d032/d033/d190    LATIN SMALL LETTER Z WITH CARON
<z.>     /d032/d032/d033/d191    LATIN SMALL LETTER Z WITH DOT ABOVE
<R’>     /d032/d032/d033/d192    LATIN CAPITAL LETTER R WITH ACUTE
<R,>     /d032/d032/d033/d193    LATIN CAPITAL LETTER R WITH CEDILLA
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<A(>    /d032/d032/d033/d195    LATIN CAPITAL LETTER A WITH BREVE
<L'>    /d032/d032/d033/d197    LATIN CAPITAL LETTER L WITH ACUTE
<C'>    /d032/d032/d033/d198    LATIN CAPITAL LETTER C WITH ACUTE
<C<>    /d032/d032/d033/d200    LATIN CAPITAL LETTER C WITH CARON
<E;>    /d032/d032/d033/d202    LATIN CAPITAL LETTER E WITH OGONEK
<E<>    /d032/d032/d033/d204    LATIN CAPITAL LETTER E WITH CARON
<D<>    /d032/d032/d033/d207    LATIN CAPITAL LETTER D WITH CARON
<D//>   /d032/d032/d033/d208    LATIN CAPITAL LETTER D WITH STROKE
<N'>    /d032/d032/d033/d209    LATIN CAPITAL LETTER N WITH ACUTE
<N<>    /d032/d032/d033/d210    LATIN CAPITAL LETTER N WITH CARON
<U?>    /d032/d032/d033/d212    LATIN CAPITAL LETTER U WITH TILDE
<O">    /d032/d032/d033/d213    LATIN CAPITAL LETTER O WITH DOUBLE ACUTE
<U->    /d032/d032/d033/d214    LATIN CAPITAL LETTER U WITH MACRON
<U(>    /d032/d032/d033/d215    LATIN CAPITAL LETTER U WITH BREVE
<R<>    /d032/d032/d033/d216    LATIN CAPITAL LETTER R WITH CARON
<U0>    /d032/d032/d033/d217    LATIN CAPITAL LETTER U WITH RING ABOVE        1
<U;>    /d032/d032/d033/d218    LATIN CAPITAL LETTER U WITH OGONEK
<U">    /d032/d032/d033/d219    LATIN CAPITAL LETTER U WITH DOUBLE ACUTE
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<Y/>>   /d032/d032/d033/d221    LATIN CAPITAL LETTER Y WITH CIRCUMFLEX
<T,>    /d032/d032/d033/d222    LATIN CAPITAL LETTER T WITH CEDILLA
<Y:>    /d032/d032/d033/d223    LATIN CAPITAL LETTER Y WITH DIAERESIS
<r'>    /d032/d032/d033/d224    LATIN SMALL LETTER R WITH ACUTE
<r,>    /d032/d032/d033/d225    LATIN SMALL LETTER R WITH CEDILLA
<a(>    /d032/d032/d033/d227    LATIN SMALL LETTER A WITH BREVE
<l'>    /d032/d032/d033/d229    LATIN SMALL LETTER L WITH ACUTE
<c'>    /d032/d032/d033/d230    LATIN SMALL LETTER C WITH ACUTE
<c<>    /d032/d032/d033/d232    LATIN SMALL LETTER C WITH CARON
<e;>    /d032/d032/d033/d234    LATIN SMALL LETTER E WITH OGONEK
<e<>    /d032/d032/d033/d236    LATIN SMALL LETTER E WITH CARON
<d<>    /d032/d032/d033/d239    LATIN SMALL LETTER D WITH CARON
<d//>   /d032/d032/d033/d240    LATIN SMALL LETTER D WITH STROKE
<n'>    /d032/d032/d033/d241    LATIN SMALL LETTER N WITH ACUTE
<n<>    /d032/d032/d033/d242    LATIN SMALL LETTER N WITH CARON
<u?>    /d032/d032/d033/d244    LATIN SMALL LETTER U WITH TILDE
<o">    /d032/d032/d033/d245    LATIN SMALL LETTER O WITH DOUBLE ACUTE
<u->    /d032/d032/d033/d246    LATIN SMALL LETTER U WITH MACRON
<u(>    /d032/d032/d033/d247    LATIN SMALL LETTER U WITH BREVE
<r<>    /d032/d032/d033/d248    LATIN SMALL LETTER R WITH CARON
<u0>    /d032/d032/d033/d249    LATIN SMALL LETTER U WITH RING ABOVE          1
<u;>    /d032/d032/d033/d250    LATIN SMALL LETTER U WITH OGONEK
<u">    /d032/d032/d033/d251    LATIN SMALL LETTER U WITH DOUBLE ACUTE
<w/>>   /d032/d032/d033/d252    LATIN SMALL LETTER W WITH CIRCUMFLEX
<y/>>   /d032/d032/d033/d253    LATIN SMALL LETTER Y WITH CIRCUMFLEX
<t,>    /d032/d032/d033/d254    LATIN SMALL LETTER T WITH CEDILLA
<'.>    /d032/d032/d033/d255    DOT ABOVE
<a<>    /d032/d032/d034/d032    LATIN SMALL LETTER A WITH CARON
<A<>    /d032/d032/d034/d033    LATIN CAPITAL LETTER A WITH CARON
<a_>    /d032/d032/d034/d034    LATIN SMALL LETTER A WITH LINE BELOW
<A_>    /d032/d032/d034/d035    LATIN CAPITAL LETTER A WITH LINE BELOW
<'a>    /d032/d032/d034/d048    LATIN SMALL LETTER A PRECEDED BY APOSTROPHE
<'A>    /d032/d032/d034/d049    LATIN CAPITAL LETTER A PRECEDED BY APOSTROPHE
<a1>    /d032/d032/d034/d052    LATIN SMALL LETTER A WITH MACRON AND DIAERESIS
<A1>    /d032/d032/d034/d053    LATIN CAPITAL LETTER A WITH MACRON AND DIAERESIS
<a2>    /d032/d032/d034/d054    LATIN SMALL LETTER A WITH MACRON AND DOT ABOVE
<A2>    /d032/d032/d034/d055    LATIN CAPITAL LETTER A WITH MACRON AND DOT ABOVE
<a3>    /d032/d032/d034/d056    LATIN SMALL LETTER AE WITH MACRON
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<A3>    /d032/d032/d034/d057    LATIN CAPITAL LETTER AE WITH MACRON
<b.>    /d032/d032/d034/d086    LATIN SMALL LETTER B WITH DOT ABOVE
<B.>    /d032/d032/d034/d087    LATIN CAPITAL LETTER B WITH DOT ABOVE
<b_>    /d032/d032/d034/d088    LATIN SMALL LETTER B WITH LINE BELOW
<B_>    /d032/d032/d034/d089    LATIN CAPITAL LETTER B WITH LINE BELOW
<d_>    /d032/d032/d034/d096    LATIN SMALL LETTER D WITH LINE BELOW
<D_>    /d032/d032/d034/d097    LATIN CAPITAL LETTER D WITH LINE BELOW
<d.>    /d032/d032/d034/d098    LATIN SMALL LETTER D WITH DOT BELOW
<D.>    /d032/d032/d034/d099    LATIN CAPITAL LETTER D WITH DOT BELOW
<d;>    /d032/d032/d034/d100    LATIN SMALL LETTER D WITH OGONEK
<D;>    /d032/d032/d034/d101    LATIN CAPITAL LETTER D WITH OGONEK
<e(>    /d032/d032/d034/d106    LATIN SMALL LETTER E WITH BREVE
<E(>    /d032/d032/d034/d107    LATIN CAPITAL LETTER E WITH BREVE
<e_>    /d032/d032/d034/d108    LATIN SMALL LETTER E WITH LINE BELOW
<E_>    /d032/d032/d034/d109    LATIN CAPITAL LETTER E WITH LINE BELOW
<;S>    /d032/d032/d034/d126    HIGH OGONEK
<e?>    /d032/d032/d034/d168    LATIN SMALL LETTER E WITH TILDE
<E?>    /d032/d032/d034/d169    LATIN CAPITAL LETTER E WITH TILDE
<f.>    /d032/d032/d034/d180    LATIN SMALL LETTER F WITH DOT ABOVE
<F.>    /d032/d032/d034/d181    LATIN CAPITAL LETTER F WITH DOT ABOVE
<g<>    /d032/d032/d034/d182    LATIN SMALL LETTER G WITH CARON
<G<>    /d032/d032/d034/d183    LATIN CAPITAL LETTER G WITH CARON
<g->    /d032/d032/d034/d184    LATIN SMALL LETTER G WITH MACRON
<G->    /d032/d032/d034/d185    LATIN CAPITAL LETTER G WITH MACRON
<g//>   /d032/d032/d034/d188    LATIN SMALL LETTER G WITH STROKE
<G//>   /d032/d032/d034/d189    LATIN CAPITAL LETTER G WITH STROKE
<h:>    /d032/d032/d034/d192    LATIN SMALL LETTER H WITH DIAERESIS
<H:>    /d032/d032/d034/d193    LATIN CAPITAL LETTER H WITH DIAERESIS
<h.>    /d032/d032/d034/d194    LATIN SMALL LETTER H WITH DOT ABOVE
<H.>    /d032/d032/d034/d195    LATIN CAPITAL LETTER H WITH DOT ABOVE
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<H,>    /d032/d032/d034/d197    LATIN CAPITAL LETTER H WITH CEDILLA
<h;>    /d032/d032/d034/d198    LATIN SMALL LETTER H WITH OGONEK
<H;>    /d032/d032/d034/d199    LATIN CAPITAL LETTER H WITH OGONEK
<i<>    /d032/d032/d034/d204    LATIN SMALL LETTER I WITH CARON
<I<>    /d032/d032/d034/d205    LATIN CAPITAL LETTER I WITH CARON
<i(>    /d032/d032/d034/d206    LATIN SMALL LETTER I WITH BREVE
<I(>    /d032/d032/d034/d207    LATIN CAPITAL LETTER I WITH BREVE
<j(>    /d032/d032/d034/d224    LATIN SMALL LETTER J WITH BREVE
<J(>    /d032/d032/d034/d225    LATIN CAPITAL LETTER J WITH BREVE
<k'>    /d032/d032/d034/d226    LATIN SMALL LETTER K WITH ACUTE
<K'>    /d032/d032/d034/d227    LATIN CAPITAL LETTER K WITH ACUTE
<k<>    /d032/d032/d034/d228    LATIN SMALL LETTER K WITH CARON
<K<>    /d032/d032/d034/d229    LATIN CAPITAL LETTER K WITH CARON
<k_>    /d032/d032/d034/d230    LATIN SMALL LETTER K WITH LINE BELOW
<K_>    /d032/d032/d034/d231    LATIN CAPITAL LETTER K WITH LINE BELOW
<k.>    /d032/d032/d034/d232    LATIN SMALL LETTER K WITH DOT BELOW
<K.>    /d032/d032/d034/d233    LATIN CAPITAL LETTER K WITH DOT BELOW
<k;>    /d032/d032/d034/d234    LATIN SMALL LETTER K WITH OGONEK
<K;>    /d032/d032/d034/d235    LATIN CAPITAL LETTER K WITH OGONEK
<l_>    /d032/d032/d034/d240    LATIN SMALL LETTER L WITH LINE BELOW
<L_>    /d032/d032/d034/d241    LATIN CAPITAL LETTER L WITH LINE BELOW
<m'>    /d032/d032/d034/d248    LATIN SMALL LETTER M WITH ACUTE
<M'>    /d032/d032/d034/d249    LATIN CAPITAL LETTER M WITH ACUTE
<m.>    /d032/d032/d034/d250    LATIN SMALL LETTER M WITH DOT ABOVE
<M.>    /d032/d032/d034/d251    LATIN CAPITAL LETTER M WITH DOT ABOVE
<n.>    /d032/d032/d035/d034    LATIN SMALL LETTER N WITH DOT ABOVE
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<N.>    /d032/d032/d035/d035    LATIN CAPITAL LETTER N WITH DOT ABOVE
<n_>    /d032/d032/d035/d038    LATIN SMALL LETTER N WITH LINE BELOW
<N_>    /d032/d032/d035/d039    LATIN CAPITAL LETTER N WITH LINE BELOW
<o<>    /d032/d032/d035/d046    LATIN SMALL LETTER O WITH CARON
<O<>    /d032/d032/d035/d047    LATIN CAPITAL LETTER O WITH CARON
<o(>    /d032/d032/d035/d048    LATIN SMALL LETTER O WITH BREVE
<O(>    /d032/d032/d035/d049    LATIN CAPITAL LETTER O WITH BREVE
<o_>    /d032/d032/d035/d050    LATIN SMALL LETTER O WITH LINE BELOW
<O_>    /d032/d032/d035/d051    LATIN CAPITAL LETTER O WITH LINE BELOW
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<O;>    /d032/d032/d035/d065    LATIN CAPITAL LETTER O WITH OGONEK
<o1>    /d032/d032/d035/d068    LATIN SMALL LETTER O WITH MACRON AND OGONEK
<O1>    /d032/d032/d035/d069    LATIN CAPITAL LETTER O WITH MACRON AND OGONEK
<p'>    /d032/d032/d035/d098    LATIN SMALL LETTER P WITH ACUTE
<P'>    /d032/d032/d035/d099    LATIN CAPITAL LETTER P WITH ACUTE
<r.>    /d032/d032/d035/d100    LATIN SMALL LETTER R WITH DOT ABOVE
<R.>    /d032/d032/d035/d101    LATIN CAPITAL LETTER R WITH DOT ABOVE
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<R_>    /d032/d032/d035/d103    LATIN CAPITAL LETTER R WITH LINE BELOW
<s.>    /d032/d032/d035/d110    LATIN SMALL LETTER S WITH DOT ABOVE
<S.>    /d032/d032/d035/d111    LATIN CAPITAL LETTER S WITH DOT ABOVE
<s;>    /d032/d032/d035/d114    LATIN SMALL LETTER S WITH OGONEK
<S;>    /d032/d032/d035/d115    LATIN CAPITAL LETTER S WITH OGONEK
<t_>    /d032/d032/d035/d160    LATIN SMALL LETTER T WITH LINE BELOW
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<t.>    /d032/d032/d035/d162    LATIN SMALL LETTER T WITH DOT BELOW
<T.>    /d032/d032/d035/d163    LATIN CAPITAL LETTER T WITH DOT BELOW
<u<>    /d032/d032/d035/d170    LATIN SMALL LETTER U WITH CARON
<U<>    /d032/d032/d035/d171    LATIN CAPITAL LETTER U WITH CARON
<v?>    /d032/d032/d035/d214    LATIN SMALL LETTER V WITH TILDE
