ucs.sty - Unicode Support

Dominique P. G. Unruh Wolfgang Jeltsch

August 28, 2012

Contents

1	Usage				
	1.1	Special options	2		
	1.2	Normal options)		
	1.3	Combining mode	1		
	1.4	Defining unicode data	ó		
	1.5	Known problems	5		
2	Tha	anks 6	3		
3	Imp	plementation	3		
	3.1	File ucs.sty 6)		
	3.2	File ucsutils.sty)		
	3.3	File utf8x.def	1		
	3.4	File ucsencs.def	3		
4	Cor	ntributed files 50)		
	4.1	File autofe.sty)		
	4.2	File cenccmn.tex	L		
	4.3	File c00enc.def	}		
	4.4	File c10enc.def	3		
	4.5	File c40enc.def	}		
	4.6	File c42enc.def 54	1		

4.7	File oftens dof	56
	File c61enc.def	56
4.8	File lklenc.def	56
4.9	File lklkli.fd	57
	File ldvenc.def	57
4.11	File ldvarial.fd	60
4.12	File ldvc2000.fd	60
4.13	File letenc.def	61
4.14	File letgfzem.fd	75
4.15	File letjiret.fd	75
4.16	File letc2000.fd	75
4.17	File ltaenc.def	75
4.18	File ltaarial.fd	78
4.19	File ltac2000.fd	78
4.20	File ltgenc.def	78
4.21	File ltgc2000.fd	80
4.22	File ltlenc.def	81
4.23	File ltlcmr.fd	86
4.24	File ltwenc.def	87
4.25	File ltwdsque.fd	89
4.26	File ltwdsnol.fd	89
4.27	File ltwdssin.fd	89
4.28	File lucenc.def	90
4.29	File lucarial.fd	92
4.30	File lucc2000.fd	92
4.31	File mkrenc.def	92
	File mkrezra.fd	94
	File mkrhadas.fd	94
4.34	File mkromega.fd	95
	File mkrrashi.fd	95
	File t2denc.def	95
	File +2down fd	00

4.38	${ m lile}$ tengwarDS.enc
4.39	Tile cp1252.enc
4.40	lile xsenc.def
4.41	Tile xscmr.fd
4.42	Tile ucshyper.sty

1 Usage

Simply use \usepackage{ucs} and \usepackage[utf8x]{inputenc}, then you will be able to write your LaTeX-Documents in UTF-8.

You can access a Unicode character with $\operatorname{unichar}\{\langle code \rangle\}$, even when the active input encoding is not utf8.

An unicode character can have an default glyph macro and several glyph macros associated with options. If one of these options is set, the associated macro is used, otherwise the default macro. If several associated options are set, an error is yielded. You may activate an option $\langle name \rangle$ by including it in the option list while loading the ucs package, or by using $SetUnicodeOption\{\langle name \rangle\}$. To deactivate an option, prefix its name by no. Note that you must load ucs.sty before $usepackage[utf8x]\{inputenc\}$ if you want to supply options. Any option which you want to use must be used at least once in the preamble.

When you activate an option, you can supply a priority as optional argument. If there are several glyphs for a given code position, the one having the option with the highest priority is taken (an error is yielded in case of ambiguity). If you do not supply a priority, 100 is taken as default. "Normal" glyphs are associated with the option default, which is initially activated with a priority of 0.

This input encoding does not change the fontencoding automatically. For that purpose, you can use autofe.sty, which is included in the ucs package.

1.1 Special options

Several options have a special hardcoded meaning:

• combine: Activates combining mode. See section 1.3.

• default: This option contains all characters, which are not explicitly associated with another option. But see also the option document. This option is activated per default, but has priority 0, i.e. any other activated option is prefered, unless its priority is explicitly given to be smaller.

\SetUnicodeOption

default

combine

document

• document: Every character you define in your document using \Declare-UnicodeCharacter has the option document. This option is activated per default having the priority 1000, therefore manually declared characters take precedence over all other characters, unless some other option has explicitly gotten a higher priority.

fasterrors

• fasterrors: When used, the name of an unicode character is not included in error messages any more, which runs much faster.

graphics

• graphics: When used, unknown characters are replaces by GIFs downloaded from unicode.org. Commands to download and convert these are executed if -shell-escape is passed to LATEX, otherwise they are proposed to the user in a warning message. A UNIX-machine supporting the commands wget, giftopnm and pnmtops is assumed.

savemem

• savemem: When used, only the character needed at the moment is loaded, not a whole page. This slows down operation, but saves space in the TeX-pool, especially with sparsly used character set like kanji. Use this, if you get an out of pool error or similar from TeX. If you change the state of this option during the run, you may get inexpected results.

warnunknown

• warnunknown: When used, an unknown unicode character does not generate an error, but a warning.

1.2 Normal options

The options described here are—strictly spoken—not part of ucs.sty, but are defined by the unicode data files. They are included here for convenience.

autogenerated

• autogenerated: This enables the characters, which are autogenerated as composition of other characters according to the informations in the UnicodeData.txt. These may or may not look good. You may have to define the \unicodecircle, \unicodesquare, \unicodevertical, \unicodewide and \unicodesmall macros to let all autogenerated macros work. Furthermore you may have to set some other options, when the autogenerated characters are build out of characters, which are not in the default set.

cjkbg5

• cjkbg5: See the explanation for cjkjis below and substitute C40 by C00, JIS by BIG-5 and kanji48 by some appropriate font which has BIG-5 encoding (e.g. one of the "Arphic AR PL * Big5" fonts).

cjkgb

• cjkgb: See the explanation for cjkjis below and substitute C40 by C10, JIS by GB and kanji48 by some appropriate font which has GB encoding (e.g. one of the "Arphic AR PL * GB" fonts).

cjkhangul

• cjkhangul: See the explanation for cjkjis below and substitute C40 by C61, JIS by "KSC5601 hangul syllables" and kanji48 by some appropriate

font which has KSC5601 encoding and hangul syllables (e.g. the han or the han1 font from CJK-IATEX).

cjkjis

• cjkjis: This enables the use of C40 (JIS) or C42 (JISdnp) encoded fonts. You need to have the c40*.fd files which are contributed with the package CJK and the kanji48 font installed for this. Further you have to load the fontencoding C40 (an option to the package fontenc).

It is not necessary to load the package CJK. If you want to use it nevertheless take care of the following:

- Load CJK before fontenc, or quite strange errors will occur.
- Load CJK with option encapsulated, or it will overwrite some of the UTF8 input encoding.
- Don't use the CJK environment, it destroys the input encoding. Use
 ucjk instead, which is a patched version and takes no arguments.

fullmathletters

• fullmathletters: This option has been removed. Replace all occurrences by mathletters.

mathletters

• mathletters: When using this option is set, some unicode code characters like greek or some hebrew letters generate the math mode glyphs. This option is disabled by default, because using math greek in a normal text does not look good. But you may set it in \everymath and \everydisplay and such enable the use of unicode characters in math mode. You can also use this to get a poor man's greek, it is however recommended to use the cb fonts instead.

postscript

• postscript: This option enables use of postscript, e.g. of postscript fonts. Some DVI-viewers may have problems with documents using this option, but most viewers can handle it correctly.

privatecsur

• privatecsur: This option enables use of characters in the private area according to the mapping by the ConScript Unicode Registry (http://www.evertype.com/standards/csur/ and also http://home.ccil.org/~cowan/csur/index.html).

tipa

• tipa: This enables the use of the macros in the tipa package to display IPA symbols.

1.3 Combining mode

In some cases, Unicode documents contain sequences like U+0063 LATIN SMALL LETTER C U+0301 COMBINING ACUTE ACCENT(producing \acute{e}). In order to typeset them correctly, we cannot render U+0063 LATIN SMALL LETTER Cimmediately when it occurs, instead we have to wait whether some combining character is going to follow.

combine

To enable this way of parsing in ucs.sty, we have to use the option combine. As long as this option is in effect, characters are not immediately rendered, but stored in a token register until they are output via

• resetting of the option (\SetUnicodeOption{nocombine}) or

\unicodecombine

• the command \unicodecombine.

Since characters handled by ucs.sty are not immediately output while ASCII characters are handled by TeXand directly rendered, you should not mix ASCII characters and non-ASCII characters while this option is in effect. Thus to obtain the above glyph, you cannot use

 $\label{lem:combine} $$ \operatorname{U}_0301 \ \operatorname{COMBINING} \ \operatorname{ACCENT}, instead \ you \ can \ use \ one \ of \ the following \ constructions:$

 \SetUnicodeOption{combine}\unichar{"63}6% \SetUnicodeOption{nocombine}

\unicodevirtual

- \SetUnicodeOption{combine}\unicodevirtual{c}6% \SetUnicodeOption{nocombine} (\unicodevirtual takes arbitrary IATEX code and inserts it, as thou it was a Unicode character; do not use Unicode characters inside \unicodevirtual).
- \SetUnicodeOption{combine} \myverbatim|có|% \SetUnicodeOption{nocombine} where \myverbatim¹ is a command similar to \verb, but setting the catcodes of the ASCII characters to 13 (active) and then defining character no. n to expand to \unichar{n}.

In cases where you only want to render occasional words containing combining characters and no ASCII, you can use a macro like

\newcommand\combword[1]{\SetUnicodeOption{combine}#1%
 \SetUnicodeOption{nocombine}}
and then simply typeset the concerning word as an argument to \combword.

1.4 Defining unicode data

\DeclareUnicodeCharacter

clareUnicodeCharacterAsOptional

A unicode character may be defined by

 $\verb|\DeclareUnicodeCharacter{|\langle code\rangle|} {\langle macro\rangle|}$

or, when it is to be associated with a special option, by using

\DeclareUnicodeCharacterAsOptional{\langle code \} \{\langle option \} \{\langle macro \} \) where $\langle code \rangle$ is the unicode character number, $\langle option \rangle$ the associated option and $\langle macro \rangle$ the glyph's macro.

 $^{^1}$ This command is not provided by $\mathtt{ucs.sty}$, but some similar command may appear in future.

This definition is local.

In the automatically loaded data files \uc@dclc should be used instead.

An option $\langle option \rangle$ can be defined by

 $\DeclareUnicodeOption[\langle pkg \rangle] \{\langle option \rangle\}.$

If $\langle pkg \rangle$ is supplied, the option is set, if the package $\langle pkg \rangle$ is loaded.

You can add further packages, which automatically set an option, by $\LinkUnicodeOptionToPkg{\langle option \rangle}{\langle pkg \rangle}.$

\LinkUnicodeOptionToPkg

\DeclareUnicodeOption

If a character c is unknown, it is looked up in in the uni-n.def-file, whereby $n = \lfloor \frac{c}{256} \rfloor$. So characters which are not document specific, should be defined in those file. For generating them, you should you the program makeunidef.pl.

You may find \dirtyunicode and \UnicodeNeeds interesting for writing glyphs macros, see in the implementation section.

1.5 Known problems

Note, that if a character from some not yet loaded Unicode page appears, a file has to be loaded. If this appears inside a word, kerning and ligatures do not work at that position.

Further there are some commands, which expand their arguments in non-executing contexts, this makes it impossible for ucs.sty to load the character definition file at this place if this has not yet been done. In this case the concerning character is replaced by some message that you have to use \PrerenderUnicode{...}.

Both problems can be solved by preloading the offending characters. If you have for example U+03B1 greek small letter alpha, which should be preloaded, simply use

\PreloadUnicodePage

• \PreloadUnicodePage{3} (the argument to \PreloadUnicodePage is $\lfloor \frac{n}{256} \rfloor$, where n is the number of the character (here 0x3B1 = 945)) or

\PrerenderUnicode

• \PrerenderUnicode{α} (the argument to \PrerenderUnicode can contain any LATEX code, which is then rendered in an hbox, all still unknown characters a loaded and the result is thrown away; do not use e.g. \footnote or other commands which might not like to be executed several times).

2 Thanks

Thanks to...

• Michel Goossens who supplied many characters (e.g. Vietnamese, polytonic Greek),

- Manuel Kauers for testing my package before the first upload,
- Werner Lemberg, who wrote the CJK package, where I got the font definitions in cenccmn.tex from,
- Karsten Tinnefeld for many of the glyph macros in cyrillic.ucf,
- Pablo Rodriguez for reporting many bugs, especially concerning the interaction between ucs.sty and other packages.
- Stefan Röhrich for testing my package before the first upload,
- the authors of all those many LATEX-packages for different scripts.

3 Implementation

3.1 File ucs.sty

```
1 (*ucs.sty)
  2 \catcode'\011
  4 \ifx\@gobbletwo\undefined\def\@gobbletwo#1#2{}\fi
  5 \ifx\@gobblethree\undefined\def\@gobblethree#1#2#3{}\fi
  6 \ifx\@gobblefour\undefined\def\@gobblefour#1#2#3#4{}\fi
  7 \ifx\@firstofone\undefined\def\@firstofone#1{#1}\fi
  9 \ifx\@tempcntb\undefined\csname newcount\endcsname\@tempcntb\fi
10 \ifx\@testopt\undefined
               \def\@testopt#1#2{%
                        \@ifnextchar[{#1}{#1[{#2}]}}\fi
\label{thm:linear} 13 \ \texttt{lifx} \ \texttt{lexpandafter} \ \texttt{lexpandaft
14 \ifx\end{order} undefined
               \def\@ifnextchar#1#2#3{%
15
                       \let\reserved@d=#1%
16
17
                       \def\reserved@a{#2}%
18
                       \def\reserved@b{#3}%
                       \futurelet\@let@token\@ifnch}\fi
19
20 \ifx\@ifnch\undefined
               \def\@ifnch{%
21
                       \ifx\@let@token\@sptoken
22
                              \let\reserved@c\@xifnch
23
24
                              \ifx\@let@token\reserved@d
25
                                     \let\reserved@c\reserved@a
26
27
                                      \let\reserved@c\reserved@b
28
                              \fi
29
30
                       \fi
                       \reserved@c}\fi
```

```
32 \ifx\@inputcheck\undefined\newread\@inputcheck\fi
33 \ifx\IfFileExists\undefined
34 \long\def\IfFileExists#1#2#3{%
                           \openin\@inputcheck#1 %SPACE
                          \ifeof\@inputcheck\def\reserved@a{#3}%
36
37
                          \else\closein\@inputcheck\def\reserved@a{#2}%
38
39
                          \reserved@a}%
40 \fi
41 \ifx\InputIfFileExists\undefined
42 \long\def\InputIfFileExists#1#2{%
43 \IfFileExists{#1}{#2\input #1 }}
44 \fi
45 \ifx\protect\undefined\let\protect\relax\fi
46 \ifx\@typeset@protect\undefined\let\@typeset@protect\relax\fi
47 \ \texttt{\leC} \ \texttt{\leC} \ \texttt{\leC} \ \texttt{\leC} \ \texttt{\lect} \ \texttt{\lect}
                         \expandafter\Ofirstofone\else\noexpand\IeC\fi}\fi
```

\XDeclareUnicodeOption

Synopsis: $\{\langle pkg \rangle\}\{\langle name \rangle\}\{\langle activate \rangle\}\{\langle on \rangle\}\{\langle off \rangle\}$

\DeclareUnicodeOption

Synopsis: $[\langle pkg \rangle] \{\langle name \rangle\}$

Declare an unicode option, i.e. the command \ifUnicodeOption(name) to test if $\langle name \rangle$ is activated, further the commands \@unicode@option@(name) and \@unicode@option@no(name) to switch the option on and off, which take a priority as argument (it is ignored in case of the deactivation command). If the optional argument $\langle pkg \rangle$ is specified and not empty, the option is automatically activated, if package $\langle pkg \rangle$ is loaded.

If $\{(activate)\}$ is code which is executed when the option is first used.

 $\{\langle on \rangle\}\$ and $\{\langle off \rangle\}\$ are executed every time the option is switched on resp. off.

The activation and deactivation commands call \uni@activate@option at their first call, which then sets their normal behaviour. This is done to ensure, that on the initial call we can mark this option as "in use", so we can do optimizations when loading data.

```
49 \def\unicode@knownoptions{}
50 \def\XDeclareUnicodeOption#1#2#3#4#5{%
51
    \expandafter\let\csname ifUnicodeOption#2\endcsname\iffalse
    \expandafter\def\csname UnicodeOption#2true%
52
      \expandafter\endcsname\expandafter{%
53
        \expandafter\let\csname ifUnicodeOption#2\endcsname\iftrue}%
54
    \expandafter\def\csname UnicodeOption#2false%
55
56
      \expandafter\endcsname\expandafter{%
57
        \expandafter\let\csname ifUnicodeOption#2\endcsname\iffalse}%
58
    \expandafter\def\csname @unicode@option@#2\endcsname{%
      #3\uni@activate@option{#2}{}{#4}{#5}}%
59
    \expandafter\def\csname @unicode@option@no#2\endcsname{%
```

```
#3\uni@activate@option{#2}{no}{#4}{#5}}%
                                                    61
                                                              \label{linkUnicodeOptionToPkg{#2}{#1}\fi
                                                    62
                                                    Keep a list of known options
                                                              \let\uc@tempa\\\let\\\relax
                                                              \edef\unicode@knownoptions{\\{#2}\unicode@knownoptions}%
                                                              \let\\\uc@tempa
                                                    65
                                                    66
                                                             }%
                                                    67 \let\uc@newcommand\def
                                                    68 \uc@newcommand\DeclareUnicodeOption{\@protected@testopt\DeclareUnicodeOption\DeclareUnicodeOption
                                                    69 \uc@newcommand\DeclareUnicodeOption@[#1]#2{%
                                                              \XDeclareUnicodeOption{#1}{#2}{}{}}}%
                                                   [[[ TO BE DONE ]]]
                   \uc@errormsg
                                                    71 \uc@newcommand\uc@errormsg#1#2{%
                                                              \ifx\PackageError\undefined
                                                    73
                                                                   {\newlinechar'\^^J\def\MessageBreak{^^J}%
                                                    74
                                                                        \errhelp{#2}\errmessage{Package ucs: #1}}%
                                                    75
                                                              \else
                                                                   \PackageError{ucs}{#1}{#2}%
                                                    76
                                                              \fi
                                                    77
                                                    78 }%
                                                    79 \uc@newcommand\uc@warnmsg#1{%
                                                              \ifx\PackageWarning\undefined
                                                    80
                                                                   {\newlinechar'\^^J\def\MessageBreak{^^J}%
                                                    81
                                                                        \message{Package ucs: #1\MessageBreak}}%
                                                    82
                                                              \else
                                                    83
                                                                   \PackageWarning{ucs}{#1}%
                                                    84
                                                              \fi
                                                    85
                                                    86 }%
                                                    Synopsis: \{\langle option \rangle\}\{\langle no \rangle\}\{\langle on \rangle\}\{\langle off \rangle\}\{\langle prio \rangle\}
\uni@activate@option
                                                    This sets the \condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\conde}\condom{\condom{\conde}\condom{\conde}\condom{\condom{\conde}\condom{\condom{\conde}\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\condom{\
                                                    mands to their normal behavior (setting and unsetting the option), and then
                                                    executes the first (in case \langle no \rangle is empty) or the latter (in case \langle no \rangle is no) with
                                                    \langle prio \rangle as argument.
                                                    \{\langle on \rangle\}\ and \{\langle off \rangle\}\ are executed when the option is switched on resp. off.
                                                    87 \def\uni@activate@option#1#2#3#4#5{%
                                                              \ifx\uni@dataloaded\undefined
                                                    88
                                                    89
                                                              \global\expandafter\def\csname @unicode@option@#1\endcsname##1{%
                                                    90
                                                                   \csname UnicodeOption#1true\endcsname
                                                                   \expandafter\def\csname uo-prio-#1\endcsname{##1}#3}%
                                                    91
                                                              \global\expandafter\def\csname @unicode@option@no#1\endcsname##1%
                                                    92
                                                                   {\csname UnicodeOption#1false\endcsname#4}%
                                                    93
```

Mark this option as in use

```
\csname @unicode@option@#2#1\endcsname{#5}\else
                                \uc@errormsg{Option #1 must be activated or deactivated %SPACE
                           95
                                  at least once in the preamble before using it in the document}{%
                           96
                                  For optimization causes I must know all %SPACE
                           97
                                  options before loading any unicode data.\MessageBreak
                           98
                                  Try e.g. #1 or no#1 as package option to ucs.}\fi}
\LinkUnicodeOptionToPkg
                           Synopsis: \{\langle option \rangle\} \{\langle pkg \rangle\}
                           Links the option \langle option \rangle to package \langle pkg \rangle, i.e. if \langle pkg \rangle is loaded, \langle option \rangle is set.
                           This mechanism is deprecated!
                          100 \def\LinkUnicodeOptionToPkg#1#2{%
                                \SetUnicodeOption Synopsis: [\langle prio \rangle] \{\langle option \rangle\}
                           Activates the unicode option \langle option \rangle, or disables it, if prefixed by no. The option
                           get the priority \langle prio \rangle if activated, whereby the default ist 100.
                          102 \uc@newcommand\SetUnicodeOption{\@protected@testopt\SetUnicodeOption\SetUnicodeOption@{100}}
                          103 \uc@newcommand\SetUnicodeOption@[#1]#2{%
                                \edef\uc@temp@a{@unicode@option@#2}%
                                \expandafter\ifx\csname\uc@temp@a\endcsname\relax
                                  \PackageError{ucs}{Unknown unicode option #2}{}%
                          106
                          107
                                \else
                                   \csname\uc@temp@a\endcsname{#1}%
                          108
                                \fi}
                          109
                          110 \ifx\ProvidesPackage\undefined\else
                          111 \ProvidesPackage{ucs}[2004/10/17 UCS: Unicode input support]%
                          112 \fi
                           Loads the global definitions of the unicode data. This is done so early, because we
                           need the option definitions.
```

If this option is set, we don't include the characters name in error messages, which runs much faster.

 ${\tt 114} \verb|\DeclareUnicodeOption{fasterrors}|$

If this option is set, errors about unknown characters become warnings.

115 \DeclareUnicodeOption{warnunknown}

If this option is set, we try to download and include GIFs from unicode.org to replace missing characters.

116 \DeclareUnicodeOption{graphics}

If this option is set, we try several memory saving optimizations, which slow down the operation.

117 \DeclareUnicodeOption{savemem}

This option is reserved for manual declarations in the document (using \DeclareUnicodeCharacter and \DeclareUnicodeCharacterAsOptional). It is activated by default.

```
118 \DeclareUnicodeOption{document}
119 \SetUnicodeOption[1000] {document}
```

This option contains all normal characters. It is activated by default, but with priority 0, i.e. all other options take precedence.

```
120 \DeclareUnicodeOption{default}
121 \SetUnicodeOption[0] {default}
```

This option switches character combination on and off (see section ??). Switching it off also flushes the combination buffer.

```
122 \XDeclareUnicodeOption{}{combine}{}{%
123
    \let\uc@cmb\empty}{%
124
     \ifx\unicodecombine\undefined\else\unicodecombine\fi
    \def\uc@cmb{\uc@warn@nocombine}}%
126 \ifx\AtBeginDocument\undefined\else
    \AtEndDocument{\unicodecombine}\fi
128 \SetUnicodeOption{nocombine}%
```

\uc@cmb This is called by all combining characters to give a warning, if character combination is not enabled. Its default value is to give a warning, it is redefined to \empty, when character combination is enabled.

129 \def\uc@cmb{\uc@warn@nocombine}%

The usual option processing stuff.

```
130 \ifx\DeclareOption\undefined\else
 131 \DeclareOption{showmagickern}{\def\uc@magic@glue{6805678}}%
 132 \DeclareOption{hyperref}{\AtEndOfPackage{\RequirePackage{ucshyper}}}}%
133 \ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\verb|\CurrentOption|}\ensuremath{\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\currentOption|}\ensuremath{\cur
134 \fi
```

Patch some fontencodings.

```
135 \ifx\AtBeginDocument\undefined
     \uc@warnmsg{Not loading ucsencs.def automatically.\MessageBreak
136
       Please load it after initializing fontencodings}%
137
138 \else
     \AtBeginDocument{\input{ucsencs.def}}\fi
```

If the option graphics is set, we need to load the package graphicx.

140 \AtBeginDocument{\ifUnicodeOptiongraphics\RequirePackage{graphicx}\fi}%

```
\unicode@numtohex Synopsis: \{\langle target \rangle\} \{\langle number \rangle\} \{\langle len \rangle\}
```

Puts the hex representation of $\langle number \rangle$ into the macro $\langle target \rangle$ with at least $\langle len \rangle$ digits. (number) can be any valid TFX-number. The result contains uppercase letters. The assignment to $\langle target \rangle$ is global.

```
141 \uc@newcommand\unicode@numtohex{\protect\unicode@numtohex@}%
142 \uc@newcommand\unicode@numtohex@#1#2#3{%
143
     {%\let\empty\relax\relax
      %\ifx\empty\relax\def\empty{}%
144
         \count255=#2\relax\gdef#1{}%
145
146
         \count252=#3%
147
         \loop
148
         \count253=\count252\advance\count253by\count255\relax
149
         \ifnum\count253>0%
         \ifnum\count252>0\advance\count252by-1\relax\fi
150
         \count254 = \count255\%
151
152
         \divide\count255by16%
153
         \multiply\count255by16%
154
         \advance\count254by-\count255%
         \footnote{Moreover} \align{ } $$ \xdef#1{\ifcase\count254 0\or1\or2\or3\or4\or5\or6\or7\or} \align{ } \end{ } $$
155
           8\or9\or A\or B\or C\or D\or E\or F\fi#1}%
156
         \divide\count255by16\relax
157
         \repeat
158
      %\else
159
      % \def#1{dec:#2}%
160
      %\fi
161
162
      }}
```

\uc@spc Same meaning as \space, but \space is redefined in some contexts (e.g. in a bookmark in hyperref with option pdftex).

163 \let\uc@spc\space

\uc@secondtry

If data is loaded to typeset a given character, its code position is saved herein, so when the character is called again, endless recursion in case of unfixable errors can be avoided using the information in \uc@secondtry

164 \newcount\uc@secondtry

\unicode@invalid Expands into LATEX-Code, which is to be inserted for an unknown unicode character. The character number is given as argument.

```
165 \uc@newcommand\unicode@invalid#1{%
166 \unicode@combine%
```

```
If use of GIFs is activated, begin a group,...
     \ifUnicodeOptiongraphics{%
 ...calculate URL without http:// and trailing .gif, save it to \uc@temp@c
     \ifx\unicode@graphicsdir\undefined
168
       \def\unicode@graphicsdir{ucs-glyphs}\fi
169
     \ifx\unicode@graphicscmd\undefined
170
       \def\unicode@graphicscmd{ucs-getglyph \hex\space \dec\space \path\space}\fi
171
     \unicode@numtohex\hex{#1}4%
172
     \count255 = #1\relax
173
     \divide\count255 by256\relax
175
     \unicode@numtohex\uc@temp@b{\count255}2%
176
     \edef\path{\unicode@graphicsdir/\uc@temp@b/U\hex.ps}%
     \edef\dec{\number#1}%
177
 Test if we already have that image (as PS)
     \IfFileExists{\uc@temp@c}{}{%
 otherwise run shell commands for download and conversion
179
       \typeout{Running: \unicode@graphicscmd}%
180
       \immediate\write18{\unicode@graphicscmd}%
       }%
181
 Try if we have the file now
182 \IfFileExists{\path}{%
 then include it
       \setbox255=\hbox{X}%
183
       \edef\uc@temp@b{\begingroup\noexpand\uni@resetcatcodes
184
         \noexpand\includegraphics[height=\the\ht255, trim=0 22.5 0 17.5]%
185
186
                          {\phi}
187
       \noexpand\ProvidesFile{U\hex.ps}%
           [Downloaded glyph for U+\hex]%
188
       \endgroup}%
189
     \typeout{\meaning\uc@temp@b}%
190
     \expandafter\unicodevirtual\expandafter{\uc@temp@b}%
191
     }{%
192
 otherwise we give a warning
       \PackageWarning{ucs}{File \uc@temp@d\uc@temp@c.ps %SPACE
193
194
         not found.\MessageBreak
         Use\MessageBreak
195
         \verb|\space\space\space\unicode@graphicscmd\MessageBreak| \\
196
197
         or start latex with option -shell-escape\MessageBreak
```

if you have not already done so.}%

198

and use the standard glyph for unknown characters

```
199 \unicodevirtual{\unicode@invalidglyph{#1}}}\else
```

In case we don't want to use GIFs, simple include the standard glyph for invalid characters

```
200 \unicodevirtual{\unicode@invalidglyph{#1}}\fi}
```

\unicode@invalidglyph

This is macro creates the glyph to insert for an unknown character, if everything else fails (see \unicode@invalid). The character code for the substituted character is given in the first argument.

```
\label{lem:constraint} $201 \uc@newcommand\unicode@invalidglyph#1{%} $202 \quad {\unicode@numtohex\uc@temp@d{#1}4%} $203 \quad \fontencoding{OT1}\texttt{[U+\uc@temp@d]}}}
```

\uni@char

```
Synopsis: \{\langle code \rangle\}
```

Expands into the IATEX-macro for unicode character $\langle code \rangle$. Loads the corresponding uni-....def-file if necessary.

```
204 \uc@newcommand\uni@char#1{%

205 \ucs@protected@unichar\iftrue

206 \expandafter\ifx\csname u-\number#1-h/o\endcsname\relax

207
```

If the character is not defined yet, load it.

```
208
         \begingroup
           % In case \let is not executed, this (until ===) expands
209
           % to \let\relax\relax,
210
           % otherwise we have \let\uc@notloaderr\@gobble
211
           % Number of \empty's must equal number of args of \uc@char@notloaded
212
           \let\uc@notloaderr\@gobble\empty\@gobbletwo\relax\relax
213
           % ===
214
         \expandafter\endgroup
215
         % If \let not executed: Warning is emitted (see |\uc@notloaderr|)
216
         % otherwise: |\uc@char@notloaded| is called.
217
         \uc@notloaderr{\number#1}\uc@char@notloaded{#1}%
218
219
       \else
220
```

If the character is loaded, run \uc@checkopts with the options of this character as first arg and the code position as second; this will display the character with the correct option.

```
221 \expandafter\expandafter\uc@checkopts

222 \expandafter\expandafter

223 {\csname u-\number#1-h/o\endcsname}{#1}%

224 \fi
```

```
\noexpand\unichar{#1}%
                          226
                                \fi
                          227
                          228 }
                          229 \begingroup
                          230
                               \lccode'\A='\{\lccode'\B='\}\lccode'\C='\\%
                          231
                                \lccode'\P='\P\lccode'\U='\U%
                          232
                               \lowercase{%
                          233 \endgroup
                                \uc@newcommand\uc@notloaderr#1#2#3{%
                          234
                                  \ifx\@gobble#1\else[Please insert %SPACE
                          235
                          236
                                    CPrerenderUnicodeACunicharA#1BB into preamble]\fi}}
                           Synopsis: \{\langle options \rangle\}\{\langle code \rangle\}
          \uc@checkopts
                           For the character \langle code \rangle which has options \langle options \rangle (each option enclosed in \{\})
                           the corresponding macro is searched an executed.
                          237 \uc@newcommand\uc@checkopts#1#2{%
                           Start the automaton. See ?? for an explanation.
                                \expandafter\uc@checkopt@error\expandafter{\number#2}%
                                  {error}{error}{infinity}#1\@nil
                          239
                          240 }
                          Set the priority of the option infinity to something near to -\infty. This options
      \uo-prio-infinity
                           does not exist, but is used internally in the automaton described in ??.
                          241 \expandafter\uc@newcommand\csname uo-prio-infinity\endcsname{-2100000000}
     \uc@checkopt@stick
                           Now the autogenerated code for the automaton described in ?? follows. It is
    \uc@checkopt@change
                           generated by mkcovariants.pl.
     \uc@checkopt@error
                          242 %% === BEGIN AUTOGENERATED CODE
\uc@checkopt@errorstick
                          243 \uc@newcommand\uc@checkopt@stick#1#2#3#4#5{%
                               \int ifx\0nil#5\%
                          245 \exp \text{andafter} \ csname u-#2-#1\endcsname\relax
                               \uc@localdeferr{#1}{#2}%
                          246
                          247 \else
                                \uc@output{\csname u-#2-#1\endcsname}{#1}%
                          248
                          249 \fi
                          250
                                  \expandafter\@gobblefour
                          251
                                \else
                          252
                                  \iftrue\csname fi\endcsname
                                  \csname ifUnicodeOption#5\endcsname
                          253
                                    \ifnum\csname uo-prio-#2\endcsname>\csname uo-prio-#5\endcsname\uc@spc
                          254
                          255
                                      \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
                                      \uc@checkopt@stick
                          256
                          257
                                    \else
```

225

\else

```
\ifnum\csname uo-prio-#2\endcsname<\csname uo-prio-#5\endcsname\uc@spc
258
                                            \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\
259
                                            \ensuremath{\texttt{expandafter}}\
260
                                           \uc@checkopt@change
261
262
                                     \else
263
                                            \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\
264
                                           \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
265
                                           \uc@checkopt@error
                                    \fi
266
                              \fi
267
268
                        \else
269
                               \expandafter\expandafter\expandafter\uc@checkopt@stick
270
271
                 {#1}{#2}{#5}{#2}%
272
273 }
274 \uc@newcommand\uc@checkopt@change#1#2#3#4#5{%
275
                 \ifx\@nil#5%
276 \expandafter\ifx\csname u-#3-#1\endcsname\relax
277
                 \uc@localdeferr{#1}{#3}%
278 \else
                 \uc@output{\csname u-#3-#1\endcsname}{#1}%
279
280 \fi
                        \expandafter\@gobblefour
281
282
                 \else
                        \iftrue\csname fi\endcsname
283
                        \csname ifUnicodeOption#5\endcsname
284
                              \ifnum\csname uo-prio-#3\endcsname>\csname uo-prio-#5\endcsname\uc@spc
285
                                     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
286
                                     \uc@checkopt@stick
287
288
                              \else
289
                                     \ifnum\csname uo-prio-#3\endcsname<\csname uo-prio-#5\endcsname\uc@spc
290
                                            \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expan
291
                                           \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
                                           \uc@checkopt@change
292
                                     \else
293
                                            \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\
294
295
                                           \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
                                           \uc@checkopt@error
296
297
298
                              \fi
                        \else
299
                               \expandafter\expandafter\expandafter\uc@checkopt@stick
300
                        \fi
301
302
                 \fi
303
                 {#1}{#3}{#5}{#3}%
304 }
305 \uc@newcommand\uc@checkopt@error#1#2#3#4#5{%
                 \int x^0 \pi dx
306
307 \ensuremath{\mbox{\sc derivative}} 1307 \ensuremath{\mbox{\sc derivative}} 41\} \ensuremath{\mbox{\sc derivative}} 307 \ensuremath
```

```
\expandafter\@gobblefour
308
                      \else
309
                               \iftrue\csname fi\endcsname
310
                               \csname ifUnicodeOption#5\endcsname
311
                                       \ifnum\csname uo-prio-#4\endcsname>\csname uo-prio-#5\endcsname\uc@spc
312
313
                                                \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
314
                                               \uc@checkopt@errorstick
315
                                       \else
                                               \ifnum\csname uo-prio-#4\endcsname<\csname uo-prio-#5\endcsname\uc@spc
316
                                                        \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expan
317
                                                         \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
318
                                                        \uc@checkopt@change
319
                                               \else
320
                                                         \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expan
321
                                                        \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
322
                                                         \uc@checkopt@error
323
                                               \fi
324
                                       \fi
325
326
                               \else
327
                                       \expandafter\expandafter\expandafter\uc@checkopt@errorstick
328
                               \fi
                      \fi
329
                      {#1}{#2, #3}{#5}{#4}%
330
331 }
332 \uc@newcommand\uc@checkopt@errorstick#1#2#3#4#5{%
                      \left| \frac{9}{100} \right|
334 \uc@errordrawopt{#1}{#2}{#4}%
335
                               \expandafter\@gobblefour
                      \else
336
                               \iftrue\csname fi\endcsname
337
                               \csname ifUnicodeOption#5\endcsname
338
339
                                       \ifnum\csname uo-prio-#4\endcsname>\csname uo-prio-#5\endcsname\uc@spc
340
                                                \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
                                               \uc@checkopt@errorstick
341
                                       \else
342
                                               \ifnum\csname uo-prio-#4\endcsname<\csname uo-prio-#5\endcsname\uc@spc
343
                                                         \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\
344
                                                        \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
345
                                                        \uc@checkopt@change
346
347
348
                                                         \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expan
                                                        \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
349
                                                         \uc@checkopt@error
350
                                               \fi
351
352
                                       \fi
353
                               \else
                                       \expandafter\expandafter\uc@checkopt@errorstick
354
355
                               \fi
                      \fi
356
```

{#1}{#2}{#5}{#4}%

357

```
358 }
359 % === END AUTOGENERATED CODE
```

\uc@errordrawopt

```
Synopsis: \{\langle code \rangle\}\{\langle bestopts \rangle\}\{\langle prefopt \rangle\}
```

This is called, if several options match the character $\langle code \rangle$ with same priority or when no option matches (then $\langle prefopt \rangle$ is infinity).

In case of several matching options, $\langle bestopts \rangle$ is a comma separated list (with spaces, intended for display) and $\langle prefopt \rangle$ s one of these.

After yielding an error or warning, the character is displayed with option $\langle prefopt \rangle$ (except when $\langle prefopt \rangle$ is infinity, then \unicode@invalid is rendered.

```
360 \let\unicode@empty\empty
361 \uc@newcommand\uc@errordrawopt#1#2#3{%
```

Check whether we are in executing context

```
362 \let\unicode@empty\relax\relax
363 \ifx\unicode@empty\relax\let\unicode@empty\empty
```

if yes, operate normally

```
364 \unicode@numtohex\uc@temp@b{#1}4%
365 \ifnum\csname uo-prio-#3\endcsname=-2100000000\relax
```

If $\langle prefopt \rangle$ is infinity, give an unknown character error and display the character

```
\expandafter\ifx\csname
366
           missing-unicode-warned-\number#1\endcsname\relax
367
           \global\expandafter\let\csname
368
             missing-unicode-warned-\number#1\endcsname\@ne
369
370
           \unicode@error@unknown\@ne{Character \number#1\uc@spc
             \uc@spc= U+\uc@temp@b\uc@spc
371
             matches no activated options.\MessageBreak
372
             Type H to see available options}{#1}%
373
374
         \else
           \PackageWarning{ucs}{Character % SPACE
     \tobe: nothing rendered?
376 %
             \number#1 \uc@spc= 0x\uc@temp@b\uc@spc
377
             appeared again.}%
378
         \fi
379
380
       \else
```

Otherwise inform the user of the collision...

```
381 \@getcharinfo\uc@temp@c{#1}%
382 \PackageWarning{ucs}{Character %SPACE
383 \number#1 \uc@spc= 0x\uc@temp@b\uc@spc
384 matches options\MessageBreak
385 \uc@spc\uc@spc\uc@spc#2\MessageBreak
```

```
with same priority \csname uo-prio-#3\endcsname. %SPACE
Selecting option #3.\MessageBreak
\uc@temp@c}%

and render the glyph corresponding to option \(\rangle prefopt \rangle \).

wc@output{\csname u-#3-#1\endcsname}{#1}%

fi
```

if we are in non-executing context, replace ourself by a \unichar call, since otherwise constructs like \section{abc \SetUnicodeOption{def} ghi} may yield errors (because of writing to the toc file). Note that this is a hack, it is better to make \unichar protected when this happens.

```
391 \else
392 \noexpand\unichar{#1}%
393 \fi
394 }
```

\uc@output

Synopsis: $\{\langle macro \rangle\} \{\langle code \rangle\}$

Output an unicode character. Its glyph macro is $\langle macro \rangle$, its code (for error messages) $\langle code \rangle$.

If \unicode@delay equals 1 (via \let), the character is not output.

If character combination is enabled, outputting is done by \uc@combine.

If the glyph macro defines $\uc@throw$, $\uc@throw$ is executed after defining $\uc@got$ to $\olimits\langle code \rangle$. This allows the macros to yield error messages containing the character code.

```
395 \uc@newcommand\uc@output#1#2{%
396 \ifx\unicode@delay1\let\unicode@delay\relax\else
397 \ifUnicodeOptioncombine
```

If the character is combining, outputting is handled by \uc@combine.

```
398 \expandafter\uc@combine\expandafter{#1}{#2}%
399 \else
```

Output the character

```
400 \uc@prechar@exec{#2}%
401 % \ifx\unicode@charfilter\undefined
402 % #1{}%
403 % \else
404 \unicode@charfilter{#1{}}%
405 % \fi
406 \fi
```

```
defined to \langle code \rangle.
                          \ifx\uc@throw\undefined\else
                   407
                            \def\uc@got{#2}\uc@throw\global\let\uc@throw\undefined\fi
                  408
                       \fi
                  409
                  410 }%
                  411 \uc@newcommand\uc@prechar@exec#1{%
                       \ifx\uc@prechar\undefined\else\uc@prechar{#1}\fi}
   \uc@localdeferr [[[ TO BE DONE ]]]
                  413 \uc@newcommand\uc@localdeferr#1#2{%
                        \@getcharinfo\uc@temp@a{#1}%
                  415
                        \PackageError{ucs}{Internal error in character \number#1, %SPACE
                          option #2}{I probably got confused by intermixed local %SPACE
                  416
                          and global definitions.\MessageBreak Try to load the needed %SPACE
                  417
                          code page via \noexpand\PreloadUnicodePage
                  418
                          before declaring anything by yourself.}{\uc@temp@a}%
                  419
                        \unicode@invalid{#1}%
                  420
                  421 }%
422 \uc@newcommand\uc@warn@nocombine{%
                       \PackageError{ucs}{Please activate option 'combine'}{Composed %SPACE
                  423
                  424
                          characters can only be rendered correctly, when the option %SPACE
                          'combine' is activated}}
                   Document me!!![[ TO BE DONE ]]]
      \uc@combtoks
     \uc@combtoksb
   \verb|\uc@temptokena||^{426} \verb|\newtoks| uc@combtoks|
                   427 \newtoks\uc@combtoksb
                  428 \newtoks\uc@temptokena
  \unicode@combine
                   Document me!!![[[ TO BE DONE ]]]
                   429 \uc@newcommand\unicode@combine{%
                       \uc@check@magicglue%
                   430
                  431
                        \ifx\uc@combining@prechar\undefined\global\let\uc@comb@code\undefined\fi
                        \ifx\uc@comb@code\undefined\uc@temptokena{}\else
                  432
                          \uc@temptokena\expandafter{\expandafter\uc@prechar@exec
                  433
                            \expandafter{\uc@comb@code}}\fi%
                  131
                   435
                        \global\let\uc@comb@code\undefined
                   436
                        \global\expandafter\expandafter\expandafter\expandafter
                  437
                        \expandafter\expandafter\uc@combtoksb
                  438
                        \expandafter\expandafter\expandafter
                        \expandafter\expandafter\expandafter\%
                  439
                          \expandafter\expandafter\the
```

If an exception has been thrown by the glyph macro, execute it with \uc@got

440

```
\expandafter\expandafter\expandafter\uc@combtoksb
                 441
                         \expandafter\the\expandafter\uc@temptokena\the\uc@combtoks}%
                 442
                       \global\uc@combtoks{}}
                 443
                 444 \%\def\uc@magic@glue{680567893}
                 445 \def\uc@magic@glue{5381}
                 446 \uc@newcommand\uc@check@magicglue{%
                 447
                       \ifnum\lastskip=\uc@magic@glue\unskip\else
                 448
                         \begingroup
                           \edef\uc@temp@a{\the\uc@combtoks}%
                 449
                           \ifx\uc@temp@a\empty\else
                 450
                           \PackageWarning{ucs}{Magic kern expected. Probably some %SPACE
                 451
                 452
                             non-unicode characters mixed in while option combine was %SPACE
                             in effect.}\fi\endgroup
                 453
                      fi
                 454
\unicodevirtual
                 455 \uc@newcommand\unicodevirtual#1{%
                      \def\uc@temp@a##1{#1}\uc@output{\csname uc@temp@a\endcsname}{"FFFF}}
                  Document me!!![[ TO BE DONE ]]]
\unicode@combine
                 457 \uc@newcommand\unicodecombine{%
                 458
                      \ifx\protect\@typeset@protect
                         \unicode@combine%
                 459
                 460
                         %\typeout{WRITING: \the\uc@combtoksb}%
                 461
                         \the\uc@combtoksb
                         \uc@prechar@exec{-1}%
                 462
                 463
                         \global\uc@combtoksb{}%
                  If an exception has been thrown by the glyph macro, execute it with \uc@got
                  defined to \langle code \rangle.
                           \ifx\uc@throw\undefined\else
                 464
                 465
                             \def\uc@got{-1}\uc@throw\global\let\uc@throw\undefined\fi
                 466
                         \noexpand\unicodecombine\fi
                 467
                 468 }
                 Document me!!![[ TO BE DONE ]]]
    \uc@combine
                 469 \uc@newcommand\uc@combine#1#2{%
                 470
                       \ifx\protect\@typeset@protect
                 471
                         \@temptokena\expandafter{#1{}}%
                 472
                         \expandafter\expandafter\ifx
                         \expandafter\uc@firstofmany\the\@temptokena\uc@firstofmany\uc@cmb
                 473
                           \uc@check@magicglue%
                 474
                           \uc@combtoks\expandafter\expandafter\expandafter\expandafter
                 475
                          \expandafter\expandafter\expandafter{%
                 476
```

```
\expandafter\expandafter\expandafter\@gobble
477
           \expandafter#1\expandafter{\the\uc@combtoks}}%
478
       \else
479
         \unicode@combine%
480
         \xdef\uc@comb@code{\number#2}%
481
         \global\uc@combtoks\expandafter{#1{}}%
482
483
       %\typeout{->COMBTOKS: \the\uc@combtoks}%
484
       \hskip\uc@magic@glue spplusOptminusOpt %SPACE; Insert magic glue
485
486
     \else
       \noexpand\unichar{\number#2}\fi
487
488 }
```

\uc@char@notloaded Part of \uni@char which is only executed when the character is not defined (yet).

Note that this command breaks kerning and ligatures.

```
489 \uc@newcommand\uc@char@notloaded#1{%
```

Calculate the name of the corresponding file

```
\count255=#1\divide\count255 by 256%
491
     \edef\uc@temp@a{uni-\number\count255.def}%
```

If the file was not loaded yet (\filename) is not set) and we are not just called by uni@char after a first failure (\uc@secondtry is not set to actual character), jump to \else-Branch

```
\expandafter\ifx\csname\uc@temp@a\endcsname\relax\else
492
       \uc@secondtry#1\relax\fi
493
     \ifnum\uc@secondtry=#1\relax
```

If the file has already been loaded, but the character is unknown, output an error and show the replacement glyph

```
\unicode@numtohex\uc@temp@b{#1}4%
495
496
       \expandafter\ifx\csname
497
         missing-unicode-warned-\number#1\endcsname\relax
498
       \global\expandafter\let\csname
         missing-unicode-warned-\number#1\endcsname\@ne
499
         \unicode@error@unknown\@ne{Unknown Unicode character % SPACE
500
           \number#1 \uc@spc= U+\uc@temp@b,\MessageBreak
501
           possibly declared in \uc@temp@a.\MessageBreak
502
503
           Type H to see if it is available with options}{#1}%
504
         \PackageWarning{ucs}{Unknown character % SPACE
505
           \number#1 \uc@spc = 0x\uc@temp@b\uc@spc
506
           appeared again.}%
507
         \unicode@invalid{#1}%
508
509
       \fi
510
     \else
```

Begin a group for included file, so that only explicitly exported macros are defined globally

511 \begingroup

Mark file as loaded (premature, but that's OK)

```
512 \ifUnicodeOptionsavemem
513 % \expandafter\let\csname\uc@temp@a\endcsname\@ne
514 \else
515 \global\expandafter\let\csname\uc@temp@a\endcsname\@ne
```

Set \uc@got to the code position to be loaded (needed for option savemem)

```
517 \def\uc@got{#1}%
```

Reset catcodes to a reasonable default.

518 \uni@resetcatcodes

Load file.

516

Indicate, that unicode data has been loaded (for \uni@activate@option).

```
520 \global\let\uni@dataloaded1%
521 }{%
522 }%
```

End of local group for inputted file

```
523 \endgroup
```

Retry displaying character. This won't cause infinite recursion, because we have marked this file as loaded (globally or, if savemem is set, at least here).

```
524 \uc@secondtry#1\relax%
525 \uni@char{#1}%
526 \fi
527 }
```

\PreloadUnicodePage Loads the uni-....def-file with the given number. Deprecated, not maintained any more. May be removed in the future.

```
528 \uc@newcommand\PreloadUnicodePage#1{%
529 \begingroup
530 \global\expandafter\let\csname uni-#1.def\endcsname\@ne
531 \uni@resetcatcodes
532 \InputIfFileExists{uni-#1.def}{\let\uni@dataloaded1}{%
533 \PackageError{ucs}{Could not find uni-#1.def}{}}%
534 \endgroup}
```

clareUnicodeCharacterAsOptional

```
Synopsis: \{\langle code \rangle\} \{\langle option \rangle\} \{\langle macro \rangle\}
```

\uc@dclc

Both macros set $\langle macro \rangle$ to be the glyph macro for the character $\langle code \rangle$ if option $\langle option \rangle$ is set.

\DeclareUnicodeCharacterAsOptional{#1}{document}{#2}}

The glyph macro is stored in $\u-\langle option\rangle-\langle code\rangle$ and $\langle options\rangle$ is added to the list $\u-\langle code\rangle-h/o$, which is a concatenation of entries of the following syntax: $\(\langle option\rangle\}$.

The following paragraph applies only to \c Cdclc: The character is declared globally. If savemem is set, the character is only declared, if it's code equals \c Qgot and it's option is used (it does not matter, whether enabled or disabled). If savemem is not set and the option is not used, the macro is not defined but the option is saved in \c Code \c h/o to support informative error messages. An existing character declaration is not overwritten. \c Qdclc must not be used outside the automatically loaded uni-*.def files.

Note that if a character is declared by \DeclareUnicodeCharacterAsOptional locally, and than its uni-*.def-file is loaded, it is not overwritten, so after leaving the group the character is undefined, even if it was in the uni-*.def-file. This constellation will not arise, if you declare document-local characters with option document.

```
543 \uc@newcommand\DeclareUnicodeCharacterAsOptional{%
     \let\uc@temp@a\relax\uni@declcharopt}
544
545 \uc@newcommand\uc@dclc#1#2{%
     \let\next=\uni@declcharopt
546
     \ifUnicodeOptionsavemem
547
       \ifnum\uc@got=#1\else
548
         \let\next=\@gobblethree\fi
549
550
     \ifx\next\uni@declcharopt
551
       \expandafter\ifx\csname uni@active@#2\endcsname\relax
552
         \let\next\@gobblethree\else
553
       \expandafter\ifx\csname u-#2-\number#1\endcsname\relax\else
554
         \let\next\@gobblethree\fi\fi
```

```
\let\uc@temp@a\global
556
     \fi
557
     \next{#1}{#2}}
558
```

\uni@declcharopt

This macros does the real work for \DeclareUnicodeCharacterAsOptional and \uc@dclc. The options are the same as with those macros. \uc@temp@a must be \relax for a local definition and \global for a global definition.

```
559 \uc@newcommand\uni@declcharopt#1#2#3{%
     %\typeout{Defining: u-#2-\number#1 (\meaning\uc@temp@a)}%
560
     \ifx\utf@viii@map\undefined\else
561
562
       \expandafter\utf@viii@map\expandafter{\number#1}\fi
563
     \expandafter\uc@temp@a\expandafter\def
       \csname u-#2-\number#1\endcsname##1{#3}%\fi
564
     \expandafter\ifx\csname u-\number#1-h/o\endcsname\relax
565
       \expandafter\def\csname u-\number#1-h/o\endcsname{}\fi
566
     \expandafter\uc@temp@a\expandafter\edef
567
       \csname u-\number#1-h/o\endcsname{%
568
569
       {#2}\csname u-\number#1-h/o\endcsname}%
    }%
570
```

Outputs the unicode character number #1.

571 \let\unichar\uni@char

\unicodesuper \unicodesub \unicodecircle \unicodesquare \unicodevertical

Commands to apply to compositions which have the flag <super>, <sub>, <circle>, <square>, <vertical>, <wide> resp. <small> in the unicode database. These are needed for some autogenerated macros, but you have to define them by yourself. These macros are only used inside \uc@output, \uc@throw can be used.

 $\verb|\unicodewide|| 572 \verb|\unicodewide|| 572 \verb|\unic$

\unicodesmall 573 %\uc@newcommand\unicodesub#1{%

574 % \@latex@error{\protect\unicodesub\uc@spc not supported}\@eha}

575 %\uc@newcommand\unicodecircle#1{%

576 % \@latex@error{\protect\unicodecircle\uc@spc not supported}\@eha}

577 %\uc@newcommand\unicodesquare#1{%

578 % \@latex@error{\protect\unicodesquare\uc@spc not supported}\@eha}

579 %\uc@newcommand\unicodevertical#1{%

580 % \@latex@error{\protect\unicodevertical\uc@spc not supported}\@eha}

581 %\uc@newcommand\unicodewide#1{%

582 % \@latex@error{\protect\unicodewide\uc@spc not supported}\@eha}

583 %\uc@newcommand\unicodesmall#1{%

584 % \@latex@error{\protect\unicodesmall\uc@spc not supported}\@eha}

\Quad Qgetcharinfo Synopsis: $\{\langle target \rangle\} \{\langle code \rangle\}$

is scanned for this purpose, unless disabled by the option fasterrors.

```
\begingroup
                        586
                              \countdef\uc@got0\relax\uc@got#2\relax
                        587
                              \global\def#1{Character's name unknown}%
                        588
                              \def \inf #1{xdef #1{##1}}%
                        589
                        590
                              \uni@resetcatcodes
                        591
                              \ifUnicodeOptionfasterrors
                              \global\def#1{No further informations known % SPACE
                        592
                                because of option fasterrors.}\else
                        593
                              {\InputIfFileExists{uninames.dat}{}{%
                        594
                                 \global\def#1{Character database uninames.dat not found. %SPACE
                        595
                        596
                                   \MessageBreak Character \number#2 \uc@spc unknown}}}%
                        597
                              \fi
                        598 %
                              \toks255{}%
                        599
                              \def\uc@dclc##1##2##3{\ifnum##1=\uc@got
                        600
                                 \toks255\expandafter{\the\toks255, ##2}\fi}%
                        601
                              \count255\uc@got\divide\count255by256\relax
                        602
                        603
                              %\edef\temp@a{uni-\number\count255.def}%
                        604
                              \InputIfFileExists{uni-\number\count255.def}{}{}%
                              \expandafter\ifx\expandafter\@nil\the\toks255 \@nil
                        605
                        606
                                 \xdef#1{#1\noexpand\MessageBreak
                                   Character is not defined in uni-*.def files}%
                        607
                        608
                              \else
                        609
                                 \expandafter\expandafter\expandafter\@getcharinfo@
                                 \expandafter\expandafter\expandafter#1%
                        610
                                 \expandafter\expandafter\expandafter
                        611
                                 {\expandafter#1\expandafter}\the\toks255 \@nil%
                        612
                              \fi
                        613
                              \endgroup}
                        614
                        615 \ensuremath{\mbox{\mbox{$0$}}} 15 \ensuremath{\mbox{\mbox{\mbox{$0$}}}} 142, #3\ensuremath{\mbox{\mbox{$0$}}} 142\ensuremath{\mbox{\mbox{$0$}}}
                        616
                                 Character available with following options:\MessageBreak
                        617
                                 \uc@spc\uc@spc\uc@spc #3}}
                         Synopsis: \{\langle number \rangle\}
    \PrintUnicodeName
                         Prints information on character \langle number \rangle via \typeout.
                        618 \uc@newcommand\PrintUnicodeName#1{{%
                              \@getcharinfo{\ci}{#1}%
                        619
                        620
                              \def\MessageBreak{^^J}%
                              \typeout{^^J\ci^^J}}}
                        621
                         Synopsis: \{\langle \setminus command \rangle\}
   \UnicodeCharFilter
                         Sets (\command) to be called as a filter for each glyph macro. The glyph macro is
                         given as the only argument.
                        622 \uc@newcommand\UnicodeCharFilter#1{\let\unicode@charfilter=#1}
   \UCSProtectionNone
    \UCSProtectionIeC
\UCSProtectionUnichar
```

585 \uc@newcommand\@getcharinfo#1#2{%

```
623 \uc@newcommand\UCSProtectionNone{%
     \def\ucs@protected@unichar{}%
624
     \UnicodeCharFilter\@firstofone}
625
626 \ \command\UCSProtectionIeC{\%}
     \def\ucs@protected@unichar{}%
627
628
     \UnicodeCharFilter\IeC}
629 \uc@newcommand\UCSProtectionUnichar{%
     \def\ucs@protected@unichar##1{\ifx\protect\@typeset@protect}%
630
     \UnicodeCharFilter\@firstofone}
631
632 \UCSProtectionIeC
```

\uni@resetcatcodes

Sets the catcode to reasonable defaults. Used before inputting uni-....def-files, because this can occur anywere. Note that @ is of category "letter".

```
633 \uc@newcommand\uni@resetcatcodes{%
     \endlinechar=13\relax
634
635
     \def\reserved@a##1##2{%
       \@tempcnta##1\relax
636
       \@tempcntb##2\relax
637
638
       \reserved@b
       }%
639
     \def\reserved@b{%
640
641
       \ifnum\@tempcnta>\@tempcntb\else
642
       \reserved@c\@tempcnta
       \advance\@tempcnta\@ne
643
       \expandafter\reserved@b
644
       \fi
645
       }%
646
     \catcode'\ =10\relax
647
648
     \catcode'\#=6\relax
     \catcode'\$=3\relax
649
     \catcode'\%=14\relax
650
     \catcode'\&=4\relax
651
     \catcode'\\=0\relax
652
     \colored{catcode'}^=7\relax
653
654
     \catcode'\_=8\relax
655
     \catcode'\{=1\relax
     \catcode'\}=2\relax
656
     \catcode'\~=13\relax
657
     \catcode'\@=11\relax
658
     \colored{'}^I=10\relax
659
     \colored{'}^{J=12\relax}
660
     \catcode'\^^L=12\relax
661
     \catcode'\^^M=5\relax
662
     \def\reserved@c##1{\catcode##1=12\relax}%
663
664
     \reserved@c{'\!}%
665
     \reserved@c{'\"}%
     \reserved@a{'\'}{'\?}%
666
667
     \reserved@c{'\[}%
668
     \reserved@c{'\]}%
```

```
\reserved@c{'\'}%
669
670
     \reserved@c{'\|}%
     \def\reserved@c##1{\catcode##1=11\relax}%
671
     \ensuremath{\mbox{reserved@a{'\A}{('\Z})}}
672
     \reserved@a{('a){('z)}}
673
674
     \def\reserved@c##1{\catcode##1=15\relax}%
675
     \reserved@a{0}{'\^^H}%
676
     \reserved@c{'\^^K}%
     \reserved@a{'\^^N}{31}%
677
     \catcode"7F=15\relax
678
     \relax}
679
```

\unicode@error@unknown

Synopsis: $\{\langle replacement \rangle\}\{\langle msg \rangle\}\{\langle code \rangle\}$

Outputs a warning or an error, depending of option warnunknown. When the user types "I!", he is asked for a definition for the missing glyph which is defined with option default. If $\langle replacement \rangle$ is ne, typeset the invalid glyph or the newly defined one. $\langle replacement \rangle$ must be z otherwise. character.

\Ogetcharinfo is used for the detail message.

```
680 \catcode'\!13\relax
681 \uc@newcommand\unicode@error@unknown{\protect\unicode@error@unknown@}%
682 \uc@newcommand\unicode@error@unknown@#1#2#3{%
```

When we are in an amstex environment like align, errors and warnings are disabled during measurement. Since an missing character error is only yielded once, this should not be so. So we trick amstex by setting \measuring@false locally.

```
{\expandafter\countdef\expandafter\uc@got\expandafter0%
683
684
        \expandafter\relax\expandafter\uc@got\number#3\relax
     \ifx\measuring@false\undefined\else\measuring@false\fi
685
686
     \@getcharinfo\uc@temp@c{#3}%
     \ifUnicodeOptionwarnunknown
687
       \PackageWarning{ucs}{#2\MessageBreak\uc@temp@c.\MessageBreak
688
           Enter I\noexpand!<RET> to define the glyph.}%
689
690
       \ifx#1\@ne\unicode@invalid{#3}\fi
691
     \else
       \let!\unicode@read@definition\catcode'\!13\relax
692
       \let\uc@read@definition\undefined
693
       \PackageError{ucs}{#2}{\uc@temp@c.\MessageBreak
694
           Enter I\noexpand!<RET> to define the glyph.}%
695
696
       \ifx\uc@read@definition\undefined\unicode@invalid{#3}%
697
       \else\uc@read@definition\fi\fi
698
699
     fi}
700 \catcode'\!12\relax
701 \uc@newcommand\unicode@read@definition{%
     \uni@resetcatcodes
702
703
     \typein[\definition]{Please enter definition for %SPACE
704
       unicode character \number\uc@got}%
```

```
\global\let\uc@read@definition\definition
705
     \toks255\expandafter{\definition}%
706
     \edef\definition{\noexpand\DeclareUnicodeCharacter%
707
        {\number\uc@got}{\the\toks255}}%
708
     \toks255\expandafter{\definition}%
709
     \typeout{Tip:\MessageBreak You may include\MessageBreak
710
711
        \uc@spc\uc@spc\the\toks255\MessageBreak
712
        into your document source.}%
     \t \sum_{t \in \mathbb{Z}} \frac{1}{t}
713
     }
714
```

\uc@firstofmany Use \uc@firstofmany $\langle args \rangle$ \uc@firstofmany to get the first token of $\langle args \rangle$.

715 \def\uc@firstofmany#1#2\uc@firstofmany{#1}

utf8.def has been renamed to utf8x.def, utf8.def is now the LaTeX kernel's UTF-8. To support old documents, we detect whether ucs.sty and utf8.def are in used, but utf8x is not loaded. In that case we emit a warning and try to patch \inputencoding to emulate the old behaviour. (If no \usepackage{ucs} appears, we are helpless, of course.)

```
716 \ifx\AtBeginDocument\undefined\else
717 \AtBeginDocument{\def\uc@tempa{\@inpenc@undefined@{utf8}}%
    \ifx\@inpenc@undefined\uc@tempa
718
    \ifx\restore@utf@viii@actives\undefined
719
    \PackageWarning{ucs}{*********************MessageBreak You %SPACE
720
      seem to have loaded inputencoding utf8\MessageBreak (LaTeX kernel %SPACE
721
722
      UTF-8) instead of utf8x (ucs.sty UTF-8).\MessageBreak Probably you %SPACE
723
      are compiling a document written for a\MessageBreak
724
      pre-august-2004 ucs.sty.\MessageBreak
      ******** Please use %SPACE
725
      \string\usepackage[utf8x]{inputenc} instead of\MessageBreak
726
727
      \string\usepackage[utf8]{inputenc}.\MessageBreak
728
      to use ucs.sty and kernel's\MessageBreak utf8.def together, use %SPACE
729
730
      \string\usepackage[utf8x,utf8]{inputenc}\MessageBreak to disable %SPACE
      compatibility mode\MessageBreak
731
      732
733
      mode.\MessageBreak *****************MessageBreak}%
734
    \global\let\uc@inputencoding\inputencoding
    \inputencoding{utf8x}%
735
736
    \def\inputencoding#1{%
      {\def\uc@tempa{#1}\def\uc@tempb{utf8}\ifx\uc@tempa\uc@tempb
737
738
        \aftergroup\@firstoftwo\else\aftergroup\@secondoftwo\fi}%
      {\restore@utf@viii@actives}{\uc@inputencoding{#1}}}%
739
    \fi\fi
740
741 }\fi
742 %
```

```
743 %
744 ⟨/ucs.sty⟩
```

3.2 File ucsutils.sty

```
745 (*ucsutils.sty)
```

If running under LATEX, parse options. Each option is assumed to be the name of macro to be imported. All macro names are saved into \@ucsutils, each prefixed by \\.

When running Plain- T_EX , define \@ucsutils directly and then load ucsutils.sty using \input.

```
746 \ifx\DeclareOption\undefined\else
747 \ProvidesPackage{ucsutils}[2002/04/23 UCS: Auxiliary macros]%
748 \RequirePackage{ucs}%
749 \ifx\Qucsutils\undefined\let\Qucsutils\empty\fi
750 \DeclareOption*{%
751 \edef\ucQtempQa{\csname\CurrentOption\endcsname}%
752 \expandafter\gQaddtoQmacro\expandafter\Qucsutils\expandafter
753 {\expandafter\\ucQtempQa}}%
754 \ProcessOptions*%
755 \fi
```

Define each macro, which is to be loaded, to 1. This is later using to be able to check fast, whether a macro should be defined.

```
756 {\def\\#1{\ifx#1\relax\global\let#11\fi}\@ucsutils}%
```

\@ucsutils@section

Checks whether the gives macro is to be defined. If yes, ^B is ignored, otherwise ^B is a comment. So after a call to \@ucsutils@section every line should be prefixes with ^B.

This macro is only used during the loading of ucsutils.sty.

757 \def\@ucsutils@section#1{\ifx#11\catcode2=9\else\catcode2=14\fi\relax}%

Execute the following stuff (prefixed with ^^B) only if \UnicodeEmbedFont is to be loaded.

 $758 \verb|\QucsutilsQsection\UnicodeEmbedFont|$

We need keyval.sty for \setkeys in \UnicodeEmbedFont.

759 ^^B\RequirePackage{keyval}%

\UnicodeEmbedFont

```
Synopsis: \{\langle options \rangle\}
```

Declares an Unicode character range to be mapped directly to a font.

 $\langle options \rangle$ is a comma separated list of key/value-pairs. The following keys are supported.

- encoding: This is currently ignored. You may set it to the encoding of the font. If your font has a fontencoding, then you should provide it, since this key may be implemented in future.
- start: Start of the mapped range (Unicode position). This key is mandatory.
- fontstart: Start of the mapped range (in the font). Default: 0.
- num: Length of the range. Default: Upto the end of the font.
- option: Unicode-Option of the defined Unicode characters. Default: document.

Note that presently you have to switch to the desired font manually before using the Unicode characters. No checking whether the correct font is activated is done.

760 ^^B\def\UnicodeEmbedFont#1{%

Define keys for \setkeys if not yet done.

```
761 ^^B \ifx\KV@ucembedfont@start\undefined
762 ^^B \define@key{ucembedfont}{encoding}{\def\uc@embedfont@enc{##1}}%
763 ^^B \define@key{ucembedfont}{start}{\def\uc@embedfont@start{##1}}%
764 ^^B \define@key{ucembedfont}{fontstart}%
765 ^^B \def\uc@embedfont@fontstart{##1}}%
766 ^^B \define@key{ucembedfont}{\num}{\def\uc@embedfont@fontstart{##1}}%
767 ^^B \define@key{ucembedfont}{\option}{\def\uc@embedfont@option{##1}}%
768 ^^B \fi
```

Define defaults.

```
769 ^^B \let\uc@embedfont@enc\undefined % Ignored
770 ^^B \let\uc@embedfont@start\undefined
771 ^^B \def\uc@embedfont@fontstart{0}%
772 ^^B \let\uc@embedfont@num\undefined
773 ^^B \def\uc@embedfont@option{document}%
```

Parse arguments.

```
774 ^^B \setkeys{ucembedfont}{#1}%
```

Error, when no start of range is given.

```
775 ^B \ifx\uc@embedfont@start\undefined
776 ^B \uc@errormsg{\string\UnicodeEmbedFont\space
777 ^B needs argument start=...}{}\fi
```

Rewrite numbers in \uc@embedfont@fontstart and \uc@embedfont@start, so that we know them to be simple decimal (and hopefully positive) numbers.

```
778 ^B \edef\uc@embedfont@fontstart{\number\uc@embedfont@fontstart}% 779 ^B \edef\uc@embedfont@start{\number\uc@embedfont@start}%
```

If no num-argument was given, calculate it so that the range goes until the end of the font.

```
780 ^^B \ifx\uc@embedfont@num\undefined
781 ^^B \@tempcnta-\uc@embedfont@fontstart
782 ^^B \advance\@tempcnta by256
783 ^^B \edef\uc@embedfont@num{\number\@tempcnta}%
784 ^^B \fi

Start real work.

For \@tempcnta = 0 to \uc@embedfont@num...For \@tempcntb = 0 to \uc@embedfont@start+\uc@embedf
```

786 ^^B \@tempcntb\uc@embedfont@fontstart

787 ^^B \loop\ifnum\@tempcnta<\uc@embedfont@num

Temporarily increase \@tempcnta by \uc@embedfont@fontstart, now it points to the actual position in the font.

788 ^^B \advance\@tempcnta by\uc@embedfont@start

We put the \char...-call into \uc@temp@a.

```
789 ^^B \edef\uc@temp@a{%
790 ^^B \noexpand\char\number\@tempcntb\space}%
```

And we define the Unicode character number \@tempcntb (option \uc@embedfont@option) to call character \uc@temp@a.

```
791 ^^B \expandafter\DeclareUnicodeCharacterAsOptional 
792 ^^B \expandafter\\@tempcnta\expandafter\\% 
793 ^^B \expandafter\\expandafter\uc@embedfont@option\expandafter\\% 
794 ^^B \expandafter\\uc@temp@a\\%
```

Restore tempenta.

785 ^^B \@tempcnta0

795 ^^B \advance\@tempcnta by-\uc@embedfont@start

Increase loop variables.

```
796 ^B \advance\@tempcntb by1
797 ^B \advance\@tempcnta by1
798 ^B \repeat
799 ^B}
```

Execute the following stuff (prefixed with ^^B) only if \univerb is to be loaded.

800 \@ucsutils@section\univerb

\uc@vbsetchar

```
801 ^^B\def\uc@vbsetchar#1#2{%
802 ^^B \catcode#1\active
803 ^^B \begingroup\uccode'\~#1\uppercase{\endgroup\edef^}{#2}}
```

\univerb This macro behaves similar to the \verb macro. Note the following:

- No font change is effectuated.
- All characters < 128 (exceptions below) are handled by \unichar.
- All characters >= 128 are handled by the active inputencoding (try e.g. utf8).
- Combining mode is activated during the \univerb execution.
- Space (ASCII 32) does an implicit \unicodecombine.
- CR (ASCII 13) gives a line break (and an implicit \unicodecombine), but does not call \unichar{13}.
- Do not use [as the beginning of the verbatim sequence, this is reserved for future enhancements.

```
\string\univerb\space has optional argument}{%
                                        805 ^^B
                                        806 ^^B
                                                                        \string\univerb[...] is not supported}\fi%
                                         807 ^^B \bgroup
                                         808 ^^B \@tempcnta\@ne
                                        809 ^^B \loop\ifnum\@tempcnta<128\relax
                                        810 ~~B
                                                                        \uc@vbsetchar\@tempcnta{\noexpand\unichar{\number\@tempcnta}}%
                                        811 ^^B
                                                                        \advance\@tempcnta by\@ne
                                        812 ^^B \repeat
                                        813 ^B \uc@vbsetchar{32}{\noexpand\unicodecombine\noexpand\unichar{32}}}%
                                         814 ^^B
                                                                  \uc@vbsetchar{13}{\noexpand\unicodecombine\noexpand\leavevmode\noexpand\\%
                                        815 ^^B
                                                                        \noexpand\leavevmode}%
\verb@egroup
                                        816 ^^B \def\verb@egroup{%
                                        817 ^^B
                                                                        \SetUnicodeOption{nocombine}%
                                         818 ^^B
                                                                        \global\let\verb@balance@group\@empty\egroup}%
                                         819 ^^B \SetUnicodeOption{combine}%
                                        820 ^^B \@sverb}
                                           [[[ TO BE DONE ]]]
                                        821 \@ucsutils@section\unistring
                                        822 ^^B\def\uc@spacechar\futurelet\uc@spacechar\empty}\expandafter\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@spacechar\uc@
```

```
823 ^^B\def\@unistring#1{%
824 ^^B \ifx\uc@temp@a\uc@spacechar
825 ^^B
                                         \verb|\decombine\unichar{32}| % \end{|\decombine\unichar{32}} % 
826 ^^B
                                \fi
827 ^^B
                                \ifx\tw@#1\else
828 ^^B
                                         \ifx\@ne#1\else
829 ^^B
                                                  \ifnum'#1<128
830 ^^B
                                                          \@temptokena\expandafter{\the\@temptokena\unichar{'#1}}%
831 ^^B
                                                  \else
832 ~~B
                                                          \verb|\delta| expands fter{\the \demptoken a #1}|| % is a finite of the larger of the la
833 ^^B
                                                  \fi
834 ^^B
                                         \fi%
835 ^^B
                                          \expandafter\futurelet\expandafter\uc@temp@a\expandafter\@unistring
836 ^^B
837 ^^B}
838 ^^B\DeclareRobustCommand\unistring[1]{%
839 ^^B \let\uc@temp@a\undefined
840 ^^B \@temptokena{}%
841 ^^B \@unistring\@ne#1\tw@
842 ^^B {\SetUnicodeOption{combine}%
843 ^^B \the\@temptokena
844 ^^B
                               \SetUnicodeOption{nocombine}}}
   Find out with macros where requested but not defined. Give an error for each.
   Undefine them (they were defined to 1 above).
845 {\def\\#1{%
846
                             \ifx#11%
                              \uc@errormsg{Can't load \string#1}{You have given the option
847
                                     \expandafter\@gobble\string#1 to ucsutils,\MessageBreak but
848
                                             there is no command called \string#1 in ucsutils.sty.}%
849
                                     \global\let#1\undefined
850
                             \fi}
                    \@ucsutils}%
852
   Clean up.
853 \let\@ucsutils\undefined
854 \let\@ucsutils@section\undefined
855 \catcode2=15
856 %
857 %
859 (/ucsutils.sty)
                             File utf8x.def
   3.3
860 (*utf8x.def)
861 \ifx\ProvidesFile\undefined\else
862 \ProvidesFile{utf8x.def}[2004/10/17 UCS: Input encoding UTF-8]%
```

```
867 \ifx\@gobble\undefined\def\@gobble#1{}\fi
868 \ \texttt{\Qgobbletwo\undefined\def\Qgobbletwo\#1\#2\{}\fi
 Checks if \unichar is defined. Otherwise yields an error. This check is delayed
 until \begin{document} if necessary.
869 \ifx\AtBeginDocument\undefined\else
     \ifx\@nodocument\relax\else\expandafter\AtBeginDocument\fi
     {\ifx\unichar\undefined{\PackageError{utf8x}{%
871
872
           Please use \protect\usepackage{ucs} to support encoding utf8x}{}}\fij%
873 \fi
 Requires package ucs at end of including inputenc package, if still in preamble.
874 \ifx\AtEndOfPackage\undefined\else
875 \ \texttt{\Cnodocument\relax\else\AtEndOfPackage\{\RequirePackage\{ucs\}\}\fi\%}
876 \fi
877 \def\utf@viii@err#1{%
     \PackageError{utf8x}{Character \number#1 \uc@spc appeared alone}{%
       Characters 128-191 are only allowed as arguments to characters 194-244}}
879
880 \def\utf@viii@xnum#1#2\utf@viii@err#3#4\@nil{%
     \ifx\empty#3%
881
882
     \count#1=-1\relax
     \PackageError{utf8x}{Malformed UTF-8 sequence}{%
883
       If the character is an argument, put it in {}}\else
884
     \count#1=#3\fi
885
886 \def\utf@viii@undef#1#2#3#4{%
```

Only load this file once. If it has already been loaded, just execute \restoreQutfQviiiQactives.

864 \expandafter\ifx\csname restore@utf@viii@actives\endcsname\relax\else \csname restore@utf@viii@actives\endcsname\expandafter\endinput\fi

866 \count255=\catcode'\@\catcode'\@11 %SPACE

\advance\countOby-12416\relax 895 \ifx#4\@nil % Three-byte sequences 896

\advance\count0by\count1\relax

\multiply\countOby64\relax

\ifx#3\@nil % Two-byte sequences

- \expandafter\utf@viii@xnum\expandafter1#2\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty 897
- \expandafter\utf@viii@xnum\expandafter2#3\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty 898

\expandafter\utf@viii@xnum\expandafter1#2\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty

- 899
- 900

\ifnum\count1=-1 \count0=192\count1="1007D\fi

\multiply\countOby64\relax 901

\begingroup

\count0=#1\relax

887

888

889 890

891

892

893

894

- 902 \advance\count0by\count1\relax
- 903 \multiply\countOby64\relax

```
\advance\count0by\count2\relax
904
     \advance\countOby-925824\relax
905
     \else % Four-byte sequences
906
     \expandafter\utf@viii@xnum\expandafter1#2\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
907
     \expandafter\utf@viii@xnum\expandafter2#3\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
908
     \expandafter\utf@viii@xnum\expandafter3#4\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
909
910
     \label{lem:count1} $$ \left( \frac{1}{128} \right) = 1.007D fi 
911
     \ifnum\count2=-1 \count0=240\count1=128\count2=128\count3="1007D\fi
     \ifnum\count3=-1 \count0=240\count1=128\count2=128\count3="1007D\fi
912
     \multiply\countOby64%
913
     \advance\count0by\count1%
914
     \multiply\count0by64%
915
     \advance\count0by\count2%
916
917
     \multiply\count0by64%
     \advance\count0by\count3%
918
     \verb|\advance| count 0 by - "3C82080| relax|
919
920
     \begingroup\expandafter\utf@viii@map\expandafter{\number\count0}\endgroup
921
922
     \expandafter\endgroup
     \expandafter\unichar\expandafter{\number\count0}}%
924 \def\utf@viii@make#1#2#3#4#5#6{%
    \count255=#1\relax
926 \loop\ifnum\count255<#2\relax
    \catcode\count255\active
927
    \begingroup
928
      \uccode'\~\count255%
929
      \uccode'\u'\u%
930
      \uppercase{%
931
    \endgroup
932
      \edef~%
933
    #3{\noexpand\expandafter\noexpand\ifx\noexpand\csname u8-\number\count255-#4\noexpand\endcsnam
934
935
      \begingroup
 In case \let is not executed, this (until ===) expands to \let\relax\relax,
 otherwise we have \let\utf@viii@undeferr\@gobble Number of 's must equal
 number of args of \utf@viii@undef
936
        \let\noexpand\utf@viii@undeferr
937
        \noexpand\@gobble\noexpand\empty\noexpand\empty
938
        \noexpand\empty\noexpand\empty\noexpand\@gobbletwo\relax\relax
939
      \noexpand\expandafter\endgroup
940
      % If \let not executed: \utf@viii@undeferr is called
941
      % otherwise: \utf@viii@undef.
942
      \noexpand\utf@viii@undeferr{\noexpand\string\noexpand~\noexpand\string#6}%
943
        \noexpand\utf@viii@undef{\number\count255}#5%
944
    \noexpand\else
945
      \noexpand\expandafter\noexpand\unichar\noexpand\expandafter{%
946
        \noexpand\csname u8-\number\count255-#4\noexpand\endcsname}\noexpand\fi}}%
947
    \advance\count255by1\relax
```

```
949 \repeat}%
950 \def\restore@utf@viii@actives{%
951
     \let\@inpenc@test\relax
     \utf@viii@make{224}{240}{####1###2}{\noexpand\string###1\noexpand\string###2}{{####1}{####
953
     \utf@viii@make{240}{245}{####1###2###3}{\noexpand\string####1\noexpand\string####2\noexpand
954
955 %
     \count255=128\relax
956
     \verb|\loop\ifnum\count255<192\relax|
957
     \catcode\count255\active
958
     \begingroup
959
       \uccode'\~\count255 %SPACE
960
       \uppercase{%
961
962
     \endgroup
       \edef~}%
963
964
     {\noexpand\utf@viii@err{\number\count255}}%
965
    \advance\count255by1\relax
    \repeat}%
966
967 \def\utf@viii@map#1{%
968
     \begingroup
     \count0=#1\divide\count0by64\relax
969
970
     \infty 1<"80\relax
     % ASCII is not handled by utf8x.def
     \left| \frac{1}{300}\right|
972
       \count1=-\count0\multiply\count1by64\advance\count1by#1\relax
973
       \advance\count0by192\advance\count1by128\relax
974
       \begingroup
975
         \lccode'\B=\count1 %SPACE
976
         \lowercase{%
977
978
       \endgroup
          \tracingassigns=3 \tracingonline=3
979 %
         \expandafter\gdef\csname u8-\number\count0-B\endcsname}{#1}%
980
     \else\ifnum#1<"10000\relax
981
       \count2=-\count0\multiply\count2by64\advance\count2by#1\relax
982
983
       \divide\countOby64 %SPACE
984
       \count1=-\count0\multiply\count1by4096\advance\count1by#1%
       \divide\count1by64%
985
       \advance\count0by224\advance\count1by128\advance\count2by128 %SPACE
986
       \begingroup
987
         \lccode'\B=\count1 %SPACE
988
         \lccode'\C=\count2 %SPACE
989
990
         \lowercase{%
991
       \endgroup
         \expandafter\gdef\csname u8-\number\count0-BC\endcsname}{#1}%
992
     \else\ifnum#1<"110000 %SPACE
993
       \count3=-\count0\multiply\count3by64\advance\count3by#1\relax
994
       \divide\countOby64 %SPACE
995
996
       \count2=-\count0\multiply\count2by4096\advance\count2by#1%
997
       \divide\count2by64%
```

```
\divide\countOby64 %SPACE
 998
                 \count1=-\count0\multiply\count1by262144\advance\count1by#1%
 999
                 \divide\count1by4096 %SPACE
1000
                   \typeout{\number#1=\number\count0*262144+\number\count1*4096+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\number\count2*64+\numb
1001 %
                 \advance\count0by240\advance\count1by128%
1002
1003
                 \advance\count2by128\advance\count3by128 %SPACE
1004
                 \begingroup
                     \lccode'\B=\count1 %SPACE
1005
                     \lccode'\C=\count2 %SPACE
1006
                     \lccode'\D=\count3 %SPACE
1007
                     \lowercase{%
1008
1009
                 \endgroup
                      \expandafter\gdef\csname u8-\number\count0-BCD\endcsname}{#1}%
1010
1011
            \else
                 \PackageWarning{utf8x}{Invalid code position \number#1 \uc@spc
1012
                     defined,\MessageBreak unrepresentable in UTF-8}%
1013
            \fi\fi\fi\fi
1014
            \endgroup
1015
1016 }
1017 \begingroup
            \lccode'\A='\{\lccode'\B='\}\lccode'\C='\\%
1018
            \lccode'\P='\P\lccode'\U='\U%
1019
            \lowercase{%
1020
1021 \endgroup
1022
            \def\utf@viii@undeferr#1#2#3#4#5#6{%
                 \ifx\@gobble#1\else[Please insert CPrerenderUnicodeA#1B into preamble]\fi}}
1023
   Checks (at \begin{document}) whether some utf8-chars have been redefined (e.g.
   by polutonikogreek.ldf). Warns and corrects if necessary.
1024 \verb|\fix\DeltatBeginDocument\underline{\ndefined}| else
            \ifx\@nodocument\relax\else
1025
1026
                 \AtBeginDocument{%
                 \begingroup
1027
1028
                 \expandafter\def\expandafter\temp@a\expandafter#\expandafter1%
1029
                      \string\utf@viii@#2\@nil{%
                          \ifx\@nil#2\@nil\count2\count0\else\count1\count0\fi}%
1030
                 \count0=128 \count1=0 \count2=0 %SPACE
1031
1032
                 \loop\ifnum\count0<245 %SPACE
1033
                 \ifnum\count0=192 \advance\count0by2 \fi
                 \lccode'\~\count0 %SPACE
1034
                 \ifnum\catcode\count0=13 %SPACE
1035
1036
                     \lowercase{%
                     \expandafter\expandafter\expandafter\meaning\expandafter-"%
1037
                          \string\utf@viii@\@nil}%
1038
1039
                 \else
                      \count2\count0\fi
1040
1041
                 \advance\count0by1 %SPACE
1042
                 \repeat
                 \ifnum\count1=0 \else\ifnum\count2=0 \else
1043
```

```
\PackageWarning{utf8x.def}{Character(s) \number\count2\space\space
1044
            etc. got redefined somewhere.\MessageBreak
1045
            Restoring to its utf8x-meaning}%
1046
          \aftergroup\restore@utf@viii@actives
1047
1048
        \fi\fi
1049
        \endgroup}%
1050
      \fi
1051 \fi
 Restore @
1052 \catcode \@=\count255\relax
1053 \verb|\csname| restore@utf@viii@actives\\endcsname
1054 %
1055 %
1056 (/utf8x.def)
 3.4 File ucsencs.def
1057 (*ucsencs.def)
1058 \ifx\ProvidesFile\undefined\else
1059 \ProvidesFile{ucsencs.def}[2011/01/21 Fixes to fontencodings LGR, T3]
1060 \fi
1061 \expandafter\edef\csname uc@temp@d\endcsname{%
      \noexpand\catcode'\noexpand\@=\number\catcode'\@\relax
      \noexpand\catcode'\noexpand\^=\number\catcode'\^\relax
1063
      \noexpand\catcode'\noexpand\"=\number\catcode'\"\relax
1064
      \verb|\noexpand/catcode1=\number/catcode1| relax|
1065
      \noexpand\catcode2=\number\catcode2\relax
1066
1067 }%
1068 \catcode \@11
1069 \catcode '\"12
1070 \ifx\@backslashchar\undefined
1071 \qquad \texttt{\@backslashchar{\expandafter@gobble\string\\}} fi
1072 \catcode \^7
1073 \@tempcnta\catcode1
1074 \@tempcntb\catcode2
1075 \catcode1=13\relax
1076 \def\uc@temp@c#1
1077 {}%
1078 \def^^A#1{%
     \let\uc@temp@a\undefined
1080 % \ifx#1\newcommand\let\uc@temp@a\providecommand\fi
     \ifx#1\def\let\uc@temp@a\thr@@\fi
      \ifx#1\DeclareTextSymbol\let\uc@temp@a\@ne\fi
1082
      \ifx#1\DeclareTextComposite\let\uc@temp@a\tw@\fi
1083
      \ifx#1\DeclareTextCommand\let\uc@temp@a\@ne\fi
1084
      \ifx#1\DeclareTextAccent\let\uc@temp@a\@ne\fi
1085
      \ifx#1\DeclareTextCompositeCommand\let\uc@temp@a\tw@\fi
1086
1087
      \ifx#1\typeout\let\uc@temp@a\typeout\fi
1088
      \ifx\uc@temp@a\@ne
```

```
\def\uc@temp@a##1##2{%
1089
                     \expandafter\ifx\csname ##2\string##1\endcsname\relax
1090
                          \expandafter#1%
1091
1092
                          \wlog{##2\string##1 already defined.}%
1093
1094
                         \expandafter\uc@temp@c
1095
                     \fi##1{##2}}%
1096
            \fi
            \ifx\uc@temp@a\tw@
1097
1.098
                 \def\uc@temp@a##1##2##3{%
                     \expandafter\ifx\csname\@backslashchar##2\string##1-\string##3\endcsname\relax
1099
1100
                         \expandafter#1%
                     \else
1101
                          \wlog{\@backslashchar##2\string##1-\string##3 already defined.}%
1102
                         \expandafter\uc@temp@c
1103
                     \fi##1{##2}##3}%
1104
            \fi
1105
            \ifx\uc@temp@a\thr@@
1106
1107
                 \def\uc@temp@a##1{%
1108
                     \ifx##1\undefined
1109
                         \expandafter\def\expandafter##1%
1110
                         \expandafter\def\expandafter\uc@temp@a
1111
1112
                     fi
1113
            \fi
             \ifx\uc@temp@a\undefined
1114
                 \errmessage{ucsencs.def: Dont know how to handle \string#1}%
1115
1116
                 \let\uc@temp@a#1%
            \fi
1117
            \uc@temp@a}
1118
1119 \def\uc@temp@b#1{\expandafter\ifx\csname T@#1\endcsname\relax
            \catcode1=14\relax\catcode2=14\relax
            \else\catcode1=13\relax\catcode2=9\relax\fi}%
1122 \ifx\autofe@mode\undefined\else\ifx\autofe@mode0\else\let\autofe@mode1\fi\fi
   \textascii is a wrapper for outputting ASCII chars in the range 0x21-0x7e
   characters &#% must be preceded by \ (i.e. \textascii\&), all other characters
   must be given as is (i.e. \textascii: or \textascii A).
1123 \ProvideTextCommandDefault{\textascii}[1]{\@textascii{#1}}%
1124 \def\@textascii#1{\expandafter\@@textascii\string#1\empty\@nil}%
1125 \end{constraint} $$1125 \end{constraint} $$1125 \end{constraint} $$125 \end{constrai
1126 \def\textasciiencoding{\encodingdefault}%
1127 \def\@textascii@switch#1{\begingroup\@use@text@encoding{\textasciiencoding}\def\textasciiencodi
1128 \let\uc@text@composite\@text@composite
1129 \def\@text@composite#1#2#3\@text@composite{%
            \ifx\textascii#2\expandafter\@secondoftwo\else\expandafter\@firstoftwo\fi
1130
            {\uc@text@composite{#1}{#2}{#3}\@text@composite}%
1131
            {\uc@text@composite{#1}#3\@text@composite}}%
1132
1133 %
```

1134 \uc@temp@b{LGR}

Commands for an encoding-portable access to Greek characters in LGR follow. The accents are used as follows (the Unicode character codes give the according non combining characters as examples):

- \': Tonos (U+0384).
- \greekoxia: Oxia (U+1FFD). In the LGR encoding it is identical to \': (it calls the latter), but fonts may want to render a tonos and an oxia differently, so another name has been reserved for the oxia.
- \': Varia (U+1FEF).
- \~: Perispomeni (U+1FC0).
- \": Dialytika (U+00A8)
- \greeksubiota: Subscript iota (U+1FBE). Both for capital and small letters.
- \greekdasia: Dasia (U+1FFE).
- \greekpsili: Psili (U+1FBF).
- \u: Vrachy (U+0306).
- \=: Macron (U+0304).
- \greekdasiaoxia: Dasia and oxia (U+1FDE)
- \greekdasiavaria: Dasia and varia (U+1FDD)
- \greekdasiaperispomeni: Perispomeni over dasia (U+1FDF)
- \greekpsilioxia: Psili and oxia (U+1FCE)
- \greekpsilivaria: Psili and varia (U+1FCD)
- \greekpsiliperispomeni: Perispomeni over psili (U+1FCF)
- \greekdialytikatonos: Tonos over dialytika (U+0385)
- ullet \greekdialytikaoxia: Tonos over oxia (U+1FEE) (here identical to \greekdialytikatonos)
- \greekdialytikavaria: Varia over dialytika (U+1FED)
- \greekdialytikaperispomeni: Perispomeni over dialytika (U+1FC1)
- \greekoxiaiota: Oxia + subscript iota
- \greekvariaiota: Varia + subscript iota

- \greekpsiliiota: Psili + subscript iota
- \greekdasiaiota: Dasia + subscript iota
- \greekperispomeniiota: Perispomeni + subscript iota
- ullet \greekdasiaoxiaiota: Dasia and oxia + subscript iota
- \greekdasiavariaiota: Dasia and varia + subscript iota
- \greekdasiaperispomeniiota: Perispomeni over dasia + subscript iota
- \greekpsilioxiaiota: Psili and oxia + subscript iota
- \greekpsilivariaiota: Psili and varia + subscript iota
- \greekpsiliperispomeniiota: Perispomeni over psili + subscript iota

```
1135 % 00 hyphen
1136 % 01 TODO
1137 ^^A\DeclareTextCommand{\textascii}{LGR}[1]{\@textascii@switch{#1}}
1138 ^^A\DeclareTextSymbol{\textpentedeka}{LGR}{2}
1139 ^^A\DeclareTextSymbol{\textpentehkaton}{LGR}{3}
1140 ^^A\DeclareTextSymbol{\textpenteqilioi}{LGR}{4}
1141 ^^A\DeclareTextSymbol{\textpentemuria}{LGR}{5}
1142 ^^A\DeclareTextSymbol{\textstigma}{LGR}{6}
1143 ^^A\DeclareTextSymbol{\textstigmavariant}{LGR}{7}
1144 % 08 adscript iota (done by \textsubiota, "7C)
1145 \% 09--0B see 7C (\textsubiota)
1146 % OC--11 TODO
1147 ^^A\DeclareTextSymbol{\textqoppa}{LGR}{"12}
{\tt 1148 \ \^{A}DeclareTextSymbol{\text{\tt LGR}}{\tt "13}}
1149 % 14--17 TODO
1150 ^^A\DeclareTextSymbol{\texteuro}{LGR}{"18}
1152 % 1A TODO
1153 ^^A\DeclareTextSymbol{\textsanpi}{LGR}{"1B}
1154 ^^A\DeclareTextSymbol{\textquoteleft}{LGR}{"1C}
1155 ^^A\DeclareTextSymbol{\textquoteright}{LGR}{"1D}
1156 ^^A\DeclareTextAccent{\u}{LGR}{"1E}
1157 ^^A\DeclareTextAccent{\=}{LGR}{"1F}
1158 ^^A\DeclareTextAccent{\textdialytikaperispomeni}{LGR}{"20}
1159 % 21 exclamation mark
1160 ^A\DeclareTextAccent{\"}{LGR}{\"22}
1161 ^^A\DeclareTextAccent{\textdialytikatonos}{LGR}{"23}
1162 ^^A\DeclareTextCommand{\textdialytikaoxia}{LGR}[1]{\textdialytikatonos{#1}}
1163 ^^A\DeclareTextAccent{\textdialytikavaria}{LGR}{"24}
1164 ^^A\DeclareTextSymbol{\textpercent}{LGR}{"25}
1165 ^^A\DeclareTextSymbol{\textperiodcentered}{LGR}{"26}
1166 ^^A\DeclareTextAccent{\',}{LGR}{"27}
1167 ^^A\DeclareTextCommand{\textoxia}{LGR}[1]{\Otabacckludge'{#1}}
```

```
1168 ^^A\DeclareTextSymbol{\textparenleft}{LGR}{"28}
1169 ^^A\DeclareTextSymbol{\textparenright}{LGR}{"29}
1170 % 2A asterisk
1171 % 2B plus
1172 % 2C comma
1173 % 2D hyphen
1174 % 2E period
1175 % 2F slash
1176 % 30--39 digits 0-9
1177 % 3A colon
1178 ^^A\DeclareTextSymbol{\textanoteleia}{LGR}{"3B}
1179 ^^A\DeclareTextAccent{\textdasia}{LGR}{"3C}
1180 % 3D equal
1181 ^^A\DeclareTextAccent{\textpsili}{LGR}{"3E}
1182 ^^A\DeclareTextSymbol{\textquestion}{LGR}{"3F}
1183 ^^A\DeclareTextAccent{\textdasiaperispomeni}{LGR}{"40}
1184 ^A\DeclareTextSymbol{\textAlpha}{LGR}{"41}
1185 ^^A\DeclareTextSymbol{\textBeta}{LGR}{"42}
1186 ^^A\DeclareTextAccent{\textdasiavaria}{LGR}{"43}
1187 ^^A\DeclareTextSymbol{\textDelta}{LGR}{"44}
1188 ^^A\DeclareTextSymbol{\textEpsilon}{LGR}{"45}
1189 ^^A\DeclareTextSymbol{\textPhi}{LGR}{"46}
1190 ^^A\DeclareTextSymbol{\textGamma}{LGR}{"47}
1191 ^^A\DeclareTextSymbol{\textEta}{LGR}{"48}
1192 ^^A\DeclareTextSymbol{\textIota}{LGR}{"49}
1193 ^^A\DeclareTextSymbol{\textTheta}{LGR}{"4A}
1194 ^^A\DeclareTextSymbol{\textKappa}{LGR}{"4B}
1195 ^^A\DeclareTextSymbol{\textLambda}{LGR}{"4C}
1196 ^^A\DeclareTextSymbol{\textMu}{LGR}{"4D}
1197 ^^A\DeclareTextSymbol{\textNu}{LGR}{"4E}
1198 ^^A\DeclareTextSymbol{\textOmicron}{LGR}{"4F}
1199 ^^A\DeclareTextSymbol{\textPi}{LGR}{"50}
1200 ^^A\DeclareTextSymbol{\textChi}{LGR}{"51}
1201 ^^A\DeclareTextSymbol{\textRho}{LGR}{"52}
1202 ^^A\DeclareTextSymbol{\textSigma}{LGR}{"53}
1203 ^^A\DeclareTextSymbol{\textTau}{LGR}{"54}
1204 ~~ A\DeclareTextSymbol{\textUpsilon}{LGR}{"55}
1205 ^^A\DeclareTextAccent{\textdasiaoxia}{LGR}{"56}
1206 ^^A\DeclareTextSymbol{\textOmega}{LGR}{"57}
1207 ^^A\DeclareTextSymbol{\textXi}{LGR}{"58}
1208 ^^A\DeclareTextSymbol{\textPsi}{LGR}{"59}
1209 ^^A\DeclareTextSymbol{\textZeta}{LGR}{"5A}
1210 % 5B left bracket '['
1211 ^^A\DeclareTextAccent{\textpsiliperispomeni}{LGR}{"5C}
1212 % 5D right bracket
1213 ^^A\DeclareTextAccent{\textpsilioxia}{LGR}{"5E}
1214 ^^A\DeclareTextAccent{\textpsilivaria}{LGR}{"5F}
1215 ^^A\DeclareTextAccent{\'}{LGR}{"60}
1216 ^^A\DeclareTextSymbol{\textalpha}{LGR}{"61}
1217 ^^A\DeclareTextSymbol{\textbeta}{LGR}{"62}
```

```
1218 ^^A\DeclareTextSymbol{\textvarsigma}{LGR}{"63}
1219 ^^A\DeclareTextSymbol{\textdelta}{LGR}{"64}
1220 ^^A\DeclareTextSymbol{\textepsilon}{LGR}{"65}
1221 ^^A\DeclareTextSymbol{\textphi}{LGR}{"66}
1222 ^^A\DeclareTextSymbol{\textgamma}{LGR}{"67}
1223 ^^A\DeclareTextSymbol{\texteta}{LGR}{"68}
1224 ^^A\DeclareTextSymbol{\textiota}{LGR}{"69}
1225 ^^A\DeclareTextSymbol{\texttheta}{LGR}{"6A}
1226 ^^A\DeclareTextSymbol{\textkappa}{LGR}{"6B}
1227 ^^A\DeclareTextSymbol{\textlambda}{LGR}{"6C}
1228 ^^A\DeclareTextSymbol{\textmu}{LGR}{"6D}
1229 ^^A\DeclareTextSymbol{\textnu}{LGR}{"6E}
1230 ^^A\DeclareTextSymbol{\textomicron}{LGR}{"6F}
1231 ^^A\DeclareTextSymbol{\textpi}{LGR}{"70}
1232 ^^A\DeclareTextSymbol{\textchi}{LGR}{"71}
1233 ^^A\DeclareTextSymbol{\textrho}{LGR}{"72}
With the CB-fonts, "73 is an automatic sigma. To force a mid sigma, I insert
   \char"9B afterwards (iff fontfamily start with cm). Whoever knows a better macro
   for \textsigma, please tell me.
1235 ^^B\ifx\lgr@sig@fix\undefined\def\lgr@sig@fix#1cm#2\@nil{\ifx!#1!\char"9B \fi}\fi
1236 ^^A\DeclareTextCommand{\textsigma}{LGR}{\char"73 \expandafter\lgr@sig@fix\f@family cm\@nil}
1237 ^^A\DeclareTextSymbol{\texttau}{LGR}{"74}
1238 ^^A\DeclareTextSymbol{\textupsilon}{LGR}{"75}
1239 \% 76 undefined
1240 ^^A\DeclareTextSymbol{\textomega}{LGR}{"77}
1241 ^^A\DeclareTextSymbol{\textxi}{LGR}{"78}
1242 ^^A\DeclareTextSymbol{\textpsi}{LGR}{"79}
1243 ^^A\DeclareTextSymbol{\textzeta}{LGR}{"7A}
1244 ^^A\DeclareTextSymbol{\guillemotleft}{LGR}{"7B}
1245 \% 7C the following commands:
1246 ^A\DeclareTextCommand{\text{textsubiota}} \{LGR\} [1] {\#1|}
1247 ~^A\DeclareTextCommand{\textpsiliiota} \{LGR\} [1] {\textpsili} {\#1} | \}
1248 ~^A\DeclareTextCommand{\textdasiaiota} \{LGR\} [1] {\textdasia} {\#1} | \}
1249 ^^A\DeclareTextCommand{\textvariaiota}{LGR}[1]{\Otabacckludge'{#1}|}
1250 ^^A\DeclareTextCommand{\textoxiaiota}{LGR}[1]{\@tabacckludge'{#1}|}
1251 ^^A\DeclareTextCommand{\textpsilivariaiota}{LGR}[1]{\textpsilivaria{#1}|}
1252 ~^A\DeclareTextCommand{\textdasiavariaiota} \{LGR\} [1] {\textdasiavaria{\#1}|} 
1253 ^^A\DeclareTextCommand{\textpsilioxiaiota}{LGR}[1]{\textpsilioxia{#1}|}
1254 ~^A\DeclareTextCommand{\text{textdasiaoxiaiota}} \{LGR\} [1] {\text{textdasiaoxia}} = 1254 ~^A \\ [1] {\text{textdasiaoxia}} = 1254 ~^A \\ [2] {\text{textdasiaoxia}} = 1254 ~^A \\ [3] {\text{textdasiaoxia}} = 1254 ~^A \\ [4] {\text{t
1255 ^^A\DeclareTextCommand{\textperispomeniiota}{LGR}[1] {\@tabacckludge~{#1}|}
1256 ^^A\DeclareTextCommand{\textpsiliperispomeniiota}{LGR}[1]{\textpsiliperispomeni{#1}|}
1257 ^^A\DeclareTextCommand{\textdasiaperispomeniiota}{LGR}[1]{\textdasiaperispomeni{#1}|}
1258 ^A\DeclareTextComposite{\texttextsubiota}{LGR}{\text{textAlpha}{9}}
1259 ~^A\DeclareTextComposite\{\textsubiota\}\{LGR\}\{\textEta\}\{"A\}\}
1260 ~^A\DeclareTextComposite\{\textsubiota\}\{LGR\}\{\textOmega\}\{"B\}\}
```