<V?>    /d032/d032/d035/d215    LATIN CAPITAL LETTER V WITH TILDE
<w'>    /d032/d032/d035/d220    LATIN SMALL LETTER W WITH ACUTE
<W'>    /d032/d032/d035/d221    LATIN CAPITAL LETTER W WITH ACUTE
<w.>    /d032/d032/d035/d222    LATIN SMALL LETTER W WITH DOT ABOVE
<W.>    /d032/d032/d035/d223    LATIN CAPITAL LETTER W WITH DOT ABOVE
<w:>    /d032/d032/d035/d224    LATIN SMALL LETTER W WITH DIAERESIS
<W:>    /d032/d032/d035/d225    LATIN CAPITAL LETTER W WITH DIAERESIS
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<X.>    /d032/d032/d035/d231    LATIN CAPITAL LETTER X WITH DOT ABOVE
<x:>    /d032/d032/d035/d232    LATIN SMALL LETTER X WITH DIAERESIS
<X:>    /d032/d032/d035/d233    LATIN CAPITAL LETTER X WITH DIAERESIS
<y!>    /d032/d032/d035/d236    LATIN SMALL LETTER Y WITH GRAVE
<Y!>    /d032/d032/d035/d237    LATIN CAPITAL LETTER Y WITH GRAVE
<y.>    /d032/d032/d035/d238    LATIN SMALL LETTER Y WITH DOT ABOVE
<Y.>    /d032/d032/d035/d239    LATIN CAPITAL LETTER Y WITH DOT ABOVE
<z/>>   /d032/d032/d035/d244    LATIN SMALL LETTER Z WITH CIRCUMFLEX
<Z/>>   /d032/d032/d035/d245    LATIN CAPITAL LETTER Z WITH CIRCUMFLEX
<z(>    /d032/d032/d035/d246    LATIN SMALL LETTER Z WITH BREVE
<Z(>    /d032/d032/d035/d247    LATIN CAPITAL LETTER Z WITH BREVE
<z_>    /d032/d032/d035/d248    LATIN SMALL LETTER Z WITH LINE BELOW
<Z_>    /d032/d032/d035/d249    LATIN CAPITAL LETTER Z WITH LINE BELOW
<z//>   /d032/d032/d035/d252    LATIN SMALL LETTER Z WITH STROKE
<Z//>   /d032/d032/d035/d253    LATIN CAPITAL LETTER Z WITH STROKE
<ez>    /d032/d032/d035/d254    LATIN SMALL LETTER EZH WITH CARON
<EZ>    /d032/d032/d035/d255    LATIN CAPITAL LETTER EZH WITH CARON
<g'>    /d032/d032/d036/d033    LATIN SMALL LETTER G WITH ACUTE
<G'>    /d032/d032/d036/d034    LATIN CAPITAL LETTER G WITH ACUTE
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<'b>    /d032/d032/d036/d084    LATIN SMALL LETTER B PRECEDED BY APOSTROPHE
<'B>    /d032/d032/d036/d085    LATIN CAPITAL LETTER B PRECEDED BY APOSTROPHE
<'d>    /d032/d032/d036/d096    LATIN SMALL LETTER D PRECEDED BY APOSTROPHE
<'D>    /d032/d032/d036/d097    LATIN CAPITAL LETTER D PRECEDED BY APOSTROPHE
<'g>    /d032/d032/d036/d162    LATIN SMALL LETTER G PRECEDED BY APOSTROPHE
<'G>    /d032/d032/d036/d163    LATIN CAPITAL LETTER G PRECEDED BY APOSTROPHE
<'j>    /d032/d032/d036/d174    LATIN SMALL LETTER J PRECEDED BY APOSTROPHE
<'J>    /d032/d032/d036/d175    LATIN CAPITAL LETTER J PRECEDED BY APOSTROPHE
<'y>    /d032/d032/d036/d235    LATIN SMALL LETTER Y PRECEDED BY APOSTROPHE
<'Y>    /d032/d032/d036/d236    LATIN CAPITAL LETTER Y PRECEDED BY APOSTROPHE
<ed>    /d032/d032/d036/d239    LATIN SMALL LETTER EDZ
<ED>    /d032/d032/d036/d240    LATIN CAPITAL LETTER EDZ
<Vs>    /d032/d032/d037/d032    SPACE SYMBOL
<1M>    /d032/d032/d037/d033    EM-SPACE
<1N>    /d032/d032/d037/d034    EN-SPACE
<3M>    /d032/d032/d037/d035    THREE-PER-EM SPACE
<4M>    /d032/d032/d037/d036    FOUR-PER-EM SPACE
<6M>    /d032/d032/d037/d037    SIX-PER-EM SPACE
<1H>    /d032/d032/d037/d038    HAIR SPACE
<1T>    /d032/d032/d037/d039    THIN SPACE
<-1>    /d032/d032/d037/d040    HYPHEN
<-N>    /d032/d032/d037/d041    EN-DASH
<-2>    /d032/d032/d037/d042    MINUS SIGN
<-M>    /d032/d032/d037/d043    EM-DASH
<-3>    /d032/d032/d037/d044    QUOTATION DASH
<'1>    /d032/d032/d037/d045    SINGLE PRIME
<'2>    /d032/d032/d037/d046    DOUBLE PRIME
<'3>    /d032/d032/d037/d047    TRIPLE PRIME
<9'>    /d032/d032/d037/d048    SINGLE HIGH-REVERSED-9 QUOTATION MARK
<9">    /d032/d032/d037/d049    DOUBLE HIGH-REVERSED-9 QUOTATION MARK
<.9>    /d032/d032/d037/d050    SINGLE LOW-9 QUOTATION MARK
<:9>    /d032/d032/d037/d051    DOUBLE LOW-9 QUOTATION MARK
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</>1>   /d032/d032/d037/d053    SINGLE RIGHT-POINTING ANGLE QUOTATION MARK
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<///>>  /d032/d032/d037/d055    RIGHT-POINTING ANGLE BRACKET
<15>    /d032/d032/d037/d056    VULGAR FRACTION ONE FIFTH
<25>    /d032/d032/d037/d057    VULGAR FRACTION TWO FIFTHS
<35>    /d032/d032/d037/d058    VULGAR FRACTION THREE FIFTHS
<45>    /d032/d032/d037/d059    VULGAR FRACTION FOUR FIFTHS
<16>    /d032/d032/d037/d060    VULGAR FRACTION ONE SIXTH
<13>    /d032/d032/d037/d061    VULGAR FRACTION ONE THIRD
<23>    /d032/d032/d037/d062    VULGAR FRACTION TWO THIRDS
<56>    /d032/d032/d037/d063    VULGAR FRACTION FIVE SIXTHS
<*->    /d032/d032/d037/d064    MIDDLE ASTERISK
<//->   /d032/d032/d037/d065    DAGGER
<//=>   /d032/d032/d037/d066    DOUBLE-DAGGER
<-X>    /d032/d032/d037/d067    MALTESE CROSS
<%0>    /d032/d032/d037/d068    PER-MILLE SIGN
<co>    /d032/d032/d037/d069    CARE-OF SIGN
<PO>    /d032/d032/d037/d070    SOUND RECORDING COPYRIGHT SIGN
<Rx>    /d032/d032/d037/d071    PRESCRIPTION SIGN
<AO>    /d032/d032/d037/d072    ANGSTROEM SIGN
<oC>    /d032/d032/d037/d073    CENTIGRADE DEGREE SIGN
<Ml>    /d032/d032/d037/d074    MALE SIGN
<Fm>    /d032/d032/d037/d075    FEMALE SIGN
<Tl>    /d032/d032/d037/d076    TELEPHONE SIGN
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<Mb>	/d032/d032/d037/d079	MUSICAL FLAT SIGN
<Mx>	/d032/d032/d037/d080	MUSICAL NATURAL SIGN
<XX>	/d032/d032/d037/d081	BALLOT CROSS SIGN
<OK>	/d032/d032/d037/d082	CHECK MARK
<M2>	/d032/d032/d037/d083	DOUBLE MUSICAL NOTES
<!2>	/d032/d032/d037/d084	DOUBLE EXCLAMATION MARKS
<=2>	/d032/d032/d037/d085	DOUBLE LOW LINE
<Ca>	/d032/d032/d037/d086	CARET
<..>	/d032/d032/d037/d087	TWO-DOT LEADER
<.3>	/d032/d032/d037/d088	HORIZONTAL ELLIPSIS
<:3>	/d032/d032/d037/d089	VERTICAL ELLIPSIS
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<-+>	/d032/d032/d037/d092	MINUS-PLUS SIGN
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<-V>	/d032/d032/d037/d106	ANGLE SIGN
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<OR>	/d032/d032/d037/d108	LOGICAL-OR SIGN
<.P>	/d032/d032/d037/d109	PRODUCT DOT SIGN
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<dP>	/d032/d032/d037/d111	PARTIAL DIFFERENTIAL SIGN
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<RT>	/d032/d032/d037/d117	RADICAL SIGN
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<TE>	/d032/d032/d037/d121	THERE-EXISTS SIGN
<GF>	/d032/d032/d037/d122	GAMMA FUNCTION SIGN
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<</>>	/d032/d032/d037/d166	LEFT AND RIGHT-POINTING ARROW
<UD>	/d032/d032/d037/d167	UP AND DOWN-POINTING ARROW
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<0U>    /d032/d032/d037/d177    SMILING FACE BLACK
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<HH>    /d032/d032/d037/d193    BOX DRAWINGS HEAVY HORIZONTAL
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<LD>    /d032/d032/d037/d195    BOX DRAWINGS HEAVY DOWN AND LEFT
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<VL>    /d032/d032/d037/d199    BOX DRAWINGS HEAVY VERTICAL AND LEFT
<DH>    /d032/d032/d037/d200    BOX DRAWINGS HEAVY HORIZONTAL AND DOWN
<UH>    /d032/d032/d037/d201    BOX DRAWINGS HEAVY HORIZONTAL AND UP
<VH>    /d032/d032/d037/d202    BOX DRAWINGS HEAVY VERTICAL AND HORIZONTAL
<TB>    /d032/d032/d037/d203    BOX DRAWING SOLID UPPER HALF BLOCK
<LB>    /d032/d032/d037/d204    BOX DRAWING SOLID LOWER HALF BLOCK
<FB>    /d032/d032/d037/d205    BOX DRAWING SOLID FULL BLOCK
<sB>    /d032/d032/d037/d206    BOX DRAWING SOLID SMALL SQUARE
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<vv>    /d032/d032/d037/d208    BOX DRAWINGS LIGHT VERTICAL
<hh>    /d032/d032/d037/d209    BOX DRAWINGS LIGHT HORIZONTAL
<dr>    /d032/d032/d037/d210    BOX DRAWINGS LIGHT DOWN AND RIGHT
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<vl>    /d032/d032/d037/d215    BOX DRAWINGS LIGHT VERTICAL AND LEFT
<dh>    /d032/d032/d037/d216    BOX DRAWINGS LIGHT HORIZONTAL AND DOWN
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<.S>    /d032/d032/d037/d219    BOX DRAWING LIGHT SHADE (25%)
<:S>    /d032/d032/d037/d220    BOX DRAWING MEDIUM SHADE (50%)
<?S>    /d032/d032/d037/d221    BOX DRAWING DARK SHADE (75%)
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<RB>    /d032/d032/d037/d223    BOX DRAWING SOLID RIGHT HALF BLOCK
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<cD>    /d032/d032/d037/d225    DIAMOND SYMBOL
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<Dl>    /d032/d032/d037/d227    BOX DRAWINGS DOWN HEAVY AND LEFT LIGHT
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<Ul>    /d032/d032/d037/d229    BOX DRAWINGS UP HEAVY AND LEFT LIGHT
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<Vl>    /d032/d032/d037/d231    BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT
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<Sb>    /d032/d032/d037/d236    CIRCLE BULLET SOLID
<Sn>    /d032/d032/d037/d237    CIRCLE BULLET NEGATIVE
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<cS>    /d032/d032/d037/d241    SPADE SYMBOL
<dR>    /d032/d032/d037/d242    BOX DRAWINGS DOWN LIGHT AND RIGHT HEAVY
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<0M>    /d032/d032/d037/d252    MEDIUM CIRCLE SOLID
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<Ci>    /d032/d032/d038/d037    CIRCLE
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</>V>   /d032/d032/d038/d046    RIGHTWARDS VECTOR ABOVE
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<*/>>   /d032/d032/d038/d072    MUCH-GREATER-THAN SIGN
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<BD>    /d032/d032/d038/d225    BACKWARD DIAGONAL
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<2R>    /d032/d032/d039/d033    ROMAN NUMERAL TWO
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<4R>    /d032/d032/d039/d035    ROMAN NUMERAL FOUR
<5R>    /d032/d032/d039/d036    ROMAN NUMERAL FIVE
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<aR>    /d032/d032/d039/d041    ROMAN NUMERAL TEN
<bR>    /d032/d032/d039/d042    ROMAN NUMERAL ELEVEN
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<G%>    /d032/d032/d040/d163    CYRILLIC CAPITAL LETTER GJE (Macedonian)
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<DS>    /d032/d032/d040/d165    CYRILLIC CAPITAL LETTER DZE (Macedonian)