1261 ^^A\DeclareTextSymbol{\guillemotright}{LGR}{"7D}

 $1262 ^A\DeclareTextAccent{^}{LGR}{"7E}$

```
1263 ^^A\DeclareTextSymbol{\textemdash}{LGR}{"7F}
1264 ^^A\DeclareTextComposite{\'}{LGR}{\textalpha}{"80}
1265 ~^A\DeclareTextComposite\{\textdasia\}\{LGR\}\{\textalpha\}\{"81\}\}
1266 ~^A\DeclareTextComposite\{\textpsili\}\{LGR\}\{\textalpha\}\{"82\}\}
1267 ~^A\DeclareTextComposite{\texttt{LGR}}{\texttt{LGR}}{\texttt{LGR}}{\texttt{283}}
1268 % 84--87 subiota combinations are created correctly
1269 ^^A\DeclareTextComposite{\','}{LGR}{\textalpha}{"88}
1270 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textalpha}{"89}
1271 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textalpha}{"8A}
1272 ~~A\DeclareTextComposite{\textpsilivaria}{LGR}{\textalpha}{"8B}
1273 % 8C--8F subiota combinations are created correctly
1274 ^^A\DeclareTextComposite{\~}{LGR}{\textalpha}{"90}
1275 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textalpha}{"91}
1276 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textalpha}{"92}
1277 ^^A\DeclareTextSymbol{\textdigamma}{LGR}{"93}
1278 % 94--96 subiota combinations are created correctly
1279 % 97 TODO
1280 ^^A\DeclareTextComposite{\'}{LGR}{\texteta}{"98}
1281 ^^A\DeclareTextComposite{\textdasia}{LGR}{\texteta}{"99}
1282 ^^A\DeclareTextComposite{\textpsili}{LGR}{\texteta}{"9A}
1283 % 9B undefined
1284 % 9C--9E subiota combinations are created correctly
1285 % 9F undefined
1286 ^^A\DeclareTextComposite{\',}{LGR}{\texteta}{"A0}
1287 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\texteta}{"A1}
1288 ~^A\DeclareTextComposite\{\textpsilioxia\}\{LGR\}\{\texteta\}\{"A2\}\}
1289 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\texteta}{"A3}
1290 % A4--A7 subiota combinations are created correctly
1291 ^^A\DeclareTextComposite{\~}{LGR}{\texteta}{"A8}
1292 ~ \text{$$A\DeclareTextComposite{\texttextdasiaperispomeni}{LGR}{\texttexteta}{\text{"A9}} }
1293 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\texteta}{"AA}
1294 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\texteta}{"AB}
1295 % AC--AF subiota combinations are created correctly
1296 ^^A\DeclareTextComposite{\'}{LGR}{\textomega}{"B0}
1297 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textomega}{"B1}
1298 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textomega}{"B2}
\label{localized} $$1299 ^A\DeclareTextComposite{\text{\textdasiavaria}_{LGR}_{\text{\textomega}}_{\mathbb{B}3}$} $$
1300 % B4--B7 subiota combinations are created correctly
1301 ^^A\DeclareTextComposite{\','}{LGR}{\textomega}{"B8}
1302 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textomega}{"B9}
1303 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textomega}{"BA}
1304 ~\texttt{A}\ensuremath{\texttt{LGR}}{\text{textpsilivaria}} \{ LGR \} \{ \texttt{BB} \} \}
1305 % BC--BF subiota combinations are created correctly
1306 ^^A\DeclareTextComposite{\~}{LGR}{\textomega}{"CO}
1307 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textomega}{"C1}
1308 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textomega}{"C2}
1309 ^^A\DeclareTextSymbol{\textDigamma}{LGR}{"C3}
1310 % C4--C6 subiota combinations are created correctly
1311 % C7 undefined
1312 ^^A\DeclareTextComposite{\'}{LGR}{\textiota}{"C8}
```

```
1313 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textiota}{"C9}
1314 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textiota}{"CA}
1315 ^A\DeclareTextComposite{\texttextdasiavaria}{LGR}{\texttextiota}{\text{"CB}}
1316 ^^A\DeclareTextComposite{\'}{LGR}{\textupsilon}{"CC}
1317 ~^A\DeclareTextComposite\{\textdasia\}\{LGR\}\{\textupsilon\}\{"CD\}\}
1318 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textupsilon}{"CE}
1319 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textupsilon}{"CF}
1320 ^^A\DeclareTextComposite{\';}{LGR}{\textiota}{"D0}
1321 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textiota}{"D1}
1322 ~ \text{$$A\DeclareTextComposite{$\textpsilioxia}{LGR}{\text{$$LGR}}{\text{$$LGR}}{\text{$$CSR}}} 
1323 ^A\DeclareTextComposite{\texttextpsilivaria}{LGR}{\texttextiota}{"D3}
1324 ^^A\DeclareTextComposite{\';}{LGR}{\textupsilon}{"D4}
1325 ^A\DeclareTextComposite{\texttextdasiaoxia}{LGR}{\texttextupsilon}{"D5}
1326 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textupsilon}{"D6}
1327 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textupsilon}{"D7}
1328 ~^A\DeclareTextComposite{\^}{LGR}{\textiota}{"D8}
1329 ~\texttt{A} \end{are} TextComposite {\texttt{textdasiaperispomeni} \{LGR\} \{\texttt{TD9}\} \}
1330 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textiota}{"DA}
1331 ^^A\DeclareTextComposite{\"}{LGR}{\textIota}{"DB}
1332 ^^A\DeclareTextComposite{\~}{LGR}{\textupsilon}{"DC}
1333 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textupsilon}{"DD}
1334 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textupsilon}{"DE}
1335 ^^A\DeclareTextComposite{\"}{LGR}{\textUpsilon}{"DF}
1336 ^^A\DeclareTextComposite{\'}{LGR}{\textepsilon}{"E0}
1337 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textepsilon}{"E1}
1338 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textepsilon}{"E2}
1339 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textepsilon}{"E3}
1340 ^^A\DeclareTextComposite{\'}{LGR}{\textomicron}{"E4}
1341 ^A\DeclareTextComposite{\texttextdasia}{LGR}{\texttextomicron}{"E5}
1342 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textomicron}{"E6}
1343 ~^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textomicron}{"E7}
1344 ^^A\DeclareTextComposite{\','}{LGR}{\textepsilon}{"E8}
1345 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textepsilon}{"E9}
1346 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textepsilon}{"EA}
1347 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textepsilon}{"EB}
1348 ~^A\DeclareTextComposite{\''}{LGR}{\textomicron}{"EC}
1349 ~\texttt{A}\ \texttt{LGR}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{CR}}{\texttt{
1350 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textomicron}{"EE}
1351 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textomicron}{"EF}
1352 ^^A\DeclareTextComposite{\"}{LGR}{\textiota}{"F0}
1353 ^^A\DeclareTextComposite{\textdialytikavaria}{LGR}{\textiota}{"F1}
1354 ^^A\DeclareTextComposite{\textdialytikatonos}{LGR}{\textiota}{"F2}
1355 ^^A\DeclareTextComposite{\textdialytikaperispomeni}{LGR}{\textiota}{"F3}
1356 ^A\DeclareTextComposite{\"}{LGR}{\text{textupsilon}}{\text{"F4}}
1357 ^^A\DeclareTextComposite{\textdialytikavaria}{LGR}{\textupsilon}{"F5}
1358 ^^A\DeclareTextComposite{\textdialytikatonos}{LGR}{\textupsilon}{"F6}
1359 ^^A\DeclareTextComposite{\textdialytikaperispomeni}{LGR}{\textupsilon}{"F7}
1360 % F8--FA subiota combinations are created correctly
1361 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textrho}{"FB}
1362 \ ^A\DeclareTextComposite\{\textpsili\}\{LGR\}\{\textrho\}\{"FC\}\}
```

Some composites follow, which are intuitively accents, but must be generated as ligatures in the CB fonts:

```
1366 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textAlpha}{\'A}
1367 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textAlpha}{\'A}
1368 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textAlpha}{>A}
1369 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textAlpha}{<A}
1370 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textAlpha}{\char"5F A}
1371 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textAlpha}{CA}
1372 ~^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textAlpha}{\char"5E A}
1373 ~^A\DeclareTextCompositeCommand{\textdasiaoxia} \{LGR\} \{\textAlpha\} \{VA\} \} = (AB) + (AB
1374 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textAlpha}{\char"5C A}
1375 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textAlpha}{@A}
1376 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textEpsilon}{'E}
1377 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textEpsilon}{'E}
1378 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textEpsilon}{>E}
1379 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textEpsilon}{<E}
1380 ~^A\DeclareTextCompositeCommand{\textpsilivaria} {LGR} {\textEpsilon} {\char"5F E} \\
1381 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textEpsilon}{CE}
1382 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textEpsilon}{\char"5E E}
1383 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textEpsilon}{VE}
1384 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textEta}{\'H}
1385 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textEta}{\'H}
1386 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textEta}{>H}
1387 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textEta}{<H}
1388 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textEta}{\char"5F H}
1389 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textEta}{CH}
1390 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textEta}{\char"5E H}
1391 ~^A\DeclareTextCompositeCommand{\textdasiaoxia} \{LGR\} \{\textEta\} \{VH\} \}
\label{local-composite-command-composite} $$1392 ^A\DeclareTextCompositeCommand{\text{LGR}_{\text{LGR}_{\text{LGR}}}} $$
1393 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textEta}{@H}
1394 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textIota}{'I}
1395 ^^A\DeclareTextCompositeCommand{\';}{LGR}{\textIota}{'I}
1396 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textIota}{>I}
1397 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textIota}{<I}
1398 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textIota}{\char"5F I}
1399 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textIota}{CI}
1400 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textIota}{\char"5E I}
1401 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textIota}{VI}
1402 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textIota}{\char"5C I}
1403 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textIota}{@I}
1404 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textOmicron}{\'0}
1405 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textOmicron}{'0}
1406 ~^A\DeclareTextCompositeCommand{\textpsili} \{LGR\} \{\textOmicron\} \{>0\} \}
1407 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textOmicron}{<0}
1408 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textOmicron}{\char"5F 0}
```

```
1409 \verb| ^A\DeclareTextCompositeCommand{\textdasiavaria} \{LGR\} \{ text0micron \} \{CO\} \} = 1409 ext(Constant of the constant of 
1410 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textOmicron}{\char"5E 0}
1411 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textOmicron}{VO}
1412 ~^A\DeclareTextCompositeCommand {\'} \{LGR\} \{\textUpsilon\} \{ `U\} \}
1413 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textUpsilon}{\'\}
1414 ~^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textUpsilon}{<} U
1416 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textUpsilon}{VU}
1417 ~ ^A\DeclareTextCompositeCommand{\textdasiaperispomeni} \{LGR\} \{\textUpsilon\} \{@U\} \} $$ (ABC) $$
1419 ^^A\DeclareTextCompositeCommand{\'\}{LGR}{\textOmega}{\'W}
1420 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textOmega}{>W}
1421 ~^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textOmega}{<W}
1422 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textOmega}{\char"5F W}
1424 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{\LGR}{\textOmega}{\char"5E W}
1425 ~^A\DeclareTextCompositeCommand{\textdasiaoxia} \{LGR\} \{\text{textOmega}\} \{VW\} \}
1426 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textOmega}{\char"5C W}
1427 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textOmega}{@W}
1428 ~^A\DeclareTextCompositeCommand{\textpsiliiota} \{LGR\} \{\textOmega\} \{>W|\} \}
1429 ^A\DeclareTextCompositeCommand{\texttextdasiaiota}{LGR}{\texttextOmega}{< W|}
1430 ^^A\DeclareTextCompositeCommand{\textpsilivariaiota}{\LGR}{\text0mega}{\char"5F W|}
1431 ^^A\DeclareTextCompositeCommand{\textdasiavariaiota}{LGR}{\textOmega}{CW|}
1432 ^^A\DeclareTextCompositeCommand{\textpsilioxiaiota}{LGR}{\textOmega}{\char"5E W|}
1433 ^^A\DeclareTextCompositeCommand{\textdasiaoxiaiota}{LGR}{\textOmega}{VW|}
1434 ~^A\DeclareTextCompositeCommand{\textpsiliperispomeniiota} \{LGR\} \{\textOmega\} \{\textSW | Y| \} \} = (1.5)
1436 ^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textRho}{<R}
    Uppercase-lowercase mapping:
1437 \ifx\@uclclist\undefined\else
1438 ^^A\def\update@uclc@with@text{%
1439 ^^B \expandafter\def\expandafter\@uclclist\expandafter
1440 ^^B {\@uclclist
    Not that mapping for \textautosigma must come last, otherwise \MakeLowercase{\textSigma}
    is not \textautosigma.
```

```
1441 ^^B
           \textalpha\textAlpha \textbeta\textBeta \textdelta\textDelta
1442 ^^B
           \textepsilon\textEpsilon \textPhi
1443 ^^B
           \textgamma\textGamma \texteta\textEta \textiota\textIota
1444 ^^B
           \texttheta\textTheta \textkappa\textKappa
1445 ^^B
           \textlambda\textLambda \textmu\textMu \textnu\textNu
           \textomicron\textOmicron \textpi\textPi \textchi\textChi
1446 ^^B
1447 ^^B
           \textrho\textRho \textSigma\textSigma
1448 ^^B
           \textvarsigma\textSigma \textSigma
\textSigma
1449 ^^B
           \texttau\textTau \textUpsilon\textUpsilon
1450 ^^B
           \textomega\textOmega \textxi\textXi \textpsi\textPsi
1451 ~~B
           \textZeta\textZeta \textdigamma\textDigamma}%
1452 ^^B \let\update@uclc@with@text\empty}
```

```
1453 ^^B\update@uclc@with@text
1454 \fi
1455 ^^A\typeout{fontencoding LGR patched}
    Patches for encoding T3 follow
1456 \uc@temp@b{T3}
1457 \det \frac{1457}{\text{1457}} = 2} \times \frac{1457}{\text{1457}} = 2}
    Older TIPA versions (pre 1.0) do not have \textscriptg
1458 ^A\DeclareTextSymbol{\textscriptg}{T3}{103}
1459 ~^A\DeclareTextCommand{\textascii}{T3}[1]{\ifx#1g\char164 \else\Ctextascii{#1}\fi}
1460 ^^A\typeout{fontencoding T3 patched}
    Patches for encoding T5 follow
1461 \uc@temp@b{T5}
1462 ^^A\DeclareTextCompositeCommand{\^}{T5}{\i}{\~i}
1463 ^^A\DeclareTextCompositeCommand{\'}{T5}{\i}{\'i}
1464 ^^A\DeclareTextCompositeCommand{\','}{T5}{\i}{\'i}
1465 ^^A\typeout{fontencoding T5 patched}
    Patches for encoding T4 follow
1466 \uc@temp@b{T4}
1467 ^A\DeclareTextCommand\texthbar{T4}{\B h}
1468 ^^A\DeclareTextCommand\textHbar{T4}{\B H}
1469 ^^A\DeclareTextCommand\textbhook{T4}{\m b}
1470 ^^A\DeclareTextCommand\textBhook{T4}{\m B}
1471 ^^A\DeclareTextCommand\textdhook{T4}{\m d}
1472 ^A\DeclareTextCommand\textDhook{T4}{m D}
1473 ^^A\DeclareTextCommand\texteopen{T4}{\m e}
1474 ^^A\DeclareTextCommand\textEopen{T4}{\m E}
1475 ^A\DeclareTextCommand\textschwa{T4}{M e}
1476 ^^A\DeclareTextCommand\texteturned{T4}{\M e}
1477 ^^A\DeclareTextCommand\textEreversed{T4}{\M E}
1478 ^^A\DeclareTextCommand\textGammaafrican{T4}{\m G}
1479 ^^A\DeclareTextCommand\textgammalatinsmall{T4}{\m g}
1480 ^^A\DeclareTextCommand\textKhook{T4}{\m K}
1481 ^^A\DeclareTextCommand\textkhook{T4}{\m k}
1482 ^^A\DeclareTextCommand\textDafrican{T4}{\M D}
1483 ^^A\DeclareTextCommand\textdtail{T4}{\M d}
1484 ^^A\DeclareTextCommand\textTretroflexhook{T4}{\M T}
1485 ^^A\DeclareTextCommand\texttretroflexhook{T4}{\M t}
1486 ^^A\DeclareTextCommand\textOopen{T4}{\m 0}
1488 ^^A\DeclareTextCommand\textIotaafrican{T4}{\m I}
1489 ^^A\DeclareTextCommand\textiotalatin{T4}{\m i}
1490 ^^A\DeclareTextCommand\textFhook{T4}{\m F}
1491 ^^A\DeclareTextCommand\textflorin{T4}{\m f}
```

```
1492 ^^A\DeclareTextCommand\textYhook{T4}{\m Y}
1493 ^^A\DeclareTextCommand\textyhook{T4}{\m y}
1494 ^A\DeclareTextCommand\textEsh{T4}{\mbox{T4}}{\mbox{M S}}
1495 ^^A\DeclareTextCommand\textesh{T4}{\m s}
1496 ^A\DeclareTextCommand\textThook{T4}{m T}
1497 ^^A\DeclareTextCommand\textthook{T4}{\m t}
1498 ^^A\DeclareTextCommand\textEzh{T4}{\m Z}
1499 ^^A\DeclareTextCommand\textezh{T4}{\m z}
1500 ^^A\DeclareTextCommand\textChook{T4}{\m C}
1501 ^^A\DeclareTextCommand\textchook{T4}{\m c}
1502 ^^A\DeclareTextCommand\textTbar{T4}{\B T}
1503 ^^A\DeclareTextCommand\texttbar{T4}{\B t}
1504 ^^A\DeclareTextCommand\textVhook{T4}{\m V}
1505 ^^A\DeclareTextCommand\textvhook{T4}{\m v}
1506 ^^A\DeclareTextCommand\textPhook{T4}{\m P}
1507 ^^A\DeclareTextCommand\textphook{T4}{\m p}
1508 ~~\text{A}\DeclareTextCommand\textNhookleft{T4}{\mbox{$1$}}
1509 ^^A\DeclareTextCommand\textnhookleft{T4}{\m j}
1510 ^A\DeclareTextCommand\texttesh{T4}{\tsh}
1511 ^^A\DeclareTextCompositeCommand{\~}{T4}{\textEopen}{\T E}
1512 ^A\DeclareTextCompositeCommand{\^}{T4}{\text{texteopen}}{T e}
1513 ^^A\DeclareTextCompositeCommand{\^}{T4}{\textOopen}{\T 0}
1514 ^^A\DeclareTextCompositeCommand{\^}{T4}{\textcoopen}{\T o}
1515 ^^A\DeclareTextSymbol\textexclamdown{T4}{'275}
1516 ^^A\DeclareTextSymbol\textquestiondown{T4}{'276}
1517 ^^A\DeclareTextAccent\textdblgravecmb{T4}{'237}
1518 ^^A\typeout{fontencoding T4 patched}
 Clean up.
1519 \uc@temp@d
1520 %
1521 %
1522 (/ucsencs.def)
```

4 Contributed files

These files are needed by some glyph macros. They are not really part of the UCS package, but they stay here until available somewhere else.

4.1 File autofe.sty

```
1523 \astautofe.sty \ 1524 \ProvidesPackage{autofe}[2002/12/17 Automatic switching of fontencodings] 1525 \ 1526 \let\autofe@mode1 \ 1527
```

```
1528 \let\autofe@DeclareTextCommand\DeclareTextCommand
1529 \ \texttt{\def}\ \texttt{\
1530 \let\autofe@ProvideTextCommand\ProvideTextCommand
1531 \ \texttt{def/ProvideTextCommand} \\ \texttt{autofe@parse@declaretextcommand} \\ \texttt{autofe@ProvideTextCommand} \\ \texttt{parse@declaretextcommand} \\ \texttt{autofe@parse@declaretextcommand} \\ \texttt{parse@declaretextcommand} \\ \texttt{parse@declar
1532 \let\autofe@DeclareTextSymbol\DeclareTextSymbol
1533
1534 \def\autofe@parse@declaretextcommand#1#2#3{%
1535
                       \@ifnextchar[%
                       {\autofe@parse@declaretextcommand@a{#1}{#2}{#3}}%
1536
                       {\autofe@parse@declaretextcommand@dd{#1}{#2}{#3}}}
1537
1538 \def\autofe@parse@declaretextcommand@a#1#2#3[#4]{%
                       \@ifnextchar[%
 1539
                       {\command@aa{\#1}{\#2}{\#3}{\#4}}\%
                       {\autofe@parse@declaretextcommand@ad{#1}{#2}{#3}{#4}}}
1541
1542
1543
{\toks255}#1{#2}{#3}[#4][#5]{#6}}\typeout{Running \the\toks255}}%
1545
                       \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#3}{\autofe@ProvideTextCommand{#
1547
                       #1{#2}{#3}[#4][#5]{#6}%
1548 }
1549 \def\autofe@parse@declaretextcommand@ad#1#2#3#4#5{%
                       {\text{wt}}
1550
                        \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#3}{\autofe@ProvideTextCommand{#
1551
1552
                       #1{#2}{#3}[#4]{#5}%
1553 }
1554 \def\autofe@parse@declaretextcommand@dd#1#2#3#4{%
                       {\textstyle 142}{\#3}{\#4}\over {\textstyle 142}{\#3}{\#4}}\
1555
                       \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#3}{#1{#2}{?}}{#4}\fi
1556
                       #1{#2}{#3}{#4}%
1557
1558 }
1559 \def\DeclareTextSymbol#1#2#3{%
1560
                       %{\toks255{\autofe@DeclareTextSymbol{#1}{#2}{#3}}\typeout{Running \the\toks255}}%
1561
                       \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#2}{\autofe@ProvideTextCommand{#
                       \autofe@DeclareTextSymbol{#1}{#2}{#3}%
1562
1563 }
1564
1565 \def\autofe@defdef#1#2#3{%
1566
                       \begingroup
                                \def\temp@a{#1}\def\temp@b{?}%
1567
1568
                                \ifx\temp@a\temp@b
                                       \let\temp@a\@gobbletwo
1569
                               \else
1570
                                       \ifx\autofe@mode1%
1571
1572
                                               \let\temp@a\@firstoftwo
1573
1574
                                               \let\temp@a\@secondoftwo
1575
                                       \fi
                                \fi
1576
```

\expandafter\endgroup

1577

```
\temp@a
1578
                    {#2{{\fontencoding{#1}\selectfont#3}}}%
1579
                    {#2{\fontencoding{#1}\selectfont#3}}%
1580
1581 }
1582
1583 \def\autofe@options{}
1584 \def\autofe@add@fe#1{\g@addto@macro\autofe@options{\RequirePackage[#1]{fontenc}}}
1585 %\DeclareOption{global}{\PackageError{autofe}{Option global not supported yet}{Changing to local
\label{lem:lemonto_loss} $$1586 \end{figures} \end{figures} $$1586 \en
\label{local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-local-loc
1588 \DeclareOption{off}{\g@addto@macro\autofe@options{\let\autofe@modeO}}
1589 \DeclareOption*{\expandafter\autofe@add@fe\expandafter{\CurrentOption}}
1590 \ProcessOptions*
1592 \typeout{\meaning\autofe@options}
1593 \autofe@options
1594
1595 \let\autofe@options\undefined
1596 \let\autofe@add@fe\undefined
1597
1598 %
1599 %
1600 (/autofe.sty)
      4.2
                           File cenccmn.tex
1601 (*cenccmn.tex)
1602 \ProvidesFile{cenccmn.tex}[2001/10/25
                           Macros common to fontencodings COO, C40, C61]%
1604 %\gdef\CJK@plane{***__SET_CJK@plane_before_using_fontencoding_%
1605 % \f@encoding___***}
1606 \def\CJK@@empty#1{%
                    \ifx\CJK@plane\undefined\def\mandatory@arg{cmr10}\else
1607
                    \edef\mandatory@arg{\mandatory@arg\CJK@plane}\fi%
1608
1609
                    \empty@sfcnt#1%
1610
                    \xdef\font@name{\csname \curr@fontshape/\f@size/%
                            \ifx\CJK@plane\undefined\else\CJK@plane\fi\endcsname}}
1611
1612 \def\CJK@@sub#1{%
                    \expandafter\ifx\csname CJK@\mandatory@arg/\f@size\endcsname\relax
1613
                    \expandafter\gdef\csname CJK@\mandatory@arg/\f@size\endcsname{}%
1614
                    \sub@sfcnt#1%
1615
1616
                    \else
1617
                    \sub@sfcnt\@gobble
1618
                    \fi}
1619 \def\CJK@DNPgen{%
                    \ifx\CJK@plane\undefined\def\external@font{cmr10}\else
1620
                    \edef\external@font{%
1621
                            \mandatory@arg\CJK@plane\f@size}\fi
1622
1623
                    \xdef\font@name{%
```

\csname \curr@fontshape/\f@size/%

1624

```
\ifx\CJK@plane\undefined\else\CJK@plane\fi\endcsname}}%
1625
1626 \def\CJK@DNP{%
      \ifx\CJK@plane\undefined\def\external@font{cmr10}\else
1627
      \@tempdimb \f@size\p@
1628
1629
      \edef\external@font{%
1630
        \mandatory@arg\CJK@plane\optional@arg\space at \the\@tempdimb}\fi
1631
      \xdef\font@name{%
1632
        \csname \curr@fontshape/\f@size/%
1633
        \ifx\CJK@plane\undefined\else\CJK@plane\fi\endcsname\endcsname}}
1634 %
1635 \verb|\DeclareSizeFunction{CJK}{\CJK@@empty\\@font@warning}|
1636 \DeclareSizeFunction{CJKb}{\CJK@@empty\@font@warning}
1637 \DeclareSizeFunction{sCJK}{\CJK@@empty\@font@info}
1638 \DeclareSizeFunction{sCJKb}{\CJK@@empty\@font@info}
1639 \DeclareSizeFunction{CJKsub}{\CJK@@sub\@font@warning}
1640 \label{lem:confolion} 1640 \label{lem:confolion} \\
1641 \DeclareSizeFunction{DNPgen}{\CJK@DNPgen}
1642 \DeclareSizeFunction{DNPgenb}{\CJK@DNPgen}
1643 \DeclareSizeFunction{DNP}{\CJK@DNP}
1644 \DeclareSizeFunction{DNPb}{\CJK@DNP}
1645 %
1646 \ensuremath{\mbox{\sc 0}} tipackageloaded{CJK}{}{%}
      \AtBeginDocument{%
1647
        \@ifpackageloaded{CJK}{%
1648
          \PackageError{fontenc C??}{Load fontencoding C00/C40/... after CJK}{%
1649
            Otherwise strange things may happen, when you use those encodings}}{}}}
1650
1651 \def\CJKresetplane{\let\CJK@plane\undefined}
1652 % Local Variables:
1653 %%% mode: latex
1654 %% coding: utf-8
1655 %%% TeX-master: "../test.tex"
1656 % End:
1657 %%% Local IspellDict: british
1658 %
1659 (/cenccmn.tex)
 4.3
        File c00enc.def
1660 (*c00enc.def)
1661 \ProvidesFile{c00enc.def}[2001/10/11 Fontencoding C00 (Big5)]%
1662 \DeclareFontEncoding{C00}{}{}%
1663 \DeclareFontSubstitution{COO}{song}{m}{n}%
1664 \input{cenccmn.tex}%
1665 \expandafter\let\csname COO/song/m/n\endcsname\undefined
1666 %
1667 (/c00enc.def)
 4.4 File c10enc.def
1668 (*c10enc.def)
```

```
1669 \ProvidesFile{c10enc.def}[2001/10/11 Fontencoding C10 (Big5)]%
1670 \DeclareFontEncoding{C10}{}%
1671 \DeclareFontSubstitution{C10}{song}{m}{n}%
1672 \input{cenccmn.tex}%
1673 \expandafter\let\csname C10/song/m/n\endcsname\undefined
1674 %
1675 \( / \c10\)enc.def\\

4.5 File c40\)enc.def
```

```
1676 (*c40enc.def)
1677 \ProvidesFile{c40enc.def}[2002/11/25 Fontencoding C40 (JIS)]%
1678 \DeclareFontEncoding{C40}{}{}%
1679 \DeclareFontSubstitution{C40}{song}{m}{n}%
1680 \input{cenccmn.tex}%
1681 \exp \text{andafter} \ \text{C40/song/m/n} \ \text{undefined}
1682 \def\cjk@Cforty#1#2#3#4{% Takes JIS0208 codepos in hex
1683
      {%
        \count0="#1#2
1684
1685
        \multiply\count0 by94
1686
        \advance\count0 by"#3#4
1687
        \advance\count0 by-"B3F
1688
        \count1\count0
        \divide\count0 by256
1689
1690
        \multiply\count0 by256
        \advance\count1 by-\count0
1691
1692
        \divide\count0 by256
1693
        %\typeout{CO=\number\count0, C1=\number\count1}%
1694
        \edef\temp@a{\ifnum\count0<10 0\fi\number\count0}%
1695
        \edef\temp@b{\ifx\temp@a\CJK@plane\else
           \def\noexpand\CJK@plane{\temp@a}\noexpand\selectfont\fi
1696
1697
          \char\number\count\@ne\space}%
        %\typeout{C40: \meaning\temp@b}%
1698
        \expandafter}\temp@b%
1699
     }%
1700
1701 \DeclareTextCommand\jischar{C40}[1]{\cjk@Cforty#1}
1702 \DeclareTextCommandDefault\jischar[1] {{\fontencoding{C40}}%
1703
        \let\CJK@plane\undefined\cjk@Cforty#1}}
1704 %
1705 %
1706 (/c40enc.def)
```

4.6 File c42enc.def

```
 1707 \end{array} $$1707 \end{array} $$1708 \end{array} $$1708 \end{array} \end{array} $$1709 \end{array} $$1700 \end{array} $$1710 \end{array} $$1711 \end{array} $$1711 \end{array} $$1712 \expandafter\end{array} $$
```

```
1713 \def\cjk@Cfrttw@#1#2#3{%
      \advance\count1 by#3
1714
      1715
     \t 1/\#2/\#3, \meaning\temp@a, \number\count1}%
1716
1717 }
1718 \def\cjk@Cfrttw#1#2#3#4{% Takes JIS0208 codepos in hex
1719
      %\typeout{JIS: #1#2#3#4}%
1720
     {%
        \count0="#1#2 \count1="#3#4
1721
        \advance\count0by-33
1722
        \expandafter\cjk@Cfrttw@
1723
1724
        \ifcase\count0
1725
        {sy}{err}{-32}\or % 0
        {sy}{err}{68}\or % 1
1726
        {\rm err}{0}\ 2
1727
        {hira}{err}{-32}\or % 3
1728
        {kata}{err}{-32}\or % 4
1729
        {greek}{err}{-32}\or % 5
1730
1731
        {russian}{err}{-32}\or % 6
1732
        {\text{keisen}}{\text{err}}{-32}\ 7
        {err}{err}{128}\or % 8
1733
        {err}{err}{128}\or % 9
1734
        {err}{err}{128}\or % 10
1735
        {err}{err}{128}\or % 11
1736
1737
        {err}{err}{128}\or % 12
1738
        {err}{err}{128}\or % 13
        {err}{err}{128}\or % 14
1739
        {ka}{err}{-33}\or % 15
1740
        {ka}{err}{61}\or % 16
1741
        {ka}{kb}{155}\ 17
1742
        {kb}{err}{-7}\or % 18
1743
1744
        {kb}{err}{87}\or % 19
1745
        {kb}{kc}{181}\or % 20
        {kc}{err}{19}\or % 21
1746
        {kc}{err}{113}\or % 22
1747
        {kc}{kd}{207}\or % 23
1748
        {kd}{err}{45}\or % 24
1749
        {kd}{ke}{139}\or % 25
1750
1751
        {ke}{err}{-23}\or % 26
        {ke}{err}{71}\or % 27
1752
1753
        {ke}{kf}{165}\or % 28
        kf}{err}{3}\or % 29
1754
        \{kf\}\{err\}\{97\}\ % 30
1755
        {kf}{kg}{191}\or % 31
1756
1757
        {kg}{err}{29}\or % 32
1758
        {kg}{err}{123}\or % 33
        {kg}{kh}{217}\or % 34
1759
1760
        {kh}{err}{55}\or % 35
1761
        {kh}{ki}{149}\or % 36
```

1762

 ${ki}{err}_{-13}\or % 37$

```
{ki}{err}{81}\or % 38
1763
        {ki}{kj}{175}\or % 39
1764
        {kj}{err}{13}\or % 40
1765
        {kj}{err}{107}\or % 41
1766
        {kj}{kk}{201}\or % 42
1767
1768
        {kk}{err}{39}\or % 43
1769
        {kk}{kl}{133}\or % 44
        {kl}{err}_{-29}\or % 45
1770
        {kl}{err}{65}\or % 46
1771
        {km}{err}{-33}\or % 47
1772
        {km}{err}{61}\or % 48
1773
1774
        {km}{kn}{155}\or % 49
1775
        {kn}{err}{-7}\or % 50
        {kn}{err}{87}\or % 51
1776
        {kn}{ko}{181}\or % 52
1777
        {ko}{err}{19}\or % 53
1778
        {ko}{err}{113}\or % 54
1779
        {ko}{kp}{207}\or % 55
1780
1781
        {kp}{err}{45}\or % 56
1782
        {kp}{kq}{139}\or % 57
        {kq}{err}{-23}\or % 58
1783
        {kq}{err}{71}\or % 59
1784
        {kq}{kr}{165}\or % 60
1785
        {kr}{err}{3}\or % 61
1786
1787
        {kr}{err}{97}\or % 62
1788
        {kr}{ks}{191}\or % 63
        {ks}{err}{29}\or % 64
1789
        {ks}{err}{123}\or % 65
1790
        {ks}{kt}{217}\or % 66
1791
        {kt}{err}{55}\or % 67
1792
        {kt}{ku}{149}\or % 68
1793
1794
        {ku}{err}{-13}\or % 69
1795
        {ku}{err}{81}\or % 70
        \{ku\}\{kv\}\{175\}\ 71
1796
        kv}{err}{13}\or % 72
1797
        kv}{err}{107}\or % 73
1798
        {kv}{kw}{201}\or % 74
1799
        {kw}{err}{39}\or % 75
1800
1801
        {kw}{kx}{133}\or % 76
        {kx}{err}{-29}\or % 77
1802
        {kx}{err}{65}\or % 78
1803
        {kx}{ky}{159}\or % 79
1804
        {ky}{err}{-3}\or % 80
1805
        {ky}{err}{91}\or % 81
1806
1807
        {ky}{kz}{185}\or % 82
1808
        {kz}{err}{23}\else % 83
1809
        {err}{err}0\fi
1810
        \edef\temp@b{\ifx\temp@a\CJK@plane\else
1811
          \def\noexpand\CJK@plane{\temp@a}\noexpand\selectfont\fi
1812
          \char\number\count\@ne\space}%
```

```
%\typeout{C42: \meaning\temp@b}%
1813
        \expandafter}\temp@b%
1814
     }%
1815
1816 \DeclareTextCommand\jischar{C42}[1]{\cjk@Cfrttw#1}
\let\CJK@plane\undefined\cjk@Cfrttw#1}}
1819 %
1820 %
1821 (/c42enc.def)
 4.7
       File c61enc.def
1822 (*c61enc.def)
1823 \ProvidesFile{c61enc.def}[2001/10/11 Fontencoding C61 (KSC5601 hangul)]%
1824 \DeclareFontEncoding{C61}{}{}%
1825 \DeclareFontSubstitution{C61}{mj}{m}{n}%
1826 \input{cenccmn.tex}%
1827 \exp \text{andafter} \cdot \text{C61/mj/m/n} \cdot \text{csname} \cdot \text{undefined}
1828 %
1829 (/c61enc.def)
 4.8
        File lklenc.def
1830 (*lklenc.def)
1831 \ProvidesFile{lklenc.def}[2001/10/17 Okuda (Klingon) Font Encoding LKL]
1832 \DeclareFontEncoding{LKL}{}{}
1833 \DeclareFontSubstitution{LKL}{kli}{m}{n}
1834 \DeclareTextSymbol{\klingona}{LKL}{'\a}
1835 \DeclareTextSymbol{\klingonb}{LKL}{'\b}
1836 \DeclareTextSymbol{\klingonch}{LKL}{'\C}
1837 \DeclareTextSymbol{\klingonD}{LKL}{'\D}
1838 \DeclareTextSymbol{\klingone}{LKL}{'\e}
1839 \DeclareTextSymbol{\klingongh}{LKL}{'\G}
1840 \DeclareTextSymbol{\klingonH}{LKL}{'\H}
1841 \DeclareTextSymbol{\klingonI}{LKL}{'\I}
1842 \DeclareTextSymbol{\klingonj}{LKL}{'\j}
1843 \DeclareTextSymbol{\klingonl}{LKL}{'\l}
1844 \DeclareTextSymbol{\klingonm}{LKL}{'\m}
1845 \DeclareTextSymbol{\klingonn}{LKL}{'\n}
1846 \DeclareTextSymbol{\klingonng}{LKL}{'\N}
1847 \DeclareTextSymbol{\klingono}{LKL}{'\o}
1848 \DeclareTextSymbol{\klingonp}{LKL}{'\p}
1849 \DeclareTextSymbol{\klingonq}{LKL}{'\q}
1850 \DeclareTextSymbol{\klingonQ}{LKL}{'\Q}
1851 \DeclareTextSymbol{\klingonr}{LKL}{'\r}
1852 \DeclareTextSymbol{\klingonS}{LKL}{'\S}
1853 \DeclareTextSymbol{\klingont}{LKL}{'\t}
1854 \DeclareTextSymbol{\klingontlh}{LKL}{'\T}
1855 \DeclareTextSymbol{\klingonu}{LKL}{'\u}
1856 \DeclareTextSymbol{\klingonv}{LKL}{'\v}
```

```
1857 \DeclareTextSymbol{\klingonw}{LKL}{'\w}
1858 \DeclareTextSymbol{\klingony}{LKL}{'\y}
1859 \DeclareTextSymbol{\klingonglotstop}{LKL}{'\'}
1860 \DeclareTextSymbol{\klingonzero}{LKL}{'\0}
1861 \DeclareTextSymbol{\klingonnee}{LKL}{'\1}
1862 \DeclareTextSymbol{\klingontwo}{LKL}{'\2}
1863 \DeclareTextSymbol{\klingonthree}{LKL}{'\3}
1864 \DeclareTextSymbol{\klingonfour}{LKL}{'\4}
1865 \DeclareTextSymbol{\klingonfive}{LKL}{'\5}
1866 \DeclareTextSymbol{\klingonsix}{LKL}{'\6}
1867 \DeclareTextSymbol{\klingonseven}{LKL}{'\7}
1868 \DeclareTextSymbol{\klingonseven}{LKL}{'\8}
1869 \DeclareTextSymbol{\klingonnine}{LKL}{'\8}
1869 \DeclareTextSymbol{\klingonnine}{LKL}{'\9}
1870 \%
1871 \langle \la
```

4.9 File lklkli.fd

1872 (*lklkli.fd)

I have named this fontfamily kli, since it uses the font found on the KLI homepage (http://www.kli.org)

Since there is no case distinction, small caps is identical to normal.

```
1876 \DeclareFontShape{LKL}{kli}{m}{sc}{<-> pIq}{}% 1877 % 1878 \langle /\text{lklkli.fd} \rangle
```

4.10 File ldvenc.def

```
1879 (*Idvenc.def)
1880 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
1881 \ProvidesFile{ldvenc.def}[2004/10/17 Autogenerated encoding LDV]
1882 \DeclareFontEncoding{LDV}{}{}
1883 \DeclareFontSubstitution{LDV}{arial}{m}{n}
1884 \DeclareTextSymbol{\guillemotleft}{LDV}{19}
1885 \DeclareTextSymbol{\guillemotright}{LDV}{20}
1886 \DeclareTextSymbol{\guilsinglleft}{LDV}{14}
1887 \DeclareTextSymbol{\guilsinglright}{LDV}{15}
1888 \DeclareTextSymbol{\i}{LDV}{25}
1889 \DeclareTextSymbol{\quotedblbase}{LDV}{18}
1890 \DeclareTextSymbol{\quotesinglbase}{LDV}{13}
1891 \DeclareTextSymbol{\textasciicircum}{LDV}{'\^}
1892 \DeclareTextSymbol{\textasciitilde}{LDV}{'\~}
1893 \DeclareTextSymbol{\textbackslash}{LDV}{'\\}
1894 \DeclareTextSymbol{\textbar}{LDV}{'\|}
```

```
1895 \DeclareTextSymbol{\textbraceleft}{LDV}{'\{}
1896 \DeclareTextSymbol{\textbraceright}{LDV}{'\}}
1897 \DeclareTextSymbol{\textdollar}{LDV}{'\$}
1898 \DeclareTextSymbol{\textemdash}{LDV}{22}
1899 \DeclareTextSymbol{\textendash}{LDV}{21}
1900 \DeclareTextSymbol{\textgreater}{LDV}{'\>}
1901 \DeclareTextSymbol{\textless}{LDV}{'\<}
1902 \DeclareTextSymbol{\textquotedblleft}{LDV}{16}
1903 \DeclareTextSymbol{\textquotedblright}{LDV}{17}
1904 \DeclareTextSymbol{\textquotedbl}{LDV}{'\"}
1905 \DeclareTextSymbol{\textquoteleft}{LDV}{'\'}
1906 \DeclareTextSymbol{\textquoteright}{LDV}{'\'}
1907 \DeclareTextSymbol{\textunderscore}{LDV}{95}
1908 \DeclareTextCommand{\textdevanagaricandrabindu}{LDV}[1]{#1\char129}
1909 \DeclareTextCommand{\textdevanagarianusvara}{LDV}[1]{#1\char130 }
1910 \DeclareTextCommand{\textdevanagarivisarga}{LDV}[1]{#1\char131 }
1911 \DeclareTextSymbol{\textdevanagaria}{LDV}{133}
1912 \DeclareTextSymbol{\textdevanagariaa}{LDV}{134}
1913 \DeclareTextSymbol{\textdevanagarii}{LDV}{135}
1914 \DeclareTextSymbol{\textdevanagariii}{LDV}{136}
1915 \DeclareTextSymbol{\textdevanagariu}{LDV}{137}
1916 \DeclareTextSymbol{\textdevanagariuu}{LDV}{138}
1917 \DeclareTextSymbol{\textdevanagarivocalicr}{LDV}{139}
1918 \DeclareTextSymbol{\textdevanagarivocalicl}{LDV}{140}
1919 \DeclareTextSymbol{\textdevanagaricandrae}{LDV}{141}
1920 \DeclareTextSymbol{\textdevanagarishorte}{LDV}{142}
1921 \DeclareTextSymbol{\textdevanagarie}{LDV}{143}
1922 \DeclareTextSymbol{\textdevanagariai}{LDV}{144}
1923 \DeclareTextSymbol{\textdevanagaricandrao}{LDV}{145}
1924 \DeclareTextSymbol{\textdevanagarishorto}{LDV}{146}
1925 \DeclareTextSymbol{\textdevanagario}{LDV}{147}
1926 \DeclareTextSymbol{\textdevanagariau}{LDV}{148}
1927 \DeclareTextSymbol{\textdevanagarika}{LDV}{149}
1928 \DeclareTextSymbol{\textdevanagarikha}{LDV}{150}
1929 \DeclareTextSymbol{\textdevanagariga}{LDV}{151}
1930 \DeclareTextSymbol{\textdevanagarigha}{LDV}{152}
1931 \DeclareTextSymbol{\textdevanagaringa}{LDV}{153}
1932 \DeclareTextSymbol{\textdevanagarica}{LDV}{154}
1933 \DeclareTextSymbol{\textdevanagaricha}{LDV}{155}
1934 \DeclareTextSymbol{\textdevanagarija}{LDV}{156}
1935 \DeclareTextSymbol{\textdevanagarijha}{LDV}{157}
1936 \ensuremath{\mbox{LDV}} \{158\}
1937 \DeclareTextSymbol{\textdevanagaritta}{LDV}{159}
1938 \DeclareTextSymbol{\textdevanagarittha}{LDV}{160}
1939 \DeclareTextSymbol{\textdevanagaridda}{LDV}{161}
1940 \DeclareTextSymbol{\textdevanagariddha}{LDV}{162}
1941 \DeclareTextSymbol{\textdevanagarinna}{LDV}{163}
1942 \DeclareTextSymbol{\textdevanagarita}{LDV}{164}
1943 \DeclareTextSymbol{\textdevanagaritha}{LDV}{165}
1944 \DeclareTextSymbol{\textdevanagarida}{LDV}{166}
```

```
1945 \DeclareTextSymbol{\textdevanagaridha}{LDV}{167}
1946 \DeclareTextSymbol{\textdevanagarina}{LDV}{168}
1947 \DeclareTextSymbol{\textdevanagarinnna}{LDV}{169}
1948 \DeclareTextSymbol{\textdevanagaripa}{LDV}{170}
1949 \DeclareTextSymbol{\textdevanagaripha}{LDV}{171}
1950 \DeclareTextSymbol{\textdevanagariba}{LDV}{172}
1951 \DeclareTextSymbol{\textdevanagaribha}{LDV}{173}
1952 \DeclareTextSymbol{\textdevanagarima}{LDV}{174}
1953 \DeclareTextSymbol{\textdevanagariya}{LDV}{175}
1954 \DeclareTextSymbol{\textdevanagarira}{LDV}{176}
1955 \DeclareTextSymbol{\textdevanagarirra}{LDV}{177}
1956 \DeclareTextSymbol{\textdevanagarila}{LDV}{178}
1957 \DeclareTextSymbol{\textdevanagarilla}{LDV}{179}
1958 \DeclareTextSymbol{\textdevanagarillla}{LDV}{180}
1959 \DeclareTextSymbol{\textdevanagariva}{LDV}{181}
1960 \DeclareTextSymbol{\textdevanagarisha}{LDV}{182}
1961 \DeclareTextSymbol{\textdevanagarissa}{LDV}{183}
1962 \DeclareTextSymbol{\textdevanagarisa}{LDV}{184}
1963 \DeclareTextSymbol{\textdevanagariha}{LDV}{185}
1964 \DeclareTextCommand{\textdevanagarinukta}{LDV}[1]{#1\char188 }
1965 \DeclareTextSymbol{\textdevanagariavagraha}{LDV}{189}
1966 \DeclareTextCommand{\textdevanagarivowelaa}{LDV}[1]{#1\char190 }
1967 \DeclareTextCommand{\textdevanagarivoweli}{LDV}[1]{\char191 #1}
1968 \DeclareTextCommand{\textdevanagarivowelii}{LDV}[1]{#1\char192 }
1969 \DeclareTextCommand{\textdevanagarivowelu}{LDV}[1]{#1\char193}
1970 \DeclareTextCommand{\textdevanagarivoweluu}{LDV}[1]{#1\char194 }
1971 \DeclareTextCommand{\textdevanagarivowelvocalicr}{LDV}[1]{#1\char195 }
1972 \DeclareTextCommand{\textdevanagarivowelvocalicrr}{LDV}[1]{#1\char196}
1973 \DeclareTextCommand{\textdevanagarivowelcandrae}{LDV}[1]{#1\char197}
1974 \DeclareTextCommand{\textdevanagarivowelshorte}{LDV}[1]{#1\char198}
1975 \DeclareTextCommand{\textdevanagarivowele}{LDV}[1]{#1\char199 }
1976 \DeclareTextCommand{\textdevanagarivowelai}{LDV}[1]{#1\char200 }
1977 \DeclareTextCommand{\textdevanagarivowelcandrao}{LDV}[1]{#1\char201 }
1978 \DeclareTextCommand{\textdevanagarivowelshorto}{LDV}[1]{#1\char202}
1979 \DeclareTextCommand{\textdevanagarivowelo}{LDV}[1]{#1\char203}
1980 \DeclareTextCommand{\textdevanagarivowelau}{LDV}[1]{#1\char204 }
1981 \DeclareTextCommand{\textdevanagarivirama}{LDV}[1]{#1\char205 }
1982 \DeclareTextSymbol{\textdevanagariom}{LDV}{208}
1983 \DeclareTextCommand{\textdevanagariudatta}{LDV}[1]{#1\char209 }
1984 \DeclareTextCommand{\textdevanagarianudatta}{LDV}[1]{#1\char210 }
1985 \DeclareTextCommand{\'\}{LDV}[1]{\#1\char211 }
1986 \DeclareTextCommand{\',}{LDV}[1]{#1\char212 }
1987 \DeclareTextSymbol{\textdevanagariqa}{LDV}{216}
1988 \DeclareTextSymbol{\textdevanagarikhha}{LDV}{217}
1989 \DeclareTextSymbol{\textdevanagarighha}{LDV}{218}
1990 \DeclareTextSymbol{\textdevanagariza}{LDV}{219}
1991 \DeclareTextSymbol{\textdevanagaridddha}{LDV}{220}
1992 \DeclareTextSymbol{\textdevanagarirha}{LDV}{221}
1993 \DeclareTextSymbol{\textdevanagarifa}{LDV}{222}
1994 \DeclareTextSymbol{\textdevanagariyya}{LDV}{223}
```

```
1995 \DeclareTextSymbol{\textdevanagarivocalicrr}{LDV}{224}
1996 \DeclareTextSymbol{\textdevanagarivocalic11}{LDV}{225}
1998 \DeclareTextCommand{\textdevanagarivowelvocalicll}{LDV}[1]{#1\char227 }
1999 \DeclareTextSymbol{\textdevanagaridanda}{LDV}{228}
2000 \DeclareTextSymbol{\textdevanagaridoubledanda}{LDV}{229}
2001 \DeclareTextSymbol{\textdevanagarizero}{LDV}{230}
2002 \DeclareTextSymbol{\textdevanagarione}{LDV}{231}
2003 \DeclareTextSymbol{\textdevanagaritwo}{LDV}{232}
2004 \DeclareTextSymbol{\textdevanagarithree}{LDV}{233}
2005 \DeclareTextSymbol{\textdevanagarifour}{LDV}{234}
2006 \DeclareTextSymbol{\textdevanagarifive}{LDV}{235}
2007 \DeclareTextSymbol{\textdevanagarisix}{LDV}{236}
2008 \DeclareTextSymbol{\textdevanagariseven}{LDV}{237}
2009 \DeclareTextSymbol{\textdevanagarieight}{LDV}{238}
2010 \DeclareTextSymbol{\textdevanagarinine}{LDV}{239}
2011 \DeclareTextSymbol{\textdevanagariabbreviation}{LDV}{240}
2012 %
2013 (/ldvenc.def)
 4.11 File ldvarial.fd
2014 (*ldvarial.fd)
2015 \ProvidesFile{ldvarial.fd}[2004/10/17 Autogenerated .fd file for encoding LDV, family arial]
2016 \DeclareFontFamily{LDV}{arial}{}
2017 \DeclareFontShape{LDV}{arial}{m}{n}{<-> * arialuni090t}{}
2018 %
2019 (/ldvarial.fd)
 4.12
        File ldvc2000.fd
2020 (*Idvc2000.fd)
2021 \ProvidesFile{ldvc2000.fd}[2004/10/17 Autogenerated .fd file for encoding LDV, family c2000]
2022 \DeclareFontFamily{LDV}{c2000}{}
2023 \DeclareFontShape{LDV}{c2000}{m}{n}{<-> * code2k090t}{}
2024 %
2025 (/ldvc2000.fd)
        File letenc.def
 4.13
2026 (*letenc.def)
2027 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2028 \ProvidesFile{letenc.def}[2004/10/17 Autogenerated encodings LET, Let]
2029 \DeclareFontEncoding{LET}{}{}
2030 \DeclareFontSubstitution{LET}{gfzem}{m}{n}
2031 \DeclareFontEncoding{Let}{}{}
2032 \DeclareFontSubstitution{Let}{gfzem}{m}{n}
2033 \DeclareTextCommand{\textascii}{LET}[1]{\OtextasciiOswitch{#1}}
2034 \DeclareTextCommand{\textascii}{Let}[1]{\OtextasciiOswitch{#1}}
2035 \DeclareTextSymbol{\textethiopicha}{LET}{0}
```

```
2037 \DeclareTextSymbol{\textethiopichu}{LET}{1}
2038 \ \texttt{DeclareTextCommand\{\textethiopichu\}\{Let\}\{\fontencoding\{LET\}\text{Selectfont}\text{text}\text{topichu}\}\}}
2039 \DeclareTextSymbol{\textethiopichi}{LET}{2}
2041 \DeclareTextSymbol{\textethiopichaa}{LET}{3}
2043 \DeclareTextSymbol{\textethiopichee}{LET}{4}
2044 \ensuremath{\textethiopichee} \ensuremath{\textethiopichee}
2045 \DeclareTextSymbol{\textethiopiche}{LET}{5}
2047 \DeclareTextSymbol{\textethiopicho}{LET}{6}
2048 \DeclareTextCommand{\textethiopicho}{Let}{\fontencoding{LET}\selectfont\textethiopicho}
2049 \DeclareTextSymbol{\textethiopicla}{LET}{8}
2051 \DeclareTextSymbol{\textethiopiclu}{LET}{9}
2053 \DeclareTextSymbol{\textethiopicli}{LET}{10}
2054 \end{\text{\command{\textethiopicli}{Let}{\fontencoding{LET}\selectfont\textethiopicli}} \\
2055 \DeclareTextSymbol{\textethiopiclaa}{LET}{11}
2057 \DeclareTextSymbol{\textethiopiclee}{LET}{12}
2058 \DeclareTextCommand{\textethiopiclee}{Let}{\fontencoding{LET}\selectfont\textethiopiclee}
2059 \DeclareTextSymbol{\textethiopicle}{LET}{13}
2060 \DeclareTextCommand{\textethiopicle}{Let}{\fontencoding{LET}\selectfont\textethiopicle}
2061 \DeclareTextSymbol{\textethiopiclo}{LET}{14}
2062 \DeclareTextCommand{\textethiopiclo}{Let}{\fontencoding{LET}\selectfont\textethiopiclo}
2063 \DeclareTextSymbol{\textethiopiclwa}{LET}{15}
2065 \DeclareTextSymbol{\textethiopichha}{LET}{16}
2066 \ \texttt{\Let}{\command{\texttt{\Let}}} \ \texttt{\Let}{\Let}{\command{\texttt{\Let}}} \ \texttt{\Let}{\Let}{\Let}{\Let}{\Let
2067 \DeclareTextSymbol{\textethiopichhu}{LET}{17}
2068 \DeclareTextCommand{\textethiopichhu}{\Let}{\fontencoding{LET}\selectfont\textethiopichhu}
2069 \DeclareTextSymbol{\textethiopichhi}{LET}{18}
2071 \DeclareTextSymbol{\textethiopichhaa}{LET}{19}
2073 \DeclareTextSymbol{\textethiopichhee}{LET}{20}
2074 \DeclareTextCommand{\textethiopichhee}{Let}{\fontencoding{LET}\selectfont\textethiopichhee}
2075 \DeclareTextSymbol{\textethiopichhe}{LET}{21}
2076 \DeclareTextCommand{\textethiopichhe}{Let}{\fontencoding{LET}\selectfont\textethiopichhe}
2077 \DeclareTextSymbol{\textethiopichho}{LET}{22}
2079 \DeclareTextSymbol{\textethiopichhwa}{LET}{23}
2080 \ \texttt{Let}{\ \texttt{Let}}{\ \texttt{Let}}{
2081 \DeclareTextSymbol{\textethiopicma}{LET}{24}
2083 \DeclareTextSymbol{\textethiopicmu}{LET}{25}
```