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<YI>    /d032/d032/d040/d167    CYRILLIC CAPITAL LETTER YI (Ukrainian)
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<Ts>    /d032/d032/d040/d171    CYRILLIC CAPITAL LETTER TSHE (Serbocroatian)
<KJ>    /d032/d032/d040/d172    CYRILLIC CAPITAL LETTER KJE (Macedonian)
<V%>    /d032/d032/d040/d174    CYRILLIC CAPITAL LETTER SHORT U (Byelorussian)
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<z=>    /d032/d032/d040/d215    CYRILLIC SMALL LETTER ZE
<i=>    /d032/d032/d040/d216    CYRILLIC SMALL LETTER I
<j=>    /d032/d032/d040/d217    CYRILLIC SMALL LETTER SHORT I
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<o=>    /d032/d032/d040/d222    CYRILLIC SMALL LETTER O
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<r=>    /d032/d032/d040/d224    CYRILLIC SMALL LETTER ER
<s=>    /d032/d032/d040/d225    CYRILLIC SMALL LETTER ES
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<d%>    /d032/d032/d040/d242    CYRILLIC SMALL LETTER DJE (Serbocroatian)
<g%>    /d032/d032/d040/d243    CYRILLIC SMALL LETTER GJE (Macedonian)
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<ii>    /d032/d032/d040/d246    CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I
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<nj>    /d032/d032/d040/d250    CYRILLIC SMALL LETTER NJE
<ts>    /d032/d032/d040/d251    CYRILLIC SMALL LETTER TSHE (Serbocroatian)
<kj>    /d032/d032/d040/d252    CYRILLIC SMALL LETTER KJE (Macedonian)
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<I3>    /d032/d032/d042/d176    GREEK CAPITAL LETTER IOTA WITH PERISPOMENI
#                               AND PSILI
<'%>    /d032/d032/d042/d181    ACUTE ACCENT AND DIAERESIS (Tonos and Dialytica)
<A%>    /d032/d032/d042/d182    GREEK CAPITAL LETTER ALPHA WITH ACUTE
<E%>    /d032/d032/d042/d184    GREEK CAPITAL LETTER EPSILON WITH ACUTE
<Y%>    /d032/d032/d042/d185    GREEK CAPITAL LETTER ETA WITH ACUTE
<I%>    /d032/d032/d042/d186    GREEK CAPITAL LETTER IOTA WITH ACUTE
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<O%>    /d032/d032/d042/d188    GREEK CAPITAL LETTER OMICRON WITH ACUTE
<U%>    /d032/d032/d042/d190    GREEK CAPITAL LETTER UPSILON WITH ACUTE
<W%>    /d032/d032/d042/d191    GREEK CAPITAL LETTER OMEGA WITH ACUTE
<A*>    /d032/d032/d042/d193    GREEK CAPITAL LETTER ALPHA
<B*>    /d032/d032/d042/d194    GREEK CAPITAL LETTER BETA
<G*>    /d032/d032/d042/d195    GREEK CAPITAL LETTER GAMMA
<D*>    /d032/d032/d042/d196    GREEK CAPITAL LETTER DELTA
<E*>    /d032/d032/d042/d197    GREEK CAPITAL LETTER EPSILON
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<I*>    /d032/d032/d042/d201    GREEK CAPITAL LETTER IOTA
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<L*>    /d032/d032/d042/d203    GREEK CAPITAL LETTER LAMDA
<M*>    /d032/d032/d042/d204    GREEK CAPITAL LETTER MU
<N*>    /d032/d032/d042/d205    GREEK CAPITAL LETTER NU
<C*>    /d032/d032/d042/d206    GREEK CAPITAL LETTER XI
<O*>    /d032/d032/d042/d207    GREEK CAPITAL LETTER OMICRON
<P*>    /d032/d032/d042/d208    GREEK CAPITAL LETTER PI
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<Q*>    /d032/d032/d042/d216    GREEK CAPITAL LETTER PSI
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<?+>    /d032/d032/d044/d191    ARABIC QUESTION MARK
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<t+>    /d032/d032/d044/d202    ARABIC LETTER TEH
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<j+>    /d032/d032/d044/d233    ARABIC LETTER ALEF MAKSURA
<y+>    /d032/d032/d044/d234    ARABIC LETTER YEH
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<)">     /d032/d032/d046/d049    RIGHT BOLDFACE SQUARE BRACKET
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<o6>    /d032/d032/d047/d169    KATAKANA LETTER SMALL O
<O6>    /d032/d032/d047/d170    KATAKANA LETTER O
<Ka>    /d032/d032/d047/d171    KATAKANA LETTER KA
<Ga>    /d032/d032/d047/d172    KATAKANA LETTER GA
<Ki>    /d032/d032/d047/d173    KATAKANA LETTER KI
<Gi>    /d032/d032/d047/d174    KATAKANA LETTER GI
<Ku>    /d032/d032/d047/d175    KATAKANA LETTER KU
<Gu>    /d032/d032/d047/d176    KATAKANA LETTER GU
<Ke>    /d032/d032/d047/d177    KATAKANA LETTER KE
<Ge>    /d032/d032/d047/d178    KATAKANA LETTER GE
<Ko>    /d032/d032/d047/d179    KATAKANA LETTER KO
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<Sa>    /d032/d032/d047/d181    KATAKANA LETTER SA
<Za>    /d032/d032/d047/d182    KATAKANA LETTER ZA
<Si>    /d032/d032/d047/d183    KATAKANA LETTER SI
<Zi>    /d032/d032/d047/d184    KATAKANA LETTER ZI
<Su>    /d032/d032/d047/d185    KATAKANA LETTER SU
<Zu>    /d032/d032/d047/d186    KATAKANA LETTER ZU
<Se>    /d032/d032/d047/d187    KATAKANA LETTER SE
<Ze>    /d032/d032/d047/d188    KATAKANA LETTER ZE
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<Zo>    /d032/d032/d047/d190    KATAKANA LETTER ZO
<Ta>    /d032/d032/d047/d191    KATAKANA LETTER TA
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<Ti>    /d032/d032/d047/d193    KATAKANA LETTER TI
<Di>    /d032/d032/d047/d194    KATAKANA LETTER DI
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<Du>    /d032/d032/d047/d197    KATAKANA LETTER DU
<Te>    /d032/d032/d047/d198    KATAKANA LETTER TE
<De>    /d032/d032/d047/d199    KATAKANA LETTER DE
<To>    /d032/d032/d047/d200    KATAKANA LETTER TO
<Do>    /d032/d032/d047/d201    KATAKANA LETTER DO
<Na>    /d032/d032/d047/d202    KATAKANA LETTER NA
<Ni>    /d032/d032/d047/d203    KATAKANA LETTER NI
<Nu>    /d032/d032/d047/d204    KATAKANA LETTER NU
<Ne>    /d032/d032/d047/d205    KATAKANA LETTER NE
<No>    /d032/d032/d047/d206    KATAKANA LETTER NO
<Ha>    /d032/d032/d047/d207    KATAKANA LETTER HA
<Ba>    /d032/d032/d047/d208    KATAKANA LETTER BA
<Pa>    /d032/d032/d047/d209    KATAKANA LETTER PA
<Hi>    /d032/d032/d047/d210    KATAKANA LETTER HI
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<Pu>    /d032/d032/d047/d215    KATAKANA LETTER PU
<He>    /d032/d032/d047/d216    KATAKANA LETTER HE
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<Be>    /d032/d032/d047/d217    KATAKANA LETTER BE
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<Po>    /d032/d032/d047/d221    KATAKANA LETTER PO
<Ma>    /d032/d032/d047/d222    KATAKANA LETTER MA
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<Mu>    /d032/d032/d047/d224    KATAKANA LETTER MU
<Me>    /d032/d032/d047/d225    KATAKANA LETTER ME
<Mo>    /d032/d032/d047/d226    KATAKANA LETTER MO
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<Ya>    /d032/d032/d047/d228    KATAKANA LETTER YA
<YU>    /d032/d032/d047/d229    KATAKANA LETTER SMALL YU
<Yu>    /d032/d032/d047/d230    KATAKANA LETTER YU
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<Yo>    /d032/d032/d047/d232    KATAKANA LETTER YO
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<Ri>    /d032/d032/d047/d234    KATAKANA LETTER RI
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<Wo>    /d032/d032/d047/d242    KATAKANA LETTER WO
<N6>    /d032/d032/d047/d243    KATAKANA LETTER N
<Vu>    /d032/d032/d047/d244    KATAKANA LETTER VU
<KA>    /d032/d032/d047/d245    KATAKANA LETTER SMALL KA
<KE>    /d032/d032/d047/d246    KATAKANA LETTER SMALL KE
<-6>    /d032/d032/d047/d252    HIRAGANA-KATAKANA PROLONGED SOUND MARK
<*6>    /d032/d032/d047/d253    KATAKANA ITERATION MARK
<+6>    /d032/d032/d047/d254    KATAKANA VOICED ITERATION MARK
<ff>    /d032/d032/d060/d040    LATIN SMALL LIGATURE FF
<fi>    /d032/d032/d060/d041    LATIN SMALL LIGATURE FI
<fl>    /d032/d032/d060/d042    LATIN SMALL LIGATURE FL
<ft>    /d032/d032/d060/d045    LATIN SMALL LIGATURE FT
<st>    /d032/d032/d060/d046    LATIN SMALL LIGATURE ST
<Iu>    /d032/d032/d060/d048    INTEGRAL SIGN UPPER PART
<Il>    /d032/d032/d060/d049    INTEGRAL SIGN LOWER PART
<NU>    /d000/d128/d128/d128    NULL (NUL)                               1
<SH>    /d001/d128/d128/d128    START OF HEADING (SOH)                   1
<SX>    /d002/d128/d128/d128    START OF TEXT (STX)                      1
<EX>    /d003/d128/d128/d128    END OF TEXT (ETX)                        1
<ET>    /d004/d128/d128/d128    END OF TRANSMISSION (EOT)                1
<EQ>    /d005/d128/d128/d128    ENQUIRY (ENQ)                            1
<AK>    /d006/d128/d128/d128    ACKNOWLEDGE (ACK)                        1
<BL>    /d007/d128/d128/d128    BELL (BEL)                               1
<BS>    /d008/d128/d128/d128    BACKSPACE (BS)                           1
<HT>    /d009/d128/d128/d128    CHARACTER TABULATION (HT)                1
<LF>    /d010/d128/d128/d128    LINE FEED (LF)                           1
<VT>    /d011/d128/d128/d128    LINE TABULATION (VT)                     1
<FF>    /d012/d128/d128/d128    FORM FEED (FF)                           1
<CR>    /d013/d128/d128/d128    CARRIAGE RETURN (CR)                     1
<SO>    /d014/d128/d128/d128    SHIFT OUT (SO)                           1
<SI>    /d015/d128/d128/d128    SHIFT IN (SI)                            1
<DL>    /d016/d128/d128/d128    DATALINK ESCAPE (DLE)                    1
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<D1>    /d017/d128/d128/d128   DEVICE CONTROL ONE (DC1)                          1
<D2>    /d018/d128/d128/d128   DEVICE CONTROL TWO (DC2)                          1
<D3>    /d019/d128/d128/d128   DEVICE CONTROL THREE (DC3)                        1
<D4>    /d020/d128/d128/d128   DEVICE CONTROL FOUR (DC4)                         1
<NK>    /d021/d128/d128/d128   NEGATIVE ACKNOWLEDGE (NAK)                        1
<SY>    /d022/d128/d128/d128   SYNCHRONOUS IDLE (SYN)                            1
<EB>    /d023/d128/d128/d128   END OF TRANSMISSION BLOCK (ETB)                   1
<CN>    /d024/d128/d128/d128   CANCEL (CAN)                                      1
<EM>    /d025/d128/d128/d128   END OF MEDIUM (EM)                                1
<SB>    /d026/d128/d128/d128   SUBSTITUTE (SUB)                                  1
<EC>    /d027/d128/d128/d128   ESCAPE (ESC)                                      1
<FS>    /d028/d128/d128/d128   FILE SEPARATOR (IS4)                              1