2085 \DeclareTextSymbol{\textethiopicmi}{LET}{26}

```
2086 \DeclareTextCommand{\textethiopicmi}{Let}{\fontencoding{LET}\selectfont\textethiopicmi}
2087 \DeclareTextSymbol{\textethiopicmaa}{LET}{27}
2089 \DeclareTextSymbol{\textethiopicmee}{LET}{28}
2090 \ \texttt{\Let}{\texttt{\Let}}\ \texttt{\LET}\ \texttt{\
2091 \DeclareTextSymbol{\textethiopicme}{LET}{29}
2092 \DeclareTextCommand{\textethiopicme}{Let}{\fontencoding{LET}\selectfont\textethiopicme}
2093 \DeclareTextSymbol{\textethiopicmo}{LET}{30}
2095 \DeclareTextSymbol{\textethiopicmwa}{LET}{31}
2096 \ \texttt{\localine} \{ \texttt{\localine} \{ \texttt{\localine} \} \{ \texttt
2097 \DeclareTextSymbol{\textethiopicsza}{LET}{32}
2099 \DeclareTextSymbol{\textethiopicszu}{LET}{33}
2101 \DeclareTextSymbol{\textethiopicszi}{LET}{34}
2103 \DeclareTextSymbol{\textethiopicszaa}{LET}{35}
2104 \end{textethiopicszaa} \end{Let} \end{textethiopicszaa} \end{
2105 \DeclareTextSymbol{\textethiopicszee}{LET}{36}
2107 \DeclareTextSymbol{\textethiopicsze}{LET}{37}
2109 \DeclareTextSymbol{\textethiopicszo}{LET}{38}
2111 \DeclareTextSymbol{\textethiopicszwa}{LET}{39}
2112 \end{\text{\command}\textethiopicszwa} \end{\text{\c
2113 \DeclareTextSymbol{\textethiopicra}{LET}{40}
2114 \end{\text{\command{\textethiopicra}}} \end{\text{\command{\textethiopicra}}} \end{\text{\command{\textethiopicra}}} \end{\text{\command{\textethiopicra}}} \end{\text{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\c
2115 \DeclareTextSymbol{\textethiopicru}{LET}{41}
2116 \DeclareTextCommand{\textethiopicru}{\Lethiopicru} \Lethiopicru}
2117 \DeclareTextSymbol{\textethiopicri}{LET}{42}
2118 \DeclareTextCommand{\textethiopicri}{Let}{\fontencoding{LET}\selectfont\textethiopicri}
2119 \DeclareTextSymbol{\textethiopicraa}{LET}{43}
2121 \DeclareTextSymbol{\textethiopicree}{LET}{44}
2123 \DeclareTextSymbol{\textethiopicre}{LET}{45}
2124 \DeclareTextCommand{\textethiopicre}{Let}{\fontencoding{LET}\selectfont\textethiopicre}
2125 \DeclareTextSymbol{\textethiopicro}{LET}{46}
2126 \DeclareTextCommand{\textethiopicro}{Let}{\fontencoding{LET}\selectfont\textethiopicro}
2127 \DeclareTextSymbol{\textethiopicrwa}{LET}{47}
2129 \DeclareTextSymbol{\textethiopicsa}{LET}{48}
2130 \end{\text{\command}\textethiopicsa} \end{\text{\command}\textethio
2131 \DeclareTextSymbol{\textethiopicsu}{LET}{49}
2133 \DeclareTextSymbol{\textethiopicsi}{LET}{50}
2134 \DeclareTextCommand{\textethiopicsi}{Let}{\fontencoding{LET}\selectfont\textethiopicsi}
```

2135 \DeclareTextSymbol{\textethiopicsaa}{LET}{51}

```
2137 \DeclareTextSymbol{\textethiopicsee}{LET}{52}
2139 \DeclareTextSymbol{\textethiopicse}{LET}{53}
2141 \DeclareTextSymbol{\textethiopicso}{LET}{54}
2142 \DeclareTextCommand{\textethiopicso}{Let}{\fontencoding{LET}\selectfont\textethiopicso}
2143 \DeclareTextSymbol{\textethiopicswa}{LET}{55}
2144 \ensuremath{\textethiopicswa} {Let} {\noting LET} \ensuremath{\textethiopicswa} {Let} {\noting LET} \ensuremath{\textethiopicswa} {\noting Let} {\noting LET} \ensuremath{\textethiopicswa} {\noting Let} {\noting LET} \ensuremath{\textethiopicswa} {\noting LET} \ensuremath{\textet
2145 \DeclareTextSymbol{\textethiopicsha}{LET}{56}
2147 \DeclareTextSymbol{\textethiopicshu}{LET}{57}
2149 \DeclareTextSymbol{\textethiopicshi}{LET}{58}
2151 \DeclareTextSymbol{\textethiopicshaa}{LET}{59}
2153 \DeclareTextSymbol{\textethiopicshee}{LET}{60}
2155 \DeclareTextSymbol{\textethiopicshe}{LET}{61}
2156 \DeclareTextCommand{\textethiopicshe}{Let}{\fontencoding{LET}\selectfont\textethiopicshe}
2157 \DeclareTextSymbol{\textethiopicsho}{LET}{62}
2159 \DeclareTextSymbol{\textethiopicshwa}{LET}{63}
2161 \DeclareTextSymbol{\textethiopicqa}{LET}{64}
2162 \ensuremath{\lower.eng} Let $$\{\ensuremath{\lower.eng} Let \} $$\ensuremath{\lower.eng} Let $$\ensuremath{\lower.eng} Le
2163 \DeclareTextSymbol{\textethiopicqu}{LET}{65}
2164 \end{\text{\command{\textethiopicqu}}} \end{\text{\command{\textethiopicqu}}} \end{\text{\command{\textethiopicqu}}} \end{\text{\command{\textethiopicqu}}} \end{\text{\command{\command{\textethiopicqu}}} \end{\text{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\co
2165 \DeclareTextSymbol{\textethiopicqi}{LET}{66}
2166 \DeclareTextCommand{\textethiopicqi}{Let}{\fontencoding{LET}\selectfont\textethiopicqi}
2167 \DeclareTextSymbol{\textethiopicqaa}{LET}{67}
2169 \DeclareTextSymbol{\textethiopicgee}{LET}{68}
2171 \DeclareTextSymbol{\textethiopicqe}{LET}{69}
2173 \DeclareTextSymbol{\textethiopicqo}{LET}{70}
2174 \DeclareTextCommand{\textethiopicqo}{Let}{\fontencoding{LET}\selectfont\textethiopicqo}
2175 \DeclareTextSymbol{\textethiopicqwa}{LET}{72}
2177 \DeclareTextSymbol{\textethiopicqwi}{LET}{74}
2178 \DeclareTextCommand{\textethiopicqwi}{Let}{\fontencoding{LET}\selectfont\textethiopicqwi}
2179 \DeclareTextSymbol{\textethiopicqwaa}{LET}{75}
2181 \DeclareTextSymbol{\textethiopicqwee}{LET}{76}
2182 \DeclareTextCommand{\textethiopicqwee}{Let}{\fontencoding{LET}\selectfont\textethiopicqwee}
2183 \DeclareTextSymbol{\textethiopicqwe}{LET}{77}
2184 \DeclareTextCommand{\textethiopicqwe}{Let}{\fontencoding{LET}\selectfont\textethiopicqwe}
```

2185 \DeclareTextSymbol{\textethiopicqha}{LET}{80}

```
2187 \DeclareTextSymbol{\textethiopicqhu}{LET}{81}
2189 \DeclareTextSymbol{\textethiopicqhi}{LET}{82}
2190 \DeclareTextCommand{\textethiopicqhi}{Let}{\fontencoding{LET}\selectfont\textethiopicqhi}
2191 \DeclareTextSymbol{\textethiopicqhaa}{LET}{83}
2193 \DeclareTextSymbol{\textethiopicqhee}{LET}{84}
2196 \DeclareTextCommand{\textethiopicqhe}{Let}{\fontencoding{LET}\selectfont\textethiopicqhe}
2197 \DeclareTextSymbol{\textethiopicqho}{LET}{86}
2198 \DeclareTextCommand{\textethiopicqho}{Let}{\fontencoding{LET}\selectfont\textethiopicqho}
2199 \DeclareTextSymbol{\textethiopicqhwa}{LET}{88}
2200 \ \texttt{LET} \ \texttt{LetF} 
2201 \DeclareTextSymbol{\textethiopicqhwi}{LET}{90}
2202 \DeclareTextCommand{\textethiopicqhwi}{Let}{\fontencoding{LET}\selectfont\textethiopicqhwi}
2203 \DeclareTextSymbol{\textethiopicqhwaa}{LET}{91}
2204 \ensuremath{\textethiopicqhwaa} \ensuremath{\textethiop
2205 \DeclareTextSymbol{\textethiopicqhwee}{LET}{92}
2206 \ \texttt{LET} \ \texttt{L
2207 \DeclareTextSymbol{\textethiopicqhwe}{LET}{93}
2208 \DeclareTextCommand{\textethiopicqhwe}{Let}{\fontencoding{LET}\selectfont\textethiopicqhwe}
2209 \DeclareTextSymbol{\textethiopicba}{LET}{96}
2211 \DeclareTextSymbol{\textethiopicbu}{LET}{97}
2212 \DeclareTextCommand{\textethiopicbu}{Let}{\fontencoding{LET}\selectfont\textethiopicbu}
2213 \DeclareTextSymbol{\textethiopicbi}{LET}{98}
2215 \DeclareTextSymbol{\textethiopicbaa}{LET}{99}
2217 \DeclareTextSymbol{\textethiopicbee}{LET}{100}
2218 \DeclareTextCommand{\textethiopicbee}{Let}{\fontencoding{LET}\selectfont\textethiopicbee}
2219 \DeclareTextSymbol{\textethiopicbe}{LET}{101}
2220 \DeclareTextCommand{\textethiopicbe}{Let}{\fontencoding{LET}\selectfont\textethiopicbe}
2221 \DeclareTextSymbol{\textethiopicbo}{LET}{102}
2223 \DeclareTextSymbol{\textethiopicbwa}{LET}{103}
2225 \DeclareTextSymbol{\textethiopicva}{LET}{104}
2227 \DeclareTextSymbol{\textethiopicvu}{LET}{105}
2229 \DeclareTextSymbol{\textethiopicvi}{LET}{106}
2230 \DeclareTextCommand{\textethiopicvi}{Let}{\fontencoding{LET}\selectfont\textethiopicvi}
2231 \DeclareTextSymbol{\textethiopicvaa}{LET}{107}
2233 \DeclareTextSymbol{\textethiopicvee}{LET}{108}
2234 \DeclareTextCommand{\textethiopicvee}{Let}{\fontencoding{LET}\selectfont\textethiopicvee}
```

2235 \DeclareTextSymbol{\textethiopicve}{LET}{109}

```
2236 \DeclareTextCommand{\textethiopicve}{Let}{\fontencoding{LET}\selectfont\textethiopicve}
2237 \DeclareTextSymbol{\textethiopicvo}{LET}{110}
2238 \DeclareTextCommand{\textethiopicvo}{Let}{\fontencoding{LET}\selectfont\textethiopicvo}
2239 \DeclareTextSymbol{\textethiopicvwa}{LET}{111}
2241 \DeclareTextSymbol{\textethiopicta}{LET}{112}
2243 \DeclareTextSymbol{\textethiopictu}{LET}{113}
2245 \DeclareTextSymbol{\textethiopicti}{LET}{114}
2246 \DeclareTextCommand{\textethiopicti}{Let}{\fontencoding{LET}\selectfont\textethiopicti}
2247 \DeclareTextSymbol{\textethiopictaa}{LET}{115}
2249 \DeclareTextSymbol{\textethiopictee}{LET}{116}
2251 \DeclareTextSymbol{\textethiopicte}{LET}{117}
2252 \DeclareTextCommand{\textethiopicte}{Let}{\fontencoding{LET}\selectfont\textethiopicte}
2253 \DeclareTextSymbol{\textethiopicto}{LET}{118}
2254 \ensuremath{\textethiopicto} {Let} {\notenceding LET} \ensuremath{\textethiopicto} {Let} {\notenceding LET} \ensuremath{\textethiopicto} {Let} {\notenceding LET} \ensuremath{\textethiopicto} {\notenceding LET} {\notenceding LET} \ensuremath{\textethiopicto} {\notenceding LET} {\notenceding LET} \ensuremath{\textethiopicto} {\notenceding LET} \ensuremath{\te
2255 \DeclareTextSymbol{\textethiopictwa}{LET}{119}
2257 \DeclareTextSymbol{\textethiopicca}{LET}{120}
2259 \DeclareTextSymbol{\textethiopiccu}{LET}{121}
2260 \ \texttt{Let}{\texttt{Let}}{\texttt{Let}}\ \texttt{LET}{\texttt{Let}}{\texttt{Let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}}{\texttt{let}
2261 \DeclareTextSymbol{\textethiopicci}{LET}{122}
2262 \DeclareTextCommand{\textethiopicci}{Let}{\fontencoding{LET}\selectfont\textethiopicci}
2263 \DeclareTextSymbol{\textethiopiccaa}{LET}{123}
2264 \ensuremath{\textethiopiccaa} \ensuremath{\textethiopiccaa}
2265 \DeclareTextSymbol{\textethiopiccee}{LET}{124}
2266 \DeclareTextCommand{\textethiopiccee}{Let}{\fontencoding{LET}\selectfont\textethiopiccee}
2267 \DeclareTextSymbol{\textethiopicce}{LET}{125}
2268 \DeclareTextCommand{\textethiopicce}{Let}{\fontencoding{LET}\selectfont\textethiopicce}
2269 \DeclareTextSymbol{\textethiopicco}{LET}{126}
2270 \DeclareTextCommand{\textethiopicco}{Let}{\fontencoding{LET}\selectfont\textethiopicco}
2271 \DeclareTextSymbol{\textethiopiccwa}{LET}{127}
2273 \DeclareTextSymbol{\textethiopicxa}{LET}{128}
2274 \ensuremath{\textethiopicxa} \ensurema
2275 \DeclareTextSymbol{\textethiopicxu}{LET}{129}
2276 \DeclareTextCommand{\textethiopicxu}{Let}{\fontencoding{LET}\selectfont\textethiopicxu}
2277 \DeclareTextSymbol{\textethiopicxi}{LET}{130}
2278 \DeclareTextCommand{\textethiopicxi}{Let}{\fontencoding{LET}\selectfont\textethiopicxi}
2279 \DeclareTextSymbol{\textethiopicxaa}{LET}{131}
2281 \DeclareTextSymbol{\textethiopicxee}{LET}{132}
2282 \DeclareTextCommand{\textethiopicxee}{Let}{\fontencoding{LET}\selectfont\textethiopicxee}
2283 \DeclareTextSymbol{\textethiopicxe}{LET}{133}
2284 \DeclareTextCommand{\textethiopicxe}{\fontencoding{LET}\selectfont\textethiopicxe}
```

2285 \DeclareTextSymbol{\textethiopicxo}{LET}{134}

```
2286 \DeclareTextCommand{\textethiopicxo}{Let}{\fontencoding{LET}\selectfont\textethiopicxo}
2287 \DeclareTextSymbol{\textethiopicxwa}{LET}{136}
2288 \ \texttt{Let}{\texttt{Let}} \ \texttt{LET}{\texttt{Let}} \ \texttt{LET}{\texttt{Let}} \ \texttt{Let} \ \texttt{Let}
2289 \DeclareTextSymbol{\textethiopicxwi}{LET}{138}
2290 \DeclareTextCommand{\textethiopicxwi}{Let}{\fontencoding{LET}\selectfont\textethiopicxwi}
2291 \DeclareTextSymbol{\textethiopicxwaa}{LET}{139}
2292 \DeclareTextCommand{\textethiopicxwaa}{Let}{\fontencoding{LET}\selectfont\textethiopicxwaa}
2293 \DeclareTextSymbol{\textethiopicxwee}{LET}{140}
2295 \DeclareTextSymbol{\textethiopicxwe}{LET}{141}
2296 \DeclareTextCommand{\textethiopicxwe}{Let}{\fontencoding{LET}\selectfont\textethiopicxwe}
2297 \DeclareTextSymbol{\textethiopicna}{LET}{144}
2299 \DeclareTextSymbol{\textethiopicnu}{LET}{145}
2301 \DeclareTextSymbol{\textethiopicni}{LET}{146}
2302 \DeclareTextCommand{\textethiopicni}{Let}{\fontencoding{LET}\selectfont\textethiopicni}
2303 \DeclareTextSymbol{\textethiopicnaa}{LET}{147}
2304 \ensuremath{\textethiopicnaa} {Let} {fontencoding {LET} selectfont \textethiopicnaa} \ensuremath{\textethiopicnaa} {Let} {fontencoding {LET} selectfont \textethiopicnaa} \ensuremath{\textethiopicnaa} {Let} {Le
2305 \DeclareTextSymbol{\textethiopicnee}{LET}{148}
2306 \DeclareTextCommand{\textethiopicnee}{Let}{\fontencoding{LET}\selectfont\textethiopicnee}
2307 \DeclareTextSymbol{\textethiopicne}{LET}{149}
2308 \DeclareTextCommand{\textethiopicne}{Let}{\fontencoding{LET}\selectfont\textethiopicne}
2309 \DeclareTextSymbol{\textethiopicno}{LET}{150}
2311 \DeclareTextSymbol{\textethiopicnwa}{LET}{151}
2312 \ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath}\ensuremath{\texttt{NeclareTextCommand}}\ensuremath{\texttt{Neclare
2313 \DeclareTextSymbol{\textethiopicnya}{LET}{152}
2314 \ensuremath{\textethiopicnya} \ensuremath{\textethiopicnya}
2315 \DeclareTextSymbol{\textethiopicnyu}{LET}{153}
2316 \DeclareTextCommand{\textethiopicnyu}{Let}{\fontencoding{LET}\selectfont\textethiopicnyu}
2317 \DeclareTextSymbol{\textethiopicnyi}{LET}{154}
2318 \DeclareTextCommand{\textethiopicnyi}{Let}{\fontencoding{LET}\selectfont\textethiopicnyi}
2319 \DeclareTextSymbol{\textethiopicnyaa}{LET}{155}
2321 \DeclareTextSymbol{\textethiopicnyee}{LET}{156}
2322 \DeclareTextCommand{\textethiopicnyee}{Let}{\fontencoding{LET}\selectfont\textethiopicnyee}
2323 \DeclareTextSymbol{\textethiopicnye}{LET}{157}
2324 \DeclareTextCommand{\textethiopicnye}{Let}{\fontencoding{LET}\selectfont\textethiopicnye}
2325 \DeclareTextSymbol{\textethiopicnyo}{LET}{158}
2326 \DeclareTextCommand{\textethiopicnyo}{Let}{\fontencoding{LET}\selectfont\textethiopicnyo}
2327 \DeclareTextSymbol{\textethiopicnywa}{LET}{159}
2329 \DeclareTextSymbol{\textethiopicglottala}{LET}{160}
```

 $2330 \ \texttt{LET} \\ \texttt{Selectfont} \\ \texttt{textethiopicglottala} \\ \texttt{Let} \\ \texttt{fontencoding} \\ \texttt{LET} \\ \texttt{selectfont} \\ \texttt{textethiopicglottala} \\ \texttt{textethi$

2331 \DeclareTextSymbol{\textethiopicglottalu}{LET}{161}

2333 \DeclareTextSymbol{\textethiopicglottali}{LET}{162}

2335 \DeclareTextSymbol{\textethiopicglottalaa}{LET}{163}

```
2337 \DeclareTextSymbol{\textethiopicglottalee}{LET}{164}
2339 \DeclareTextSymbol{\textethiopicglottale}{LET}{165}
2340 \ \texttt{Let}{\texttt{Selectfont}} \ \texttt{Let}{\texttt{Selectfont}} \ \texttt{Let}{\texttt{Selectfont}} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let} \ \texttt{Let}{\texttt{Let}} \ \texttt{Let} \ \texttt{
2341 \DeclareTextSymbol{\textethiopicglottalo}{LET}{166}
2343 \DeclareTextSymbol{\textethiopicglottalwa}{LET}{167}
2345 \DeclareTextSymbol{\textethiopicka}{LET}{168}
2347 \DeclareTextSymbol{\textethiopicku}{LET}{169}
2348 \DeclareTextCommand{\textethiopicku}{\fontencoding{LET}\selectfont\textethiopicku}
2349 \DeclareTextSymbol{\textethiopicki}{LET}{170}
2350 \DeclareTextCommand{\textethiopicki}{Let}{\fontencoding{LET}\selectfont\textethiopicki}
2351 \DeclareTextSymbol{\textethiopickaa}{LET}{171}
2353 \DeclareTextSymbol{\textethiopickee}{LET}{172}
2354 \ensuremath{\textethiopickee} \ensuremath{\textethiopickee}
2355 \DeclareTextSymbol{\textethiopicke}{LET}{173}
2356 \DeclareTextCommand{\textethiopicke}{\fontencoding{LET}\selectfont\textethiopicke}
2357 \DeclareTextSymbol{\textethiopicko}{LET}{174}
2359 \DeclareTextSymbol{\textethiopickwa}{LET}{176}
2361 \DeclareTextSymbol{\textethiopickwi}{LET}{178}
2362 \DeclareTextCommand{\textethiopickwi}{Let}{\fontencoding{LET}\selectfont\textethiopickwi}
2363 \DeclareTextSymbol{\textethiopickwaa}{LET}{179}
2364 \ensuremath{\label{let}{\label{let}{\label{let}{\label{let}}}} \ensuremath{\label{let}{\label{let}}{\label{let}{\label{let}}} \ensuremath{\label{let}{\label{let}}} \ensuremath{\label{let}{\label{let}}} \ensuremath{\label{let}} \ensuremath{\label{let}} \ensuremath{\label{let}{\label{let}}} \ensuremath{\label{let}} \ensuremath{\labell} \ensuremath{\labell} \ensuremath{\labell} \ensuremath{\labell} \ensuremath{\labell} \ensuremath{\labell} \ensuremath{\labell} \e
2365 \DeclareTextSymbol{\textethiopickwee}{LET}{180}
2366 \DeclareTextCommand{\textethiopickwee}{Let}{\fontencoding{LET}\selectfont\textethiopickwee}
2367 \DeclareTextSymbol{\textethiopickwe}{LET}{181}
2368 \DeclareTextCommand{\textethiopickwe}{Let}{\fontencoding{LET}\selectfont\textethiopickwe}
2369 \DeclareTextSymbol{\textethiopickxa}{LET}{184}
2371 \DeclareTextSymbol{\textethiopickxu}{LET}{185}
2373 \DeclareTextSymbol{\textethiopickxi}{LET}{186}
2374 \DeclareTextCommand{\textethiopickxi}{Let}{\fontencoding{LET}\selectfont\textethiopickxi}
2375 \DeclareTextSymbol{\textethiopickxaa}{LET}{187}
2377 \DeclareTextSymbol{\textethiopickxee}{LET}{188}
2378 \DeclareTextCommand{\textethiopickxee}{Let}{\fontencoding{LET}\selectfont\textethiopickxee}
2379 \DeclareTextSymbol{\textethiopickxe}{LET}{189}
2381 \DeclareTextSymbol{\textethiopickxo}{LET}{190}
2382 \DeclareTextCommand{\textethiopickxo}{Let}{\fontencoding{LET}\selectfont\textethiopickxo}
2383 \DeclareTextSymbol{\textethiopickxwa}{LET}{192}
2385 \DeclareTextSymbol{\textethiopickxwi}{LET}{194}
```

```
2386 \DeclareTextCommand{\textethiopickxwi}{Let}{\fontencoding{LET}\selectfont\textethiopickxwi}
2387 \DeclareTextSymbol{\textethiopickxwaa}{LET}{195}
2389 \DeclareTextSymbol{\textethiopickxwee}{LET}{196}
2391 \DeclareTextSymbol{\textethiopickxwe}{LET}{197}
2393 \DeclareTextSymbol{\textethiopicwa}{LET}{200}
2395 \DeclareTextSymbol{\textethiopicwu}{LET}{201}
2396 \DeclareTextCommand{\textethiopicwu}{Let}{\fontencoding{LET}\selectfont\textethiopicwu}
2397 \DeclareTextSymbol{\textethiopicwi}{LET}{202}
2398 \DeclareTextCommand{\textethiopicwi}{Let}{\fontencoding{LET}\selectfont\textethiopicwi}
2399 \DeclareTextSymbol{\textethiopicwaa}{LET}{203}
2401 \DeclareTextSymbol{\textethiopicwee}{LET}{204}
2403 \DeclareTextSymbol{\textethiopicwe}{LET}{205}
2404 \end{\text{\command{\textethiopicwe}}} \end{\command{\texten}} \end{\text{\command{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\textend{\te
2405 \DeclareTextSymbol{\textethiopicwo}{LET}{206}
2406 \ \texttt{\Let}{\texttt{\Let}}\ \texttt{\LET}\ \texttt{\Let}{\texttt{\LET}}\ \texttt{\Let}\ \texttt{\
2407 \DeclareTextSymbol{\textethiopicpharyngeala}{LET}{208}
2408 \verb|\lambda| Let{\fontencoding{LET}} select font \verb|\textethiopicpharyngeala| Let{\fontencoding{LET}} select font \verb|\texte
2409 \DeclareTextSymbol{\textethiopicpharyngealu}{LET}{209}
2411 \DeclareTextSymbol{\textethiopicpharyngeali}{LET}{210}
2412 \ensuremath{\label{left}} \ensuremath
2413 \DeclareTextSymbol{\textethiopicpharyngealaa}{LET}{211}
2415 \DeclareTextSymbol{\textethiopicpharyngealee}{LET}{212}
2416 \DeclareTextCommand{\textethiopicpharyngealee}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngealee}
2417 \DeclareTextSymbol{\textethiopicpharyngeale}{LET}{213}
2418 \ensuremath{\label{let}{\label{let-fontencoding}LET}\selectfont \ensuremath{\label{let-fontencoding}LET}\selectfont \ensuremath{\label{\label{let-fontencoding}LET}\selectfont \ensuremath{\label{\label{\label{\label}LET}LET}\selectfont \ensuremath{\label{\label{\label}LET}\selectfont \ensuremath{\label{\label}LET}\selectfont \ensuremath{\label{\label}LET}\selectfont \ensuremath{\label{\label}LET}\selectfont \ensuremath{\label{\label}LET}\selectfont \ensuremath{\label}\selectfont \ensuremath{\label}LET}\selectfont \ensuremath{\label}\selectfont \ensuremath{\label}\selectfont \ensuremath{\label}\selectfont \ensuremath{\label}\sele
2419 \DeclareTextSymbol{\textethiopicpharyngealo}{LET}{214}
2420 \ \ \ Let \\ \{\ Let \} \\ \{\ 
2421 \DeclareTextSymbol{\textethiopicza}{LET}{216}
2423 \DeclareTextSymbol{\textethiopiczu}{LET}{217}
2425 \DeclareTextSymbol{\textethiopiczi}{LET}{218}
2426 \DeclareTextCommand{\textethiopiczi}{Let}{\fontencoding{LET}\selectfont\textethiopiczi}
2427 \DeclareTextSymbol{\textethiopiczaa}{LET}{219}
2429 \DeclareTextSymbol{\textethiopiczee}{LET}{220}
2431 \DeclareTextSymbol{\textethiopicze}{LET}{221}
2432 \DeclareTextCommand{\textethiopicze}{Let}{\fontencoding{LET}\selectfont\textethiopicze}
2433 \DeclareTextSymbol{\textethiopiczo}{LET}{222}
2434 \end{\text{\command{\textethiopiczo}}} \end{\text{\command{\textethiopiczo}}} \end{\text{\command{\textethiopiczo}}} \end{\text{\command{\textethiopiczo}}} \end{\text{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\c
2435 \DeclareTextSymbol{\textethiopiczwa}{LET}{223}
```

```
2436 \ensuremath{\texttt{NeclareTextCommand{\text{textethiopiczwa}}} \{ \ensuremath{\texttt{Let}} \} \ensuremath{\texttt{Selectfont}} \ensuremath{\texttt{textethiopiczwa}} \} \} \ensuremath{\texttt{Cextethiopiczwa}} \ensuremath{\texttt{Cextethiopiczwa}} \} \ensuremath{\texttt{Cextethiopiczwa}} \ensuremath{\texttt{Cextethiopiczwa}} \} \ensuremath{\texttt{Cextethiopiczwa}} 
2437 \DeclareTextSymbol{\textethiopiczha}{LET}{224}
2439 \DeclareTextSymbol{\textethiopiczhu}{LET}{225}
2441 \DeclareTextSymbol{\textethiopiczhi}{LET}{226}
2442 \DeclareTextCommand{\textethiopiczhi}{\Lethiopiczhi} \Lethiopiczhi}
2443 \DeclareTextSymbol{\textethiopiczhaa}{LET}{227}
2444 \ \texttt{Let}{\ \textbf{(fontencoding\{LET)\ \textbf{(selectfont)} textethiopiczhaa)}} \\
2445 \DeclareTextSymbol{\textethiopiczhee}{LET}{228}
2446 \DeclareTextCommand{\textethiopiczhee}{Let}{\fontencoding{LET}\selectfont\textethiopiczhee}
2447 \DeclareTextSymbol{\textethiopiczhe}{LET}{229}
2449 \DeclareTextSymbol{\textethiopiczho}{LET}{230}
2450 \ensuremath{\texttt{NeclareTextCommand{\text{textethiopiczho}}} \{ \ensuremath{\texttt{Let}} \} \ensuremath{\texttt{Selectfont}} \ensuremath{\texttt{Textethiopiczho}} \} \} \ensuremath{\texttt{Let}} \ensuremath{\texttt{NeclareTextCommand{\text{textethiopiczho}}} 
2451 \DeclareTextSymbol{\textethiopiczhwa}{LET}{231}
2453 \DeclareTextSymbol{\textethiopicya}{LET}{232}
2454 \ensuremath{\textethiopicya} \ensurema
2455 \DeclareTextSymbol{\textethiopicyu}{LET}{233}
2456 \DeclareTextCommand{\textethiopicyu}{Let}{\fontencoding{LET}\selectfont\textethiopicyu}
2457 \DeclareTextSymbol{\textethiopicyi}{LET}{234}
2458 \verb|\DeclareTextCommand{\textethiopicyi}{Let}_{\text{}} Selectfont\\ textethiopicyi} A selectfont the selectfont that the selectfont the selectfont that the selectfont the selectfont that the selectfont the selectfont
2459 \DeclareTextSymbol{\textethiopicyaa}{LET}{235}
2461 \DeclareTextSymbol{\textethiopicyee}{LET}{236}
2462 \DeclareTextCommand{\textethiopicyee}{Let}{\fontencoding{LET}\selectfont\textethiopicyee}
2463 \DeclareTextSymbol{\textethiopicye}{LET}{237}
2464 \DeclareTextCommand{\textethiopicye}{Let}{\fontencoding{LET}\selectfont\textethiopicye}
2465 \DeclareTextSymbol{\textethiopicyo}{LET}{238}
2466 \DeclareTextCommand{\textethiopicyo}{Let}{\fontencoding{LET}\selectfont\textethiopicyo}
2467 \DeclareTextSymbol{\textethiopicda}{LET}{240}
2468 \DeclareTextCommand{\textethiopicda}{Let}{\fontencoding{LET}\selectfont\textethiopicda}
2469 \DeclareTextSymbol{\textethiopicdu}{LET}{241}
2471 \DeclareTextSymbol{\textethiopicdi}{LET}{242}
2473 \DeclareTextSymbol{\textethiopicdaa}{LET}{243}
2474 \ensuremath{\texttt{Let}}{\texttt{Nontencoding\{LET\}}} \ensuremath{\texttt{Nontencoding\{LET\}}} \ensuremath{\texttt{Nontencoding\{
2475 \DeclareTextSymbol{\textethiopicdee}{LET}{244}
2476 \DeclareTextCommand{\textethiopicdee}{Let}{\fontencoding{LET}\selectfont\textethiopicdee}
2477 \DeclareTextSymbol{\textethiopicde}{LET}{245}
2479 \DeclareTextSymbol{\textethiopicdo}{LET}{246}
2480 \DeclareTextCommand{\textethiopicdo}{Let}{\fontencoding{LET}\selectfont\textethiopicdo}
2481 \DeclareTextSymbol{\textethiopicdwa}{LET}{247}
2483 \DeclareTextSymbol{\textethiopicdda}{LET}{248}
2484 \ensuremath{\textethiopicdda} \ensuremath{\textethiopicda} \ensuremath{\textethiopicda}
```

2485 \DeclareTextSymbol{\textethiopicddu}{LET}{249}

```
2486 \ensuremath{\texttt{NeclareTextCommand{\text{textethiopicddu}}{\text{Let}{\text{fontencoding{\text{LET}}}}}} \\
2487 \DeclareTextSymbol{\textethiopicddi}{LET}{250}
2489 \DeclareTextSymbol{\textethiopicddaa}{LET}{251}
2490 \ \texttt{Let}{\ \textbf{(fontencoding\{LET)\ \textbf{(selectfont)} textethiopicddaa)}} \\
2491 \DeclareTextSymbol{\textethiopicddee}{LET}{252}
2493 \DeclareTextSymbol{\textethiopicdde}{LET}{253}
2494 \ensuremath{\label{let}{fontencoding{LET}}} selectfont \ens
2495 \DeclareTextSymbol{\textethiopicddo}{LET}{254}
2496 \DeclareTextCommand{\textethiopicddo}{Let}{\fontencoding{LET}\selectfont\textethiopicddo}
2497 \DeclareTextSymbol{\textethiopicddwa}{LET}{255}
2499 \DeclareTextSymbol{\textethiopicja}{Let}{0}
2500 \DeclareTextCommand{\textethiopicja}{LET}{\fontencoding{Let}\selectfont\textethiopicja}
2501 \DeclareTextSymbol{\textethiopicju}{Let}{1}
2502 \DeclareTextCommand{\textethiopicju}{\fontencoding{Let}\selectfont\textethiopicju}
2503 \DeclareTextSymbol{\textethiopicji}{Let}{2}
2504 \DeclareTextCommand{\textethiopicji}{LET}{\fontencoding{Let}\selectfont\textethiopicji}
2505 \DeclareTextSymbol{\textethiopicjaa}{Let}{3}
2506 \DeclareTextCommand{\textethiopicjaa}{LET}{\fontencoding{Let}\selectfont\textethiopicjaa}
2507 \DeclareTextSymbol{\textethiopicjee}{Let}{4}
2509 \DeclareTextSymbol{\textethiopicje}{Let}{5}
2510 \DeclareTextCommand{\textethiopicje}{LET}{\fontencoding{Let}\selectfont\textethiopicje}
2511 \DeclareTextSymbol{\textethiopicjo}{Let}{6}
2512 \DeclareTextCommand{\textethiopicjo}{LET}{\fontencoding{Let}\selectfont\textethiopicjo}
2513 \DeclareTextSymbol{\textethiopicjwa}{Let}{7}
2515 \DeclareTextSymbol{\textethiopicga}{Let}{8}
2516 \DeclareTextCommand{\textethiopicga}{LET}{\fontencoding{Let}\selectfont\textethiopicga}
2517 \DeclareTextSymbol{\textethiopicgu}{Let}{9}
2518 \DeclareTextCommand{\textethiopicgu}{LET}{\fontencoding{Let}\selectfont\textethiopicgu}
2519 \DeclareTextSymbol{\textethiopicgi}{Let}{10}
2520 \DeclareTextCommand{\textethiopicgi}{LET}{\fontencoding{Let}\selectfont\textethiopicgi}
2523 \DeclareTextSymbol{\textethiopicgee}{Let}{12}
2524 \DeclareTextCommand{\textethiopicgee}{LET}{\fontencoding{Let}\selectfont\textethiopicgee}
2525 \DeclareTextSymbol{\textethiopicge}{Let}{13}
2526 \DeclareTextCommand{\textethiopicge}{LET}{\fontencoding{Let}\selectfont\textethiopicge}
2527 \DeclareTextSymbol{\textethiopicgo}{Let}{14}
2528 \DeclareTextCommand{\textethiopicgo}{LET}{\fontencoding{Let}\selectfont\textethiopicgo}
2529 \DeclareTextSymbol{\textethiopicgwa}{Let}{16}
2531 \DeclareTextSymbol{\textethiopicgwi}{Let}{18}
2532 \DeclareTextCommand{\textethiopicgwi}{LET}{\fontencoding{Let}\selectfont\textethiopicgwi}
2533 \DeclareTextSymbol{\textethiopicgwaa}{Let}{19}
```

2535 \DeclareTextSymbol{\textethiopicgwee}{Let}{20}

```
2539 \DeclareTextSymbol{\textethiopicgga}{Let}{24}
2540 \ensuremath{\lower.engra} {LET} {\notenceding Let} \ensuremath{\lower.engra} {Let} {\notenceding Let} {\notenceding Let}
2541 \DeclareTextSymbol{\textethiopicggu}{Let}{25}
2542 \DeclareTextCommand{\textethiopicggu}{LET}{\fontencoding{Let}\selectfont\textethiopicggu}
2543 \DeclareTextSymbol{\textethiopicggi}{Let}{26}
2544 \ensuremath{\textethiopicggi} {LET} {\notenceding {Let} selectfont \textethiopicggi} {\notenceding {LET} selectfont \textethiopicggi} {LET} {\notenceding {LET} selectfont \textethiopicggi} {LET} {\notenceding {LET} selectfont \textethiopicggi} {LET} {\notenceding {LET} selectfon
2545 \verb|\DeclareTextSymbol{\textethiopicggaa}{Let}{27}|
2546 \DeclareTextCommand{\textethiopicggaa}{LET}{\fontencoding{Let}\selectfont\textethiopicggaa}
2547 \DeclareTextSymbol{\textethiopicggee}{Let}{28}
2548 \DeclareTextCommand{\textethiopicggee}{LET}{\fontencoding{Let}\selectfont\textethiopicggee}
2549 \DeclareTextSymbol{\textethiopicgge}{Let}{29}
2550 \DeclareTextCommand{\textethiopicgge}{LET}{\fontencoding{Let}\selectfont\textethiopicgge}
2551 \DeclareTextSymbol{\textethiopicggo}{Let}{30}
2552 \DeclareTextCommand{\textethiopicggo}{LET}{\fontencoding{Let}\selectfont\textethiopicggo}
2553 \DeclareTextSymbol{\textethiopictha}{Let}{32}
2554 \ensuremath{\label{lef}} \ensuremath{\labell} \ensuremath{\labell}
2555 \DeclareTextSymbol{\textethiopicthu}{Let}{33}
2556 \DeclareTextCommand{\textethiopicthu}{\LET}{\fontencoding{Let}\selectfont\textethiopicthu}
2557 \DeclareTextSymbol{\textethiopicthi}{Let}{34}
2558 \DeclareTextCommand{\textethiopicthi}{\LET}{\fontencoding{Let}\selectfont\textethiopicthi}
2559 \DeclareTextSymbol{\textethiopicthaa}{Let}{35}
2560 \ \texttt{LET}{\texttt{Selectfont}} \ \texttt{Lextethiopicthaa}{\texttt{LET}}{\texttt{Selectfont}} \ \texttt{Lextethiopicthaa}{\texttt{Lextethiopicthaa}} \ \texttt{Lextethiopicthaa}{\texttt{Lextethiopicthaa}} \ \texttt{Lextethiopicthaa}{\texttt{Lextethiopicthaa}} \ \texttt{Lextethiopicthaa}{\texttt{Lextethiopicthaa}} \ \texttt{Lextethiopicthaa}{\texttt{Lextethiopicthaa}} \ \texttt{Lextethiopicthaa} \ \texttt{Lextethiopict
2561 \DeclareTextSymbol{\textethiopicthee}{Let}{36}
2562 \DeclareTextCommand{\textethiopicthee}{LET}{\fontencoding{Let}\selectfont\textethiopicthee}
2563 \DeclareTextSymbol{\textethiopicthe}{Let}{37}
2564 \DeclareTextCommand{\textethiopicthe}{\LET}{\fontencoding{Let}\selectfont\textethiopicthe}
2565 \DeclareTextSymbol{\textethiopictho}{Let}{38}
2566 \DeclareTextCommand{\textethiopictho}{LET}{\fontencoding{Let}\selectfont\textethiopictho}
2567 \DeclareTextSymbol{\textethiopicthwa}{Let}{39}
2568 \DeclareTextCommand{\textethiopicthwa}{LET}{\fontencoding{Let}\selectfont\textethiopicthwa}
2569 \DeclareTextSymbol{\textethiopiccha}{Let}{40}
2570 \ensuremath{\texttt{NeclareTextCommand{\text{textethiopiccha}}} \{ \ensuremath{\texttt{LET}} \{ \ensuremath{\texttt{fontencoding{\text{Let}}}} \} \} \\
2571 \DeclareTextSymbol{\textethiopicchu}{Let}{41}
2573 \DeclareTextSymbol{\textethiopicchi}{Let}{42}
2574 \DeclareTextCommand{\textethiopicchi}{\LET}{\fontencoding{Let}\selectfont\textethiopicchi}
2575 \DeclareTextSymbol{\textethiopicchaa}{Let}{43}
2576 \ \texttt{DeclareTextCommand} \\ \texttt{Lextethiopicchaa} \\ \texttt{LET} \\ \texttt{\{hontencoding\{Let\} \setminus selectfont \setminus textethiopicchaa\}} \\ \texttt{Lextethiopicchaa} \\ \texttt{Lextethio
2577 \DeclareTextSymbol{\textethiopicchee}{Let}{44}
2578 \DeclareTextCommand{\textethiopicchee}{LET}{\fontencoding{Let}\selectfont\textethiopicchee}
2579 \DeclareTextSymbol{\textethiopicche}{Let}{45}
2580 \DeclareTextCommand{\textethiopicche}{LET}{\fontencoding{Let}\selectfont\textethiopicche}
2581 \DeclareTextSymbol{\textethiopiccho}{Let}{46}
2582 \DeclareTextCommand{\textethiopiccho}{LET}{\fontencoding{Let}\selectfont\textethiopiccho}
2583 \DeclareTextSymbol{\textethiopicchwa}{Let}{47}
```

2536 \DeclareTextCommand{\textethiopicgwee}{LET}{\fontencoding{Let}\selectfont\textethiopicgwee}

2538 \DeclareTextCommand{\textethiopicgwe}{LET}{\fontencoding{Let}\selectfont\textethiopicgwe}

2537 \DeclareTextSymbol{\textethiopicgwe}{Let}{21}

2585 \DeclareTextSymbol{\textethiopicpha}{Let}{48}

```
2586 \ensuremath{\texttt{NeclareTextCommand{\text{textethiopicpha}}\{\text{LET}}{\text{fontencoding{Let}}} select font \texttt{textethiopicpha}} \\
2587 \DeclareTextSymbol{\textethiopicphu}{Let}{49}
2588 \DeclareTextCommand{\textethiopicphu}{LET}{\fontencoding{Let}\selectfont\textethiopicphu}
2589 \DeclareTextSymbol{\textethiopicphi}{Let}{50}
2590 \DeclareTextCommand{\textethiopicphi}{\LET}{\fontencoding{Let}\selectfont\textethiopicphi}
2591 \DeclareTextSymbol{\textethiopicphaa}{Let}{51}
2593 \DeclareTextSymbol{\textethiopicphee}{Let}{52}
2595 \verb|\DeclareTextSymbol{\textethiopicphe}{Let}{53}|
2596 \DeclareTextCommand{\textethiopicphe}{LET}{\fontencoding{Let}\selectfont\textethiopicphe}
2597 \DeclareTextSymbol{\textethiopicpho}{Let}{54}
2598 \DeclareTextCommand{\textethiopicpho}{LET}{\fontencoding{Let}\selectfont\textethiopicpho}
2599 \DeclareTextSymbol{\textethiopicphwa}{Let}{55}
2601 \DeclareTextSymbol{\textethiopictsa}{Let}{56}
2603 \DeclareTextSymbol{\textethiopictsu}{Let}{57}
2605 \DeclareTextSymbol{\textethiopictsi}{Let}{58}
2606 \DeclareTextCommand{\textethiopictsi}{\LET}{\fontencoding{Let}\selectfont\textethiopictsi}
2607 \DeclareTextSymbol{\textethiopictsaa}{Let}{59}
2608 \ \texttt{LET}{\texttt{Selectfont}} \ \texttt{Lextethiopictsaa}{\texttt{LET}} \ \texttt{Selectfont} \ \texttt{Lextethiopictsaa}{\texttt{Lextethiopictsaa}} \ \texttt{Lextethiopictsaa} \ 
2609 \DeclareTextSymbol{\textethiopictsee}{Let}{60}
2611 \DeclareTextSymbol{\textethiopictse}{Let}{61}
2612 \DeclareTextCommand{\textethiopictse}{LET}{\fontencoding{Let}\selectfont\textethiopictse}
2613 \DeclareTextSymbol{\textethiopictso}{Let}{62}
2615 \DeclareTextSymbol{\textethiopictswa}{Let}{63}
2617 \DeclareTextSymbol{\textethiopictza}{Let}{64}
2618 \ensuremath{\texttt{NeclareTextCommand{\text{textethiopictza}}} \{ \ensuremath{\texttt{LET}} \{ \ensuremath{\texttt{Intertal}} \} \} \ensuremath{\texttt{NeclareTextCommand{\text{textethiopictza}}} \} \} \\
2619 \DeclareTextSymbol{\textethiopictzu}{Let}{65}
2621 \DeclareTextSymbol{\textethiopictzi}{Let}{66}
2623 \DeclareTextSymbol{\textethiopictzaa}{Let}{67}
2625 \DeclareTextSymbol{\textethiopictzee}{Let}{68}
2626 \DeclareTextCommand{\textethiopictzee}{LET}{\fontencoding{Let}\selectfont\textethiopictzee}
2627 \DeclareTextSymbol{\textethiopictze}{Let}{69}
2629 \DeclareTextSymbol{\textethiopictzo}{Let}{70}
2630 \DeclareTextCommand{\textethiopictzo}{LET}{\fontencoding{Let}\selectfont\textethiopictzo}
2631 \DeclareTextSymbol{\textethiopicfa}{Let}{72}
2633 \DeclareTextSymbol{\textethiopicfu}{Let}{73}
```