<GS>    /d029/d128/d128/d128   GROUP SEPARATOR (IS3)                             1
<RS>    /d030/d128/d128/d128   RECORD SEPARATOR (IS2)                            1
<US>    /d031/d128/d128/d128   UNIT SEPARATOR (IS1)                              1
<DT>    /d127/d128/d128/d128   DELETE (DEL)                                      1
<PA>    /d128/d128/d128/d128   PADDING CHARACTER (PAD)                           1
<HO>    /d129/d128/d128/d128   HIGH OCTET PRESET (HOP)                           1
<BH>    /d130/d128/d128/d128   BREAK PERMITTED HERE (BPH)                        1
<NH>    /d131/d128/d128/d128   NO BREAK HERE (NBH)                               1
<IN>    /d132/d128/d128/d128   INDEX (IND)                                       1
<NL>    /d133/d128/d128/d128   NEXT LINE (NEL)                                   1
<SA>    /d134/d128/d128/d128   START OF SELECTED AREA (SSA)                      1
<ES>    /d135/d128/d128/d128   END OF SELECTED AREA (ESA)                        1
<HS>    /d136/d128/d128/d128   CHARACTER TABULATION SET (HTS)                    1
<HJ>    /d137/d128/d128/d128   CHARACTER TABULATION WITH JUSTIFICATION (HTJ)     1
<VS>    /d138/d128/d128/d128   LINE TABULATION SET (VTS)                         1
<PD>    /d139/d128/d128/d128   PARTIAL LINE FORWARD (PLD)                        1
<PU>    /d140/d128/d128/d128   PARTIAL LINE BACKWARD (PLU)                       1
<RI>    /d141/d128/d128/d128   REVERSE LINE FEED (RI)                            1
<S2>    /d142/d128/d128/d128   SINGLE-SHIFT TWO (SS2)                            1
<S3>    /d143/d128/d128/d128   SINGLE-SHIFT THREE (SS3)                          1
<DC>    /d144/d128/d128/d128   DEVICE CONTROL STRING (DCS)                       1
<P1>    /d145/d128/d128/d128   PRIVATE USE ONE (PU1)                             1
<P2>    /d146/d128/d128/d128   PRIVATE USE TWO (PU2)                             1
<TS>    /d147/d128/d128/d128   SET TRANSMIT STATE (STS)                          1
<CC>    /d148/d128/d128/d128   CANCEL CHARACTER (CCH)                            1
<MW>    /d149/d128/d128/d128   MESSAGE WAITING (MW)                              1
<SG>    /d150/d128/d128/d128   START OF GUARDED AREA (SPA)                       1
<EG>    /d151/d128/d128/d128   END OF GUARDED AREA (EPA)                         1
<SS>    /d152/d128/d128/d128   START OF STRING (SOS)                             1
<GC>    /d153/d128/d128/d128   SINGLE GRAPHIC CHARACTER INTRODUCER (SGCI)        1
<SC>    /d154/d128/d128/d128   SINGLE CHARACTER INTRODUCER (SCI)                 1
<CI>    /d155/d128/d128/d128   CONTROL SEQUENCE INTRODUCER (CSI)                 1
<ST>    /d156/d128/d128/d128   STRING TERMINATOR (ST)                            1
<OC>    /d157/d128/d128/d128   OPERATING SYSTEM COMMAND (OSC)                    1
<PM>    /d158/d128/d128/d128   PRIVACY MESSAGE (PM)                              1
<AC>    /d159/d128/d128/d128   APPLICATION PROGRAM COMMAND (APC)                 1
<__>    /d032/d032/d052/d032   indicates unfinished
<"!>    /d032/d032/d052/d033   NON-SPACING GRAVE ACCENT (ISO IR 70 193)
<"'>    /d032/d032/d052/d034   NON-SPACING ACUTE ACCENT (ISO IR 70 194)
<"/>>   /d032/d032/d052/d035   NON-SPACING CIRCUMFLEX ACCENT (ISO IR 70 195)
<"?>    /d032/d032/d052/d036   NON-SPACING TILDE (ISO IR 70 196)
<"->    /d032/d032/d052/d037   NON-SPACING MACRON (ISO IR 70 197)
<"(>    /d032/d032/d052/d038   NON-SPACING BREVE (ISO IR 70 198)
<".>    /d032/d032/d052/d039   NON-SPACING DOT ABOVE (ISO IR 70 199)
<":>    /d032/d032/d052/d040   NON-SPACING DIAERESIS (ISO IR 70 200)
```

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<"//>   /d032/d032/d052/d041    NON-SPACING SOLIDUS (ISO IR 99 201)
<"0>    /d032/d032/d052/d042    NON-SPACING RING ABOVE (ISO IR 70 202)
<",>    /d032/d032/d052/d043    NON-SPACING CEDILLA (ISO IR 70 203)
<"_>    /d032/d032/d052/d044    NON-SPACING UNDERLINE (ISO IR 99 216)
<"">    /d032/d032/d052/d045    NON-SPACING DOUBLE ACCUTE ACCENT (ISO IR 70 205)
<"<>    /d032/d032/d052/d046    NON-SPACING CARON (ISO IR 70 207)
<";>    /d032/d032/d052/d047    NON-SPACING OGONEK (ISO IR 53 208)
<"=>    /d032/d032/d052/d048    NON-SPACING DOUBLE UNDERLINE (ISO IR 53 217)
<"1>    /d032/d032/d052/d049    NON-SPACING DIAERESIS WITH ACCENT
#                               (ISO IR 70 192)
<"2>    /d032/d032/d052/d050    NON-SPACING UMLAUT (ISO 5426 201)
<Fd>    /d032/d032/d052/d051    FILLED FORWARD DIAGONAL
#                               (ANSI X3.110-1983 218)
<Bd>    /d032/d032/d052/d052    FILLED BACKWARD DIAGONAL
#                               (ANSI X3.110-1983 219)
<Fl>    /d032/d032/d052/d053    Dutch guilder sign (IBM CP 437 159)
<Li>    /d032/d032/d052/d054    Italian Lira sign (HP ROMAN 8 175)
<//f>   /d032/d032/d052/d055    VULGAR FRACTION BAR (MacIntosh 218)
<0s>    /d032/d032/d052/d056    SUBSCRIPT ZERO (ISO IR 50 096)
<1s>    /d032/d032/d052/d057    SUBSCRIPT ONE (ISO IR 50 097)
<2s>    /d032/d032/d052/d058    SUBSCRIPT TWO (ISO IR 50 098)
<3s>    /d032/d032/d052/d059    SUBSCRIPT THREE (ISO IR 50 099)
<4s>    /d032/d032/d052/d060    SUBSCRIPT FOUR (ISO IR 50 100)
<5s>    /d032/d032/d052/d061    SUBSCRIPT FIVE (ISO IR 50 101)
<6s>    /d032/d032/d052/d062    SUBSCRIPT SIX (ISO IR 50 102)
<7s>    /d032/d032/d052/d063    SUBSCRIPT SEVEN (ISO IR 50 103)
<8s>    /d032/d032/d052/d064    SUBSCRIPT EIGHT (ISO IR 50 104)
<9s>    /d032/d032/d052/d065    SUBSCRIPT NINE (ISO IR 50 105)
<0S>    /d032/d032/d052/d066    SUPERSCRIPT ZERO (ISO IR 50 112)
<4S>    /d032/d032/d052/d067    SUPERSCRIPT FOUR (ISO IR 50 116)
<5S>    /d032/d032/d052/d068    SUPERSCRIPT FIVE (ISO IR 50 117)
<6S>    /d032/d032/d052/d069    SUPERSCRIPT SIX (ISO IR 50 118)
<7S>    /d032/d032/d052/d070    SUPERSCRIPT SEVEN (ISO IR 50 119)
<8S>    /d032/d032/d052/d071    SUPERSCRIPT EIGHT (ISO IR 50 120)
<9S>    /d032/d032/d052/d072    SUPERSCRIPT NINE (ISO IR 50 121)
<+S>    /d032/d032/d052/d073    SUPERSCRIPT PLUS (ISO IR 50 106)
<-S>    /d032/d032/d052/d074    SUPERSCRIPT MINUS (ISO IR 50 107)
<1h>    /d032/d032/d052/d075    ABSTRACT SYMBOL H ONE (HOOK)
#                               (JIS C 6229-1984 060)
<2h>    /d032/d032/d052/d076    ABSTRACT SYMBOL H TWO (FORK)
#                               (JIS C 6229-1984 093)
<3h>    /d032/d032/d052/d077    ABSTRACT SYMBOL H THREE (CHAIR)
#                               (JIS C 6229-1984 062)
<4h>    /d032/d032/d052/d078    ABSTRACT SYMBOL H FOUR (LONG VERTICAL MARK)
#                               (JIS C 6229-1984 125)
<1j>    /d032/d032/d052/d079    SYMBOL ONE (ISO 2033-1983 058)
<2j>    /d032/d032/d052/d080    SYMBOL TWO (ISO 2033-1983 059)
<3j>    /d032/d032/d052/d081    SYMBOL THREE (ISO 2033-1983 060)
<4j>    /d032/d032/d052/d082    SYMBOL FOUR (ISO 2033-1983 061)
<UA>    /d032/d032/d052/d083    Unit space A (ISO IR 8-1 064)
<UB>    /d032/d032/d052/d084    Unit space B (ISO IR 8-1 096)
<yf>    /d032/d032/d052/d085    ARABIC LETTER YEH FINAL (CODAR U 090)
<yr>    /d032/d032/d052/d086    OLD NORSE YR (DIN 31624 251)
<.6>    /d032/d032/d052/d087    KATAKANA FULL STOP (JIS C 6220 033)
<<6>    /d032/d032/d052/d088    KATAKANA OPENING BRACKET (JIS C 6220 034)
</>6>   /d032/d032/d052/d089    KATAKANA CLOSING BRACKET (JIS C 6220 035)
<,6>    /d032/d032/d052/d090    KATAKANA COMMA (JIS C 6220 036)
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<&6>    /d032/d032/d052/d091    KATAKANA CONJUNCTION SYMBOL (JIS C 6220 037)
<(S>    /d032/d032/d052/d092    LEFT PARENTHESIS SUPERSCRIPT
#                               (CSA Z243.4-1985-gr 168)
<)S>    /d032/d032/d052/d093    RIGHT PARENTHESIS SUPERSCRIPT
#                               (CSA Z243.4-1985-gr 169)
END CHARMAP
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F.5.2 ISO_8859-1 Charmap

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<escape_char> /
<mb_cur_max> 1
CHARMAP
<NUL>                   /d000 NULL (NUL)                                1
<SOH>                   /d001 START OF HEADING (SOH)
<STX>                   /d002 START OF TEXT (STX)
<ETX>                   /d003 END OF TEXT (ETX)
<EOT>                   /d004 END OF TRANSMISSION (EOT)
<ENQ>                   /d005 ENQUIRY (ENQ)
<ACK>                   /d006 ACKNOWLEDGE (ACK)
<alert>                 /d007 BELL (BEL)
<BEL>                   /d007 BELL (BEL)
<backspace>             /d008 BACKSPACE (BS)
<tab>                   /d009 CHARACTER TABULATION (HT)
<newline>               /d010 LINE FEED (LF)
<vertical-tab>          /d011 LINE TABULATION (VT)
<form-feed>             /d012 FORM FEED (FF)
<carriage-return>       /d013 CARRIAGE RETURN (CR)
<DLE>                   /d016 DATALINK ESCAPE (DLE)
<DC1>                   /d017 DEVICE CONTROL ONE (DC1)
<DC2>                   /d018 DEVICE CONTROL TWO (DC2)
<DC3>                   /d019 DEVICE CONTROL THREE (DC3)
<DC4>                   /d020 DEVICE CONTROL FOUR (DC4)
<NAK>                   /d021 NEGATIVE ACKNOWLEDGE (NAK)
<SYN>                   /d022 SYNCHRONOUS IDLE (SYN)
<ETB>                   /d023 END OF TRANSMISSION BLOCK (ETB)
<CAN>                   /d024 CANCEL (CAN)
<SUB>                   /d026 SUBSTITUTE (SUB)
<ESC>                   /d027 ESCAPE (ESC)
<IS4>                   /d028 FILE SEPARATOR (IS4)
<IS3>                   /d029 GROUP SEPARATOR (IS3)
<intro>                 /d029 GROUP SEPARATOR (IS3)
<IS2>                   /d030 RECORD SEPARATOR (IS2)
<IS1>                   /d031 UNIT SEPARATOR (IS1)
<DEL>                   /d127 DELETE (DEL)                              1
<space>                 /d032   SPACE
<exclamation-mark>      /d033   EXCLAMATION MARK
<quotation-mark>        /d034   QUOTATION MARK
<number-sign>           /d035   NUMBER SIGN
<dollar-sign>           /d036   DOLLAR SIGN
<percent-sign>          /d037   PERCENT SIGN
<ampersand>             /d038   AMPERSAND
<apostrophe>            /d039   APOSTROPHE
<left-parenthesis>      /d040   LEFT PARENTHESIS
<right-parenthesis>     /d041   RIGHT PARENTHESIS
<asterisk>              /d042   ASTERISK
<plus-sign>             /d043   PLUS SIGN
```