2635 \DeclareTextSymbol{\textethiopicfi}{Let}{74}

 $2634 \ensuremath{\texttt{NeclareTextCommand{\texttt{Nextethiopicfu}}\{\texttt{LET}}{\texttt{Nontencoding{\texttt{Let}}}} select font \ensuremath{\texttt{textethiopicfu}}{\texttt{Nextethiopicfu}} selectfont \ensuremath{\texttt{Nextethiopicfu}}{\texttt{Nextethiopicfu}} s$

```
2636 \DeclareTextCommand{\textethiopicfi}{\LeftT}{\fontencoding{Let}\selectfont\textethiopicfi}
2637 \DeclareTextSymbol{\textethiopicfaa}{Let}{75}
2639 \DeclareTextSymbol{\textethiopicfee}{Let}{76}
2641 \DeclareTextSymbol{\textethiopicfe}{Let}{77}
2642 \DeclareTextCommand{\textethiopicfe}{LET}{\fontencoding{Let}\selectfont\textethiopicfe}
2643 \DeclareTextSymbol{\textethiopicfo}{Let}{78}
2644 \ \texttt{Let}-\texttt{Selectfont} \ \texttt{Let}-\texttt{Let}-\texttt{Selectfont} \ \texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-\texttt{Let}-
2645 \ensuremath{\verb| DeclareTextSymbol{\textethiopicfwa}{Let}{79}}
2646 \ \texttt{\localine} \{ \texttt{\localine} \{ \texttt{\localine} \} \{ \texttt
2647 \DeclareTextSymbol{\textethiopicpa}{Let}{80}
2649 \DeclareTextSymbol{\textethiopicpu}{Let}{81}
2651 \DeclareTextSymbol{\textethiopicpi}{Let}{82}
2652 \DeclareTextCommand{\textethiopicpi}{LET}{\fontencoding{Let}\selectfont\textethiopicpi}
2653 \DeclareTextSymbol{\textethiopicpaa}{Let}{83}
2655 \DeclareTextSymbol{\textethiopicpee}{Let}{84}
2656 \DeclareTextCommand{\textethiopicpee}{LET}{\fontencoding{Let}\selectfont\textethiopicpee}
2657 \DeclareTextSymbol{\textethiopicpe}{Let}{85}
2658 \verb|\DeclareTextCommand{\textethiopicpe}| LET| \{fontencoding\{Let\}\selectfont\textethiopicpe\}| Let| \} (fontenceding\{Let\}\selectfont\textethiopicpe\}| Let| Let| \} (fontenceding\{Let\}\selectfont\textethiopicpe\}| Let| \} (fontenceding\{Let\}\selectfont\textethiopicpe\}
2659 \DeclareTextSymbol{\textethiopicpo}{Let}{86}
2660 \DeclareTextCommand{\textethiopicpo}{LET}{\fontencoding{Let}\selectfont\textethiopicpo}
2661 \DeclareTextSymbol{\textethiopicpwa}{Let}{87}
2662 \DeclareTextCommand{\textethiopicpwa}{LET}{\fontencoding{Let}\selectfont\textethiopicpwa}
2663 \DeclareTextSymbol{\textethiopicrya}{Let}{88}
2664 \ensuremath{\textethiopicrya} \ensuremath{\textethiopicrya}
2665 \DeclareTextSymbol{\textethiopicmya}{Let}{89}
2666 \ \texttt{\localine} \{ \texttt{\localine} \{ \texttt{\localine} \} \{ \texttt{\localine} \{ \texttt{\localine} \} \} \} 
2667 \DeclareTextSymbol{\textethiopicfya}{Let}{90}
2668 \DeclareTextCommand{\textethiopicfya}{LET}{\fontencoding{Let}\selectfont\textethiopicfya}
2669 \DeclareTextSymbol{\textethiopicwordspace}{Let}{97}
2670 \ \texttt{\localing} \ \texttt{\localing}
2671 \DeclareTextSymbol{\textethiopicfullstop}{Let}{98}
2673 \DeclareTextSymbol{\textethiopiccomma}{Let}{99}
2675 \DeclareTextSymbol{\textethiopicsemicolon}{Let}{100}
2676 \DeclareTextCommand{\textethiopicsemicolon}{LET}{\fontencoding{Let}\selectfont\textethiopicsemi
```

- 2677 \DeclareTextSymbol{\textethiopiccolon}{Let}{101}
- 2679 \DeclareTextSymbol{\textethiopicprefacecolon}{Let}{102}
- 2680 \DeclareTextCommand{\textethiopicprefacecolon}{LET}{\fontencoding{Let}\selectfont\textethiopicprefacecolon}
- 2681 \DeclareTextSymbol{\textethiopicquestionmark}{Let}{103}
- 2682 \DeclareTextCommand{\textethiopicquestionmark}{LET}{\fontencoding{Let}\selectfont\textethiopicq
- 2683 \DeclareTextSymbol{\textethiopicparagraph}{Let}{104}
- 2685 \DeclareTextSymbol{\textethiopicone}{Let}{105}

```
2686 \DeclareTextCommand{\textethiopicone}{LET}{\fontencoding{Let}\selectfont\textethiopicone}
 2687 \DeclareTextSymbol{\textethiopictwo}{Let}{106}
2688 \ \texttt{Let}\ \texttt{Let
2689 \DeclareTextSymbol{\textethiopicthree}{Let}{107}
2690 \ \texttt{Let}\ \texttt{Let
2691 \DeclareTextSymbol{\textethiopicfour}{Let}{108}
 2692 \DeclareTextCommand{\textethiopicfour}{LET}{\fontencoding{Let}\selectfont\textethiopicfour}
2693 \DeclareTextSymbol{\textethiopicfive}{Let}{109}
2694 \ \texttt{LET}{\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET}\}\{\texttt{LET
2695 \DeclareTextSymbol{\textethiopicsix}{Let}{110}
2696 \DeclareTextCommand{\textethiopicsix}{LET}{\fontencoding{Let}\selectfont\textethiopicsix}
 2697 \DeclareTextSymbol{\textethiopicseven}{Let}{111}
 2699 \DeclareTextSymbol{\textethiopiceight}{Let}{112}
 2700 \ \texttt{\localing{Let}} \ \texttt{\localing{Let}} \ \texttt{\localing{Let}} \ \texttt{\localing{Let}} \ \texttt{\localing{Let, new property}} \ \texttt{\localing{Let, ne
 2701 \DeclareTextSymbol{\textethiopicnine}{Let}{113}
2702 \DeclareTextCommand{\textethiopicnine}{LET}{\fontencoding{Let}\selectfont\textethiopicnine}
2703 \DeclareTextSymbol{\textethiopicten}{Let}{114}
2704 \end{\text{\command}{\textethiopicten}} \end{\text{\command}{\textethiopicten}} \end{\command} \e
 2705 \DeclareTextSymbol{\textethiopictwenty}{Let}{115}
2706 \DeclareTextCommand{\textethiopictwenty}{LET}{\fontencoding{Let}\selectfont\textethiopictwenty}
2707 \verb|\DeclareTextSymbol{\textethiopicthirty}{Let}{116}|
2709 \DeclareTextSymbol{\textethiopicforty}{Let}{117}
2710 \DeclareTextCommand{\textethiopicforty}{\LET}{\fontencoding{Let}\selectfont\textethiopicforty}
2711 \DeclareTextSymbol{\textethiopicfifty}{Let}{118}
 2712 \DeclareTextCommand{\textethiopicfifty}{\fontencoding{Let}\selectfont\textethiopicfifty}
2713 \DeclareTextSymbol{\textethiopicsixty}{Let}{119}
2714 \ensuremath{\textethiopicsixty} {LET} {fontencoding {Let} select font \textethiopicsixty} {textethiopicsixty} {textethi
2715 \DeclareTextSymbol{\textethiopicseventy}{Let}{120}
2716 \DeclareTextCommand{\textethiopicseventy}{LET}{\fontencoding{Let}\selectfont\textethiopicsevent
2717 \DeclareTextSymbol{\textethiopiceighty}{Let}{121}
 2718 \DeclareTextCommand{\textethiopiceighty}{LET}{\fontencoding{Let}\selectfont\textethiopiceighty}
2719 \DeclareTextSymbol{\textethiopicninety}{Let}{122}
2721 \DeclareTextSymbol{\textethiopichundred}{Let}{123}
2722 \ \ \ LET{\fontencoding{Let}} select font \ \ text ethiopic hundred of the least of the large of the l
2723 \DeclareTextSymbol{\textethiopictenthousand}{Let}{124}
2724 \ \texttt{\localing{Let}\selectfont\textethiopictenthousand} \{ \texttt{\LET} \} \\ \text{\localing{Let}\selectfont\textethiopictenthousand} \} \\ \text{\localing{Let}\selectfont\text
2726 (/letenc.def)
```

4.14 File letgfzem.fd

```
2727 (*letgfzem.fd)
2728 \ProvidesFile{letgfzem.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family gfz
2729 \DeclareFontFamily{LET}{gfzem}{}
2730 \DeclareFontFamily{Let}{gfzem}{}
2731 \DeclareFontShape{LET}{gfzem}{m}{n}{<-> * gfzemen12}{}
2732 \DeclareFontShape{Let}{gfzem}{m}{n}{<-> * gfzemen13}{}
```

```
2733 %
2734 (/letgfzem.fd)
         File letjiret.fd
 4.15
2735 (*letjiret.fd)
2736 \ProvidesFile{letjiret.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family jir
2737 \DeclareFontFamily{LET}{jiret}{}
2738 \DeclareFontFamily{Let}{jiret}{}
2739 \DeclareFontShape{LET}{jiret}{m}{n}{<-> * jiret12}{}
2740 \DeclareFontShape{Let}{jiret}{m}{n}{<-> * jiret13}{}
2741 %
2742 (/letjiret.fd)
 4.16 File letc2000.fd
2743 (*letc2000.fd)
2744 \ProvidesFile{letc2000.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family c20
2745 \DeclareFontFamily{LET}{c2000}{}
2746 \DeclareFontFamily{Let}{c2000}{}
2747 \DeclareFontShape\{LET\}\{c2000\}\{m\}\{n\}\{<-> * code2k12\}\{\}
2748 \DeclareFontShape{Let}\{c2000\}\{m\}\{n\}\{<-> * code2k13\}\{\}
2750 (/letc2000.fd)
 4.17
          File ltaenc.def
2751 (*ltaenc.def)
2752 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2753 \ProvidesFile{ltaenc.def}[2004/10/17 Autogenerated encoding LTA]
2754 \DeclareFontEncoding{LTA}{}{}
2755 \DeclareFontSubstitution{LTA}{arial}{m}{n}
2756 \ensuremath{\lower.pmbol{\guillemotleft}{LTA}{19}}
2757 \verb|\DeclareTextSymbol{\guillemotright}{LTA}{20}|
2758 \DeclareTextSymbol{\guilsinglleft}{LTA}{14}
2759 \DeclareTextSymbol{\guilsinglright}{LTA}{15}
2760 \DeclareTextSymbol{\i}{LTA}{25}
2761 \end{\mathbf{LTA}} \{18\}
2762 \label{localized} $$2762 \localized ExtSymbol{\quotesinglesse}{LTA}{13}$
2763 \DeclareTextSymbol{\textasciicircum}{LTA}{'\^}
2764 \ensuremath{\mbol{\textasciitilde}{LTA}{(```}}
2765 \DeclareTextSymbol{\textbackslash}{LTA}{'\\}
2766 \DeclareTextSymbol{\textbar}{LTA}{'\|}
2767 \DeclareTextSymbol{\textbraceleft}{LTA}{'\{}
2768 \DeclareTextSymbol{\textbraceright}{LTA}{'\}}
2769 \DeclareTextSymbol{\textdollar}{LTA}{'\$}
```

2770 \DeclareTextSymbol{\textendash}{LTA}{22}
2771 \DeclareTextSymbol{\textendash}{LTA}{21}
2772 \DeclareTextSymbol{\textgreater}{LTA}{'\>}
2773 \DeclareTextSymbol{\textless}{LTA}{'\<}

```
2774 \DeclareTextSymbol{\textquotedblleft}{LTA}{16}
2775 \DeclareTextSymbol{\textquotedblright}{LTA}{17}
2777 \DeclareTextSymbol{\textquoteleft}{LTA}{'\'}
2778 \DeclareTextSymbol{\textquoteright}{LTA}{'\'}
2779 \DeclareTextSymbol{\textunderscore}{LTA}{95}
2780 \DeclareTextSymbol{\thaiKoKai}{LTA}{129}
2781 \DeclareTextSymbol{\thaiKhoKhai}{LTA}{130}
2782 \DeclareTextSymbol{\thaiKhoKhuat}{LTA}{131}
2783 \verb|\DeclareTextSymbol{\thaiKhoKhwai}{LTA}{132}|
2784 \DeclareTextSymbol{\thaiKhoKhon}{LTA}{133}
2785 \DeclareTextSymbol{\thaiKhoRakhang}{LTA}{134}
2786 \DeclareTextSymbol{\thaiNgoNgu}{LTA}{135}
2787 \DeclareTextSymbol{\thaiChoChan}{LTA}{136}
2788 \DeclareTextSymbol{\thaiChoChing}{LTA}{137}
2789 \DeclareTextSymbol{\thaiChoChang}{LTA}{138}
2790 \DeclareTextSymbol{\thaiSoSo}{LTA}{139}
2791 \DeclareTextSymbol{\thaiChoChoe}{LTA}{140}
2792 \DeclareTextSymbol{\thaiYoYing}{LTA}{141}
2793 \DeclareTextSymbol{\thaiDoChada}{LTA}{142}
2794 \DeclareTextSymbol{\thaiToPatak}{LTA}{143}
2795 \DeclareTextSymbol{\thaiThoThan}{LTA}{144}
2796 \label{thaiThoNangmontho} {\tt LTA} {\tt 145} \\
2797 \DeclareTextSymbol{\thaiThoPhuthao}{LTA}{146}
2798 \DeclareTextSymbol{\thaiNoNen}{LTA}{147}
2799 \DeclareTextSymbol{\thaiDoDek}{LTA}{148}
2800 \DeclareTextSymbol{\thaiToTao}{LTA}{149}
2801 \DeclareTextSymbol{\thaiThoThung}{LTA}{150}
2802 \DeclareTextSymbol{\thaiThoThahan}{LTA}{151}
2803 \DeclareTextSymbol{\thaiThoThong}{LTA}{152}
2804 \DeclareTextSymbol{\thaiNoNu}{LTA}{153}
2805 \DeclareTextSymbol{\thaiBoBaimai}{LTA}{154}
2806 \DeclareTextSymbol{\thaiPoPla}{LTA}{155}
2807 \DeclareTextSymbol{\thaiPhoPhung}{LTA}{156}
2808 \DeclareTextSymbol{\thaiFoFa}{LTA}{157}
2809 \DeclareTextSymbol{\thaiPhoPhan}{LTA}{158}
2810 \DeclareTextSymbol{\thaiFoFan}{LTA}{159}
2811 \DeclareTextSymbol{\thaiPhoSamphao}{LTA}{160}
2812 \DeclareTextSymbol{\thaiMoMa}{LTA}{161}
2813 \DeclareTextSymbol{\thaiYoYak}{LTA}{162}
2814 \DeclareTextSymbol{\thaiRoRua}{LTA}{163}
2815 \verb|\DeclareTextSymbol{\thaiRu}{LTA}{164}
2816 \DeclareTextSymbol{\thaiLoLing}{LTA}{165}
2817 \DeclareTextSymbol{\thaiLu}{LTA}{166}
2818 \DeclareTextSymbol{\thaiWoWaen}{LTA}{167}
2819 \DeclareTextSymbol{\thaiSoSala}{LTA}{168}
2820 \DeclareTextSymbol{\thaiSoRusi}{LTA}{169}
2821 \DeclareTextSymbol{\thaiSoSua}{LTA}{170}
2822 \DeclareTextSymbol{\thaiHoHip}{LTA}{171}
2823 \DeclareTextSymbol{\thaiLoChula}{LTA}{172}
```

```
2824 \DeclareTextSymbol{\thaiOAng}{LTA}{173}
2825 \verb|\DeclareTextSymbol{\thaiHoNokhuk}{LTA}{174}|
2827 \DeclareTextSymbol{\thaiSaraA}{LTA}{176}
2828 \DeclareTextSymbol{\thaiMaiHanakat}{LTA}{177}
2829 \DeclareTextSymbol{\thaiSaraAa}{LTA}{178}
2830 \DeclareTextSymbol{\thaiSaraAm}{LTA}{179}
2831 \DeclareTextSymbol{\thaiSaraI}{LTA}{180}
2832 \DeclareTextSymbol{\thaiSaraIi}{LTA}{181}
2833 \verb|\DeclareTextSymbol{\thaiSaraUe}{LTA}{182}
2834 \DeclareTextSymbol{\thaiSaraUee}{LTA}{183}
2835 \DeclareTextSymbol{\thaiSaraU}{LTA}{184}
2836 \DeclareTextSymbol{\thaiSaraUu}{LTA}{185}
2837 \DeclareTextSymbol{\thaiPhinthu}{LTA}{186}
2838 \DeclareTextSymbol{\textbaht}{LTA}{191}
2839 \DeclareTextSymbol{\thaiSaraE}{LTA}{192}
2840 \DeclareTextSymbol{\thaiSaraAe}{LTA}{193}
2841 \DeclareTextSymbol{\thaiSaraO}{LTA}{194}
2842 \DeclareTextSymbol{\thaiSaraAiMaimuan}{LTA}{195}
2843 \DeclareTextSymbol{\thaiSaraAiMaimalai}{LTA}{196}
2844 \DeclareTextSymbol{\thaiLakkhangyao}{LTA}{197}
2846 \verb|\DeclareTextSymbol{\thaiMaitaikhu}{LTA}{199}
2847 \DeclareTextSymbol{\thaiMaiEk}{LTA}{200}
2848 \DeclareTextSymbol{\thaiMaiTho}{LTA}{201}
2849 \DeclareTextSymbol{\thaiMaiTri}{LTA}{202}
2850 \DeclareTextSymbol{\thaiMaiChattawa}{LTA}{203}
2851 \DeclareTextSymbol{\thaiThanthakhat}{LTA}{204}
2852 \DeclareTextSymbol{\thaiNikhahit}{LTA}{205}
2853 \DeclareTextSymbol{\thaiYamakkan}{LTA}{206}
2854 \DeclareTextSymbol{\thaiFongman}{LTA}{207}
2855 \DeclareTextSymbol{\thaizero}{LTA}{208}
2856 \DeclareTextSymbol{\thaione}{LTA}{209}
2857 \DeclareTextSymbol{\thaitwo}{LTA}{210}
2858 \DeclareTextSymbol{\thaithree}{LTA}{211}
2859 \DeclareTextSymbol{\thaifour}{LTA}{212}
2860 \DeclareTextSymbol{\thaifive}{LTA}{213}
2861 \DeclareTextSymbol{\thaisix}{LTA}{214}
2862 \DeclareTextSymbol{\thaiseven}{LTA}{215}
2863 \DeclareTextSymbol{\thaieight}{LTA}{216}
2864 \DeclareTextSymbol{\thainine}{LTA}{217}
2865 \DeclareTextSymbol{\thaiAngkhankhu}{LTA}{218}
2866 \verb|\DeclareTextSymbol{\thaiKhomut}{LTA}{219}
2867 %
2868 (/ltaenc.def)
```

4.18 File ltaarial.fd

```
2869 (*|taarial.fd) 2870 \ProvidesFile{ltaarial.fd}[2004/10/17 Autogenerated .fd file for encoding LTA, family arial]
```

```
2871 \DeclareFontFamily{LTA}{arial}{}
2872 \DeclareFontShape{LTA}{arial}{m}{n}{<-> * arialuni0e0t}{}
2873 %
2874 (/Itaarial.fd)
 4.19
        File ltac2000.fd
2875 (*ltac2000.fd)
2876 \ProvidesFile{ltac2000.fd}[2004/10/17 Autogenerated .fd file for encoding LTA, family c2000]
2877 \DeclareFontFamily{LTA}{c2000}{}
2878 \DeclareFontShape{LTA}c2000{m}n{<-> * code2k0e0t}{}
2879 %
2880 (/ltac2000.fd)
 4.20
        File ltgenc.def
2881 (*ltgenc.def)
2882 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2883 \ProvidesFile{ltgenc.def}[2004/10/17 Autogenerated encoding LTG]
2884 \DeclareFontEncoding{LTG}{}{}
2885 \DeclareFontSubstitution{LTG}{c2000}{m}{n}
2886 \DeclareTextCommand{\texttelugustart}{LTG}{}
2887 \DeclareTextCommand{\texttelugustop}{LTG}{}
2888 \DeclareTextSymbol{\guillemotleft}{LTG}{19}
2889 \DeclareTextSymbol{\guillemotright}{LTG}{20}
2890 \DeclareTextSymbol{\guilsinglleft}{LTG}{14}
2891 \DeclareTextSymbol{\guilsinglright}{LTG}{15}
2892 \DeclareTextSymbol{\i}{LTG}{25}
2893 \DeclareTextSymbol{\quotedblbase}{LTG}{18}
2895 \DeclareTextSymbol{\textasciicircum}{LTG}{'\^}
2896 \DeclareTextSymbol{\textasciitilde}{LTG}{'\~}
2897 \DeclareTextSymbol{\textbackslash}{LTG}{'\\}
2898 \DeclareTextSymbol{\textbar}{LTG}{'\|}
2899 \DeclareTextSymbol{\textbraceleft}{LTG}{'\{}
2900 \DeclareTextSymbol{\textbraceright}{LTG}{'\}}
2901 \DeclareTextSymbol{\textdollar}{LTG}{'\$}
2902 \DeclareTextSymbol{\textemdash}{LTG}{22}
2903 \DeclareTextSymbol{\textendash}{LTG}{21}
2904 \DeclareTextSymbol{\textgreater}{LTG}{'\>}
2905 \DeclareTextSymbol{\textless}{LTG}{'\<}
2906 \DeclareTextSymbol{\textquotedblleft}{LTG}{16}
2907 \DeclareTextSymbol{\textquotedblright}{LTG}{17}
2908 \DeclareTextSymbol{\textquotedbl}{LTG}{'\"}
2909 \DeclareTextSymbol{\textquoteleft}{LTG}{'\'}
2910 \DeclareTextSymbol{\textquoteright}{LTG}{'\'}
2911 \DeclareTextSymbol{\textunderscore}{LTG}{95}
2912 \DeclareTextCommand{\texttelugucandrabindu}{LTG}[1]{#1\char129}
2913 \DeclareTextCommand{\textteluguanusvara}{LTG}[1]{#1\char130 }
```

2914 \DeclareTextCommand{\textteluguvisarga}{LTG}[1]{#1\char131 }

```
2915 \DeclareTextSymbol{\texttelugua}{LTG}{133}
2916 \DeclareTextSymbol{\textteluguaa}{LTG}{134}
2917 \DeclareTextSymbol{\texttelugui}{LTG}{135}
2918 \DeclareTextSymbol{\textteluguii}{LTG}{136}
2919 \DeclareTextSymbol{\textteluguu}{LTG}{137}
2920 \DeclareTextSymbol{\textteluguuu}{LTG}{138}
2921 \DeclareTextSymbol{\textteluguvocalicr}{LTG}{139}
2922 \DeclareTextSymbol{\textteluguvocalicl}{LTG}{140}
2923 \DeclareTextSymbol{\texttelugue}{LTG}{142}
2924 \DeclareTextSymbol{\textteluguee}{LTG}{143}
2925 \DeclareTextSymbol{\textteluguai}{LTG}{144}
2926 \DeclareTextSymbol{\textteluguo}{LTG}{146}
2927 \DeclareTextSymbol{\textteluguoo}{LTG}{147}
2928 \DeclareTextSymbol{\textteluguau}{LTG}{148}
2929 \DeclareTextSymbol{\textteluguka}{LTG}{149}
2930 \DeclareTextSymbol{\texttelugukha}{LTG}{150}
2931 \DeclareTextSymbol{\textteluguga}{LTG}{151}
2932 \DeclareTextSymbol{\texttelugugha}{LTG}{152}
2933 \DeclareTextSymbol{\texttelugunga}{LTG}{153}
2934 \DeclareTextSymbol{\textteluguca}{LTG}{154}
2935 \DeclareTextSymbol{\texttelugucha}{LTG}{155}
2936 \DeclareTextSymbol{\textteluguja}{LTG}{156}
2937 \DeclareTextSymbol{\texttelugujha}{LTG}{157}
2938 \DeclareTextSymbol{\texttelugunya}{LTG}{158}
2939 \DeclareTextSymbol{\texttelugutta}{LTG}{159}
2940 \DeclareTextSymbol{\textteluguttha}{LTG}{160}
2941 \DeclareTextSymbol{\texttelugudda}{LTG}{161}
2942 \DeclareTextSymbol{\textteluguddha}{LTG}{162}
2943 \DeclareTextSymbol{\texttelugunna}{LTG}{163}
2944 \DeclareTextSymbol{\textteluguta}{LTG}{164}
2945 \DeclareTextSymbol{\texttelugutha}{LTG}{165}
2946 \DeclareTextSymbol{\textteluguda}{LTG}{166}
2947 \DeclareTextSymbol{\texttelugudha}{LTG}{167}
2948 \DeclareTextSymbol{\textteluguna}{LTG}{168}
2949 \DeclareTextSymbol{\texttelugupa}{LTG}{170}
2950 \DeclareTextSymbol{\texttelugupha}{LTG}{171}
2951 \DeclareTextSymbol{\textteluguba}{LTG}{172}
2952 \DeclareTextSymbol{\texttelugubha}{LTG}{173}
2953 \DeclareTextSymbol{\textteluguma}{LTG}{174}
2954 \DeclareTextSymbol{\textteluguya}{LTG}{175}
2955 \DeclareTextSymbol{\texttelugura}{LTG}{176}
2956 \DeclareTextSymbol{\texttelugurra}{LTG}{177}
2957 \verb|\DeclareTextSymbol{\texttelugula}{LTG}{178}|
2958 \DeclareTextSymbol{\texttelugulla}{LTG}{179}
2959 \DeclareTextSymbol{\textteluguva}{LTG}{181}
2960 \DeclareTextSymbol{\texttelugusha}{LTG}{182}
2961 \DeclareTextSymbol{\texttelugussa}{LTG}{183}
2962 \DeclareTextSymbol{\texttelugusa}{LTG}{184}
2963 \DeclareTextSymbol{\textteluguha}{LTG}{185}
2964 \DeclareTextCommand{\textteluguvowelaa}{LTG}[1]{#1\char190}
```

```
2966 \DeclareTextCommand{\textteluguvowelii}{LTG}[1]{#1\char192}
2967 \DeclareTextCommand{\textteluguvowelu}{LTG}[1]{#1\char193}
2968 \DeclareTextCommand{\textteluguvoweluu}{LTG}[1]{#1\char194}
2969 \DeclareTextCommand{\textteluguvowelvocalicr}{LTG}[1]{#1\char195}
2970 \DeclareTextCommand{\textteluguvowelvocalicrr}{LTG}[1]{#1\char196}
2971 \DeclareTextCommand{\textteluguvowele}{LTG}[1]{#1\char198 }
2972 \DeclareTextCommand{\textteluguvowelee}{LTG}[1]{#1\char199}
2973 \DeclareTextCommand{\textteluguvowelai}{LTG}[1]{#1\char200 }
2974 \DeclareTextCommand{\textteluguvowelo}{LTG}[1]{#1\char202}
2975 \DeclareTextCommand{\textteluguvoweloo}{LTG}[1]{#1\char203 }
2976 \DeclareTextCommand{\textteluguvowelau}{LTG}[1]{#1\char204}
2977 \DeclareTextCommand{\textteluguvirama}{LTG}[1]{#1\char205}
2978 \DeclareTextCommand{\texttelugulengthmark}{LTG}[1]{#1\char213 }
2979 \DeclareTextCommand{\textteluguailengthmark}{LTG}[1]{#1\char214 }
2980 \DeclareTextSymbol{\textteluguvocalicrr}{LTG}{224}
2981 \verb|\DeclareTextSymbol{\textteluguvocalic11}{LTG}{225}|
2982 \DeclareTextSymbol{\textteluguzero}{LTG}{230}
2983 \DeclareTextSymbol{\textteluguone}{LTG}{231}
2984 \DeclareTextSymbol{\texttelugutwo}{LTG}{232}
2985 \DeclareTextSymbol{\textteluguthree}{LTG}{233}
2986 \DeclareTextSymbol{\texttelugufour}{LTG}{234}
2987 \DeclareTextSymbol{\texttelugufive}{LTG}{235}
2988 \DeclareTextSymbol{\texttelugusix}{LTG}{236}
2989 \DeclareTextSymbol{\textteluguseven}{LTG}{237}
2990 \DeclareTextSymbol{\texttelugueight}{LTG}{238}
2991 \DeclareTextSymbol{\texttelugunine}{LTG}{239}
2992 %
2993 (/ltgenc.def)
   4.21
                 File ltgc2000.fd
2994 (*ltgc2000.fd)
2995 \ProvidesFile{ltgc2000.fd}[2004/10/17 Autogenerated .fd file for encoding LTG, family c2000]
2996 \DeclareFontFamily{LTG}{c2000}{}
2997 \DeclareFontShape{LTG}{c2000}{m}{n}{<-> * code2k0c0t}{}
2998 \DeclareFontShape{LTG}{c2000}{m}{n}{<-> * arialuni0c0t}{}
2999 %
3000 (/ltgc2000.fd)
   4.22
                 File ltlenc.def
3001 (*Itlenc.def)
3002 \DeclareFontEncoding{LTL}{}{}
Load tlsyllable.tex, but disable loading of tlxlate.tex
3004 \let\uc@temp@a\@@input
3005 \end{20} input #1 $$ \end{20} \end{20} \end{20} \end{20} The limit $$ \end{20} \end{20
3006 \input tlsyllable
```

2965 \DeclareTextCommand{\textteluguvoweli}{LTG}[1]{#1\char191 }

```
3007 \let\@@input\uc@temp@a
3008 %
3009 \let\ltl@state0
3010 \let\ltl@tlvoa\tlvoa
3011 \DeclareTextCommand{\texttelugustart}{LTL}{\let\ltl@state1}
3012 \end{1} let ltl @ the let ltl when let ltl when lt
3014 \newcommand\ltl@ivowel[1]{\ifx\ltl@state2\let\ltl@state1\tlvoX\fi#1}
3015 \end{1} if $$110 \end{1} if $$110
3017 %
3018 % \newcommand\ltl@gencons[2] {%
3019 %
                                               \expandafter\ifx\csname tlcb#2\endcsname\relax
                                                          \PackageError{ltlenc.def}{\expandafter\string\csname tlcb#2\endcsname\space
3020 %
3021 %
                                                                      undefined}{}\fi
3022 %
                                              \edef\@tempa{%
                                                          \verb|\noexpand| DeclareTextCommand{\expandafter} \\ | noexpand\csname \\ | noexpand\csnam
3023 %
3024 %
                                                                      texttelugu#1\endcsname}{LTL}%
3025 %
                                                                       {\tt \{\noexpand\ltl@cons\{\expandafter\noexpand\csname\ tlcb\#2\endcsname\}\}\%}
3026 %
                                                          \noexpand\DeclareTextCompositeCommand{\noexpand\textteluguvirama}{LTL}%
3027 %
                                                                       {\expandafter\noexpand\csname texttelugu#1\endcsname}%
3028 %
                                                                       {\noexpand\ltl@dcons{\expandafter\noexpand\csname tlcb#2\endcsname}}}
3029 %
                                                     \toks255\expandafter{\dtempa}\typeout{\the\toks255}\%
                                                \@tempa}
3030 %
3031 % \newcommand\ltl@genvow[2]{%
3032 %
                                               \expandafter\ifx\csname tlvo#2\endcsname\relax
                                                          \PackageError{ltlenc.def}{\expandafter\string\csname tlvo#2\endcsname\space
3033 %
3034 %
                                                                       undefined}{}\fi
3035 %
                                               \edef\@tempa{%
                                                          \verb|\noexpand| DeclareTextCommand{\expandafter} \\ | noexpand\csname \\ | noexpand\csnam
3036 %
                                                                       textteluguvowel#1\endcsname}{LTL}[1]%
3037 %
3038 %
                                                                       {\noexpand\ltl@vowel{####1}{\expandafter\noexpand\csname tlvo#2\endcsname}}%
3039 %
                                                          \noexpand\DeclareTextCommand{\expandafter\noexpand\csname texttelugu#1\endcsname}{LTL}%
3040 %
                                                                       {\noexpand\ltl@ivowel{\expandafter\noexpand\csname tlvo#2\endcsname}}}
3041 %
                                                     \toks255\expandafter{\deempa}\typeout{\the\toks255}\%
3042 %
                                                \@tempa}
3043 % \newcommand\ltl@gensymb[2]{%
3044 %
                                               \edef\@tempa{%
3045 %
                                                          \noexpand\DeclareTextCommand{\expandafter\noexpand\csname texttelugu#1\endcsname}{LTL}%
3046 %
                                                                       {\noexpand\ltl@ivowel{#2}}}
3047 %
                                                \toks255\expandafter{\@tempa}\typeout{\the\toks255}%
3048 %
                                               \@tempa}
3049 %
3050 \DeclareTextCommand{\textascii}{LTL}[1]{\QtextasciiQswitch{#1}}
3052 \, \text{LTL} \, [1] \, \text{LTL} \, [1] \, \text{LTL} \, [2] \, \text{LTL} \, [3] \, \text{LTL} \, \text{LTL} \, [3] \, \text{LTL} \, 
3053 %\DeclareTextCommand{\textteluguanusvara}{LTL}[1]{\ltl@vowel{#1}{\tluasu}}
3054 %\DeclareTextCommand{\textteluguvisarga}{LTL}[1]{\ltl@vowel{#1}{\tluavi}}
3055 \end{TextCommand{\texttexttelugucandrabindu}} \end{LTL} \end{TextCommand{\texttelugucandrabindu}} \end{LTL} \end{TextCommand{\texttelugucandrabindu}} \end{TextCommand{\textUL}} \end{TextCommand{\textCommand{\textUL}}} \end{TextCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\textCommand{\text
```

```
3057 \DeclareTextCommand{\textteluguvisarga}{LTL}[1]{#1\ltl@ivowel{\tluavi}}
3058 %
3059 \DeclareTextCommand{\texttelugudda}{LTL}{\ltl@cons{\tlcbD}}}
3061 \DeclareTextCommand{\texttelugubha}{LTL}{\ltl@cons{\tlcbbh}}
3063 \DeclareTextCommand{\texttelugunga}{LTL}{\ltl@cons{\tlcbNG}}
3064 \enskip \enskip
3065 \verb|\DeclareTextCommand{\texttelugudha}{LTL}{\ltl@cons{\tlcbdh}}}
3066 \ \texttt{\LTL}{\text{\tt LTL}}{\text{\tt LTL}}
3067 \DeclareTextCommand{\textteluguka}{LTL}{\ltl@cons{\tlcbk}}
 3068 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguka}{\ltl@dcons{\tlcbk}}
 3069 \DeclareTextCommand{\texttelugussa}{LTL}{\ltl@cons{\tlcbSh}}
 3070 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugussa}{\ltl@dcons{\tlcbSh}}
3071 \end{\text{\textteluguma}} \{LTL\} \{\tl0cons\{\tlcbm\}\} 
3072 \end{\textsc}\{LTL\}{\textsc}\{\end{\textsc}\} \end{\textsc} \label{local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local
3073 \DeclareTextCommand{\texttelugutta}{LTL}{\ltl@cons{\tlcbT}}
3074 \end{text} Althors {\cluster} TextCompositeCommand {\cluster} {\cluster} TextCompositeCommand {\cluster} TextCompositeC
3075 \DeclareTextCommand{\texttelugusha}{LTL}{\ltl@cons{\tlcbS}}
3077 \DeclareTextCommand{\textteluguba}{LTL}{\ltl@cons{\tlcbb}}
3078 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguba}{\ltl@dcons{\tlcbb}}
3079 \label{locality} $$3079 \end{\text{\texttelugusa}_{LTL}_{\textbe}}$
3080 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugusa}{\ltl@dcons{\tlcbs}}
3081 \DeclareTextCommand{\textteluguda}{LTL}{\ltl@cons{\tlcbd}}
3082 \end{The properties of the properties of 
 3083 \DeclareTextCommand{\texttelugujha}{LTL}{\ltl@cons{\tlcbjh}}
3084 \ensuremath{\label{ltl}{\text{compositeCommand}{\text{textteluguvirama}}{\text{ltL}}{\text{compositeCommand}{\text{textteluguvirama}}{\text{ltL}}{\text{compositeCommand}{\text{textteluguvirama}}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeCommand}{\text{compositeComma
3085 \DeclareTextCommand{\textteluguha}{LTL}{\ltl@cons{\tlcbH}}
3086 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguha}{\ltl@dcons{\tlcbH}}
3087 \DeclareTextCommand{\textteluguttha}{LTL}{\ltl@cons{\tlcbTh}}
3088 \ \texttt{LTL}{\text{textteluguttha}}{\text{ltl}}{\text{command}}\ \texttt{LTL}{\text{textteluguttha}}{\text{cons}}\ \texttt{LTL}{\text{toxTh}}{\text{cons}}\ \texttt{LTL}{\text{toxTh}}{\text{cons}}\ \texttt{LTL}{\text{cons}}\ \texttt{LTL}\ \texttt{LTL}{\text{cons}}\ \texttt{LTL} \ \texttt{LTL}{\text{cons}}\ \texttt{LTL}{\text{cons
 3089 \DeclareTextCommand{\textteluguya}{LTL}{\ltl@cons{\tlcbY}}
3090 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguya}{\ltl@dcons{\tlcbY}}}
3091 \end{\text{\cons{\tlcbch}}} \label{ltl}{\cons{\tlcbch}}
3093 \DeclareTextCommand{\textteluguja}{LTL}{\ltl@cons{\tlcbj}}
3094 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguja}{\ltl@dcons{\tlcbj}}
 3095 \DeclareTextCommand{\texttelugunya}{LTL}{\ltl@cons{\tlcbnx}}
 3096 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugunya}{\ltl@dcons{\tlcbnx}}
 3097 \DeclareTextCommand{\texttelugulla}{LTL}{\ltl@cons{\tlcbL}}
3098 \ \texttt{\LTL}{\text{\tt LTL}}{\text{\tt LTL}}
3099 \DeclareTextCommand{\texttelugupha}{LTL}{\ltl@cons{\tlcbph}}
3100 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugupha}{\ltlQdcons{\tlcbph}}
3101 \DeclareTextCommand{\textteluguna}{LTL}{\ltl@cons{\tlcbn}}
3102 \DeclareTextCompositeCommand{\textteluguvirama}{\LTL}{\textteluguna}{\ltl@dcons{\tlcbn}}
3103 \DeclareTextCommand{\texttelugugha}{LTL}{\ltl@cons{\tlcbgh}}
3104 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugugha}{\ltl@dcons{\tlcbgh}}
3105 \end{\text{\cons{\chickph}}} \label{ltl}{\chickph} \\
3106 \end{text} $$106 \end{text} {\command{\texttext} LTL}{\texttext} {\command{\texttext} LTL}{\command{\texttext} LTL}{\comman
```

```
3107 \end{\text{\cons{\tlcbN}}}
3108 \end{text} $$108 \end{text} {\constraints} {\constraints} {\constraints} $$108 \end{text} $$108 \end{
3110 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugupa}{\ltl@dcons{\tlcbp}}}
3111 \DeclareTextCommand{\texttelugura}{LTL}{\ltl@cons{\tlcbr}}
3112 \DeclareTextCompositeCommand{\textteluguvirama}{\LTL}{\texttelugura}{\ltl@dcons{\tlcbr}}
3113 \DeclareTextCommand{\textteluguca}{LTL}{\ltl@cons{\tlcbc}}
3114 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguca}{\ltl@dcons{\tlcbc}}
3115 \ensuremath{\label{ltl}{\ltl@cons{\ltlcbth}}}
{\tt 3116 \ DeclareTextCompositeCommand \{ textfeluguvirama \} \{ LTL \} \{ textfelugutha \} \{ \{ tl0 \} \} \} }
3117 \DeclareTextCommand{\texttelugukha}{LTL}{\ltl@cons{\tlcbkh}}
3118 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugukha}{\ltl@dcons{\tlcbkh}}
3119 \DeclareTextCommand{\textteluguga}{LTL}{\ltl@cons{\tlcbg}}
3120 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguga}{\ltl@dcons{\tlcbg}}
3121 \DeclareTextCommand{\texttelugurra}{LTL}{\ltl@cons{\tlcbR}}
3123 \DeclareTextCommand{\texttelugula}{LTL}{\ltl@cons{\tlcbl}}
3124 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugula}{\ltl@dcons{\tlcbl}}
3125 \DeclareTextCommand{\textteluguta}{LTL}{\ltl@cons{\tlcbt}}
3126 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguta}{\ltl@dcons{\tlcbt}}
3127 \DeclareTextCommand{\textteluguva}{LTL}{\ltl@cons{\tlcbv}}
3128 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguva}{\ltl@dcons{\tlcbv}}
3129 \DeclareTextCommand{\texttelugublackbox}{LTL}{\ltl@cons{\tlcbbb}}
3130 \end{text} $$130 \end{text} {\compositeCommand{\text} } {\compositeCommand{\text} } $$
3131 \DeclareTextCommand{\textteluguemptybox}{LTL}{\ltl@cons{\tlcbeb}}
3132 \end{The third constant of the property of the property
3133 \DeclareTextCommand{\textteluguoutlinebox}{LTL}{\ltl@cons{\tlcbob}}
3134 \ensurematkleft \ensure
3135 % \ltl@gencons{dda}{D}
3136 % \ltl@gencons{bha}{bh}
3137 % \ltl@gencons{nga}{NG}
3138 % \ltl@gencons{dha}{dh}
3139 % \ltl@gencons{ka}{k}
3140 % \ltl@gencons{ssa}{Sh}
3141 % \ltl@gencons{ma}{m}
3142 % \ltl@gencons{tta}{T}
3143 \% \t10gencons{sha}{S}
3144 % \ltl@gencons{ba}{b}
3145 % \ltl@gencons{sa}{s}
3146 % \ltl@gencons{da}{d}
3147 % \ltl@gencons{jha}{jh}
3148 % \ltl@gencons{ha}{H}
3149 % \ltl@gencons{ttha}{Th}
3150 % \ltl@gencons{ya}{Y}
3151 % \ltl@gencons{cha}{ch}
3152 % \ltl@gencons{ja}{j}
3153 % \ltl@gencons{nya}{nx}
3154 % \ltl@gencons{lla}{L}
3155 % \ltl@gencons{pha}{ph}
```

```
3157 % \ltl@gencons{gha}{gh}
3158 % \ltl@gencons{ddha}{Dh}
3159 % \ltl@gencons{nna}{N}
3160 % \ltl@gencons{pa}{p}
3161 % \ltl@gencons{ra}{r}
3162 % \ltl@gencons{ca}{c}
3163 % \ltl@gencons{tha}{th}
3164 % \ltl@gencons{kha}{kh}
3165 \% \t 0 gencons{ga}{g}
3166 % \ltl@gencons{rra}{R}
3167 % \ltl@gencons{la}{1}
3168 % \t \ \ltl@gencons{ta}{t}
3169 % \ltl@gencons{va}{v}
3170 % \ltl@gencons{blackbox}{bb}
3171 % \ltl@gencons{emptybox}{eb}
3172 % \ltl@gencons{outlinebox}{ob}
3173 %
3174 \ensuremath{\lower=1}{LTL}[1]{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}{\lower=1}
3175 \DeclareTextCommand{\texttelugua}{LTL}{\ltl@ivowel{\tlvoa}}
3176 \ensuremath{\mbox{TTL}[1]_{\mbox{tllowel}{#1}_{\mbox{tlvoA}}}
3177 \DeclareTextCommand{\textteluguaa}{LTL}{\ltl@ivowel{\tlvoA}}
3178 \DeclareTextCommand{\textteluguvoweli}{LTL}[1]{\ltl@vowel{#1}{\tlvoi}}
3179 \DeclareTextCommand{\texttelugui}{LTL}{\ltl@ivowel{\tlvoi}}
3180 \DeclareTextCommand{\textteluguvowelii}{LTL}[1]{\ltl@vowel{#1}{\tlvoI}}
3181 \DeclareTextCommand{\textteluguii}{LTL}{\ltl@ivowel{\tlvoI}}
 3182 \end{\text{\command{\textteluguvowelu}{LTL}[1]{\text{\command{\textteluguvowelu}}} } 
3183 \DeclareTextCommand{\textteluguu}{LTL}{\ltl@ivowel{\tlvou}}
3184 \end{\text{\command{\textteluguvoweluu}}} {ITL} [1] {\texture Level {\texture Lower}} 
3185 \DeclareTextCommand{\textteluguuu}{LTL}{\ltl@ivowel{\tlvoU}}
3186 \DeclareTextCommand{\textteluguvowelvocalicr}{LTL}[1]{\ltl@vowel{#1}{\tlvorx}}
3187 \DeclareTextCommand{\textteluguvocalicr}{LTL}{\ltl@ivowel{\tlvorx}}
 3188 \end{\text{\text}} [1] {\text} [1] {\text} [2] {\t
3189 \DeclareTextCommand{\textteluguvocalicl}{LTL}{\ltl@ivowel{\tlvolx}}
3190 \DeclareTextCommand{\textteluguvowelvocalicrr}{LTL}[1]{\ltl@vowel{#1}{\tlvoRx}}
3191 \DeclareTextCommand{\textteluguvocalicrr}{LTL}{\ltl@ivowel{\tlvoRx}}
3192 \end{\text{\constant} for the property of t
3193 \DeclareTextCommand{\textteluguvocalicll}{LTL}{\ltl@ivowel{\tlvoLx}}
3194 \DeclareTextCommand{\textteluguvowele}{LTL}[1] {\ltl@vowel{#1}{\tlvoe}}
3195 \DeclareTextCommand{\texttelugue}{LTL}{\ltl@ivowel{\tlvoe}}
3196 \DeclareTextCommand{\textteluguvowelee}{LTL}[1]{\ltl@vowel{#1}{\tlvoE}}
3197 \DeclareTextCommand{\textteluguee}{LTL}{\ltl@ivowel{\tlvoE}}
3198 \DeclareTextCommand{\textteluguvowelai}{LTL}[1]{\ltl@vowel{#1}{\tlvoy}}
3199 \DeclareTextCommand{\textteluguai}{LTL}{\ltl@ivowel{\tlvoy}}
3200 \end{\text{\command{\textteluguvowelo}{LTL}[1]{\text{\command{\textteluguvowelo}}}} \end{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\
3201 \DeclareTextCommand{\textteluguo}{LTL}{\ltl@ivowel{\tlvoo}}
3202 \end{\text{\command{\textteluguvoweloo}}} \end{\text{\command{\textteluguvoweloo}}}} \end{\text{\command{\textteluguvoweloo}}} \end{\text{\command{\texttel
3203 \DeclareTextCommand{\textteluguoo}{LTL}{\ltl@ivowel{\tlvoO}}
3204 \DeclareTextCommand{\textteluguvowelau}{LTL}[1]{\ltl@vowel{#1}{\tlvoow}}
3205 \DeclareTextCommand{\textteluguau}{LTL}{\ltl@ivowel{\tlvoow}}
3206 \% \t \end{a}{a}{a}
```

```
3207 % \ltl@genvow{aa}{A}
3208 % \ltl@genvow{i}{i}
3209 % \ltl@genvow{ii}{I}
3210 % \ltl@genvow{u}{u}
3211 % \ltl@genvow{uu}{U}
3212 % \ltl@genvow{vocalicr}{rx}
3213 % \ltl@genvow{vocalicl}{lx}
3214 % \ltl@genvow{vocalicrr}{Rx}
3215 % \ltl@genvow{vocalicll}{Lx}
3216 % \ltl@genvow{e}{e}
3217 % \ltl@genvow{ee}{E}
3219 % \ltl@genvow{o}{o}
3220 % \ltl@genvow{oo}{0}
3221 % \ltl@genvow{au}{ow}
3222 %
3223 \end{\text{\char\dtzeroCODE}} \\
3224 \DeclareTextCommand{\textteluguone}{LTL}{\ltl@ivowel{\char\dtoneCODE}}
3225 \DeclareTextCommand{\texttelugutwo}{LTL}{\ltl@ivowel{\char\dttwoCODE}}
3226 \DeclareTextCommand{\textteluguthree}{LTL}{\ltl@ivowel{\char\dtthreeCODE}}
3227 \verb|\DeclareTextCommand{\texttelugufour}{LTL}{\tl@ivowel{\char\dtfourCODE}}|
3228 \end{\text{\char\dtfiveCODE}} \label{local_control} \\
3229 \label{localized} $$3229 \end{\text{\char}} {LTL}_{\cluster} $$
3230 \DeclareTextCommand{\textteluguseven}{LTL}{\ltl@ivowel{\char\dtsevenCODE}}
3231 \DeclareTextCommand{\texttelugueight}{LTL}{\ltl@ivowel{\char\dteightCODE}}
3232 \DeclareTextCommand{\texttelugunine}{LTL}{\ltl@ivowel{\char\dtnineCODE}}
3233 % \ltl@gensymb{zero}{\char\dtzeroCODE}%
3234 % \ltl@gensymb{one}{\char\dtoneCODE}%
3235 % \ltl@gensymb{two}{\char\dttwoCODE}%
3236 % \ltl@gensymb{three}{\char\dtthreeCODE}%
3237 % \ltl@gensymb{four}{\char\dtfourCODE}%
3238 % \ltl@gensymb{five}{\char\dtfiveCODE}%
3239 % \ltl@gensymb{six}{\char\dtsixCODE}%
3240 % \ltl@gensymb{seven}{\char\dtsevenCODE}%
3241 % \ltl@gensymb{eight}{\char\dteightCODE}%
3242 % \ltl@gensymb{nine}{\char\dtnineCODE}%
3243 %%% Local Variables:
3244 %%% mode: latex
3245 %%% coding: utf-8
3246 %%% TeX-master: "../test.tex"
3247 % End:
3248 %%% Local IspellDict: british
3249 %
3250 (/ltlenc.def)
 4.23 File ltlcmr.fd
3251 (*ltlcmr.fd)
3252 \DeclareFontFamily{LTL}{cmr}{}%
```

3253 \DeclareFontShape{LTL} $\{cmr\}\{m\}\{n\}\{m\}\{n\}\{m\}\}$

```
3254
      <10> <11> <12> <15> <18> <20> <25> <30> <35> <40> <55> <72> <100> <172>
3255
      gen * tel
      }{}%
3256
3257 \DeclareFontShape{LTL}{cmr}{bx}{n}{%}
      <10> tel10b
3258
3259
      <11> tel11b
3260
      <12> tel12b
      <15> tel15b
3261
3262
      <18> tel18b
     <20> tel20b
3263
      <25> tel25b
3264
3265
      }{}%
3266 \ensuremath{\mbox{DeclareFontShape}\{LTL\}\{cmr\}\{b\}\{n\}\{\%\}\}
     <-> sub * cmr/m/bx }{}%
3267
3268 \label{localize} $$3268 \end{subseteq} LTL}{cmr}{m}{sl}{%}
     <10> tel10s
3269
3270
     <11> tel11s
3271 <12> tel12s
3272 <15> tel15s
3273
     <18> tel18s
     <20> tel20s
3274
      <25> tel25s
3275
      <30> tel30s
3276
      <35> tel35s
3277
      <40> tel40s
3278
3279
      <55> tel55s
3280
      }{}%
3281 \ensuremath{\mbox{DeclareFontShape}\{LTL\}\{cmr\}\{m\}\{it\}\{\%\}\}
3282 <-> sub * cmr/m/sl }{}%
3283 \DeclareFontShape{LTL}{cmr}{nx}{n}{%
3284 <10> tel10nx
3285 <11> tel11nx
3286 <12> tel12nx
    }{}%
3287
3288 \ensuremath{\mbox{DeclareFontShape}\{LTL\}\{cmr\}\{ny}\{n\}\{n\}\{n\}\}
3289
      <10> tel10ny
      <11> tel11ny
3290
      <12> tel12ny
3291
3292
      }{}%
3293 \ensuremath{\mbox{DeclareFontShape}\{LTL\}\{cmr\}\{nx\}\{sl\}\{\%\}\}
3294 <-> sub * cmr/m/sl }{}%
3295 \DeclareFontShape{LTL}{cmr}{ny}{s1}{{\%}}
3296 <-> sub * cmr/m/sl }{}%
3297 \DeclareFontShape{LTL}{cmr}{nx}{it}{%
3298 <-> sub * cmr/m/sl }{}%
3299 \DeclareFontShape{LTL}{cmr}{ny}{it}{%
3300
      <-> sub * cmr/m/sl }{}%
3301 %
3302 (/ltlcmr.fd)
```

4.24 File ltwenc.def

```
3303 (*Itwenc.def)
```

This encoding is for tengwar fonts ordered according to the Unicode page 0xE0xx as defined on http://www.evertype.com/standards/csur/tengwar.html.