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<comma>                  /d044   COMMA
<hyphen>                 /d045   HYPHEN-MINUS
<hyphen-minus>           /d045   HYPHEN-MINUS
<period>                 /d046   FULL STOP
<full-stop>              /d046   FULL STOP
<slash>                  /d047   SOLIDUS
<solidus>                /d047   SOLIDUS
<zero>                   /d048   DIGIT ZERO
<one>                    /d049   DIGIT ONE
<two>                    /d050   DIGIT TWO
<three>                  /d051   DIGIT THREE
<four>                   /d052   DIGIT FOUR
<five>                   /d053   DIGIT FIVE
<six>                    /d054   DIGIT SIX
<seven>                  /d055   DIGIT SEVEN
<eight>                  /d056   DIGIT EIGHT
<nine>                   /d057   DIGIT NINE
<colon>                  /d058   COLON
<semicolon>              /d059   SEMICOLON
<less-than-sign>         /d060   LESS-THAN SIGN
<equals-sign>            /d061   EQUALS SIGN
<greater-than-sign>      /d062   GREATER-THAN SIGN
<question-mark>          /d063   QUESTION MARK
<commercial-at>          /d064   COMMERCIAL AT
<left-square-bracket>    /d091   LEFT SQUARE BRACKET
<reverse-solidus>        /d092   REVERSE SOLIDUS
<backslash>              /d092   REVERSE SOLIDUS
<right-square-bracket>   /d093   RIGHT SQUARE BRACKET
<circumflex-accent>      /d094   CIRCUMFLEX ACCENT
<low-line>               /d095   LOW LINE
<underscore>             /d095   LOW LINE
<grave-accent>           /d096   GRAVE ACCENT
<left-curly-bracket>     /d123   LEFT CURLY BRACKET
<vertical-line>          /d124   VERTICAL LINE
<right-curly-bracket>    /d125   RIGHT CURLY BRACKET
<tilde>                  /d126   TILDE
<SP>    /d032   SPACE
<!>     /d033   EXCLAMATION MARK
<">     /d034   QUOTATION MARK
<Nb>    /d035   NUMBER SIGN
<DO>    /d036   DOLLAR SIGN
<%>     /d037   PERCENT SIGN
<&>     /d038   AMPERSAND
<'>     /d039   APOSTROPHE
<(>     /d040   LEFT PARENTHESIS
<)>     /d041   RIGHT PARENTHESIS
<*>     /d042   ASTERISK
<+>     /d043   PLUS SIGN
<,>     /d044   COMMA
<->     /d045   HYPHEN-MINUS
<.>     /d046   FULL STOP
<//>    /d047   SOLIDUS
<0>     /d048   DIGIT ZERO
<1>     /d049   DIGIT ONE
<2>     /d050   DIGIT TWO
<3>     /d051   DIGIT THREE
<4>     /d052   DIGIT FOUR
```

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```
<5>      /d053   DIGIT FIVE
<6>      /d054   DIGIT SIX
<7>      /d055   DIGIT SEVEN
<8>      /d056   DIGIT EIGHT
<9>      /d057   DIGIT NINE
<:>      /d058   COLON
<;>      /d059   SEMICOLON
<<>      /d060   LESS-THAN SIGN
<=>      /d061   EQUALS SIGN
</>>     /d062   GREATER-THAN SIGN
<?>      /d063   QUESTION MARK
<At>     /d064   COMMERCIAL AT
<A>      /d065   LATIN CAPITAL LETTER A
<B>      /d066   LATIN CAPITAL LETTER B
<C>      /d067   LATIN CAPITAL LETTER C
<D>      /d068   LATIN CAPITAL LETTER D
<E>      /d069   LATIN CAPITAL LETTER E
<F>      /d070   LATIN CAPITAL LETTER F
<G>      /d071   LATIN CAPITAL LETTER G
<H>      /d072   LATIN CAPITAL LETTER H
<I>      /d073   LATIN CAPITAL LETTER I
<J>      /d074   LATIN CAPITAL LETTER J
<K>      /d075   LATIN CAPITAL LETTER K
<L>      /d076   LATIN CAPITAL LETTER L
<M>      /d077   LATIN CAPITAL LETTER M
<N>      /d078   LATIN CAPITAL LETTER N
<O>      /d079   LATIN CAPITAL LETTER O
<P>      /d080   LATIN CAPITAL LETTER P
<Q>      /d081   LATIN CAPITAL LETTER Q
<R>      /d082   LATIN CAPITAL LETTER R
<S>      /d083   LATIN CAPITAL LETTER S
<T>      /d084   LATIN CAPITAL LETTER T
<U>      /d085   LATIN CAPITAL LETTER U
<V>      /d086   LATIN CAPITAL LETTER V
<W>      /d087   LATIN CAPITAL LETTER W
<X>      /d088   LATIN CAPITAL LETTER X
<Y>      /d089   LATIN CAPITAL LETTER Y
<Z>      /d090   LATIN CAPITAL LETTER Z
<<(>     /d091   LEFT SQUARE BRACKET
<////>   /d092   REVERSE SOLIDUS
<)/>>    /d093   RIGHT SQUARE BRACKET
<’/>>    /d094   CIRCUMFLEX ACCENT
<_>      /d095   LOW LINE
<’!>     /d096   GRAVE ACCENT
<a>      /d097   LATIN SMALL LETTER A
<b>      /d098   LATIN SMALL LETTER B
<c>      /d099   LATIN SMALL LETTER C
<d>      /d100   LATIN SMALL LETTER D
<e>      /d101   LATIN SMALL LETTER E
<f>      /d102   LATIN SMALL LETTER F
<g>      /d103   LATIN SMALL LETTER G
<h>      /d104   LATIN SMALL LETTER H
<i>      /d105   LATIN SMALL LETTER I
<j>      /d106   LATIN SMALL LETTER J
<k>      /d107   LATIN SMALL LETTER K
<l>      /d108   LATIN SMALL LETTER L
<m>      /d109   LATIN SMALL LETTER M
```

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```
<n>      /d110   LATIN SMALL LETTER N
<o>      /d111   LATIN SMALL LETTER O
<p>      /d112   LATIN SMALL LETTER P
<q>      /d113   LATIN SMALL LETTER Q
<r>      /d114   LATIN SMALL LETTER R
<s>      /d115   LATIN SMALL LETTER S
<t>      /d116   LATIN SMALL LETTER T
<u>      /d117   LATIN SMALL LETTER U
<v>      /d118   LATIN SMALL LETTER V
<w>      /d119   LATIN SMALL LETTER W
<x>      /d120   LATIN SMALL LETTER X
<y>      /d121   LATIN SMALL LETTER Y
<z>      /d122   LATIN SMALL LETTER Z
<(!>     /d123   LEFT CURLY BRACKET
<!!>     /d124   VERTICAL LINE
<!)>     /d125   RIGHT CURLY BRACKET
<’?>     /d126   TILDE
<NS>     /d160   NO-BREAK SPACE
<!I>     /d161   INVERTED EXCLAMATION MARK
<Ct>     /d162   CENT SIGN
<Pd>     /d163   POUND SIGN
<Cu>     /d164   CURRENCY SIGN
<Ye>     /d165   YEN SIGN
<BB>     /d166   BROKEN BAR
<SE>     /d167   SECTION SIGN
<’:>     /d168   DIAERESIS
<Co>     /d169   COPYRIGHT SIGN
<-a>     /d170   FEMININE ORDINAL INDICATOR
<<<>     /d171   LEFT POINTING DOUBLE ANGLE QUOTATION MARK
<NO>     /d172   NOT SIGN
<-->     /d173   SOFT HYPHEN
<Rg>     /d174   REGISTERED SIGN
<’->     /d175   MACRON
<DG>     /d176   DEGREE SIGN
<+->     /d177   PLUS-MINUS SIGN
<2S>     /d178   SUPERSCRIPT TWO
<3S>     /d179   SUPERSCRIPT THREE
<’’>     /d180   ACUTE ACCENT
<My>     /d181   MICRO SIGN
<PI>     /d182   PILCROW SIGN
<.M>     /d183   MIDDLE DOT
<’,>     /d184   CEDILLA
<1S>     /d185   SUPERSCRIPT ONE
<-o>     /d186   MASCULINE ORDINAL INDICATOR
</>>>>   /d187   RIGHT POINTING DOUBLE ANGLE QUOTATION MARK      1
<14>     /d188   VULGAR FRACTION ONE QUARTER
<12>     /d189   VULGAR FRACTION ONE HALF
<34>     /d190   VULGAR FRACTION THREE QUARTERS
<?I>     /d191   INVERTED QUESTION MARK
<A!>     /d192   LATIN CAPITAL LETTER A WITH GRAVE
<A’>     /d193   LATIN CAPITAL LETTER A WITH ACUTE
<A/>>    /d194   LATIN CAPITAL LETTER A WITH CIRCUMFLEX
<A?>     /d195   LATIN CAPITAL LETTER A WITH TILDE
<A:>     /d196   LATIN CAPITAL LETTER A WITH DIAERESIS
<AA>     /d197   LATIN CAPITAL LETTER A WITH RING ABOVE
<AE>     /d198   LATIN CAPITAL LETTER AE
<C,>     /d199   LATIN CAPITAL LETTER C WITH CEDILLA
```

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```
<E!>    /d200   LATIN CAPITAL LETTER E WITH GRAVE
<E’>    /d201   LATIN CAPITAL LETTER E WITH ACUTE
<E/>>   /d202   LATIN CAPITAL LETTER E WITH CIRCUMFLEX
<E:>    /d203   LATIN CAPITAL LETTER E WITH DIAERESIS
<I!>    /d204   LATIN CAPITAL LETTER I WITH GRAVE
<I’>    /d205   LATIN CAPITAL LETTER I WITH ACUTE
<I/>>   /d206   LATIN CAPITAL LETTER I WITH CIRCUMFLEX
<I:>    /d207   LATIN CAPITAL LETTER I WITH DIAERESIS
<D->    /d208   LATIN CAPITAL LETTER ETH (Icelandic)
<N?>    /d209   LATIN CAPITAL LETTER N WITH TILDE
<O!>    /d210   LATIN CAPITAL LETTER O WITH GRAVE
<O’>    /d211   LATIN CAPITAL LETTER O WITH ACUTE
<O/>>   /d212   LATIN CAPITAL LETTER O WITH CIRCUMFLEX
<O?>    /d213   LATIN CAPITAL LETTER O WITH TILDE
<O:>    /d214   LATIN CAPITAL LETTER O WITH DIAERESIS
<*X>    /d215   MULTIPLICATION SIGN
<O//>   /d216   LATIN CAPITAL LETTER O WITH STROKE
<U!>    /d217   LATIN CAPITAL LETTER U WITH GRAVE
<U’>    /d218   LATIN CAPITAL LETTER U WITH ACUTE
<U/>>   /d219   LATIN CAPITAL LETTER U WITH CIRCUMFLEX
<U:>    /d220   LATIN CAPITAL LETTER U WITH DIAERESIS
<Y’>    /d221   LATIN CAPITAL LETTER Y WITH ACUTE
<TH>    /d222   LATIN CAPITAL LETTER THORN (Icelandic)
<ss>    /d223   LATIN SMALL LETTER SHARP S (German)
<a!>    /d224   LATIN SMALL LETTER A WITH GRAVE
<a’>    /d225   LATIN SMALL LETTER A WITH ACUTE
<a/>>   /d226   LATIN SMALL LETTER A WITH CIRCUMFLEX
<a?>    /d227   LATIN SMALL LETTER A WITH TILDE
<a:>    /d228   LATIN SMALL LETTER A WITH DIAERESIS
<aa>    /d229   LATIN SMALL LETTER A WITH RING ABOVE
<ae>    /d230   LATIN SMALL LETTER AE
<c,>    /d231   LATIN SMALL LETTER C WITH CEDILLA
<e!>    /d232   LATIN SMALL LETTER E WITH GRAVE
<e’>    /d233   LATIN SMALL LETTER E WITH ACUTE
<e/>>   /d234   LATIN SMALL LETTER E WITH CIRCUMFLEX
<e:>    /d235   LATIN SMALL LETTER E WITH DIAERESIS
<i!>    /d236   LATIN SMALL LETTER I WITH GRAVE
<i’>    /d237   LATIN SMALL LETTER I WITH ACUTE
<i/>>   /d238   LATIN SMALL LETTER I WITH CIRCUMFLEX
<i:>    /d239   LATIN SMALL LETTER I WITH DIAERESIS
<d->    /d240   LATIN SMALL LETTER ETH (Icelandic)
<n?>    /d241   LATIN SMALL LETTER N WITH TILDE
<o!>    /d242   LATIN SMALL LETTER O WITH GRAVE
<o’>    /d243   LATIN SMALL LETTER O WITH ACUTE
<o/>>   /d244   LATIN SMALL LETTER O WITH CIRCUMFLEX
<o?>    /d245   LATIN SMALL LETTER O WITH TILDE
<o:>    /d246   LATIN SMALL LETTER O WITH DIAERESIS
<-:>    /d247   DIVISION SIGN
<o//>   /d248   LATIN SMALL LETTER O WITH STROKE
<u!>    /d249   LATIN SMALL LETTER U WITH GRAVE
<u’>    /d250   LATIN SMALL LETTER U WITH ACUTE
<u/>>   /d251   LATIN SMALL LETTER U WITH CIRCUMFLEX
<u:>    /d252   LATIN SMALL LETTER U WITH DIAERESIS
<y’>    /d253   LATIN SMALL LETTER Y WITH ACUTE
<th>    /d254   LATIN SMALL LETTER THORN (Icelandic)
<y:>    /d255   LATIN SMALL LETTER Y WITH DIAERESIS
<NU>    /d000   NULL (NUL)
```