U+E000..U+E07F is at positions 0x00..0x7F. The upper half is reserved for extensions.

3304 \ProvidesFile{ltwenc.def}[2001/10/17 Fontencoding LTW for Tengwar]

```
3305 \DeclareFontEncoding{LTW}{}{}
3306 \DeclareFontSubstitution{LTW}{dsque}{m}{n}
 Tengwar (normal letters)
3307 \DeclareTextSymbol{\tengwarTinco}{LTW}{"00}
3308 \DeclareTextSymbol{\tengwarParma}{LTW}{"01}
3309 \DeclareTextSymbol{\tengwarCalma}{LTW}{"02}
3310 \DeclareTextSymbol{\tengwarQuesse}{LTW}{"03}
3311 \DeclareTextSymbol{\tengwarAndo}{LTW}{"04}
3312 \DeclareTextSymbol{\tengwarUmbar}{LTW}{"05}
3313 \DeclareTextSymbol{\tengwarAnga}{LTW}{"06}
3314 \DeclareTextSymbol{\tengwarUngwe}{LTW}{"07}
3315 \DeclareTextSymbol{\tengwarThuule}{LTW}{"08}
3316 \DeclareTextSymbol{\tengwarFormen}{LTW}{"09}
3317 \DeclareTextSymbol{\tengwarHarma}{LTW}{"OA}
3318 \DeclareTextSymbol{\tengwarHwesta}{LTW}{"OB}
3319 \DeclareTextSymbol{\tengwarAnto}{LTW}{"OC}
3320 \DeclareTextSymbol{\tengwarAmpa}{LTW}{"OD}
3321 \DeclareTextSymbol{\tengwarAnca}{LTW}{"OE}
3322 \DeclareTextSymbol{\tengwarUnque}{LTW}{"OF}
3323 \DeclareTextSymbol{\tengwarNuumen}{LTW}{"10}
3324 \DeclareTextSymbol{\tengwarMalta}{LTW}{"11}
3325 \DeclareTextSymbol{\tengwarNoldo}{LTW}{"12}
3326 \DeclareTextSymbol{\tengwarNwalme}{LTW}{"13}
3327 \DeclareTextSymbol{\tengwarOore}{LTW}{"14}
3328 \DeclareTextSymbol{\tengwarVala}{LTW}{"15}
3329 \DeclareTextSymbol{\tengwarAnna}{LTW}{"16}
3330 \DeclareTextSymbol{\tengwarVilya}{LTW}{"17}
3331 \DeclareTextSymbol{\tengwarRoomen}{LTW}{"18}
3332 \DeclareTextSymbol{\tengwarArda}{LTW}{"19}
3333 \DeclareTextSymbol{\tengwarLambe}{LTW}{"1A}
3334 \DeclareTextSymbol{\tengwarAlda}{LTW}{"1B}
3335 \DeclareTextSymbol{\tengwarSilme}{LTW}{"1C}
3336 \DeclareTextSymbol{\tengwarSilmeNuquerna}{LTW}{"1D}
3337 \DeclareTextSymbol{\tengwarAare}{LTW}{"1E}
3338 \DeclareTextSymbol{\tengwarAareNuquerna}{LTW}{"1F}
3339 \DeclareTextSymbol{\tengwarHyarmen}{LTW}{"20}
3340 \DeclareTextSymbol{\tengwarHwestaSindarinwa}{LTW}{"21}
3341 \DeclareTextSymbol{\tengwarYanta}{LTW}{"22}
3342 \DeclareTextSymbol{\tengwarUure}{LTW}{"23}
```

```
3343 \DeclareTextSymbol{\tengwarHalla}{LTW}{"24}
3344 \DeclareTextSymbol{\tengwarShortCarrier}{LTW}{"25}
3345 \DeclareTextSymbol{\tengwarLongCarrier}{LTW}{"26}
3346 \DeclareTextSymbol{\tengwarAnnaSindarinwa}{LTW}{"27}
3347 \DeclareTextSymbol{\tengwarExtThuule}{LTW}{"28}
3348 \DeclareTextSymbol{\tengwarExtFormen}{LTW}{"29}
3349 \DeclareTextSymbol{\tengwarExtHarma}{LTW}{"2A}
3350 \DeclareTextSymbol{\tengwarExtHwesta}{LTW}{"2B}
3351 \DeclareTextSymbol{\tengwarExtAnto}{LTW}{"2C}
3352 \DeclareTextSymbol{\tengwarExtAmpa}{LTW}{"2D}
3353 \DeclareTextSymbol{\tengwarExtAnca}{LTW}{"2E}
3354 \DeclareTextSymbol{\tengwarExtUnque}{LTW}{"2F}
3355 \DeclareTextSymbol{\tengwarStemlessOore}{LTW}{"30}
3356 \DeclareTextSymbol{\tengwarStemlessVala}{LTW}{"31}
3357 \DeclareTextSymbol{\tengwarStemlessAnna}{LTW}{"32}
3358 \DeclareTextSymbol{\tengwarStemlessVilya}{LTW}{"33}
 Punctuation
3359 \DeclareTextSymbol{\tengwarPusta}{LTW}{"50}
3360 \DeclareTextSymbol{\tengwarDoublePusta}{LTW}{"51}
3361 \DeclareTextSymbol{\tengwarExclam}{LTW}{"52}
3362 \DeclareTextSymbol{\tengwarQuestion}{LTW}{"53}
3363 \DeclareTextSymbol{\tengwarSection}{LTW}{"54}
3364 \DeclareTextSymbol{\tengwarLongSection}{LTW}{"55}
 Digits
3365 \ProvideTextCommandDefault{\tengwarZero}{\tengwarStemlessOore}
3366 \ProvideTextCommandDefault{\tengwarOne}{\tengwarStemlessVilya}
3367 \DeclareTextSymbol{\tengwarTwo}{LTW}{"62}
3368 \DeclareTextSymbol{\tengwarThree}{LTW}{"63}
3369 \DeclareTextSymbol{\tengwarFour}{LTW}{"64}
3370 \DeclareTextSymbol{\tengwarFive}{LTW}{"65}
3371 \DeclareTextSymbol{\tengwarSix}{LTW}{"66}
3372 \DeclareTextSymbol{\tengwarSeven}{LTW}{"67}
3373 \DeclareTextSymbol{\tengwarEight}{LTW}{"68}
3374 \DeclareTextSymbol{\tengwarNine}{LTW}{"69}
3375 \DeclareTextSymbol{\tengwarTen}{LTW}{"6A}
3376 \DeclareTextSymbol{\tengwarEleven}{LTW}{"6B}
 Tehta (accents)
3377 \DeclareTextCommand{\tengwarThreeDotsAbove}{LTW}[1]{#1\char"40 }
3378 \DeclareTextCommand{\tengwarThreeDotsBelow}{LTW}[1]{#1\char"41 }
3379 \DeclareTextCommand{\tengwarTwoDotsAbove}{LTW}[1]{#1\char"42 }
3380 \DeclareTextCommand{\tengwarTwoDotsBelow}{LTW}[1]{#1\char"43 }
3381 \DeclareTextCommand{\tengwarAmaticse}{LTW}[1]{#1\char"44 }
3382 \DeclareTextCommand{\tengwarNunticse}{LTW}[1]{#1\char"45 }
3383 \DeclareTextCommand{\tengwarAcute}{LTW}[1]{#1\char"46 }
3384 \DeclareTextCommand{\tengwarDoubleAcute}{LTW}[1]{#1\char"47 }
3385 \DeclareTextCommand{\tengwarRightCurl}{LTW}[1]{#1\char"48 }
```

```
3386 \DeclareTextCommand{\tengwarDoubleRightCurl}{LTW}[1]{#1\char"49}
3387 \DeclareTextCommand{\tengwarLeftCurl}{LTW}[1]{#1\char"4A }
3389 \DeclareTextCommand{\tengwarNasalizer}{LTW}[1]{#1\char"4C }
3390 \DeclareTextCommand{\tengwarDoubler}{LTW}[1]{#1\char"4D }
3391 \DeclareTextCommand{\tengwarTilde}{LTW}[1]{#1\char"4E }
3392 \DeclareTextCommand{\tengwarBreve}{LTW}[1]{#1\char"4F }
3393 \DeclareTextCommand{\tengwarLongCarrierBelow}{LTW}[1]{#1\char"56 }
3394 \ensuremath{\lower.pmand{\tengwarDoubleAcuteBelow}{LTW}[1]{\#1\char"57}}
3395 \end{Temmand{\temgwarRightCurlBelow}{LTW}[1]{\#1\char"58}}
3396 \DeclareTextCommand{\tengwarLeftCurlBelow}{LTW}[1]{#1\char"59 }
3397
3398 %
3399 (/ltwenc.def)
   4.25
                     File ltwdsque.fd
3400 (*Itwdsque.fd)
   This fontfamily loads the Quenya fonts from Dan Smith.
3401\ \ensuremath{\mbox{ProvidesFile{ltwdsque.fd}}[2001/10/11\ Fontfamily\ dsque\ for\ Fontencoding\ LTW]\%}
3402 \DeclareFontFamily{LTW}{dsque}{}
3403 \DeclareFontShape{LTW}{dsque}{m}{n}{<-> tengdsq}{}
3404 %
3405 (/ltwdsque.fd)
   4.26
                 File ltwdsnol.fd
3406 (*Itwdsnol.fd)
   This fontfamily loads the Noldor fonts from Dan Smith.
3407 \ProvidesFile{ltwdsnol.fd}[2001/10/11 Fontfamily dsnol for Fontencoding LTW]%
3408 \DeclareFontFamily{LTW}{dsnol}{}
3409 \end{areFontShape} $$1409 \end{areFon
3410 %
3411 (/ltwdsnol.fd)
   4.27 File ltwdssin.fd
3412 (*Itwdssin.fd)
   This fontfamily loads the Sindarin fonts from Dan Smith.
3413 \ProvidesFile{ltwdssin.fd}[2001/10/11 Fontfamily dssin for Fontencoding LTW]%
3414 \DeclareFontFamily{LTW}{dssin}{}
3415 \DeclareFontShape\{LTW\}\{dssin\}\{m\}\{n\}\{<-> tengdss\}\{\}\}
3416 %
3417 (/ltwdssin.fd)
```

File lucenc.def

4.28

```
3418 (*lucenc.def)
3419 \% Stuff working with TeX:
3420 \catcode \@11
3421 \ifx\@tempcnta\undefined\csname newcount\endcsname\@tempcnta\fi
3422 \ifx\@tempcntb\undefined\csname newcount\endcsname\@tempcntb\fi
3423 \def\lucchar#1{%
3424
     \begingroup
       \@tempcnta=#1\divide\@tempcnta by"1000
3425
       \multiply\@tempcnta by-"1000\advance\@tempcnta by#1%
3426
       \divide\@tempcnta by"100%
3427
       \@tempcntb=#1\divide\@tempcntb by"10000
3428
       \multiply\@tempcntb by-"10000\advance\@tempcntb by#1%
3429
       \divide\@tempcntb by"1000%
3430
       \xdef\LUC@plane@LUC{%
3431
         3432
                         8\or9\or a\or b\or c\or d\or e\or f\fi
3433
         3434
                         8\or9\or a\or b\or c\or d\or e\or f\fi}%
3435
3436
       \ifnum#1>"FFFF
3437
         \@tempcnta=#1\divide\@tempcnta by"100000
         \multiply\@tempcnta by-"100000\advance\@tempcnta by#1%
3438
         \divide\@tempcnta by"10000%
3439
         \xdef\LUC@plane@LUC{%
3440
           3441
3442
                           8\or9\or a\or b\or c\or d\or e\or f\fi
3443
           \LUC@plane@LUC}%
         \ifnum#1>"FFFFF
3444
           \@tempcnta=#1\divide\@tempcnta by"1000000
3445
           \multiply\@tempcnta by-"1000000\advance\@tempcnta by#1%
3446
           \divide\@tempcnta by"100000%
3447
           \xdef\LUC@plane@LUC{%
3448
3449
             3450
                             8\or9\or a\or b\or c\or d\or e\or f\fi
3451
             \LUC@plane@LUC}%
         \fi
3452
       \fi
3453
       \@tempcnta=#1\divide\@tempcnta by"100
3454
3455
       \multiply\@tempcnta by-"100\advance\@tempcnta by#1%
       \relax
3456
       %\typeout{Plane: \LUC@plane@LUC, Char: \number\@tempcnta}%
3457
3458
     \expandafter\endgroup
     \expandafter\luc@char\expandafter{\number\@tempcnta}%
3459
3460 }
3461 \def\luc@loadfont{%
3462
     \expandafter\ifx\csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname\relax
3463
       \expandafter\font\csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname=%
3464
         \LUCfont\LUC@plane@LUC\fi
3465
     \csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname}
3466 \def\luc@char#1{%
     \ifx\LUC@plane@LUC\LUC@plane@old\else
3467
```

```
\ifx\LUCfont\undefined\selectfont
3468
        \else\luc@loadfont\fi
3469
     \fi
3470
     \char#1 }
3471
3472 \ifx\NeedsTeXFormat\undefined\endinput\fi
3474 % LaTeX-only stuff follows.
3475 \ProvidesFile{lucenc.def}[2002/02/20 Encoding for Unicode fonts]
3476 \DeclareFontEncoding{LUC}{}{}%
3478 %
3479 \providecommand\LUC@@empty[1] {%
      \edef\mandatory@arg{\mandatory@arg\csname LUC@plane@\f@encoding\endcsname}%
3481
      \empty@sfcnt#1%
      \edef\uc@temp@a{\csname LUC@plane@\f@encoding\endcsname}%
3482
     \xdef\font@name{\csname \curr@fontshape/\f@size/\uc@temp@a\endcsname}}
3483
3484 \providecommand\LUC@@sub[1]{%}
      \expandafter\ifx\csname LUC@\mandatory@arg/\f@size\endcsname\relax
3485
3486
     \expandafter\gdef\csname LUC@\mandatory@arg/\f@size\endcsname{}%
3487
     \sub@sfcnt#1%
3488
     \else
3489
     \sub@sfcnt\@gobble
     \fi}
3490
3491 \DeclareSizeFunction{LUC}{\LUC@@empty\@font@warning}
3492 \DeclareSizeFunction{LUCb}{\LUC@@empty\@font@warning}
3493 \DeclareSizeFunction{sLUC}{\LUC@@empty\@font@info}
3494 \DeclareSizeFunction{sLUCb}{\LUC@@empty\@font@info}
3495 \DeclareSizeFunction{LUCsub}{\LUC@@sub\@font@warning}
3496 \verb|\DeclareSizeFunction{LUCssub}{\LUC@@sub\\@font@info}|
3497 %
3498 \gdef\LUC@plane@LUC{00}%
3499 \DeclareTextCommand{\textascii}{\LastDeclaredEncoding}[1]{\textunicodechar{'#1}}
3500 \DeclareTextCommand{\textunicodechar}{\LastDeclaredEncoding}[1]{\lucchar{#1}}
3502 %%% Local Variables:
3503 %%% mode: latex
3504 %% coding: utf-8
3505 %%% TeX-master: "../test.tex"
3506 %%% End:
3507 %%% Local IspellDict: british
3508 %
3509 (/lucenc.def)
 4.29 File lucarial.fd
3510 (*lucarial.fd)
3511 \ProvidesFile{lucarial.fd}[2002/02/17 .fd file for encoding LUC, family arial]
3512 \DeclareFontFamily{LUC}{arial}{}
3513 \DeclareFontShape{LUC}{arial}{m}{n}{<-> LUC * arialuni}{}
3514 %
```

```
3515 (/lucarial.fd)
```

3557 } 3558 %

4.30 File lucc2000.fd

4.31 File mkrenc.def

```
3522 (*mkrenc.def)
3523 \ProvidesFile{mkrenc.def}[2003/11/29 Fontencoding MKR for use with package makor]
3524 \makeatletter
3525 %
3526 \AtBeginDocument{%
      \let\mkr@quote\"
3527
3528
      \RequirePackage{makor}%
      \let\"\mkr@quote
3529
3530
      \expandafter\ifx\csname !hdefaultfont\endcsname\relax
3531
        \expandafter\def\csname !hdefaultfont\endcsname{NFSS}\fi
3532
3533 \verb| expandafter g@addto@macro | csname selectfont endcsname{ | protect ghfont adapt|} \\
3534 %
3535 \begingroup
3536 \escapechar=-1
3537 \edef\temp@a{%
      \gdef\noexpand\@hfontadapt@
3538
      \expandafter\string\csname select font \endcsname##1 ##2%
3539
3540
      \noexpand\@nil{%
3541
        \edef\noexpand\temp@a{%
          \noexpand\noexpand\noexpand\hfontdef{\noexpand\mkr@font}{##1}{\noexpand\f@size pt}}\noexp
3543 \xdef\mkr@at{\expandafter\string\csname\space at \endcsname}%
3544 \endgroup
3545 %
3546 \def\@hfont@enc{MKR}
3547 \def\@hfontadapt{%
      \ifx\f@encoding\@hfont@enc%
        \edef\mkr@font{mkr@\f@family\f@series\f@shape-\f@size}%
3549
        %\typeout{HFONTADAPT: ID:\mkr@font, SIZE: \f@size}%
3550
        \@ifundefined{\mkr@font}{%
3551
          %\typeout{Needs adapting. (\expandafter\meaning\the\font)}%
3552
          \edef\temp@a{\noexpand\@hfontadapt@\expandafter\meaning\the\font\space\noexpand\@nil}\tem
3553
3554
3555
        \expandafter\hfont\expandafter{\mkr@font}%
3556
      \fi
```

```
3559 %
3560 \DeclareFontEncoding{MKR}{}{}
3561 \ensuremath{\mbox{NKR}}{\mbox{omega}{m}{n}}
3563 \DeclareTextCommand\hebalef{MKR}{'}
3564 \DeclareTextCommand\hebbet{MKR}{v}
3565 \DeclareTextCommand\hebgimel{MKR}{g}
3566 \DeclareTextCommand\hebdalet{MKR}{d}
3567 \DeclareTextCommand\hebhe{MKR}{h}
3568 \DeclareTextCommand\hebvav{MKR}{w}
3569 \DeclareTextCommand\hebzayin{MKR}{z}
3570 \DeclareTextCommand\hebhet{MKR}{x}
3571 \DeclareTextCommand\hebtet{MKR}{t}
3572 \DeclareTextCommand\hebyod{MKR}{y}
3573 \DeclareTextCommand\hebfinalkaf{MKR}{K\char94 }
3574 \DeclareTextCommand\hebkaf{MKR}{K\NOBOUNDARY}
3575 \DeclareTextCommand\heblamed{MKR}{1}
3576 \DeclareTextCommand\hebfinalmem{MKR}{m\char94 }
3577 \DeclareTextCommand\hebmem{MKR}{m\NOBOUNDARY}
3578 \DeclareTextCommand\hebfinalnun{MKR}{n\char94 }
3579 \DeclareTextCommand\hebnun\{MKR\}\{n\NOBOUNDARY\}
3580 \DeclareTextCommand\hebsamekh{MKR}{s}
3581 \DeclareTextCommand\hebayin{MKR}{''}
3582 \DeclareTextCommand\hebfinalpe{MKR}{f\char94 }
3583 \DeclareTextCommand\hebpe{MKR}{f\NOBOUNDARY}
3584 \DeclareTextCommand\hebfinaltsadi{MKR}{ts\char94 }
3585 \DeclareTextCommand\hebtsadi{MKR}{ts\NOBOUNDARY}
3586 \DeclareTextCommand\hebqof{MKR}{q}
3587 \DeclareTextCommand\hebresh{MKR}{r}
3588 \DeclareTextCommand\hebshin{MKR}{sh}
3589 \DeclareTextCommand\hebtav{MKR}{s\char94 }
3590 \DeclareTextSymbol\doublevav{MKR}{"83}
3591 \DeclareTextSymbol\vavyod{MKR}{"84}
3592 \DeclareTextSymbol\doubleyod{MKR}{"81}
3593 \DeclareTextCommand\maqaf{MKR}{-{}}
3594 \DeclareTextCommand\sofpasuq{MKR}{:}
3595 \DeclareTextSymbol\geresh{MKR}{251}
3596 \DeclareTextSymbol\gershayim{MKR}{"22}
3597 \DeclareTextSymbol\hebaleflamed{MKR}{"A4}
3599 \DeclareTextCommand\dagesh{MKR}[1]{#1*}
3600 \DeclareTextCommand\sheva{MKR}[1]{#1\vwlSHEVA}
3601 \label{lem:mandhatafsegol} $$MKR$[1] $$ $$1 \vwlCOLON\vwlE} $$
3602 \end{Align*} \begin{tabular}{l} $3602 \end{tabular} \begin{tabular}{l} $1 \end{tabular} \begin{tabular}{l} $41 \end{tabular} \begin{tabular}{l} $3602 \end{tabular} \be
3603 \DeclareTextCommand\hatafqamats{MKR}[1]{#1\vwlCOLON\vwlPLUS}
3604 \DeclareTextCommand\hiriq{MKR}[1]{#1\vwlI}
3605 \DeclareTextCommand\tsere{MKR}[1]{#1\vwlE\vwlI}
3606 \DeclareTextCommand\segol{MKR}[1]{#1\vwlE}
3607 \DeclareTextCommand\patah{MKR}[1]{#1\vwlA}
3608 \DeclareTextCommand\qamats{MKR}[1]{#1\vwlPLUS}
```

```
3609 \DeclareTextCommand\qubuts{MKR}[1]{#1\vwlU}
3610 \DeclareTextCommand\meteg{MKR}[1]{#1\vwlVERT}
3611 \DeclareTextCommand\holam{MKR}[1]{#10}
3612 \DeclareTextCommand\shindot{MKR}[1]{sh\char94}% Only useful as \shindot\shin
3613 \verb|\DeclareTextCommand\sindot{MKR}[1]{\char94s}\% Only useful as \verb|\sindot\shin|
3615 \DeclareTextCommand{\textascii}{MKR}[1]{\OtextasciiOswitch{#1}}
3616 \DeclareTextComposite\patach{MKR}\doubleyod{"82}
3617 \verb|\DeclareTextCompositeCommand\dagesh{MKR}\finalkaf{K*\char94}|
3618 \verb|\DeclareTextCompositeCommand\dagesh{MKR}\kaf{K*\NOBOUNDARY}|
3619 \DeclareTextCompositeCommand\dagesh{MKR}\finalmem{m*{}}
3620 \DeclareTextCompositeCommand\dagesh{MKR}\mem{m*\NOBOUNDARY}
3621 \DeclareTextCompositeCommand\dagesh{MKR}\finalnun{n*{}}
3622 \end{MKR} \\ \num{n*\NOBOUNDARY} \\
3623 %\DeclareTextCompositeCommand\dagesh{MKR}\finalpe{f*\char94 }
3624 \verb|\DeclareTextCompositeCommand\dagesh{MKR}\pe{f*\NOBOUNDARY}|
3625 %\DeclareTextCompositeCommand\dagesh{MKR}\finaltsadi{ts*\char94 }
3626 \end{MKR} \tsadi\{ts*\nOBOUNDARY\}
3627 %
3628 %
3629 (/mkrenc.def)
 4.32
         File mkrezra.fd
3630 (*mkrezra.fd)
3631 \ProvidesFile{mkrezra.fd}[2002/09/20 ezra family for encoding MKR]%
3632 \DeclareFontFamily{MKR}{ezra}{}
3633 \DeclareFontShape{MKR}{ezra}{m}{n}{<-> * ezramm}{}
3634 \DeclareFontShape{MKR}{ezra}{m}{it}{<-> * ezraimm}{}
3635 \DeclareFontShape{MKR}{ezra}{bx}{n}{<-> * ezrabmm}{}
3636 \DeclareFontShape{MKR}{ezra}{bx}{it}{<-> * ezrabimm}{}
3637 \DeclareFontShape{MKR}{ezra}{m}{o}{<-> * ezraomm}{}
3638 %
3639 %
3640 (/mkrezra.fd)
         File mkrhadas.fd
 4.33
_{3641} \langle *mkrhadas.fd \rangle
3642 \ProvidesFile{mkrhadas.fd}[2002/09/20 hadas family for encoding MKR]%
3643 \DeclareFontFamily{MKR}{hadas}{}
3644 \ensuremath{\mbox{DeclareFontShape}\{MKR}{\mbox{hadas}\{m\}\{n\}\{<-> * hadassahmm}\}{\mbox{hadas}\}}
3645 \ensuremath{\mbox{DeclareFontShape}(MKR){\mbox{hadas}{m}}{it}{<-> * hadassaimm}{}}
3646 \ensuremath{\mbox{NEP}{mKR}{hadas}{bx}{n}{<-> * hadassabmm}{}}
3647 \ensuremath{\mbox{DeclareFontShape}(MKR){\mbox{hadas}}{\mbox{bx}}{\mbox{it}}{\mbox{<-> * hadassbimm}}{\mbox{{}}}
3648 %
3649 %
3650 (/mkrhadas.fd)
```

4.34 File mkromega.fd

```
3651 (*mkromega.fd)
3652 \ProvidesFile{mkromega.fd}[2002/09/20 omega family for encoding MKR]% and the second s
3653 \DeclareFontFamily{MKR}{omega}{}
3654 \ensuremath{\mbox{\sc NKR}} \{omega\} \{m\} \{n\} \{<-> * ohebrmm\} \{\} \}
3655 %
3656 %
3657 (/mkromega.fd)
                            File mkrrashi.fd
     4.35
3658 (*mkrrashi.fd)
3659 \ProvidesFile{mkrrashi.fd}[2002/09/20 rashi family for encoding MKR]%
3660 \DeclareFontFamily{MKR}{rashi}{}
3661 \DeclareFontShape{MKR}{rashi}{m}{n}{<-> * rashimm}{}
3662 \ensuremath{\mbox{DeclareFontShape}\{MKR}{rashi}{bx}{n}{<-> * rashbmm}{}
3663 %
3664 %
3665 (/mkrrashi.fd)
     4.36
                           File t2denc.def
3666 (*t2denc.def)
3667 % This file is a hack. When a manually created t2denc.def
3668 % appears (e.g. contributed with the LH fonts), this hack should be deleted.
3669 \NeedsTeXFormat{LaTeX2e}[1998/12/01]%
3670 \ProvidesFile{t2denc.def}[Experimental T2D]%
3671 \DeclareFontEncoding{T2D}{}{}%
3672 \DeclareFontSubstitution{\LastDeclaredEncoding}{cmr}{m}{n}%
3673 \DeclareTextSymbol\CYRA\LastDeclaredEncoding{"C0}%
3674 \verb|\DeclareTextSymbol\cyra\LastDeclaredEncoding{"E0}% where $(0,0)$ is a substitution of the substit
3675 \DeclareTextSymbol\CYRB\LastDeclaredEncoding{"C1}%
3676 \DeclareTextSymbol\cyrb\LastDeclaredEncoding{"E1}%
3677 \DeclareTextSymbol\CYRV\LastDeclaredEncoding{"C2}%
3678 \DeclareTextSymbol\cyrv\LastDeclaredEncoding{"E2}%
3679 \DeclareTextSymbol\CYRG\LastDeclaredEncoding{"C3}%
3680 \DeclareTextSymbol\cyrg\LastDeclaredEncoding{"E3}%
3681 \DeclareTextSymbol\CYRD\LastDeclaredEncoding{"C4}%
3683 \DeclareTextSymbol\CYRE\LastDeclaredEncoding{"C5}%
3684 \DeclareTextSymbol\cyre\LastDeclaredEncoding{"E5}%
3685 \DeclareTextSymbol\CYRZH\LastDeclaredEncoding{"C6}%
3686 \DeclareTextSymbol\cyrzh\LastDeclaredEncoding{"E6}%
3687 \verb|\DeclareTextSymbol\CYRZ\LastDeclaredEncoding{"C7}\% 
3688 \DeclareTextSymbol\cyrz\LastDeclaredEncoding{"E7}%
3689 \DeclareTextSymbol\CYRI\LastDeclaredEncoding{"C8}%
3690 \DeclareTextSymbol\cyri\LastDeclaredEncoding{"E8}%
3691 \DeclareTextSymbol\CYRISHRT\LastDeclaredEncoding{"C9}%
3692 \DeclareTextSymbol\cyrishrt\LastDeclaredEncoding{"E9}%
3693 \DeclareTextSymbol\CYRK\LastDeclaredEncoding{"CA}%
3694 \DeclareTextSymbol\cyrk\LastDeclaredEncoding{"EA}%
```

```
3695 \DeclareTextSymbol\CYRL\LastDeclaredEncoding{"CB}%
3696 \DeclareTextSymbol\cyrl\LastDeclaredEncoding{"EB}%
3697 \DeclareTextSymbol\CYRM\LastDeclaredEncoding{"CC}%
3698 \DeclareTextSymbol\cyrm\LastDeclaredEncoding{"EC}%
3699 \DeclareTextSymbol\CYRN\LastDeclaredEncoding{"CD}%
3700 \DeclareTextSymbol\cyrn\LastDeclaredEncoding{"ED}%
3701 \DeclareTextSymbol\CYRO\LastDeclaredEncoding{"CE}%
3702 \DeclareTextSymbol\cyro\LastDeclaredEncoding{"EE}%
3703 \DeclareTextSymbol\CYRP\LastDeclaredEncoding{"CF}%
3704 \ensuremath{\mbox{\sc Numbol\cyrp\LastDeclaredEncoding{"EF}}\% \\
3705 \DeclareTextSymbol\CYRR\LastDeclaredEncoding{"D0}%
3706 \DeclareTextSymbol\cyrr\LastDeclaredEncoding{"F0}%
3707 \DeclareTextSymbol\CYRS\LastDeclaredEncoding{"D1}%
3708 \DeclareTextSymbol\cyrs\LastDeclaredEncoding{"F1}%
3709 \DeclareTextSymbol\CYRT\LastDeclaredEncoding{"D2}%
3710 \DeclareTextSymbol\cyrt\LastDeclaredEncoding{"F2}%
3711 \DeclareTextSymbol\CYRU\LastDeclaredEncoding{"D3}%
3712 \DeclareTextSymbol\cyru\LastDeclaredEncoding{"F3}%
3713 \DeclareTextSymbol\CYRF\LastDeclaredEncoding{"D4}%
3714 \DeclareTextSymbol\cyrf\LastDeclaredEncoding{"F4}%
3715 \DeclareTextSymbol\CYRH\LastDeclaredEncoding{"D5}%
3716 \DeclareTextSymbol\cyrh\LastDeclaredEncoding{"F5}%
3717 \verb|\DeclareTextSymbol\CYRC\LastDeclaredEncoding{"D6}| \% \\
3718 \DeclareTextSymbol\cyrc\LastDeclaredEncoding{"F6}%
3719 \DeclareTextSymbol\CYRCH\LastDeclaredEncoding{"D7}%
3720 \DeclareTextSymbol\cyrch\LastDeclaredEncoding{"F7}%
3721 \DeclareTextSymbol\CYRSH\LastDeclaredEncoding{"D8}%
3722 \DeclareTextSymbol\cyrsh\LastDeclaredEncoding{"F8}%
3723 \DeclareTextSymbol\CYRSHCH\LastDeclaredEncoding{"D9}%
3724 \DeclareTextSymbol\cyrshch\LastDeclaredEncoding{"F9}%
3725 \DeclareTextSymbol\CYRHRDSN\LastDeclaredEncoding{"DA}%
3726 \DeclareTextSymbol\cyrhrdsn\LastDeclaredEncoding{"FA}%
3727 \DeclareTextSymbol\CYRERY\LastDeclaredEncoding{"DB}%
3728 \DeclareTextSymbol\cyrery\LastDeclaredEncoding{"FB}%
3729 \DeclareTextSymbol\CYRSFTSN\LastDeclaredEncoding{"DC}%
3730 \DeclareTextSymbol\cyrsftsn\LastDeclaredEncoding{"FC}%
3731 \DeclareTextSymbol\CYREREV\LastDeclaredEncoding{"DD}%
3732 \DeclareTextSymbol\cyrerev\LastDeclaredEncoding{"FD}%
3733 \DeclareTextSymbol\CYRYU\LastDeclaredEncoding{"DE}%
3734 \DeclareTextSymbol\cyryu\LastDeclaredEncoding{"FE}%
3735 \DeclareTextSymbol\CYRYA\LastDeclaredEncoding{"DF}%
3736 \DeclareTextSymbol\cyrya\LastDeclaredEncoding{"FF}%
3737 \DeclareTextSymbol\CYRYO\LastDeclaredEncoding{"9C}%
3738 \DeclareTextSymbol\cyryo\LastDeclaredEncoding{"BC}%
3739 \DeclareTextSymbol\CYRDZE\LastDeclaredEncoding{"8F}%
3740 \DeclareTextSymbol\cyrdze\LastDeclaredEncoding{"AF}%
3741 \DeclareTextSymbol\CYRYAT\LastDeclaredEncoding{"93}%
3742 \DeclareTextSymbol\cyryat\LastDeclaredEncoding{"B3}%
3743 \DeclareTextSymbol\CYRBYUS\LastDeclaredEncoding{"97}%
3744 \verb|\DeclareTextSymbol\cyrbyus\LastDeclaredEncoding{"B7}|% \cite{Continuous of the continuous of
```

```
3745 \DeclareTextSymbol\CYRIZH\LastDeclaredEncoding{"8A}%
3746 \ensuremath{\mbox{\sc NeclaredEncoding}{\mbox{\sc NeclaredEncoding}}} \ensuremath{\mbox{\sc NeclaredEncoding}{\mbox{\sc NeclaredEncoding}}} \ensuremath{\mbox{\sc NeclaredEncoding}} \ensuremath{\
3747 \DeclareTextSymbol\CYRIE\LastDeclaredEncoding{"99}%
3748 \DeclareTextSymbol\cyrie\LastDeclaredEncoding{"B9}%
3749 \DeclareTextSymbol\CYREPS\LastDeclaredEncoding{"9B}%
3750 \DeclareTextSymbol\cyreps\LastDeclaredEncoding{"BB}%
3751 \DeclareTextSymbol\CYRAZ\LastDeclaredEncoding{"80}%
3752 \DeclareTextSymbol\cyraz\LastDeclaredEncoding{"A0}%
3753 \DeclareTextSymbol\CYRIAZ\LastDeclaredEncoding{"81}%
3754 \ensuremath{\mbox{\sc Numbol\cyriaz\LastDeclaredEncoding{"A1}\%}
3755 \DeclareTextSymbol\CYRLYUS\LastDeclaredEncoding{"82}%
3756 \DeclareTextSymbol\cyrlyus\LastDeclaredEncoding{"A2}%
3757 \DeclareTextSymbol\CYRIOTLYUS\LastDeclaredEncoding{"83}%
3758 \DeclareTextSymbol\cyriotlyus\LastDeclaredEncoding{"A3}%
3759 \DeclareTextSymbol\CYRGERV\LastDeclaredEncoding{"84}%
3760 \DeclareTextSymbol\cyrgerv\LastDeclaredEncoding{"A4}%
3761 \DeclareTextSymbol\CYRZEMLA\LastDeclaredEncoding{"86}%
3762 \DeclareTextSymbol\cyrzemla\LastDeclaredEncoding{"A6}%
3763 \DeclareTextSymbol\CYRKSI\LastDeclaredEncoding{"87}%
3764 \DeclareTextSymbol\cyrksi\LastDeclaredEncoding{"A7}%
3765 \DeclareTextSymbol\CYRVARIZHE\LastDeclaredEncoding{"88}%
3766 \DeclareTextSymbol\cyrvarizhe\LastDeclaredEncoding{"A8}%
3767 \DeclareTextSymbol\CYRIZHE\LastDeclaredEncoding{"89}%
3768 \DeclareTextSymbol\cyrizhe\LastDeclaredEncoding{"A9}%
3769 \DeclareTextSymbol\CYROMGA\LastDeclaredEncoding{"8B}%
3770 \DeclareTextSymbol\cyromga\LastDeclaredEncoding{"AB}%
3771 \DeclareTextSymbol\CYROMRND\LastDeclaredEncoding{"8C}%
3772 \DeclareTextSymbol\cyromrnd\LastDeclaredEncoding{"AC}%
3773 \DeclareTextSymbol\CYROT\LastDeclaredEncoding{"8D}%
3774 \DeclareTextSymbol\cyrot\LastDeclaredEncoding{"AD}%
3775 \DeclareTextSymbol\CYROMTLO\LastDeclaredEncoding{"8E}%
3776 \DeclareTextSymbol\cyromtlo\LastDeclaredEncoding{"AE}%
3777 \DeclareTextSymbol\CYRFITA\LastDeclaredEncoding{"90}%
3778 \DeclareTextSymbol\cyrfita\LastDeclaredEncoding{"B0}%
3779 \DeclareTextSymbol\CYRKOPPA\LastDeclaredEncoding{"91}%
3780 \verb|\DeclareTextSymbol\cyrkoppa\LastDeclaredEncoding{"B1}| \% \\
3781 \DeclareTextSymbol\CYRUK\LastDeclaredEncoding{"92}%
3782 \DeclareTextSymbol\cyruk\LastDeclaredEncoding{"B2}%
3783 \DeclareTextSymbol\CYRCHERV\LastDeclaredEncoding{"94}%
3784 \DeclareTextSymbol\cyrcherv\LastDeclaredEncoding{"B4}%
3785 \DeclareTextSymbol\CYRPSI\LastDeclaredEncoding{"95}%
3786 \DeclareTextSymbol\cyrpsi\LastDeclaredEncoding{"B5}%
3787 \DeclareTextSymbol\CYRSHTA\LastDeclaredEncoding{"96}%
3788 \DeclareTextSymbol\cyrshta\LastDeclaredEncoding{"B6}%
3789 \DeclareTextSymbol\CYRIOTBYUS\LastDeclaredEncoding{"98}%
3790 \DeclareTextSymbol\cyriotbyus\LastDeclaredEncoding{"B8}%
3791 \DeclareTextSymbol\CYRIOTEST\LastDeclaredEncoding{"9A}%
3792 \DeclareTextSymbol\cyriotest\LastDeclaredEncoding{"BA}%
3793 \DeclareTextSymbol\CYRNARROWE\LastDeclaredEncoding{"9B}%
3794 \DeclareTextSymbol\cyrnarrowe\LastDeclaredEncoding{"BB}%
```

```
3795 \DeclareTextAccent\'\LastDeclaredEncoding{"00}%
3796 \DeclareTextAccent\',\LastDeclaredEncoding{"01}%
3797 \DeclareTextAccent\^\LastDeclaredEncoding{"02}%
3798 \DeclareTextAccent\~\LastDeclaredEncoding{"03}%
3799 \DeclareTextAccent\"\LastDeclaredEncoding{"04}%
3800 \DeclareTextAccent\H\LastDeclaredEncoding{"05}%
3801 \DeclareTextAccent\r\LastDeclaredEncoding{"06}%
3802 \DeclareTextAccent\v\LastDeclaredEncoding{"07}%
3803 \DeclareTextAccent\u\LastDeclaredEncoding{"08}%
3804 \DeclareTextAccent\=\LastDeclaredEncoding{"09}%
3805 \DeclareTextAccent\.\LastDeclaredEncoding{"OA}%
3806 \DeclareTextSymbol\cyrlangle\LastDeclaredEncoding{"OE}%
3807 \DeclareTextSymbol\cyrrangle\LastDeclaredEncoding{"OF}%
3808 \DeclareTextAccent\F\LastDeclaredEncoding{"12}%
3809 \DeclareTextAccent\C\LastDeclaredEncoding{"13}%
3810 \DeclareTextAccent\U\LastDeclaredEncoding{"14}%
3811 \DeclareTextSymbol\cyrdash\LastDeclaredEncoding{"16}%
3812 \DeclareTextSymbol\perthousand\LastDeclaredEncoding{"18}%
3813 \DeclareTextSymbol\i\LastDeclaredEncoding{"19}%
3814 \DeclareTextSymbol\j\LastDeclaredEncoding{"1A}%
3815 \DeclareTextSymbol\CYRNo\LastDeclaredEncoding{"9D}%
3816 \DeclareTextSymbol\textsection\LastDeclaredEncoding{"9F}%
3817 \verb|\DeclareTextSymbol\quotedblbase\LastDeclaredEncoding{"BD}| % \cite{Appendix} which is a substitution of the property 
3818 \DeclareTextSymbol\guillemotleft\LastDeclaredEncoding{"BE}%
3819 \DeclareTextSymbol\guillemotright\LastDeclaredEncoding{"BF}%
3820 \DeclareTextAccent\CYRtitlo\LastDeclaredEncoding{"OB}%
3821 \DeclareTextAccent\CYRpalatal\LastDeclaredEncoding{"OC}%
3822 \DeclareTextAccent\CYRpaerok\LastDeclaredEncoding{"OD}%
3823 \DeclareTextAccent\CYRkamora\LastDeclaredEncoding{"17}%
3824 \verb|\DeclareTextAccent\CYRpsili\LastDeclaredEncoding{"1B}\% |
3825 \DeclareTextAccent\CYRdasia\LastDeclaredEncoding{"1C}%
3826 \DeclareTextAccent\CYRzvat\LastDeclaredEncoding{"1D}%
3827 \DeclareTextAccent\CYRpneuac\LastDeclaredEncoding{"1E}%
3828 \DeclareTextAccent\CYRpneugrav\LastDeclaredEncoding{"1F}%
3829 \DeclareTextAccent\CYRthousands\LastDeclaredEncoding{"9E}%
3830 \verb|\DeclareTextSymbol\CYRNASH\LastDeclaredEncoding{"85}|% | A structure for the content of the content of
3831 \DeclareTextSymbol\cyrnash\LastDeclaredEncoding{"A5}%
3832 %
3833 (/t2denc.def)
     4.37
                           File t2dcmr.fd
```

```
3834 \( *t2dcmr.fd \)
3835 \ProvidesFile{t2dcmr.fd}
3836 [Experimental T2D cmr]
3837 \providecommand{\EC@family} [5] {%
3838 \DeclareFontShape{#1}{#2}{#3}{#4}%
3839 {<5><6><7><8><9><10><10.95><12><14.4>%
3840 <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
3841 \DeclareFontFamily{T2D}{cmr}{}
```

```
3842 \ensurement \ensurement
```

4.38 File tengwarDS.enc

```
3854 (*tengwarDS.enc)
3855 %
3856 %
3857 % nomapping(anna_sindarinwa,h) % (in Quenya-A)
3858 % nomapping(stl_vala,???)
3859 %
3860 % nomapping(double_acute)
3861 % nomapping(double_right_curl)
3862 % nomapping(double_left_curl)
3863 % nomapping(tilde)
3864
3865 %
3866
3867 %
3868 %
3869 % ligature tinco three_above (one E) is OK.
3870 %
3871 % ligature anna three_above (h E) is OK.
3872 % ligature anna acute (h R) is OK.
3873 % ligature anna amaticse (h T) is OK.
3874 % ligature anna right_curl (h Y) is OK.
3875 % ligature anna chevron (h Ugrave) is OK.
3876 % ligature anna nasalizer (h bracketleft) is OK.
3878\ \mbox{\ensuremath{\%}} ligature quesse three_above (z E) is OK.
3879 % ligature quesse acute (z R) is OK.
3880 % ligature quesse amaticse (z T) is OK.
3881 % ligature quesse right_curl (z Y) is OK.
3882 % ligature quesse chevron (z Ugrave) is OK.
3883 % ligature quesse nasalizer (z bracketleft) is OK.
3885 % ligature lambe three_above (j E) is OK.
3886 % ligature lambe acute (j R) is OK.
3887 % ligature lambe amaticse (j T) is OK.
3888 % ligature lambe right_curl (j Y) is OK.
```

```
3889 % ligature lambe chevron (j Ugrave) is OK.
3890 % ligature lambe nasalizer (j bracketleft) is OK.
3891
3892 % ligature malta three_above:
3893 % LIGKERN t E |=:> numbersign
3894 % ligature malta acute:
3895 % LIGKERN t R |=:> dollar
3896 % ligature malta amaticse:
3897 % LIGKERN t T |=:> percent
3898 % ligature malta right_curl:
3899 % LIGKERN t Y |=:> asciicircum
3900 % ligature malta chevron:
3901 % LIGKERN t Ugrave |=:> Oslash
3902 % ligature malta nasalizer:
3903 % LIGKERN t bracketleft |=:> braceleft
3904
3905\;\text{\%} ligature nuumen three_above:
3906 % LIGKERN five E |=:> numbersign
3907 % ligature nuumen acute:
3908 % LIGKERN five R |=:> dollar
3909 % ligature nuumen amaticse:
3910 % LIGKERN five T |=:> percent
3911 % ligature nuumen right_curl:
3912 % LIGKERN five Y |=:> asciicircum
3913 % ligature nuumen chevron:
3914 % LIGKERN five Ugrave |=:> Oslash
3915 % ligature nuumen nasalizer:
3916 % LIGKERN five bracketleft |=:> braceleft
3917
3918 % ligature parma three_above (q E) is OK.
3919 % ligature parma acute (q R) is OK.
3920 % ligature parma amaticse (q T) is OK.
3921 % ligature parma right_curl (q Y) is OK.
3922 % ligature parma chevron (q Ugrave) is OK.
3923 % ligature parma nasalizer (q bracketleft) is OK.
3925 % ligature silme_nuquerna three_above (i E) is OK.
3926 % ligature silme_nuquerna acute (i R) is OK.
3927 % ligature silme_nuquerna amaticse (i T) is OK.
3928 % ligature silme_nuquerna right_curl (i Y) is OK.
3929 % ligature silme_nuquerna chevron (i Ugrave) is OK.
3930 % ligature silme_nuquerna nasalizer (i bracketleft) is OK.
3931
3932 % ligature tinco three_above (one E) is OK.
3933 % ligature tinco acute (one R) is OK.
3934 % ligature tinco amaticse (one T) is OK.
3935 % ligature tinco right_curl (one Y) is OK.
3936 % ligature tinco chevron (one Ugrave) is OK.
3937 % ligature tinco nasalizer (one bracketleft) is OK.
3938
```

```
3939 % ligature vala three_above (y E) is OK.
3940 % ligature vala acute (y R) is OK.
3941 % ligature vala amaticse (y T) is OK.
3942 % ligature vala right_curl (y Y) is OK.
3943 % ligature vala chevron (y Ugrave) is OK.
3944 % ligature vala nasalizer (y bracketleft) is OK.
3946 % ligature short_carrier three_above:
3947 % LIGKERN grave E |=:> C
3948\ \% ligature short_carrier acute:
3949 % LIGKERN grave R |=:> V
3950 % ligature short_carrier amaticse:
3951 % LIGKERN grave T |=:> B
3952 % ligature short_carrier right_curl:
3953 % LIGKERN grave Y |=:> N
3954 % ligature short_carrier chevron:
3955 % LIGKERN grave Ugrave |=:> Ucircumflex
3956 % ligature short_carrier nasalizer (grave bracketleft) is OK.
3958 % ligature three_above nasalizer:
3959 % LIGKERN numbersign bracketleft |=:> braceleft
3960 % ligature acute nasalizer:
3961 % LIGKERN dollar bracketleft |=:> braceleft
3962 % ligature amaticse nasalizer:
3963 % LIGKERN percent bracketleft |=:> braceleft
3964 % ligature right_curl nasalizer:
3965 % LIGKERN asciicircum bracketleft |=:> braceleft
3966 % ligature chevron nasalizer:
3967 % LIGKERN Oslash bracketleft |=:> braceleft
3968
3969 % ligature nasalizer three_above:
3970 % LIGKERN braceleft E |=:> numbersign
3971 % ligature nasalizer acute:
3972 % LIGKERN braceleft R |=:> dollar
3973 % ligature nasalizer amaticse:
3974 % LIGKERN braceleft T |=:> percent
3975 % ligature nasalizer right_curl:
3976 % LIGKERN braceleft Y |=:> asciicircum
3977 % ligature nasalizer chevron:
3978 % LIGKERN braceleft Ugrave |=:> Oslash
3979 %
3980 %
3981 %
3982 /TengwarEncoding [
3983
3984 % 0x00
3985 /one /q /a /z
3986 /two /w /s /x
3987 /three /e /d /c
3988 /four /r /f /v
```

```
3989 % 0x10
3990 /five /t /g /b
3991 / six / y / h / n
3992 /seven /eight /j /m
3993 / eight / i / k / comma
3994 % 0x20
3995 / \text{nine /o /l /period}
3996 /onehalf /grave /asciitilde /.c0x7f
3997 / \text{exclam} / \text{Q} / \text{A} / \text{Z}
3998 /at /W /S /X
3999 % 0x30
4000 /.c240 /.c0x7f /bracketright /.c241
4001 /space /space /space % 4567
4002 /space /space /space % 89AB
4003 /space /space /space % CDEF
4004 % 0x40
4005 /E /.c209 /.c213 /.c205
4006 / T /.c201 /R /.c0x7f
4007\,\mbox{/Y} /.c0x7f /.c225 /.c0x7f
4008 /bracketleft /quotesingle /.c0x7f /.c0x7f
4009 % 0x50
4010 /equal /hyphen /.c193 /.c192
4011 /backslash /.c194 /.c0x7f /.c0x7f
4012 /.c0x7f /space /.c0x7f /space
4013 /.c0x7f /.c0x7f /space /space
4014 % 0x60
4015 /space /space /.c242 /.c243
4016 /.c244 /.c245 /.c246 /.c247
4017 /.c248 /.c249 /.c250 /.c251
4018 /.c0x7f /.c0x7f /.c0x7f /space
4019 % 0x70
4020 /space /space /space % 0123
4021 /space /space /space % 4567
4022 /space /space /space % 89AB
4023 /space /space /space /space
4024
4025 % 0x80
4026 \; / \text{numbersign} \; / \text{D} \; / \text{C} \; / \text{Oslash} \; \% \; 0123
4027 /Uacute /Ucircumflex /dollar /F % 4567
4028 \ / V \ / percent \ / G \ / B \ \% \ 89AB
4029 /asciicircum /H /N /braceleft % CDEF
4030 % 0x90
4031 \ / \ quotedbl \ / \ question \ /.c212 \ /.c214 \ \% \ 0123
4032 /.c215 /.c204 /.c206 /.c207 % 4567
4033 \; \text{/.c208} \; \text{/.c210} \; \text{/.c211} \; \text{/.c200} \; \% \; 89 \text{AB}
4034 /.c202 /.c203 /.c224 /.c226 % CDEF
4035 % 0xA0
4036 /.c227 /.notdef /.notdef /.notdef % 0123
4037 /.notdef /.notdef /.notdef % 4567
4038 /.notdef /.notdef /.notdef % 89AB
```

```
4039 /.notdef /.notdef /.notdef % CDEF
4040 % 0xB0
4041 /.notdef /.notdef /.notdef % 0123
4042 /.notdef /.notdef /.notdef % 4567
4043 /.notdef /.notdef /.notdef % 89AB
4044 /.notdef /.notdef /.notdef % CDEF
4045 % 0xC0
4046 /.notdef /.notdef /.notdef % 0123
4047 /.notdef /.notdef /.notdef % 4567
4048 /.notdef /.notdef /.notdef % 89AB
4049 /.notdef /.notdef /.notdef % CDEF
4050 % 0xD0
4051 /.notdef /.notdef /.notdef % 0123
4052 /.notdef /.notdef /.notdef % 4567
4053 /.notdef /.notdef /.notdef % 89AB
4054 /.notdef /.notdef /.notdef % CDEF
4055 % 0xE0
4056 /.notdef /.notdef /.notdef % 0123
4057 /.notdef /.notdef /.notdef % 4567
4058 /.notdef /.notdef /.notdef % 89AB
4059 /.notdef /.notdef /.notdef % CDEF
4060 % 0xF0
4061 /.notdef /.notdef /.notdef % 0123
4062 /.notdef /.notdef /.notdef % 4567
4063 \; \hbox{/.notdef} \; \hbox{/.notdef} \; \hbox{/.notdef} \; \hbox{\% 89AB}
4064 /.notdef /.notdef /.notdef % CDEF
4065 ] def
4066
4067
4068 % eof
4069 %
4070 (/tengwarDS.enc)
```