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```
<SH>    /d001   START OF HEADING (SOH)
<SX>    /d002   START OF TEXT (STX)
<EX>    /d003   END OF TEXT (ETX)
<ET>    /d004   END OF TRANSMISSION (EOT)
<EQ>    /d005   ENQUIRY (ENQ)
<AK>    /d006   ACKNOWLEDGE (ACK)
<BL>    /d007   BELL (BEL)
<BS>    /d008   BACKSPACE (BS)
<HT>    /d009   CHARACTER TABULATION (HT)
<LF>    /d010   LINE FEED (LF)
<VT>    /d011   LINE TABULATION (VT)
<FF>    /d012   FORM FEED (FF)
<CR>    /d013   CARRIAGE RETURN (CR)
<SO>    /d014   SHIFT OUT (SO)
<SI>    /d015   SHIFT IN (SI)
<DL>    /d016   DATALINK ESCAPE (DLE)
<D1>    /d017   DEVICE CONTROL ONE (DC1)
<D2>    /d018   DEVICE CONTROL TWO (DC2)
<D3>    /d019   DEVICE CONTROL THREE (DC3)
<D4>    /d020   DEVICE CONTROL FOUR (DC4)
<NK>    /d021   NEGATIVE ACKNOWLEDGE (NAK)
<SY>    /d022   SYNCHRONOUS IDLE (SYN)
<EB>    /d023   END OF TRANSMISSION BLOCK (ETB)
<CN>    /d024   CANCEL (CAN)
<EM>    /d025   END OF MEDIUM (EM)
<SB>    /d026   SUBSTITUTE (SUB)
<EC>    /d027   ESCAPE (ESC)
<FS>    /d028   FILE SEPARATOR (IS4)
<GS>    /d029   GROUP SEPARATOR (IS3)
<RS>    /d030   RECORD SEPARATOR (IS2)
<US>    /d031   UNIT SEPARATOR (IS1)
<DT>    /d127   DELETE (DEL)
<PA>    /d128   PADDING CHARACTER (PAD)
<HO>    /d129   HIGH OCTET PRESET (HOP)
<BH>    /d130   BREAK PERMITTED HERE (BPH)
<NH>    /d131   NO BREAK HERE (NBH)
<IN>    /d132   INDEX (IND)
<NL>    /d133   NEXT LINE (NEL)
<SA>    /d134   START OF SELECTED AREA (SSA)
<ES>    /d135   END OF SELECTED AREA (ESA)
<HS>    /d136   CHARACTER TABULATION SET (HTS)
<HJ>    /d137   CHARACTER TABULATION WITH JUSTIFICATION (HTJ)
<VS>    /d138   LINE TABULATION SET (VTS)
<PD>    /d139   PARTIAL LINE FORWARD (PLD)
<PU>    /d140   PARTIAL LINE BACKWARD (PLU)
<RI>    /d141   REVERSE LINE FEED (RI)
<S2>    /d142   SINGLE-SHIFT TWO (SS2)
<S3>    /d143   SINGLE-SHIFT THREE (SS3)
<DC>    /d144   DEVICE CONTROL STRING (DCS)
<P1>    /d145   PRIVATE USE ONE (PU1)
<P2>    /d146   PRIVATE USE TWO (PU2)
<TS>    /d147   SET TRANSMIT STATE (STS)
<CC>    /d148   CANCEL CHARACTER (CCH)
<MW>    /d149   MESSAGE WAITING (MW)
<SG>    /d150   START OF GUARDED AREA (SPA)
<EG>    /d151   END OF GUARDED AREA (EPA)
<SS>    /d152   START OF STRING (SOS)
```

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```
<GC>    /d153   SINGLE GRAPHIC CHARACTER INTRODUCER (SGCI)
<SC>    /d154   SINGLE CHARACTER INTRODUCER (SCI)
<CI>    /d155   CONTROL SEQUENCE INTRODUCER (CSI)
<ST>    /d156   STRING TERMINATOR (ST)
<OC>    /d157   OPERATING SYSTEM COMMAND (OSC)
<PM>    /d158   PRIVACY MESSAGE (PM)
<AC>    /d159   APPLICATION PROGRAM COMMAND (APC)
END CHARMAP
```

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Annex G
(informative)

Balloting Instructions

This annex will not appear in the final standard. It is included in the draft to provide instructions for balloting that cannot be separated easily from the main document, as a cover letter might.

If you have received a copy of this draft before October 1991 it is important that you read this annex, whether you are an official member of the P1003.2 Balloting Group or not; comments on this draft are welcomed from all interested technical experts. **Your ballot is due to the IEEE office by 21 October 1991. This is not the date to postmark it—it is the date of receipt.**

Summary of Draft 11.2 Instructions

This is the fifth ''recirculation draft'' of P1003.2. The recirculation procedure is described in this annex. For this recirculation, we are accepting objections against any normative changes that occurred from Draft 11.1 to Draft 11.2 and the contents of the Unresolved Objections List, provided as a separate document from the draft.

This is the first ballot in which the draft is available for online review; see the Editor's Notes for details on accessing this information.

Send your ballot and/or comments to:

IEEE Standards Office
Computer Society Secretariat
ATTN: P1003.2 Ballot (Anna Kaczmarek)
P.O. Box 1331
445 Hoes Lane
Piscataway, NJ 08855-1331

It would also be very helpful if you sent us your ballot in machine-readable form. Your official ballot must be returned via mail to the IEEE office; if we receive only the e-mail or diskette version, that version will not count as an official document. However, the online version would be a great help to ballot resolution. We can accept e-mail to the following address:

hlj@Posix.COM or **uunet!posix!hlj**

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