4.39 File cp1252.enc

```
4071 (*cp1252.enc)
4072 /CP1252Encoding [
4073 /.c0x0000 /.c0x0001 /.c0x0002 /.c0x0003 /.c0x0004 /.c0x0005 /.c0x0006
4074 /.c0x0007 /.c0x0008 /.c0x0009 /.c0x000A /.c0x000B /.c0x000C /.c0x000D
4075 /.c0x000E /.c0x000F /.c0x0010 /.c0x0011 /.c0x0012 /.c0x0013 /.c0x0014
4076 /.c0x0015 /.c0x0016 /.c0x0017 /.c0x0018 /.c0x0019 /.c0x001A /.c0x001B
4077 /.c0x001C /.c0x001D /.c0x001E /.c0x001F /.c0x0020 /.c0x0021 /.c0x0022
4078 /.c0x0023 /.c0x0024 /.c0x0025 /.c0x0026 /.c0x0027 /.c0x0028 /.c0x0029
4079 /.c0x002A /.c0x002B /.c0x002C /.c0x002D /.c0x002E /.c0x002F /.c0x0030
4080 /.c0x0031 /.c0x0032 /.c0x0033 /.c0x0034 /.c0x0035 /.c0x0036 /.c0x0037
4081 /.c0x0038 /.c0x0039 /.c0x003A /.c0x003B /.c0x003C /.c0x003D /.c0x003E
4082 /.c0x003F /.c0x0040 /.c0x0041 /.c0x0042 /.c0x0043 /.c0x0044 /.c0x0045
4083 /.c0x0046 /.c0x0047 /.c0x0048 /.c0x0049 /.c0x004A /.c0x004B /.c0x004C
4084 /.c0x004D /.c0x004E /.c0x004F /.c0x0050 /.c0x0051 /.c0x0059 /.c0x0054
```

```
4086 /.c0x005B /.c0x005C /.c0x005D /.c0x005E /.c0x005F /.c0x0060 /.c0x0061
4087 /.c0x0062 /.c0x0063 /.c0x0064 /.c0x0065 /.c0x0066 /.c0x0067 /.c0x0068
4088 /.c0x0069 /.c0x006A /.c0x006B /.c0x006C /.c0x006D /.c0x006E /.c0x006F
4089 /.c0x0070 /.c0x0071 /.c0x0072 /.c0x0073 /.c0x0074 /.c0x0075 /.c0x0076
4090 /.c0x0077 /.c0x0078 /.c0x0079 /.c0x007A /.c0x007B /.c0x007C /.c0x007D
4091 /.c0x007E /.c0x007F /.c0x20AC /.notdef /.c0x201A /.c0x0192 /.c0x201E
4092 /.c0x2026 /.c0x2020 /.c0x2021 /.c0x02C6 /.c0x2030 /.c0x0160 /.c0x2039
4093 /.c0x0152 /.notdef /.c0x017D /.notdef /.notdef /.c0x2018 /.c0x2019
4094 /.c0x201C /.c0x201D /.c0x2022 /.c0x2013 /.c0x2014 /.c0x02DC /.c0x2122
4095 /.c0x0161 /.c0x203A /.c0x0153 /.notdef /.c0x017E /.c0x0178 /.c0x00A0
4096 /.c0x00A1 /.c0x00A2 /.c0x00A3 /.c0x00A4 /.c0x00A5 /.c0x00A6 /.c0x00A7
4097 /.c0x00A8 /.c0x00A9 /.c0x00AA /.c0x00AB /.c0x00AC /.c0x00AD /.c0x00AE
4098 /.c0x00AF /.c0x00B0 /.c0x00B1 /.c0x00B2 /.c0x00B3 /.c0x00B4 /.c0x00B5
4099 /.c0x00B6 /.c0x00B7 /.c0x00B8 /.c0x00B9 /.c0x00BA /.c0x00BB /.c0x00BC
4100 /.c0x00BD /.c0x00BE /.c0x00BF /.c0x00C0 /.c0x00C1 /.c0x00C2 /.c0x00C3
4101 /.c0x00C4 /.c0x00C5 /.c0x00C6 /.c0x00C7 /.c0x00C8 /.c0x00C9 /.c0x00CA
4102\,\mbox{/.c0x00CB} /.c0x00CC /.c0x00CD /.c0x00CE /.c0x00CF /.c0x00D0 /.c0x00D1
4103 /.c0x00D2 /.c0x00D3 /.c0x00D4 /.c0x00D5 /.c0x00D6 /.c0x00D7 /.c0x00D8
4104 /.c0x00D9 /.c0x00DA /.c0x00DB /.c0x00DC /.c0x00DD /.c0x00DE /.c0x00DF
4105 /.c0x00E0 /.c0x00E1 /.c0x00E2 /.c0x00E3 /.c0x00E4 /.c0x00E5 /.c0x00E6
4106 /.c0x00E7 /.c0x00E8 /.c0x00E9 /.c0x00EA /.c0x00EB /.c0x00EC /.c0x00ED
4107 /.c0x00EE /.c0x00EF /.c0x00F0 /.c0x00F1 /.c0x00F2 /.c0x00F3 /.c0x00F4
4108 /.c0x00F5 /.c0x00F6 /.c0x00F7 /.c0x00F8 /.c0x00F9 /.c0x00FA /.c0x00FB
4109 /.c0x00FC /.c0x00FD /.c0x00FE /.c0x00FF
4110 ] def
4111
4112 % eof
4113 %
4114 (/cp1252.enc)
```

4.40 File xsenc.def

```
4115 (*xsenc.def)
4116\ \% This file is a hack. When a manually created xsenc.def
4117 % appears (e.g. contributed with the LH fonts), this hack should be deleted.
4118 \NeedsTeXFormat{LaTeX2e}[1998/12/01]%
4119 \ProvidesFile{xsenc.def}[Experimental XS]%
4120 \DeclareFontEncoding{XS}{}{}%
4121 \DeclareFontSubstitution{\LastDeclaredEncoding}{cmr}{m}{n}%
4122 \DeclareTextSymbol\CYRII\LastDeclaredEncoding{"41}%
4123 \DeclareTextSymbol\cyrii\LastDeclaredEncoding{"61}%
4124 \DeclareTextSymbol\CYRJE\LastDeclaredEncoding{"42}%
4125 \DeclareTextSymbol\cyrje\LastDeclaredEncoding{"62}%
4126 \DeclareTextSymbol\CYRDZE\LastDeclaredEncoding{"43}%
4127 \DeclareTextSymbol\cyrdze\LastDeclaredEncoding{"63}%
4128 \DeclareTextSymbol\CYRYAT\LastDeclaredEncoding{"44}%
4129 \DeclareTextSymbol\cyryat\LastDeclaredEncoding{"64}%
4130 \DeclareTextSymbol\CYRBYUS\LastDeclaredEncoding{"45}%
4131 \DeclareTextSymbol\cyrbyus\LastDeclaredEncoding{"65}%
4132 \DeclareTextSymbol\CYRIZH\LastDeclaredEncoding{"46}%
```

```
4133 \DeclareTextSymbol\cyrizh\LastDeclaredEncoding{"66}%
4134 \DeclareTextSymbol\CYRYI\LastDeclaredEncoding{"47}%
4135 \DeclareTextSymbol\cyryi\LastDeclaredEncoding{"67}%
4136 \DeclareTextSymbol\CYRNG\LastDeclaredEncoding{"48}%
4137 \DeclareTextSymbol\cyrng\LastDeclaredEncoding{"68}%
4138 \DeclareTextSymbol\CYRIE\LastDeclaredEncoding{"49}%
4139 \DeclareTextSymbol\cyrie\LastDeclaredEncoding{"69}%
4140 \DeclareTextSymbol\CYRAZ\LastDeclaredEncoding{"4A}%
4141 \DeclareTextSymbol\cyraz\LastDeclaredEncoding{"6A}%
4142 \DeclareTextSymbol\CYRIAZ\LastDeclaredEncoding{"4B}%
4143 \DeclareTextSymbol\cyriaz\LastDeclaredEncoding{"6B}%
4144 \DeclareTextSymbol\CYRLYUS\LastDeclaredEncoding{"4C}%
4145 \DeclareTextSymbol\cyrlyus\LastDeclaredEncoding{"6C}%
4146 \DeclareTextSymbol\CYRIOTLYUS\LastDeclaredEncoding{"4D}%
4147 \DeclareTextSymbol\cyriotlyus\LastDeclaredEncoding{"6D}%
4148 \DeclareTextSymbol\CYRGERV\LastDeclaredEncoding{"4E}%
4149 \DeclareTextSymbol\cyrgerv\LastDeclaredEncoding{"6E}%
4150 \DeclareTextSymbol\CYRZEMLA\LastDeclaredEncoding{"50}%
4151 \DeclareTextSymbol\cyrzemla\LastDeclaredEncoding{"70}%
4152 \DeclareTextSymbol\CYRKSI\LastDeclaredEncoding{"51}%
4153 \DeclareTextSymbol\cyrksi\LastDeclaredEncoding{"71}%
4154 \DeclareTextSymbol\CYRVARIZHE\LastDeclaredEncoding{"52}%
4155 \verb|\DeclareTextSymbol\cyrvarizhe\LastDeclaredEncoding{"72}\% |
4156 \DeclareTextSymbol\CYRIZHE\LastDeclaredEncoding{"53}%
4157 \DeclareTextSymbol\cyrizhe\LastDeclaredEncoding{"73}%
4158 \DeclareTextSymbol\CYROMGA\LastDeclaredEncoding{"54}%
4159 \DeclareTextSymbol\cyromga\LastDeclaredEncoding{"74}%
4160 \DeclareTextSymbol\CYROMRND\LastDeclaredEncoding{"55}%
4161 \DeclareTextSymbol\cyromrnd\LastDeclaredEncoding{"75}%
4162 \DeclareTextSymbol\CYROT\LastDeclaredEncoding{"56}%
4163 \DeclareTextSymbol\cyrot\LastDeclaredEncoding{"76}%
4164 \DeclareTextSymbol\CYROMTLO\LastDeclaredEncoding{"57}%
4165 \DeclareTextSymbol\cyromtlo\LastDeclaredEncoding{"77}%
4166 \DeclareTextSymbol\CYRFITA\LastDeclaredEncoding{"58}%
4167 \DeclareTextSymbol\cyrfita\LastDeclaredEncoding{"78}%
4168 \DeclareTextSymbol\CYRKOPPA\LastDeclaredEncoding{"59}%
4169 \DeclareTextSymbol\cyrkoppa\LastDeclaredEncoding{"79}%
4170 \DeclareTextSymbol\CYRUK\LastDeclaredEncoding{"5A}%
4171 \DeclareTextSymbol\cyruk\LastDeclaredEncoding{"7A}%
4172 \DeclareTextSymbol\CYRCHERV\LastDeclaredEncoding{"80}%
4173 \DeclareTextSymbol\cyrcherv\LastDeclaredEncoding{"A0}%
4174 \DeclareTextSymbol\CYRPSI\LastDeclaredEncoding{"81}%
4175 \verb|\DeclareTextSymbol\cyrpsi\LastDeclaredEncoding{"A1}|% \\
4176 \DeclareTextSymbol\CYRSHTA\LastDeclaredEncoding{"82}%
4177 \DeclareTextSymbol\cyrshta\LastDeclaredEncoding{"A2}%
4178 \DeclareTextSymbol\CYRIOTBYUS\LastDeclaredEncoding{"83}%
4179 \DeclareTextSymbol\cyriotbyus\LastDeclaredEncoding{"A3}%
4180 \DeclareTextSymbol\CYRIOTEST\LastDeclaredEncoding{"84}%
4181 \DeclareTextSymbol\cyriotest\LastDeclaredEncoding{"A4}%
4182 \verb|\DeclareTextSymbol\CYRNARROWE\LastDeclaredEncoding{"85}|| \% | 182 \verb|\DeclaredEncoding{"85}|| \% | 182 \verb|\Declared
```

```
4183 \DeclareTextSymbol\cyrnarrowe\LastDeclaredEncoding{"A5}%
4184 \DeclareTextSymbol\CYRZELO\LastDeclaredEncoding{"86}%
4185 \DeclareTextSymbol\cyrzelo\LastDeclaredEncoding{"A6}%
4186 \DeclareTextSymbol\CYRVARUK\LastDeclaredEncoding{"87}%
4187 \DeclareTextSymbol\cyrvaruk\LastDeclaredEncoding{"A7}%
4188 \DeclareTextSymbol\CYRVIA\LastDeclaredEncoding{"88}%
4189 \DeclareTextSymbol\cyrvia\LastDeclaredEncoding{"A8}%
4190 \DeclareTextSymbol\CYRVLYUS\LastDeclaredEncoding{"89}%
4191 \DeclareTextSymbol\cyrvlyus\LastDeclaredEncoding{"A9}%
4192 \DeclareTextSymbol\CYRIZHDGR\LastDeclaredEncoding{"8A}%
4193 \DeclareTextSymbol\cyrizhdgr\LastDeclaredEncoding{"AA}%
4194 \DeclareTextSymbol\CYRIZHUML\LastDeclaredEncoding{"8B}%
4195 \DeclareTextSymbol\cyrizhuml\LastDeclaredEncoding{"AB}%
4196 \DeclareTextSymbol\CYROLG\LastDeclaredEncoding{"8C}%
4197 \DeclareTextSymbol\cyrolg\LastDeclaredEncoding{"AC}%
4198 \DeclareTextSymbol\CYROERY\LastDeclaredEncoding{"8D}%
4199 \DeclareTextSymbol\cyroery\LastDeclaredEncoding{"AD}%
4200 \DeclareTextSymbol\CYROHSN\LastDeclaredEncoding{"8E}%
4201 \DeclareTextSymbol\cyrohsn\LastDeclaredEncoding{"AE}%
4202 \DeclareTextSymbol\CYROOCDOT\LastDeclaredEncoding{"8F}%
4203 \DeclareTextSymbol\cyroocdot\LastDeclaredEncoding{"AF}%
4204 \DeclareTextSymbol\CYROOCDDOT\LastDeclaredEncoding{"90}%
4205 \verb|\DeclareTextSymbol\cyroocddot\LastDeclaredEncoding{"B0}\% |
4206 \DeclareTextSymbol\CYRVIZH\LastDeclaredEncoding{"91}%
4207 \DeclareTextSymbol\cyrvizh\LastDeclaredEncoding{"B1}%
4208 \DeclareTextSymbol\CYRPPETER\LastDeclaredEncoding{"92}%
4209 \DeclareTextSymbol\cyrppeter\LastDeclaredEncoding{"B2}%
4210 \DeclareTextSymbol\CYRTPETER\LastDeclaredEncoding{"93}%
4211 \DeclareTextSymbol\cyrtpeter\LastDeclaredEncoding{"B3}%
4212 \DeclareTextSymbol\CYRZELOM\LastDeclaredEncoding{"94}%
4213 \DeclareTextSymbol\cyrzelom\LastDeclaredEncoding{"B4}%
4214 \DeclareTextAccent\F\LastDeclaredEncoding{"00}%
4215 \DeclareTextAccent\C\LastDeclaredEncoding{"01}%
4216 \DeclareTextAccent\U\LastDeclaredEncoding{"02}%
4217 \DeclareTextSymbol\cyrdash\LastDeclaredEncoding{"16}%
4218 \DeclareTextAccent\CYRtitlo\LastDeclaredEncoding{"05}%
4219 \DeclareTextAccent\CYRpalatal\LastDeclaredEncoding{"06}%
4220 \DeclareTextAccent\CYRpaerok\LastDeclaredEncoding{"07}%
4221 \DeclareTextAccent\CYRkamora\LastDeclaredEncoding{"17}%
4222 \DeclareTextAccent\CYRpsili\LastDeclaredEncoding{"1B}%
4223 \DeclareTextAccent\CYRdasia\LastDeclaredEncoding{"1C}%
4224 \DeclareTextAccent\CYRzvat\LastDeclaredEncoding{"1D}%
4225 \DeclareTextAccent\CYRpneuac\LastDeclaredEncoding{"1E}%
4226 \DeclareTextAccent\CYRpneugrav\LastDeclaredEncoding{"1F}%
4227 \DeclareTextAccent\CYRthousands\LastDeclaredEncoding{"9E}%
4228 \DeclareTextAccent\CYRaccte\LastDeclaredEncoding{"08}%
4229 \DeclareTextAccent\CYRtma\LastDeclaredEncoding{"09}%
4230 \DeclareTextAccent\CYRlegion\LastDeclaredEncoding{"OA}%
4231 \DeclareTextAccent\CYRleodr\LastDeclaredEncoding{"OB}%
4232 \DeclareTextAccent\CYRvran\LastDeclaredEncoding{"OC}%
```

```
4233 \DeclareTextAccent\CYRkoloda\LastDeclaredEncoding{"0E}%
4234 \DeclareTextAccent\CYRtmatem\LastDeclaredEncoding{"0F}%
4235 \DeclareTextAccent\CYRvzvat\LastDeclaredEncoding{"10}%
4236 \DeclareTextAccent\CYRvdasia\LastDeclaredEncoding{"11}%
4237 \DeclareTextAccent\CYRvpsili\LastDeclaredEncoding{"11}%
4238 \DeclareTextAccent\CYRvpneuac\LastDeclaredEncoding{"13}%
4239 \DeclareTextAccent\CYRvpneugrav\LastDeclaredEncoding{"14}%
4240 \DeclareTextSymbol\CYRNASH\LastDeclaredEncoding{"4F}%
4241 \DeclareTextSymbol\cyrnash\LastDeclaredEncoding{"6F}%
4242 %
4243 \( /xsenc.def \)
```

4.41 File xscmr.fd

```
4244 (*xscmr.fd)
4245 \ProvidesFile{xscmr.fd}
4246 [Experimental XS cmr]
4247 \providecommand{\EC@family}[5]{%
      \DeclareFontShape{#1}{#2}{#3}{#4}%
4249
     {<5><6><7><8><9><10><10.95><12><14.4>%
       <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
4250
4251 \DeclareFontFamily{XS}{cmr}{}
4252 \ECOfamily{XS}{cmr}{m}{n}{rsrm}
4253 \ECOfamily{XS}{cmr}{m}{sl}{rssl}
4254 \ECOfamily{XS}{cmr}{m}{it}{rsti}
4255 \ECOfamily{XS}{cmr}{m}{sc}{rscc}
4256 \ECOfamily{XS}{cmr}{bx}{n}{rsbx}
4257 \EC@family{XS}{cmr}{b}{n}{rsrb}
4258 \EC@family{XS}{cmr}{bx}{it}{rsbi}
4259 \ECQfamily{XS}{cmr}{bx}{sl}{rsbl}
4260 \EC@family{XS}{cmr}{bx}{sc}{rsxc}
4261 \EC@family{XS}{cmr}{m}{ui}{rsui}
4262 %
4263 (/xscmr.fd)
```

4.42 File ucshyper.sty

```
4264 (*ucshyper.sty)
4265 \ProvidesPackage{ucshyper}[2002/03/05
4266
        UCS: Unicode in Hyperref's PDF bookmarks]%
4267 \ifx\pdfoutput\undefined
      \PackageWarning{ucshyper}{ucshyper needs to be run with
4268
        pdflatex.\MessageBreak Disabling functionality}%
4269
4270
      \expandafter\endinput\fi
4271 \RequirePackage[pdftex,unicode]{hyperref}
4272 %
4273 \newif\ifucshyper@prerender\ucshyper@prerendertrue
4274 \newif\ifucshyper@direct\ucshyper@directtrue
4275 \DeclareOption{nodirect}{\ucshyper@directfalse}%
4276 \DeclareOption{direct}{\ucshyper@directtrue}%
```

```
4277 \DeclareOption{noprerender}{\ucshyper@prerenderfalse}%
4278 \DeclareOption{prerender}{\ucshyper@prerendertrue}%
4279 \ProcessOptions*%
4280 %
4281 \newcommand\UCSPU@tmp{}%
4282 \newcommand\UCSPU[1] {%
      \begingroup\let\UCSPU@tmp\relax\relax\ifx\UCSPU@tmp\relax
4284
        \ifx\utf@viii@map\undefined\else
          \expandafter\utf@viii@map\expandafter{\number#1}\fi
4285
        \ifnum#1>"FFFF
4286
          \PackageError{ucshy}{UCSPU does not support codes greater than
4287
            \number"FFFF}\fi
4288
        \@tempcntb#1\divide\@tempcntb by'40000
4289
4290
        \edef\uc@temp@a{\@backslashchar\number\@tempcntb}%
        \multiply\@tempcntb by'40000 \@tempcnta#1\advance\@tempcnta by-\@tempcntb
4291
        \@tempcntb\@tempcnta\divide\@tempcntb by'4000
4292
        \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4293
        \multiply\@tempcntb by'4000\advance\@tempcnta by-\@tempcntb
4294
4295
        \@tempcntb\@tempcnta\divide\@tempcntb by'400
4296
        \edef\uc@temp@a{\uc@temp@a\number\@tempcntb\@backslashchar}%
4297
        \multiply\@tempcntb by'400\advance\@tempcnta by-\@tempcntb
        \@tempcntb\@tempcnta\divide\@tempcntb by'100
4298
        \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4299
        \multiply\@tempcntb by'100\advance\@tempcnta by-\@tempcntb
4300
        \@tempcntb\@tempcnta\divide\@tempcntb by'10
4301
        \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4302
        \multiply\@tempcntb by'10\advance\@tempcnta by-\@tempcntb
4303
4304
        \@tempcntb\@tempcnta
        \expandafter\xdef\csname UCS2PU\number#1\endcsname{%
4305
          \uc@temp@a\number\@tempcntb}%
4306
       \typeout{UCS2PU: \number#1 -> \uc@temp@a\number\@tempcntb}%
4307 %
4308
      \fi\endgroup
4309 }
4310 \newcommand\ucspu@err[1]{%
      \csname[*** Insert \string\UCSPU{\number#1}
4311
      into preamble ***]\endcsname}
4313 \verb|\diffundefined{pdfstringdefPreHook}{\label{let-pdfstringdefPreHook}(empty){}} \\
4314 \g@addto@macro\pdfstringdefPreHook{%
      \ifucshyper@direct
4315
        \let\old@unichar\unichar
4316
4317
        \def\unichar#1{%
          \expandafter\ifx\csname UCS2PU\number#1\endcsname\relax
4318
            \ucspu@err{#1}\old@unichar{#1}\else
4319
            \csname UCS2PU\number#1\endcsname\fi
4320
4321
          }%
4322
      \fi
4323
      \let\selectfont\empty
      \let\fontencoding\@gobble
4324
      \let\selectlanguage\@gobble
4325
      \let\foreignlanguage\@gobble
4326
```

```
4327
       }
4328 \verb|\let\ucshyper@old@pdfstringdef\pdfstringdef|
4329 \def\pdfstringdef#1#2{%
       \ifucshyper@prerender
4330
4331
          \begingroup
4332
            \let\old@unichar\unichar
4333
            \let\uc@output\@gobbletwo
4334
            \fontencoding{PU}\enc@update
            \def\unichar##1{\old@unichar{##1}\UCSPU{##1}}%
4335
            \left(0\right)\
4336
            \left( \frac{1}{\left( \frac{1}{x} \right)} \right)
4337
4338
            \edef\2{\string\2}%
4339
            \left(\frac{3}{\left(\frac{3}{\pi}\right)}\right)
            \left(8\left(string\8\right)\right)
4340
            \left(\frac{9}{\left(\frac{9}{\pi}\right)}\right)
4341
            \Hy@pdfstringtrue
4342
            \PrerenderUnicode{#2}%
4343
4344
          \endgroup
4345
       \fi
4346
       \ucshyper@old@pdfstringdef{#1}{#2}}
4347 \newcommand\UCSPUrange[2]{%
       \count255=#1\relax
4348
       \loop\ifnum\count255>#2\relax\else
4349
          \UCSPU{\count255}%
4350
4351
          \advance\count255 by1\relax
4352
       \repeat}
4353 \@onlypreamble\UCSPUrange
4354 %
4355 (/ucshyper.sty)
```

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

```
1344, 1348, 1367, 1377, 1385,
         Symbols
\! ..... 664, 680, 692, 700
                             1395, 1404, 1413, 1418, 1464,
 1859, 1906, 1986, 2778, 2910, 3796
                           1160, 1331, 1335, 1352, 1356,
    1904, 2776, 2908, 3527, 3529, 3799
                         \< ..... 1901, 2773, 2905
\$ ..... 649, 1897, 2769, 2901
                            ..... 1900, 2772, 2904
                         \>
                           \@ . . 2, 658, 866, 1052, 1062, 1068, 3420
\& ..... 651
                         \@@input ..... 113, 3004, 3005, 3007
  . . . . . . . . . . . . . . . 666, 1166,
    1269, 1286, 1301, 1320, 1324,
                         \@@textascii ..... 1124, 1125
```

\@backslashchar	\@tempa 3005, 3022, 3029, 3030,
1070, 1071, 1099, 1102, 4290, 4296	$3035,\ 3041,\ 3042,\ 3044,\ 3047,\ 3048$
\@eha 574, 576, 578, 580, 582, 584	\@tempb 3005
\@empty 818, 4313	\@tempcnta
\@firstofone $\dots 7, 48, 625, 631$	8, 636, 641–643, 781–783, 785,
\@firstoftwo 738, 1130, 1572, 3005	787, 788, 792, 795, 797, 808-
\@font@info	811, 1073, 3421, 3425–3427,
1637, 1638, 1640, 3493, 3494, 3496	$3434, \ 3437 – 3439, \ 3441, \ 3445 –$
\@font@warning	3447, 3449, 3454, 3455, 3457,
1635, 1636, 1639, 3491, 3492, 3495	3459, 4291, 4292, 4294, 4295,
\Quad	4297, 4298, 4300, 4301, 4303, 4304
\Quad	\@tempcntb 9, 637, 641,
\Ogobble 3, 13, 211, 213, 235, 477, 536,	786, 790, 796, 1074, 3422, 3428–
539, 540, 848, 867, 937, 1023, 1071, 1617, 3005, 3480, 4324, 4326	3430, 3432, 4289–4304, 4306, 4307
1071, 1617, 3005, 3489, 4324-4326 \Qgobblefour 6, 250, 281, 308, 335	\@tempdimb 1628, 1630
\@gobblethree 5, 549, 553, 555	\@temptokena
\@gobbletwo 4, 213, 868, 938, 1569, 4333	. 471, 473, 825, 830, 832, 840, 843
\@hfont@enc	\@testopt 10, 11, 13
\@hfontadapt 3533, 3547	\Otext@composite 1128, 1129, 1131, 1132
\@hfontadapt@ 3538, 3553	\@textascii 1123, 1124, 1459
\@ifnch 19-21	\OtextasciiOswitch
$\c \c \$	1127, 1137, 2033, 2034, 3050, 3615
$\verb \@ifpackageloaded \dots 101, 1646, 1648 $	\@typeset@protect 46, 47, 458, 470, 630
\@ifstar 536	\@uclclist 1437, 1439, 1440
\@ifundefined 3551, 4313	\@ucsutils 749, 752, 756, 852, 853
\@inpenc@test 951	\@ucsutils@section
\@inpenc@undefined	
\@inpenc@undefined@	\Qunistring 823, 835, 841
\@inputcheck	\@use@text@encoding 1127
574, 576, 578, 580, 582, 584	\0xifnch 23
\@let@token 19, 22, 25	\[
\@ne 369, 370,	\\ 63–65, 230, 652, 753, 756, 814,
499, 500, 513, 515, 530, 643,	845, 1018, 1071, 1893, 2765, 2897
690, 696, 808, 811, 828, 841,	\{ 230, 655, 1018, 1895, 2767, 2899
1082, 1084, 1085, 1088, 1697, 1812	\} 230, 656, 1018, 1896, 2768, 2900
\@nil 239, 244, 275,	\]
306, 333, 605, 612, 615, 804,	\^ 73, 81, 653, 659–662, 675–677,
880, 889, 890, 896–898, 907–	1063, 1072, 1891, 2763, 2895, 3797
909, 952, 953, 1029, 1030, 1038,	\
1124, 1125, 1235, 1236, 3540, 3553	\' 669, 1215, 1264, 1280, 1296, 1312,
\@nodocument 870, 875, 1025	1316, 1336, 1340, 1366, 1376,
\@onlypreamble 4353	1384, 1394, 1405, 1412, 1419, 1463, 1005, 1085, 2777, 2000, 3705
\Quad \Quad \Quad	1463, 1905, 1985, 2777, 2909, 3795
\\Q\(\text{QprotectedQtestopt} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\\ \ \ \ 670, 1894, 2766, 2898 \\ \ \ \ 657,
\(\text{@sptoken}\) \(\) \(\text{736}\), \(\text{130}\), \(\text{1314}\), \(\text{3003}\)	803, 929, 960, 1034, 1262, 1274,
\@sverb 820	1291, 1306, 1328, 1332, 1462,
\@tabacckludge . 1167, 1249, 1250, 1255	1511–1514, 1892, 2764, 2896, 3798
3	, , , , ,

Numbers	\autofe@parse@declaretextcommand@ad
\0 1860, 4336	
\1	\autofe@parse@declaretextcommand@dd
,	
\2 1862, 4338	
\3 1863, 4339	\autofe@ProvideTextCommand
\4 1864	\dots 1530, 1531, 1546, 1551, 1561
\5 1865	_
\6 1866	В
\7 1867	\B 230, 976, 988,
\8 1868, 4340	1005, 1018, 1467, 1468, 1502, 1503
\9 1869, 4341	\b 1835
,	\begingroup 184, 208,
	229, 448, 511, 529, 538, 586,
\	803, 887, 921, 928, 935, 959,
\[\(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	968, 975, 987, 1004, 1017, 1027,
\mathbf{A}	
	1127, 1566, 3424, 3535, 4283, 4331
\A	\bgroup 807
\a 673, 1834	
\active 802, 927, 958	C
\advance $148, 150, 154, 643,$	\C 230, 989, 1006, 1018, 1836, 3809, 4215
782, 788, 795–797, 811, 893,	\catcode $\dots \dots 2,647-663,$
894, 902, 904, 905, 914, 916,	671, 674, 678, 680, 692, 700,
918, 919, 948, 965, 973, 974,	757, 802, 855, 866, 927, 958,
982, 984, 986, 994, 996, 999,	1035, 1052, 1062–1066, 1068,
1002, 1003, 1033, 1041, 1686,	1069, 1072–1075, 1120, 1121, 3420
1687, 1691, 1714, 1715, 1722,	\char 790, 1235, 1236, 1370, 1372,
3426, 3429, 3438, 3446, 3455,	1374, 1380, 1382, 1388, 1390,
4291, 4294, 4297, 4300, 4303, 4351	1392, 1398, 1400, 1402, 1408,
\aftergroup 738, 1047	1410, 1422, 1424, 1426, 1430,
\AtBeginDocument 101,	1432, 1434, 1459, 1561, 1697,
126, 135, 139, 140, 716, 717,	1812, 1908–1910, 1964, 1966–
	1981, 1983–1986, 1997, 1998,
869, 870, 1024, 1026, 1647, 3526	, , , , , , , , , , , , , , , , , , , ,
\AtEndDocument	2912-2914, 2964-2979, 3223-
\AtEndOfPackage 132, 874, 875	3242, 3377–3396, 3471, 3573,
\autofe@add@fe 1584, 1589, 1596	3576, 3578, 3582, 3584, 3589,
\autofe@DeclareTextCommand 1528, 1529	3612, 3613, 3617, 3623, 3625
\autofe@DeclareTextSymbol	\ci 619, 621
1532, 1560, 1562	\CJK@@empty 1606, 1635-1638
\autofe@defdef	\CJK@@sub 1612, 1639, 1640
\dots 1546, 1551, 1556, 1561, 1565	\cjk@Cforty 1682, 1701, 1703
\autofe@mode 1122, 1526, 1546,	\cjk@Cfrttw 1718, 1816, 1818
1551, 1556, 1561, 1571, 1585–1588	\cjk@Cfrttw@ 1713, 1723
\autofe@options	\CJK@DNP 1626, 1643, 1644
1583–1588, 1592, 1593, 1595	\CJK@DNPgen 1619, 1641, 1642
\autofe@parse@declaretextcommand	\CJK@plane 1604,
1529, 1531, 1534	1607, 1608, 1611, 1620, 1622,
\autofe@parse@declaretextcommand@a	1607, 1606, 1611, 1626, 1622, 1625, 1627, 1630, 1633, 1651,
\autofe@parse@declaretextcommand@aa	1695, 1696, 1703, 1810, 1811, 1818
•	\CJKresetplane 1651
	\closein 37

combine (option)	\cyrd 3682
\count 145, 146, 148–155, 157,	\cyrdash 3811, 4217
173–175, 490, 491, 602–604,	\CYRdasia 3825, 4223
866, 882, 885, 888, 891–894,	\CYRDZE
899–905, 910–919, 921, 923,	\cyrdze 3740, 4127
925–927, 929, 934, 944, 947,	\CYRE
948, 956–958, 960, 964, 965,	\cyre 3684
969, 973, 974, 976, 980, 982–	\CYREPS
986, 988, 989, 992, 994–1003,	\cyreps
1005–1007, 1010, 1030–1035,	\CYREREV
1040, 1041, 1043, 1044, 1052,	\cyrerev 3732
1684–1694, 1697, 1714–1716,	\CYRERY 3727
1721, 1722, 1724, 1812, 4348–4351	\cyrery 3728
\countdef 587, 683	\CYRF 3713
\csname 8, 9, 51, 52, 54, 55, 57, 58, 60,	\cyrf 3714
89–94, 105, 108, 206, 223, 241,	\CYRFITA 3777, 4166
245, 248, 252–254, 258, 276,	\cyrfita 3778, 4167
279, 283–285, 289, 310–312,	\CYRG 3679
316, 337–339, 343, 365, 366,	\cyrg 3680
368, 386, 389, 456, 492, 496,	\CYRGERV 3759, 4148
498, 513, 515, 530, 552, 554,	\cyrgerv 3760, 4149
564–566, 568, 569, 751, 864,	\CYRH 3715
865, 934, 947, 980, 992, 1010,	\cyrh 3716
1053, 1061, 1090, 1099, 1119,	\CYRHRDSN 3725
1610, 1613, 1614, 1624, 1632,	\cyrhrdsn 3726
1665, 1673, 1681, 1712, 1827,	\CYRI 3689
3019, 3020, 3023, 3025, 3027,	\cyri 3690
$3028,\ 3032,\ 3033,\ 3036,\ 3038-$	\CYRIAZ 3753, 4142
3040, 3045, 3421, 3422, 3462,	\cyriaz 3754, 4143
3463, 3465, 3480, 3482, 3483,	\CYRIE 3747, 4138
3485, 3486, 3530, 3531, 3533,	\cyrie 3748, 4139
3539, 3543, 4305, 4311, 4318, 4320	\CYRII 4122
\curr@fontshape 1610, 1624, 1632, 3483	\cyrii 4123
\CurrentOption 133, 751, 1589	\CYRIOTBYUS 3789, 4178
\CYRA 3673	\cyriotbyus
\cyra	\CYRIOTEST 3791, 4180
\CYRaccte	\cyriotest 3792, 4181
\CYRAZ 3751, 4140	\CYRIOTLYUS 3757, 4146
\cyraz 3752, 4141	\cyriotlyus
\CYRB	\CYRISHRT 3691
\cyrb	\cyrishrt 3692
\CYRBYUS 3743, 4130	\CYRIZH 3745, 4132
\cyrbyus 3744, 4131	\cyrizh 3746, 4133
\CYRC	\CYRIZHDGR
\CYRCH	\CYRIZHE 3767, 4156
\cyrch	\cyrizhe
\CYRCHERV 3720	\CYRIZHUML 4194
\cyrcherv	\cyrizhuml
\CYRD	\CYRJE
/01100 9001	(0111011

\	\avp. 2 . 2
\cyrje	\CYRpalatal 3821, 4219
\CYRK 3693	\CYRpneuac 3827, 4225
\cyrk 3694	\CYRpneugrav 3828, 4226
\CYRkamora 3823, 4221	\CYRPPETER 4208
\CYRkoloda 4233	\cyrppeter 4209
\CYRKOPPA 3779, 4168	\CYRPSI 3785, 4174
\cyrkoppa 3780, 4169	\cyrpsi 3786, 4175
\CYRKSI 3763, 4152	$\verb \CYRpsili 3824, 4222 $
\cyrksi 3764, 4153	\CYRR 3705
\CYRL 3695	\cyrr 3706
\cyrl 3696	\cyrrangle 3807
\cyrlangle 3806	\CYRS 3707
\CYRlegion 4230	\cyrs 3708
\CYRleodr 4231	\CYRSFTSN 3729
\CYRLYUS 3755, 4144	\cyrsftsn 3730
\cyrlyus 3756, 4145	\CYRSH 3721
\CYRM 3697	\cyrsh 3722
\cyrm 3698	\CYRSHCH 3723
\CYRN 3699	\cyrshch 3724
\cyrn 3700	\CYRSHTA 3787, 4176
\CYRNARROWE 3793, 4182	\cyrshta 3788, 4177
\cyrnarrowe 3794, 4183	\CYRT 3709
\CYRNASH 3830, 4240	\cyrt 3710
\cyrnash 3831, 4241	\CYRthousands 3829, 4227
\CYRNG 4136	\CYRtitlo 3820, 4218
\cyrng 4137	\CYRtma 4229
\CYRNo 3815	\CYRtmatem 4234
\CYRO 3701	\CYRTPETER 4210
\cyro 3702	\cyrtpeter 4211
\CYROERY 4198	\CYRU 3711
\cyroery 4199	\cyru 3712
\CYROHSN 4200	\CYRUK 3781, 4170
\cyrohsn 4201	\cyruk 3782, 4171
\CYROLG 4196	\CYRV 3677
\cyrolg 4197	\cyrv 3678
\CYROMGA 3769, 4158	\CYRVARIZHE 3765, 4154
\cyromga 3770, 4159	\cyrvarizhe 3766, 4155
\CYROMRND 3771, 4160	\CYRVARUK 4186
\cyromrnd 3772, 4161	\cyrvaruk 4187
\CYROMTLO 3775, 4164	\CYRvdasia 4236
\cyromtlo 3776, 4165	\CYRVIA 4188
\CYROOCDDOT 4204	\cyrvia 4189
\cyroocddot 4205	\CYRVIZH 4206
\CYROOCDOT 4202	\cyrvizh 4207
\cyroocdot 4203	\CYRVLYUS 4190
\CYROT 3773, 4162	\cyrvlyus 4191
\cyrot 3774, 4163	\CYRvpneuac
\CYRP 3703	\CYRvpneugrav 4239
\cyrp 3704	\CYRvpsili 4237
\CYRpaerok 3822, 4220	\CYRvran 4232

```
\DeclareRobustCommand .... 804, 838
\CYRvzvat ..... 4235
\CYRYA ..... 3735
                                    \DeclareSizeFunction .....
                                          \ldots \ldots 1635 – 1644,\ 3491 – 3496
\cyrya ..... 3736
\CYRYAT ..... 3741, 4128
                                    \DeclareTextAccent ..... 1085,
\cyryat ..... 3742, 4129
                                         1156-1158, 1160, 1161, 1163,
\CYRYI ..... 4134
                                         1166, 1179, 1181, 1183, 1186,
\cyryi .... 4135
                                         1205, 1211, 1213-1215, 1262,
\CYRYO ..... 3737
                                         1517, 3795–3805, 3808–3810,
\cyryo .....
                                         3820 - 3829, 4214 - 4216, 4218 - 4239
                              3738
\CYRYU .....
                              3733
                                    \DeclareTextCommand ..... 1084,
                                         1137, 1162, 1167, 1236, 1246-
\cyryu ..... 3734
\CYRZ .... 3687
                                         1257, 1459, 1467-1510, 1528,
\cyrz ..... 3688
                                         1529, 1701, 1816, 1908-1910,
\CYRZELO ..... 4184
                                         1964, 1966–1981, 1983–1986,
                                         1997, 1998, 2033, 2034, 2036,
\cyrzelo ..... 4185
\CYRZELOM ..... 4212
                                         2038, 2040, 2042, 2044, 2046,
\cyrzelom ..... 4213
                                         2048, 2050, 2052, 2054, 2056,
                                         2058, 2060, 2062, 2064, 2066,
\CYRZEMLA ..... 3761, 4150
                                         2068, 2070, 2072, 2074, 2076,
\cyrzemla ..... 3762, 4151
\CYRZH ..... 3685
                                         2078, 2080, 2082, 2084, 2086,
\cyrzh ..... 3686
                                         2088, 2090, 2092, 2094, 2096,
                                         2098, 2100, 2102, 2104, 2106,
\CYRzvat ..... 3826, 4224
                                         2108, 2110, 2112, 2114, 2116,
                \mathbf{D}
                                         2118, 2120, 2122, 2124, 2126,
\D ..... 1007, 1837
                                         2128, 2130, 2132, 2134, 2136,
\dagesh ..... 3599, 3617-3626
                                         2138, 2140, 2142, 2144, 2146,
\dec ..... 171, 177
                                         2148, 2150, 2152, 2154, 2156,
\DeclareFontEncoding .... 1662,
                                         2158, 2160, 2162, 2164, 2166,
      1670, 1678, 1709, 1824, 1832,
                                         2168, 2170, 2172, 2174, 2176,
      1882, 2029, 2031, 2754, 2884,
                                         2178, 2180, 2182, 2184, 2186,
     3002, 3305, 3476, 3560, 3671, 4120
                                         2188, 2190, 2192, 2194, 2196,
\DeclareFontFamily 1874, 2016, 2022,
                                         2198, 2200, 2202, 2204, 2206,
      2729, 2730, 2737, 2738, 2745,
                                         2208, 2210, 2212, 2214, 2216,
      2746, 2871, 2877, 2996, 3252,
                                         2218, 2220, 2222, 2224, 2226,
     3402, 3408, 3414, 3512, 3518,
                                         2228, 2230, 2232, 2234, 2236,
                                         2238, 2240, 2242, 2244, 2246,
     3632, 3643, 3653, 3660, 3841, 4251
                                         2248, 2250, 2252, 2254, 2256,
\DeclareFontShape 1875, 1876, 2017,
      2023, 2731, 2732, 2739, 2740,
                                         2258, 2260, 2262, 2264, 2266,
      2747, 2748, 2872, 2878, 2997,
                                         2268, 2270, 2272, 2274, 2276.
      2998, 3253, 3257, 3266, 3268,
                                         2278, 2280, 2282, 2284, 2286,
      3281, 3283, 3288, 3293, 3295,
                                         2288, 2290, 2292, 2294, 2296,
      3297, 3299, 3403, 3409, 3415,
                                         2298, 2300, 2302, 2304, 2306,
      3513, 3519, 3633-3637, 3644-
                                         2308, 2310, 2312, 2314, 2316,
     3647, 3654, 3661, 3662, 3838, 4248
                                         2318, 2320, 2322, 2324, 2326,
\DeclareFontSubstitution ... 1663,
                                         2328, 2330, 2332, 2334, 2336,
      1671, 1679, 1710, 1825, 1833,
                                         2338, 2340, 2342, 2344, 2346,
      1883, 2030, 2032, 2755, 2885,
                                         2348, 2350, 2352, 2354, 2356,
      3003, 3306, 3477, 3561, 3672, 4121
                                         2358, 2360, 2362, 2364, 2366,
\DeclareOption .... 130-133,
                                         2368, 2370, 2372, 2374, 2376,
      746, 750, 1585–1589, 4275–4278
                                         2378, 2380, 2382, 2384, 2386,
```

```
2388, 2390, 2392, 2394, 2396,
                                                 1269-1272, 1274-1276, 1280-
       2398, 2400, 2402, 2404, 2406,
                                                 1282, 1286-1289, 1291-1294,
       2408, 2410, 2412, 2414, 2416,
                                                 1296-1299, 1301-1304, 1306-
       2418, 2420, 2422, 2424, 2426,
                                                 1308,\ 1312 – 1359,\ 1361,\ 1362,\ 3616
       2428, 2430, 2432, 2434, 2436,
                                          \DeclareTextCompositeCommand ...
       2438, 2440, 2442, 2444, 2446,
                                                 . . . . . . . . . . . . . . . 1086, 1366-
       2448, 2450, 2452, 2454, 2456,
                                                 1436, 1462–1464, 1511–1514,
       2458, 2460, 2462, 2464, 2466,
                                                 3026, 3060, 3062, 3064, 3066,
       2468, 2470, 2472, 2474, 2476,
                                                 3068, 3070, 3072, 3074, 3076,
       2478, 2480, 2482, 2484, 2486,
                                                 3078, 3080, 3082, 3084, 3086,
       2488, 2490, 2492, 2494, 2496,
                                                 3088, 3090, 3092, 3094, 3096,
       2498, 2500, 2502, 2504, 2506,
                                                 3098, 3100, 3102, 3104, 3106,
       2508, 2510, 2512, 2514, 2516,
                                                 3108, 3110, 3112, 3114, 3116,
       2518, 2520, 2522, 2524, 2526,
                                                 3118, 3120, 3122, 3124, 3126,
       2528, 2530, 2532, 2534, 2536,
                                                 3128, 3130, 3132, 3134, 3617-3626
       2538, 2540, 2542, 2544, 2546,
                                          \DeclareTextSymbol 1082, 1138-1143,
       2548, 2550, 2552, 2554, 2556,
                                                 1147, 1148, 1150, 1151, 1153-
       2558, 2560, 2562, 2564, 2566,
                                                 1155, 1164, 1165, 1168, 1169,
       2568, 2570, 2572, 2574, 2576,
                                                 1178, 1182, 1184, 1185, 1187-
       2578, 2580, 2582, 2584, 2586,
                                                 1204, 1206-1209, 1216-1234,
       2588, 2590, 2592, 2594, 2596,
                                                 1237, 1238, 1240-1244, 1261,
       2598, 2600, 2602, 2604, 2606,
                                                 1263, 1277, 1309, 1364, 1365,
       2608, 2610, 2612, 2614, 2616,
                                                 1458, 1515, 1516, 1532, 1559,
       2618, 2620, 2622, 2624, 2626,
                                                 1834-1869, 1884-1907, 1911-
       2628, 2630, 2632, 2634, 2636,
                                                 1963, 1965, 1982, 1987–1996,
       2638, 2640, 2642, 2644, 2646,
                                                 1999-2011, 2035, 2037, 2039,
       2648, 2650, 2652, 2654, 2656,
                                                 2041, 2043, 2045, 2047, 2049,
       2658, 2660, 2662, 2664, 2666,
                                                 2051, 2053, 2055, 2057, 2059,
       2668, 2670, 2672, 2674, 2676,
                                                 2061, 2063, 2065, 2067, 2069,
       2678, 2680, 2682, 2684, 2686,
                                                 2071, 2073, 2075, 2077, 2079,
       2688, 2690, 2692, 2694, 2696,
                                                 2081, 2083, 2085, 2087, 2089,
       2698, 2700, 2702, 2704, 2706,
                                                 2091, 2093, 2095, 2097, 2099,
       2708, 2710, 2712, 2714, 2716,
                                                 2101, 2103, 2105, 2107, 2109,
       2718, 2720, 2722, 2724, 2886,
                                                 2111, 2113, 2115, 2117, 2119,
       2887, 2912–2914, 2964–2979,
                                                 2121, 2123, 2125, 2127, 2129,
       3011, 3016, 3023, 3036, 3039,
                                                 2131, 2133, 2135, 2137, 2139,
       3045, 3050-3057, 3059, 3061,
                                                 2141, 2143, 2145, 2147, 2149,
       3063, 3065, 3067, 3069, 3071,
                                                 2151, 2153, 2155, 2157, 2159,
       3073, 3075, 3077, 3079, 3081,
                                                 2161, 2163, 2165, 2167, 2169,
       3083, 3085, 3087, 3089, 3091,
                                                 2171, 2173, 2175, 2177, 2179,
       3093, 3095, 3097, 3099, 3101,
                                                 2181, 2183, 2185, 2187, 2189,
       3103, 3105, 3107, 3109, 3111,
                                                 2191, 2193, 2195, 2197, 2199,
       3113, 3115, 3117, 3119, 3121,
                                                 2201, 2203, 2205, 2207, 2209,
       3123, 3125, 3127, 3129, 3131,
                                                 2211, 2213, 2215, 2217, 2219,
       3133, 3174–3205, 3223–3232,
                                                 2221, 2223, 2225, 2227, 2229,
       3377-3396, 3499, 3500, 3563-
                                                 2231, 2233, 2235, 2237, 2239.
       3589, 3593, 3594, 3599–3613, 3615
                                                 2241, 2243, 2245, 2247, 2249,
\DeclareTextCommandDefault 1702, 1817
                                                 2251, 2253, 2255, 2257, 2259,
\DeclareTextComposite .....
                                                 2261, 2263, 2265, 2267, 2269,
                                                 2271, 2273, 2275, 2277, 2279,
       . 1083, 1258–1260, 1264–1267,
```

```
2281, 2283, 2285, 2287, 2289,
                                  \DeclareUnicodeCharacter ... 541, 707
2291, 2293, 2295, 2297, 2299,
                                  \DeclareUnicodeCharacterAsOptional
2301, 2303, 2305, 2307, 2309,
                                         2311, 2313, 2315, 2317, 2319,
                                  \DeclareUnicodeOption 49, 114-118, 120
2321, 2323, 2325, 2327, 2329,
                                  \DeclareUnicodeOption@ .... 68, 69
2331, 2333, 2335, 2337, 2339,
                                  \def ..... 3-7, 11, 13, 15, 17, 18,
2341, 2343, 2345, 2347, 2349,
                                        21, 34, 36, 37, 42, 47, 49, 50, 52,
2351, 2353, 2355, 2357, 2359,
                                        55, 58, 60, 67, 73, 81, 87, 89, 91,
2361, 2363, 2365, 2367, 2369,
                                        92, 100, 125, 129, 131, 144, 160,
2371, 2373, 2375, 2377, 2379,
                                        169, 171, 408, 444, 445, 456,
2381, 2383, 2385, 2387, 2389,
                                        465, 517, 563, 566, 588, 589,
2391, 2393, 2395, 2397, 2399,
                                        592, 595, 600, 615, 620, 624,
2401, 2403, 2405, 2407, 2409,
                                        627, 630, 635, 640, 663, 671,
2411, 2413, 2415, 2417, 2419,
                                        674, 715, 717, 736, 737, 756,
2421, 2423, 2425, 2427, 2429,
                                        757, 760, 762, 763, 765–767,
2431, 2433, 2435, 2437, 2439,
                                        771, 773, 801, 816, 822, 823,
2441, 2443, 2445, 2447, 2449,
                                        845, 867, 868, 877, 880, 886,
2451, 2453, 2455, 2457, 2459,
                                        924, 950, 967, 1022, 1028, 1076,
2461, 2463, 2465, 2467, 2469,
                                        1078, 1081, 1089, 1098, 1107,
2471, 2473, 2475, 2477, 2479,
                                        1109, 1111, 1119, 1124-1127,
2481, 2483, 2485, 2487, 2489,
                                        1129, 1235, 1438, 1439, 1457,
2491, 2493, 2495, 2497, 2499,
                                        1529, 1531, 1534, 1538, 1544,
2501, 2503, 2505, 2507, 2509,
                                        1549, 1554, 1559, 1565, 1567,
2511, 2513, 2515, 2517, 2519,
                                        1583, 1584, 1606, 1607, 1612,
2521, 2523, 2525, 2527, 2529,
                                        1619, 1620, 1626, 1627, 1651,
2531, 2533, 2535, 2537, 2539,
                                        1682, 1696, 1713, 1715, 1718,
2541, 2543, 2545, 2547, 2549,
                                        1811, 3005, 3423, 3461, 3466,
2551, 2553, 2555, 2557, 2559,
                                        3531, 3546, 3547, 4317, 4329, 4335
2561, 2563, 2565, 2567, 2569,
                                  \texttt{default} \; (\text{option}) \; \dots \dots \dots \; \underline{119}
2571, 2573, 2575, 2577, 2579,
                                  \define@key ..... 762-764, 766, 767
2581, 2583, 2585, 2587, 2589,
                                  \definition . . . . . . . 703, 705-707, 709
2591, 2593, 2595, 2597, 2599,
                                  \divide 152, 157, 174, 490, 602, 969,
2601, 2603, 2605, 2607, 2609,
                                        983, 985, 995, 997, 998, 1000,
2611, 2613, 2615, 2617, 2619,
                                        1689, 1692, 3425, 3427, 3428,
2621, 2623, 2625, 2627, 2629,
                                        3430, 3437, 3439, 3445, 3447,
2631, 2633, 2635, 2637, 2639,
                                        3454, 4289, 4292, 4295, 4298, 4301
2641, 2643, 2645, 2647, 2649,
                                  document (option) ..... <u>117</u>
2651, 2653, 2655, 2657, 2659,
                                  \doublevav ..... 3590
2661, 2663, 2665, 2667, 2669,
                                  \doubleyod ..... 3592, 3616
2671, 2673, 2675, 2677, 2679,
                                  \dteightCODE .....
                                                              3231, 3241
2681, 2683, 2685, 2687, 2689,
                                  \dtfiveCODE .....
                                                              3228, 3238
2691, 2693, 2695, 2697, 2699,
                                  \dtfourCODE .....
                                                              3227, 3237
2701, 2703, 2705, 2707, 2709,
                                  \dtnineCODE .....
                                                              3232, 3242
2711, 2713, 2715, 2717, 2719,
                                  \dtoneCODE .....
                                                              3224, 3234
2721, 2723, 2756–2866, 2888–
                                  \dtsevenCODE .....
                                                              3230, 3240
2911, 2915–2963, 2980–2991,
                                  \dtsixCODE .....
3307-3364, 3367-3376, 3590-
                                                              3229, 3239
3592, 3595–3597, 3673–3794,
                                  \dtthreeCODE .....
                                                              3226, 3236
3806, 3807, 3811–3819, 3830,
                                  \dttwoCODE .....
                                                              3225, 3235
3831, 4122–4213, 4217, 4240, 4241
                                 \dtzeroCODE .....
                                                              3223, 3233
```

```
\mathbf{E}
                                              554, 564–566, 568, 569, 751,
                                              864, 865, 934, 947, 980, 992,
\e ..... 1838
                                              1010, 1053, 1061, 1090, 1099,
\EC@family .....
       3837, 3842-3851, 4247, 4252-4261
                                              1119, 1611, 1613, 1614, 1625,
                                              1633, 1665, 1673, 1681, 1712,
\edef .... 64, 104, 176,
      177, 184, 449, 491, 567, 603,
                                              1827, 3019, 3020, 3024, 3025,
      707, 751, 778, 779, 783, 789,
                                              3027, 3028, 3032, 3033, 3037-
                                              3040, 3045, 3421, 3422, 3462,
      803, 933, 963, 1061, 1071, 1608,
                                              3463, 3465, 3480, 3482, 3483,
      1621, 1629, 1694, 1695, 1810,
      3022, 3035, 3044, 3480, 3482,
                                              3485, 3486, 3530, 3531, 3533,
      3537, 3541, 3549, 3553, 4290,
                                              3539, 3543, 4305, 4312, 4318, 4320
      4293, 4296, 4299, 4302, 4336-4341
                                       \endgroup ..... 189, 215, 233,
                                              453, 523, 534, 540, 614, 803,
\egroup ..... 818
                                              921, 922, 932, 940, 962, 978,
\else ..... 24,
      27, 37, 48, 62, 75, 83, 94, 107,
                                              991, 1009, 1015, 1021, 1049,
      110, 113, 124, 126, 130, 138,
                                              1127, 1577, 3458, 3544, 4308, 4344
      159, 199, 219, 225, 235, 247,
                                       \endinput ..... 865, 3472, 4270
                                       \endlinechar ..... 634
      251, 257, 262, 268, 278, 282,
      288, 293, 299, 309, 315, 320,
                                       \errhelp ..... 74
      326, 336, 342, 347, 353, 374,
                                       \errmessage ..... 74, 1115
      380, 391, 396, 399, 403, 407,
                                       \escapechar ..... 3536
      412, 432, 447, 450, 464, 466,
                                       \expandafter ..... 13, 48,
      479, 486, 492, 504, 510, 514,
                                              51-58, 60, 89, 91, 92, 105, 191,
      548, 553, 554, 561, 593, 608,
                                              206, 215, 221, 222, 238, 241,
      641, 685, 691, 698, 716, 738,
                                              245, 250, 255, 259, 260, 263,
      746, 757, 804, 827, 828, 831,
                                              264, 269, 276, 281, 286, 290,
      861, 864, 869, 870, 874, 875,
                                              291, 294, 295, 300, 308, 313,
      884, 895, 906, 945, 972, 981,
                                              317, 318, 321, 322, 327, 335,
      993, 1011, 1023-1025, 1030,
                                              340, 344, 345, 348, 349, 354,
      1039, 1043, 1058, 1092, 1101,
                                              366, 368, 398, 433, 434, 436-
      1110, 1121, 1122, 1125, 1130,
                                              442, 471–473, 475–478,
      1437, 1459, 1546, 1551, 1556,
                                              492, 496, 498, 513, 515, 519,
      1561, 1570, 1573, 1607, 1611,
                                              530, 552, 554, 562, 563, 565-
      1616, 1620, 1625, 1627, 1633,
                                              567, 601, 605, 609-612, 644,
      1695, 1715, 1808, 1810, 3005,
                                              683, 684, 706, 709, 752, 753,
      3467, 3469, 3488, 4284, 4319, 4349
                                              791–794, 822, 825, 830,
                                                                      832.
\empty .... 123, 143, 144, 212, 213,
                                              835, 848, 864, 865, 870, 890,
      360, 363, 450, 749, 822, 881,
                                              897, 898, 907-909, 921-923,
      890, 897, 898, 907–909, 937,
                                              934, 940, 946, 980, 992, 1010,
      938, 1124, 1125, 1452, 3012, 4323
                                              1028, 1037, 1061, 1071, 1090,
\empty@sfcnt ..... 1609, 3481
                                              1091, 1094, 1099, 1100, 1103,
                                              1109, 1111, 1119, 1124, 1130,
\enc@update ..... 4334
\encodingdefault ..... 1126
                                              1236, 1439, 1546, 1551, 1556,
\endcsname . 8, 9, 51, 53, 54, 56-58,
                                              1561, 1577, 1589, 1613, 1614,
      60, 89-94, 105, 108, 206, 223,
                                              1665, 1673, 1681, 1699, 1712,
      241, 245, 248, 252–254, 258,
                                              1723, 1814, 1827, 3005, 3019,
      276, 279, 283-285, 289, 310-
                                              3020, 3023, 3025, 3027-3029,
      312, 316, 337-339, 343, 365,
                                              3032, 3033, 3036, 3038-3041,
      367, 369, 386, 389, 456, 492,
                                              3045, 3047, 3458, 3459, 3462,
      497, 499, 513, 515, 530, 552,
                                              3463, 3485, 3486, 3530, 3531,
```

```
3533, 3539, 3543, 3552, 3553,
                                       \finalpe ..... 3623
      3555, 4270, 4285, 4305, 4318
                                       \finaltsadi ..... 3625
\external@font . 1620, 1621, 1627, 1629
                                       \font ..... 3463, 3552, 3553
                                       \font@name .... 1610, 1623, 1631, 3483
                 \mathbf{F}
                                       \fontencoding ..... 203,
\F ..... 3808, 4214
                                              1579, 1580, 1702, 1817, 2036,
\f@encoding .... 1605, 3480, 3482, 3548
                                              2038, 2040, 2042, 2044, 2046,
\f@family ..... 1236, 3549
                                              2048, 2050, 2052, 2054, 2056,
\f0series ..... 3549
                                              2058, 2060, 2062, 2064, 2066,
\f@shape .....
                                 3549
                                              2068, 2070, 2072, 2074, 2076,
\f@size ..... 1610, 1613,
                                              2078, 2080, 2082, 2084, 2086,
      1614, 1622, 1624, 1628, 1632,
                                              2088, 2090, 2092, 2094, 2096,
      3483, 3485, 3486, 3542, 3549, 3550
                                              2098, 2100, 2102, 2104, 2106,
fasterrors (option) ..... 113
                                              2108, 2110, 2112, 2114, 2116,
   2118, 2120, 2122, 2124, 2126,
      32, 38, 40, 44-46, 48, 62, 77, 85,
                                              2128, 2130, 2132, 2134, 2136,
      99, 109, 112, 113, 124, 127, 134,
                                              2138, 2140, 2142, 2144, 2146,
      139, 140, 150, 156, 161, 169,
                                              2148, 2150, 2152, 2154, 2156,
      171, 200, 224, 227, 236, 249,
                                              2158, 2160, 2162, 2164, 2166,
      266, 267, 270, 271, 280, 297,
                                              2168, 2170, 2172, 2174, 2176,
      298, 301, 302, 324, 325, 328,
                                              2178, 2180, 2182, 2184, 2186,
      329, 351, 352, 355, 356, 379,
                                              2188, 2190, 2192, 2194, 2196,
                                              2198, 2200, 2202, 2204, 2206,
      390, 393, 405, 406, 408, 409,
                                              2208, 2210, 2212, 2214, 2216,
      412, 431, 434, 453, 454, 465,
      467, 483, 487, 493, 509, 516,
                                              2218, 2220, 2222, 2224, 2226,
      526, 549, 550, 555, 557, 562,
                                             2228, 2230, 2232, 2234, 2236,
      564, 566, 597, 601, 613, 645,
                                             2238, 2240, 2242, 2244, 2246,
      685, 690, 698, 699, 738, 740,
                                             2248, 2250, 2252, 2254, 2256,
      741, 749, 755–757, 768, 777,
                                             2258, 2260, 2262, 2264, 2266,
      784, 806, 826, 833, 834, 836,
                                             2268, 2270, 2272, 2274, 2276,
      851, 863, 865, 867, 868, 870,
                                              2278, 2280, 2282, 2284, 2286,
      872, 873, 875, 876, 885, 891,
                                              2288, 2290, 2292, 2294, 2296,
      899, 900, 910-912, 920, 947,
                                              2298, 2300, 2302, 2304, 2306,
      1014, 1023, 1030, 1033, 1040,
                                              2308, 2310, 2312, 2314, 2316,
      1048, 1050, 1051, 1060, 1071,
                                              2318, 2320, 2322, 2324, 2326,
      1080-1087, 1095, 1096, 1104,
                                              2328, 2330, 2332, 2334, 2336,
      1105, 1112, 1113, 1117, 1121,
                                              2338, 2340, 2342, 2344, 2346,
                                              2348, 2350, 2352, 2354, 2356,
      1122, 1125, 1130, 1235, 1454,
      1459, 1546, 1551, 1556, 1561,
                                              2358, 2360, 2362, 2364, 2366,
      1575, 1576, 1608, 1611, 1618,
                                              2368, 2370, 2372, 2374, 2376,
      1622, 1625, 1630, 1633, 1694,
                                              2378, 2380, 2382, 2384, 2386,
      1696, 1715, 1809, 1811, 3005,
                                              2388, 2390, 2392, 2394, 2396,
      3012-3016, 3021, 3034, 3421,
                                              2398, 2400, 2402, 2404, 2406,
      3422, 3433, 3435, 3442, 3450,
                                              2408, 2410, 2412, 2414, 2416,
      3452, 3453, 3464, 3469, 3470,
                                              2418, 2420, 2422, 2424, 2426,
      3472, 3490, 3531, 3556, 4270,
                                              2428, 2430, 2432, 2434, 2436,
      4285, 4288, 4308, 4320, 4322, 4345
                                              2438, 2440, 2442, 2444, 2446,
\finalkaf ..... 3617
                                              2448, 2450, 2452, 2454, 2456,
\finalmem ..... 3619
                                              2458, 2460, 2462, 2464, 2466,
                                              2468, 2470, 2472, 2474, 2476,
\finalnun ..... 3621
```

2478, 2480, 2482, 2484, 2486,	\hatafpatah 3602
2488, 2490, 2492, 2494, 2496,	\hatafqamats 3603
2498, 2500, 2502, 2504, 2506,	\hatafsegol 3601
2508, 2510, 2512, 2514, 2516,	\hbox 183, 540
2518, 2520, 2522, 2524, 2526,	\hebalef 3563
2528, 2530, 2532, 2534, 2536,	\hebaleflamed 3597
2538, 2540, 2542, 2544, 2546,	\hebayin
2548, 2550, 2552, 2554, 2556,	\hebbet 3564
2558, 2560, 2562, 2564, 2566,	\hebdalet 3566
2568, 2570, 2572, 2574, 2576,	\hebfinalkaf
2578, 2580, 2582, 2584, 2586,	\hebfinalmem
2588, 2590, 2592, 2594, 2596,	\hebfinalnun 3578
2598, 2600, 2602, 2604, 2606,	\hebfinalpe 3582
$2608, \ 2610, \ 2612, \ 2614, \ 2616,$	\hebfinaltsadi 3584
$2618,\ 2620,\ 2622,\ 2624,\ 2626,$	\hebgimel 3565
2628, 2630, 2632, 2634, 2636,	\hebhe
$2638, \ 2640, \ 2642, \ 2644, \ 2646,$	\hebhet
2648, 2650, 2652, 2654, 2656,	\hebkaf
$2658, \ 2660, \ 2662, \ 2664, \ 2666,$	\heblamed 3575
$2668, \ 2670, \ 2672, \ 2674, \ 2676,$	\hebmem
$2678, \ 2680, \ 2682, \ 2684, \ 2686,$	\hebnun
2688, 2690, 2692, 2694, 2696,	\hebpe
$2698, \ 2700, \ 2702, \ 2704, \ 2706,$	\hebqof
$2708, \ 2710, \ 2712, \ 2714, \ 2716,$	\hebresh
2718, 2720, 2722, 2724, 4324, 4334	\hebsamekh 3580
\foreignlanguage 4326	\hebshin
\futurelet 19, 822, 835	\hebtav
	\hebtat
G	\hebtsadi
\G 1839	\hebvav
\g@addto@macro	\hebyod
752, 1584–1588, 3533, 4314	\hebzayin
\gdef 145, 615, 980, 992,	\hex 171, 172, 176, 187, 188
1010, 1604, 1614, 3486, 3498, 3538	\hfont
\geresh	\hfontdef 3542
\gershayim	\hiriq 3604
\global 89, 92, 368, 408, 431,	\holam
435, 436, 443, 463, 465, 482,	\hskip
498, 515, 520, 530, 556, 588,	
100 101 701 724 716 010 010	
592, 595, 705, 734, 756, 818, 850	\ht
$\mathtt{graphics} \; (\mathrm{option}) \; \dots \dots \dots \; \underline{115}$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	\ht
<pre>graphics (option) 115 \guillemotleft</pre>	\ht
<pre>graphics (option)</pre>	\ht
graphics (option)	\ht
<pre>graphics (option)</pre>	\ht
graphics (option)	\ht
<pre>graphics (option)</pre>	\ht
<pre>graphics (option)</pre>	\ht

\ifnum 149, 150, 254, 258, 285,	J
289, 312, 316, 339, 343, 365,	\j 1842, 3814
447, 494, 548, 600, 641, 787,	\jischar 1701, 1702, 1816, 1817
809, 829, 891, 899, 900, 910-	, , ,
912, 926, 957, 970, 972, 981,	K
993, 1032, 1033, 1035, 1043,	\kaf 3618
1694, 1715, 3436, 3444, 4286, 4349	\klingona 1834
\iftrue 54, 205, 252, 283, 310, 337	\klingonb 1835
\ifucshyper@direct 4274, 4315	\klingonch 1836
\ifucshyper@prerender 4273, 4330	\klingonD 1837
\ifUnicodeOptioncombine 397	\klingone 1838
\ifUnicodeOptionfasterrors 591	\klingoneight 1868
\ifUnicodeOptiongraphics 140, 167	\klingonfive 1865
\ifUnicodeOptionsavemem 512, 547	\klingonfour 1864
\ifUnicodeOptionwarnunknown 687	\klingongh 1839
-	\klingonglotstop 1859
\ifx . 3-10, 13, 14, 20, 22, 25, 32, 33,	\klingonH 1840
41, 45–47, 62, 72, 80, 88, 105, 110, 113, 124, 126, 130, 135,	\klingonI 1841
144, 168, 170, 206, 235, 244,	\klingonj 1842
245, 275, 276, 306, 333, 363,	\klingonl 1843
366, 396, 401, 407, 412, 431,	\klingonm
432, 450, 458, 464, 470, 472,	\klingonn 1845
492, 496, 551, 552, 554, 561,	\klingonng
565, 605, 630, 685, 690, 696,	\klingonnine
697, 716, 718, 719, 737, 746,	\klingonone
749, 756, 757, 761, 775, 780,	\klingonp 1848
804, 824, 827, 828, 846, 861,	\klingonQ 1850
864, 867–871, 874, 875, 881,	\klingonq 1849
889, 896, 934, 1023–1025, 1030,	\klingonr 1851
1058, 1070, 1080–1088, 1090,	\klingonS 1852
1097, 1099, 1106, 1108, 1114,	\klingonseven 1867
1119, 1122, 1125, 1130, 1235,	\klingonsix 1866
1437, 1457, 1459, 1546, 1551, 1556, 1561, 1568, 1571, 1607	\klingont 1853
1556, 1561, 1568, 1571, 1607, 1611, 1613, 1620, 1625, 1627,	\klingonthree 1863
1633, 1695, 1810, 3005, 3012–	\klingontlh 1854
3016, 3019, 3032, 3421, 3422,	\klingontwo 1862
3462, 3467, 3468, 3472, 3485,	\klingonu 1855
3530, 3548, 4267, 4283, 4284, 4318	\klingonv 1856
\ifxx 1457	\klingonw 1857
\immediate 180	\klingony 1858
\includegraphics 185	\klingonzero 1860
\info	\KV@ucembedfont@start 761
\input 43, 113, 139,	т
1664, 1672, 1680, 1711, 1826, 3006	L 1949
\inputencoding 734-736	\1 1843
\InputIfFileExists	\LastDeclaredEncoding 3499, 3500, 3672-3831, 4121-4241
41, 42, 519, 532, 594, 604	\lastskip 447
11, 12, 010, 002, 004, 004	/Tabouth III

\lccode 230, 231, 976, 988, 989, $1005-1007$, 1018 , 1019 , 1034 \leavevmode 814, 815 \let 16, 23, 26, 28, 45, 46, 51, 54, 57, 63, 65, 67, 123, 143, 163, 209-211, 213, 216, 360, 362, 363, 368, 396, 408, 431, 435, 465, 498, 513, 515, 520, 530, 532, 540, 544, 546, 549, 553, 555, 556, 571, 622, 692, 693, 705, 734, 749, 756, 769, 770, 772, 818, 839, 850, 853, 854, 936, 941, 951, 1079-1087, 1116, 1122, 1128, 1452, 1526, 1528,	\ltl@state 3009, 3011-3016 \ltl@tlvoa 3010, 3012, 3013 \ltl@vowel 3012, 3038, 3051-3054,
1530, 1532, 1569, 1572, 1574,	\lucchar 3423, 3500
1585–1588, 1595, 1596, 1651, 1665, 1673, 1681, 1703, 1712,	\LUCfont 3462-3465, 3468
1818, 1827, 3004, 3007, 3009-	M
3016, 3527, 3529, 4283, 4313, 4316, 4323–4326, 4328, 4332, 4333	\m 1475-1477, 1482-1485 \m 1469-1474, 1478-
\lgr@sig@fix 1235, 1236	1481, 1486–1501, 1504–1509, 1844
\LinkUnicodeOptionToPkg 62, 100	\makeatletter 3524
\long 34, 42	\mandatory@arg 1607, 1608, 1613, 1614, 1622, 1630, 3480, 3485, 3486
\loop 147, 787, 809, 926, 957, 1032, 4349 \lowercase	\magaf
232, 977, 990, 1008, 1020, 1036	\meaning 190, 560, 1037,
\ltl@cons . 3013, 3025, 3059, 3061,	1592, 1698, 1716, 1813, 3552, 3553
3063, 3065, 3067, 3069, 3071,	\measuring@false685
3073, 3075, 3077, 3079, 3081,	\mem
$3083, \ 3085, \ 3087, \ 3089, \ 3091,$	\message 82
3093, 3095, 3097, 3099, 3101,	$\verb \MessageBreak \dots \dots 73, 81, 82,$
3103, 3105, 3107, 3109, 3111,	98, 136, 194–197, 372, 384, 385,
3113, 3115, 3117, 3119, 3121,	387, 417, 501, 502, 596, 606,
3123, 3125, 3127, 3129, 3131, 3133	615, 616, 620, 688, 694, 710,
\lt1@dcons 3015, 3028, 3060, 3062, 3064, 3066, 3068, 3070, 3072,	711, 720–733, 848, 1013, 1045, 4269 \meteg
3074, 3076, 3078, 3080, 3082,	\mkr@at
3084, 3086, 3088, 3090, 3092,	\mkr@font 3542, 3549-3551, 3555
3094, 3096, 3098, 3100, 3102,	\mkr@quote 3527, 3529
3104, 3106, 3108, 3110, 3112,	\multiply 153, 892,
3114, 3116, 3118, 3120, 3122,	901, 903, 913, 915, 917, 973,
$3124,\ 3126,\ 3128,\ 3130,\ 3132,\ 3134$	982, 984, 994, 996, 999, 1685,
\ltl@gencons 3018, 3135-3172	1690, 3426, 3429, 3438, 3446,
\ltl@gensymb 3043, 3233-3242	$3455,\ 4291,\ 4294,\ 4297,\ 4300,\ 4303$
\ltl@genvow 3031, 3206-3221	
\ltl@ivowel 3014, 3040,	N
3046, 3055–3057, 3175, 3177,	\N
3179, 3181, 3183, 3185, 3187,	\n
3189, 3191, 3193, 3195, 3197, 3199, 3201, 3203, 3205, 3223–3232	\NeedsTeXFormat 1880, 2027, 2752, 2882, 3472, 3669, 4118
0100, 0201, 0200, 0200, 0220-0202	2021, 2102, 2002, 3412, 3003, 4110

\newcommand . 1080, 3012-3015, 3018,	P
3031, 3043, 4281, 4282, 4310, 4347	\P 231, 1019
\newcount 164	\p 1848
\newif 4273 , 4274	\p@ 1628
\newlinechar 73, 81	\PackageError 72, 76, 106, 415,
\newread 32	423, 533, 694, 804, 871, 878,
\newtoks $426-428$	883, 1585, 1649, 3020, 3033, 4287
\next 546, 549, 551, 553, 555, 558	\PackageWarning 80, 84, 193, 375, 382,
\NOBOUNDARY 3574, 3577, 3579, 3583,	451, 505, 688, 720, 1012, 1044, 4268
$3585,\ 3618,\ 3620,\ 3622,\ 3624,\ 3626$	\patach 3616
\noexpand 48, 184,	\patah 3607
185, 187, 226, 392, 418, 467,	\path 171, 176, 182, 186
487, 606, 689, 695, 707, 790,	\pdfoutput 4267
810, 813–815, 934, 936–938,	\pdfstringdef 4328, 4329
940, 943–947, 952–954, 964, 1062–1066, 1696, 1811, 3023,	\pdfstringdefPreHook 4313, 4314
3025–3028, 3036, 3038–3040,	\pe
3045, 3046, 3538, 3540–3542, 3553	\perthousand
\number 177, 206,	\PrerenderUnicode 535, 4343
218, 223, 238, 367, 369, 370,	\PrintUnicodeName
377, 383, 415, 481, 487, 491,	\ProcessOptions . 133, 754, 1590, 4279
$497, \ 499, \ 501, \ 506, \ 554, \ 560,$	\protect 45,
562, 564–566, 568, 569, 596,	47, 141, 458, 470, 574, 576, 578,
603, 604, 684, 704, 708, 778,	580, 582, 584, 630, 681, 872, 3533
779, 783, 790, 810, 878, 921,	\providecommand
923, 934, 944, 947, 964, 980, 992, 1001, 1010, 1012, 1044,	\dots 1080, 3479, 3484, 3837, 4247
1062–1066, 1693, 1694, 1697,	\ProvidesFile
1716, 1812, 3457, 3459, 4285,	\dots 187, 861, 862, 1058, 1059,
4288, 4290, 4293, 4296, 4299,	1602, 1661, 1669, 1677, 1708,
$4302,\ 4305-4307,\ 4311,\ 4318,\ 4320$	1823, 1831, 1873, 1881, 2015,
\nun 3622	2021, 2028, 2728, 2736, 2744, 2753, 2870, 2876, 2883, 2995,
	3304, 3401, 3407, 3413, 3475,
0	3511, 3517, 3523, 3631, 3642,
\o 1847	3652, 3659, 3670, 3835, 4119, 4245
$\verb \old@unichar 4316, 4319, 4332, 4335 $	\ProvidesPackage
\openin 35	$\dots \dots 110, 111, 747, 1524, 4265$
\optional@arg 1630	$\verb \ProvideTextCommand 1530, 1531 $
options:	\ProvideTextCommandDefault
combine	$\dots \dots 1123, 3365, 3366$
default	
document	Q 1070
fasterrors	\Q 1850
graphics	\q
savemem	
warnunknown	\qubuts
\or 155, 156, 1725–1807,	\quotedblase 1889, 2761, 2893, 3817
3432 - 3435, 3441, 3442, 3449, 3450	\quotesinglbase 1890, 2762, 2894

```
\mathbf{R}
                                               2168, 2170, 2172, 2174, 2176,
                                               2178, 2180, 2182, 2184, 2186,
\r ..... 1851, 3801
\relax 45, 46, 63, 105, 143-145, 148,
                                               2188, 2190, 2192, 2194, 2196,
      150, 157, 173, 174, 206, 210,
                                               2198, 2200, 2202, 2204, 2206,
      213, 245, 276, 362, 363, 365,
                                               2208, 2210, 2212, 2214, 2216,
      367, 396, 492–494, 497, 524,
                                               2218, 2220, 2222, 2224, 2226,
      544, 552, 554, 565, 587, 602,
                                               2228, 2230, 2232, 2234, 2236,
                                               2238, 2240, 2242, 2244, 2246,
      634, 636, 637, 647–663, 671,
      674, 678–680, 684, 692, 700,
                                               2248, 2250, 2252, 2254, 2256,
      713, 756, 757, 809, 864, 870,
                                               2258, 2260, 2262, 2264, 2266,
      875, 882, 888, 892–894, 901–
                                               2268, 2270, 2272, 2274, 2276,
                                               2278, 2280, 2282, 2284, 2286,
      905, 919, 925, 926, 934, 938,
                                               2288, 2290, 2292, 2294, 2296,
      948, 951, 956, 957, 965, 969,
                                               2298, 2300, 2302, 2304, 2306,
      970, 972–974, 981, 982, 994,
                                               2308, 2310, 2312, 2314, 2316,
      1025, 1052, 1062-1066, 1075,
      1090, \ \ 1099, \ \ 1119-1121, \ \ 1613,
                                               2318, 2320, 2322, 2324, 2326,
      3019, 3032, 3456, 3462, 3485,
                                               2328, 2330, 2332, 2334, 2336,
      3530,\ 4283,\ 4318,\ 4348,\ 4349,\ 4351
                                               2338, 2340, 2342, 2344, 2346,
\repeat ......
                                               2348, 2350, 2352, 2354, 2356,
       158, 798, 812, 949, 966, 1042, 4352
                                               2358, 2360, 2362, 2364, 2366,
\RequirePackage ..... 132,
                                               2368, 2370, 2372, 2374, 2376,
      140, 748, 759, 875, 1584, 3528, 4271
                                               2378, 2380, 2382, 2384, 2386,
                                               2388, 2390, 2392, 2394, 2396,
\reserved@a ..... 17, 26, 36,
                                               2398, 2400, 2402, 2404, 2406,
      37, 39, 635, 666, 672, 673, 675, 677
                                               2408, 2410, 2412, 2414, 2416,
2418, 2420, 2422, 2424, 2426,
\reserved@c ..... 23, 26, 28,
                                               2428, 2430, 2432, 2434, 2436,
      31,642,663-665,667-671,674,676
                                               2438, 2440, 2442, 2444, 2446,
\reserved@d ..... 16, 25
                                               2448, 2450, 2452, 2454, 2456,
\restore@utf@viii@actives .....
                                               2458, 2460, 2462, 2464, 2466,
       ..... 719, 739, 950, 1047
                                               2468, 2470, 2472, 2474, 2476,
                  \mathbf{S}
                                               2478, 2480, 2482, 2484, 2486,
\S ..... 1852
                                               2488, 2490, 2492, 2494, 2496,
                                               2498, 2500, 2502, 2504, 2506,
\mathtt{savemem} \; (\mathrm{option}) \; \dots \dots \; \underline{116}
                                               2508, 2510, 2512, 2514, 2516,
\segol ..... 3606
                                               2518, 2520, 2522, 2524, 2526,
\selectfont ......
                                               2528, 2530, 2532, 2534, 2536,
       . 1579, 1580, 1696, 1811, 2036,
                                               2538, 2540, 2542, 2544, 2546,
      2038, 2040, 2042, 2044, 2046,
      2048, 2050, 2052, 2054, 2056,
                                               2548, 2550, 2552, 2554, 2556,
                                               2558, 2560, 2562, 2564, 2566,
      2058, 2060, 2062, 2064, 2066,
      2068, 2070, 2072, 2074, 2076,
                                               2568, 2570, 2572, 2574, 2576,
      2078, 2080, 2082, 2084, 2086,
                                               2578, 2580, 2582, 2584, 2586,
                                               2588, 2590, 2592, 2594, 2596,
      2088, 2090, 2092, 2094, 2096,
                                               2598, 2600, 2602, 2604, 2606,
      2098, 2100, 2102, 2104, 2106,
                                               2608, 2610, 2612, 2614, 2616,
      2108, 2110, 2112, 2114, 2116,
      2118, 2120, 2122, 2124, 2126,
                                               2618, 2620, 2622, 2624, 2626,
      2128, 2130, 2132, 2134, 2136,
                                               2628, 2630, 2632, 2634, 2636,
      2138, 2140, 2142, 2144, 2146,
                                               2638, 2640, 2642, 2644, 2646,
                                               2648, 2650, 2652, 2654, 2656,
      2148, 2150, 2152, 2154, 2156,
                                               2658, 2660, 2662, 2664, 2666,
      2158, 2160, 2162, 2164, 2166,
```

2668, 2670, 2672, 2674, 2676,	\tengwarCalma	3309
2678, 2680, 2682, 2684, 2686,	\tengwarDoubleAcute	3384
$2688, \ 2690, \ 2692, \ 2694, \ 2696,$	\tengwarDoubleAcuteBelow	
$2698, \ 2700, \ 2702, \ 2704, \ 2706,$	\tengwarDoubleLeftCurl	3388
$2708, \ 2710, \ 2712, \ 2714, \ 2716,$	\tengwarDoublePusta	3360
2718, 2720, 2722, 2724, 3468, 4323	\tengwarDoubler	3390
\selectlanguage 4325	\tengwarDoubleRightCurl	3386
\setbox 183, 540	\tengwarEight	3373
\setkeys 774	\tengwarEleven	3376
\SetUnicodeOption . $101, \underline{102}, 119,$	\tengwarExclam	3361
121, 128, 133, 817, 819, 842, 844	\tengwarExtAmpa	3352
\SetUnicodeOption@ 102, 103	\tengwarExtAnca	
\sheva 3600	\tengwarExtAnto	3351
\shin 3612, 3613	\tengwarExtFormen	3348
\shindot 3612	\tengwarExtHarma	3349
\sindot 3613	\tengwarExtHwesta	3350
\sofpasuq 3594	\tengwarExtThuule	
\space 163, 171,	\tengwarExtUnque	
196, 776, 790, 805, 1044, 1630,	\tengwarFive	
1697, 1812, 3020, 3033, 3543, 3553	\tengwarFormen	
\string 726, 727, 730, 776, 805,	\tengwarFour	
806, 847–849, 943, 952–954,	\tengwarHalla	
1029, 1038, 1071, 1090, 1093,	\tengwarHarma	
1099, 1102, 1115, 1124, 3020,	\tengwarHwesta	
3033, 3539, 3543, 4311, 4336–4341	\tengwarHwestaSindarinwa	
\sub@sfcnt 1615, 1617, 3487, 3489	\tengwarHyarmen	
. , , , ,	\tengwarLambe	
${f T}$	\tengwarLeftCurl	
\T 1511-1514, 1854	\tengwarLeftCurlBelow	
\t 1853	\tengwarLongCarrier	3345
\temp@a 603, 1028,		
1037, 1567–1569, 1572, 1574,	\tengwarLongCarrierBelow	3393
1001, 1001 1000, 1012, 1011,	\tengwarLongCarrierBelow\tengwarLongSection	
1578, 1694–1696, 1715, 1716,	\tengwarLongSection	3364
	\tengwarLongSection	$3364 \\ 3324$
1578, 1694-1696, 1715, 1716,	\tengwarLongSection	3364 3324 3389
1578, 1694–1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553	\tengwarLongSection\tengwarMalta\tengwarNasalizer	3364 3324 3389 3374
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568,	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tenywarNine \tengwarNine \teny	3364 3324 3389 3374 3325
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo	3364 3324 3389 3374 3325 3382
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814 \tengwarAare 3337	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse	3364 3324 3389 3374 3325 3382 3323
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814 \tengwarAare 3337 \tengwarAareNuquerna 3338	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen	3364 3324 3389 3374 3325 3382 3323 3326
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNwalme \tengwarOne	3364 3324 3389 3374 3325 3382 3323 3326 3366
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNwalme	3364 3324 3389 3374 3325 3382 3323 3326 3366 3327
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNwalme \tengwarOne \tengwarOore	3364 3324 3389 3374 3325 3382 3323 3326 3366 3327 3308
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNwalme \tengwarOne \tengwarOore \tengwarParma	3364 3324 3389 3374 3325 3382 3323 3326 3366 3327 3308 3359
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814 \tengwarAare 3337 \tengwarAcute 3383 \tengwarAlda 3334 \tengwarAmaticse 3381 \tengwarAnca 3320 \tengwarAnca 3321	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNuumen \tengwarOne \tengwarOore \tengwarParma \tengwarParma	3364 3324 3389 3374 3325 3382 3326 3366 3327 3308 3359 3310
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814 \tengwarAare 3337 \tengwarAcute 3383 \tengwarAlda 3334 \tengwarAmaticse 3381 \tengwarAnca 3321 \tengwarAndo 3311	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNumen \tengwarNwalme \tengwarOne \tengwarOore \tengwarParma \tengwarPusta \tengwarQuesse	3364 3324 3389 3374 3325 3382 3326 3366 3327 3308 3359 3310 3362
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814 \tengwarAare 3337 \tengwarAcute 3383 \tengwarAlda 3334 \tengwarAmaticse 3381 \tengwarAnca 3321 \tengwarAnga 3311 \tengwarAnga 3313	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNwalme \tengwarOne \tengwarOore \tengwarParma \tengwarPusta \tengwarQuesse \tengwarQuestion	3364 3324 3389 3374 3325 3323 3326 3366 3327 3308 3359 3310 3362 3385
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 \temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814 \tengwarAareNuquerna 3337 \tengwarAcute 3383 \tengwarAlda 3334 \tengwarAmaticse 3381 \tengwarAnca 3321 \tengwarAnga 3311 \tengwarAnna 3329	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNvalme \tengwarOne \tengwarOre \tengwarParma \tengwarPusta \tengwarQuesse \tengwarQuestion \tengwarRightCurl	3364 3324 3389 3374 3325 3382 3326 3366 3327 3308 3359 3310 3362 3385 3395
1578, 1694-1696, 1715, 1716, 1810, 1811, 3537, 3541, 3542, 3553 temp@b 1567, 1568, 1695, 1698, 1699, 1810, 1813, 1814 tengwarAare 3337 tengwarAareNuquerna 3338 tengwarAcute 3383 tengwarAlda 3344 tengwarAmaticse 3381 tengwarAmpa 3320 tengwarAndo 3311 tengwarAnga 3313 tengwarAnna 3329 tengwarAnnaSindarinwa 3346	\tengwarLongSection \tengwarMalta \tengwarNasalizer \tengwarNine \tengwarNoldo \tengwarNunticse \tengwarNuumen \tengwarNwalme \tengwarOne \tengwarOore \tengwarParma \tengwarPusta \tengwarQuesse \tengwarQuestion \tengwarRightCurl	3364 3324 3389 3374 3325 3323 3326 3366 3327 3308 3359 3310 3362 3385 3395 3331

\tengwarShortCarrier 3344	\textDafrican 1482
\tengwarSilme	\textdasia 1179, 1248,
\tengwarSilme \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1265, 1281, 1297, 1313, 1317,
\tengwarSix	1337, 1341, 1361, 1369, 1379,
\tengwarStemlessAnna 3357	1387, 1397, 1407, 1414, 1421, 1436
\tengwarStemlessOore 3355, 3365	\textdasiaiota 1248, 1429
\tengwarStemlessVala 3356	\textdasiaoxia
\tengwarStemlessVilya 3358, 3366	. 1205, 1254, 1270, 1287, 1302,
\tengwarTen 3375	1321, 1325, 1345, 1349, 1373,
\tengwarThree	1383, 1391, 1401, 1411, 1416, 1425
\tengwarThreeDotsAbove 3377	\textdasiaoxiaiota 1254, 1433
\tengwarThreeDotsBelow 3378	\textdasiaperispomeni 1183,
\tengwarThuule	1257, 1275, 1292, 1307, 1329,
\tengwarTilde 3391	1333, 1375, 1393, 1403, 1417, 1427
\tengwarTinco 3307	\textdasiaperispomeniiota 1257, 1435
\tengwarTwo 3367	\textdasiavaria
\tengwarTwoDotsAbove 3379	. 1186, 1252, 1267, 1289, 1299,
\tengwarTwoDotsBelow 3380	1315, 1319, 1339, 1343, 1371,
\tengwarUmbar 3312	1381, 1389, 1399, 1409, 1415, 1423
\tengwarUngwe 3314	\textdasiavariaiota 1252, 1431
\tengwarUnque 3322	\textdblgravecmb 1517
\tengwarUure 3342	\textDelta 1187, 1441
\tengwarVala 3328	\textdelta 1219, 1441
\tengwarVilya 3330	\textdevanagaria 1911
\tengwarYanta 3341	\textdevanagariaa 1912
\tengwarZero 3365	\textdevanagariabbreviation 2011
\textAlpha 1184, 1258, 1366-1375, 1441	\textdevanagariai 1922
\textalpha 1216, 1264-	\textdevanagarianudatta 1984
1267, 1269-1272, 1274-1276, 1441	\textdevanagarianusvara 1909
\textanoteleia 1178	\textdevanagariau 1926
\textaristerikeraia 1365	\textdevanagariavagraha 1965
\textascii 1123, 1127, 1130, 1137,	\textdevanagariba 1950
1459, 2033, 2034, 3050, 3499, 3615	\textdevanagaribha 1951
\textasciicircum 1891, 2763, 2895	\textdevanagarica 1932
\textasciiencoding 1126, 1127	\textdevanagaricandrabindu 1908
\textasciitilde 1892, 2764, 2896	\textdevanagaricandrae 1919
\textautosigma 1234, 1448	\textdevanagaricandrao 1923
\textbackslash 1893, 2765, 2897	\textdevanagaricha 1933
\textbaht 2838	\textdevanagarida 1944
\textbar 1894, 2766, 2898	\textdevanagaridanda 1999
\textBeta 1185, 1441	\textdevanagaridda 1939
\textbeta 1217, 1441	\textdevanagaridddha 1991
\textBhook 1470	$\verb \textdevanagariddha 1940$
\textbhook 1469	$\verb \textdevanagaridha 1945$
\textbraceleft 1895, 2767, 2899	$\verb \textdevanagaridoubledanda 2000 $
\textbraceright 1896, 2768, 2900	\textdevanagarie 1921
\textChi 1200, 1446	\textdevanagarieight 2009
\textchi 1232, 1446	\textdevanagarifa 1993
\textChook 1500	\textdevanagarifive 2006
\textchook 1501	$\verb \textdevanagarifour 1 2005$

\	1020	\++
\textdevanagariga		\textdevanagarivocalicl 1918
\textdevanagarigha	1930	\textdevanagarivocalicll 1996
\textdevanagarighha	1989	\textdevanagarivocalicr 1917
\textdevanagariha\textdevanagarii	1913	\textdevanagarivocalicrr 1995
		\textdevanagarivowelaa 1966
\textdevanagariii\textdevanagarija		\textdevanagarivowelai 1976
\textdevanagarijha	1934 1935	\textdevanagarivowelau 1980
\textdevanagarijna\textdevanagarika		\textdevanagarivowelcandrae 1973
<u> </u>	1927	\textdevanagarivowelcandrao 1977
\textdevanagarikha	1928	\textdevanagarivowele 1975
\textdevanagarikhha		\textdevanagarivoweli 1967
\textdevanagarila		\textdevanagarivowelii 1968
\textdevanagarilla		\textdevanagarivowelo 1979
\textdevanagarillla	1958	\textdevanagarivowelshorte 1974
\textdevanagarima		\textdevanagarivowelshorto 1978
\textdevanagarina		\textdevanagarivowelu 1969
\textdevanagaringa		\textdevanagarivoweluu 1970
\textdevanagarinine		\textdevanagarivowelvocalicl 1997
\textdevanagarinna		$\verb \textdevanagarivowelvocalic 1998 $
\textdevanagarinnna		\textdevanagarivowelvocalicr 1971
\textdevanagarinukta		\textdevanagarivowelvocalicrr . 1972
e .	1936	\textdevanagariya 1953
\textdevanagario		\textdevanagariyya 1994
\textdevanagariom		\textdevanagariza 1990
\textdevanagarione		\textdevanagarizero 2001
\textdevanagaripa		\textdexiakeraia 1364
\textdevanagaripha		\textDhook 1472
\textdevanagariqa	1987	\textdhook
\textdevanagarira		\textdialytikaoxia
\textdevanagarirha	1992	\textdialytikaperispomeni
\textdevanagarirra	1955	
\textdevanagarisa	1962	\textdialytikatonos
\textdevanagariseven		1161, 1162, 1354, 1358
\textdevanagarisha	1960	\textdialytikavaria . 1163, 1353, 1357
\textdevanagarishorte	1920	\textDigamma 1309, 1451
\textdevanagarishorto	1924	\textdigamma
\textdevanagarisix		\textdollar 1897, 2769, 2901
\textdevanagarissa		\textdollar 1897, 2709, 2901 \textdtail 1483
\textdevanagarita		
\textdevanagaritha		\text{textendash} 1263, 1898, 2770, 2902
\textdevanagarithree		\textendash 1899, 2771, 2903
\textdevanagaritta		\textEopen 1474, 1511
\textdevanagarittha	1938	\texteopen 1473, 1512
\textdevanagaritwo	2003	\textEpsilon 1188, 1376-1383, 1442
\textdevanagariu	1915	\textepsilon
\textdevanagariudatta	1983	1220, 1336–1339, 1344–1347, 1442
\textdevanagariuu	1916	\textEreversed 1477
\textdevanagariva	1959	\textEsh 1494
\textdevanagarivirama	1981	\textesh 1495
\textdevanagarivisarga	1910	\textEta . 1191, 1259, 1384-1393, 1443

\texteta 122	3. 1280–	\textethiopicfi	2635, 2636
1282, 1286–1289, 1291-		\textethiopicfifty	2711, 2712
\textethiopicba	2209, 2210	\textethiopicfive	2693, 2694
\textethiopicbaa	2215, 2216	\textethiopicfo	2643, 2644
\textethiopicbe	2219, 2220	\textethiopicforty	2709, 2710
\textethiopicbee	2217, 2218	\textethiopicfour	2691, 2692
\textethiopicbi	2213, 2214	\textethiopicfu	2633, 2634
\textethiopicbo	2221, 2222	\textethiopicfullstop	2671, 2672
\textethiopicbu	2211, 2212	\textethiopicfwa	2645, 2646
\textethiopicbwa	2223, 2224	\textethiopicfya	2667, 2668
\textethiopicca	2257, 2258	\textethiopicga	2515, 2516
\textethiopiccaa	2263, 2264	\textethiopicgaa	2521, 2522
\textethiopicce	2267, 2268	\textethiopicge	2525, 2526
\textethiopiccee	2265, 2266	\textethiopicgee	2523, 2524
\textethiopiccha	2569, 2570	\textethiopicgga	2539, 2540
\textethiopicchaa	2575, 2576	\textethiopicggaa	2545, 2546
\textethiopicche	2579, 2580	\textethiopicgge	2549, 2550
\textethiopicchee	2577, 2578	\textethiopicggee	2547, 2548
\textethiopicchi	2573, 2574	\textethiopicggi	2543, 2544
\textethiopiccho	2581, 2582	\textethiopicggo	2551, 2552
\textethiopicchu	2571, 2572	\textethiopicggu	2541, 2542
\textethiopicchwa	2583, 2584	\textethiopicgi	2519, 2520
\textethiopicci	2261, 2262	\textethiopicglottala	2329, 2330
\textethiopicco	2269, 2270	\textethiopicglottalaa	2335, 2336
\textethiopiccolon	2677, 2678	\textethiopicglottale	2339, 2340
\textethiopiccomma	2673, 2674	\textethiopicglottalee	2337, 2338
\textethiopiccu	2259, 2260	\textethiopicglottali	2333, 2334
\textethiopiccwa	2271, 2272	\textethiopicglottalo	2341, 2342
\textethiopicda	2467, 2468	\textethiopicglottalu	2331, 2332
\textethiopicdaa	2473, 2474	\textethiopicglottalwa	2343, 2344
\textethiopicdda	2483, 2484	\textethiopicgo	2527, 2528
\textethiopicddaa	2489, 2490	\textethiopicgu	2517, 2518
\textethiopicdde	2493, 2494	\textethiopicgwa	2529, 2530
\textethiopicddee	2491, 2492	\textethiopicgwaa	2533, 2534
\textethiopicddi	2487, 2488	\textethiopicgwe	2537, 2538
\textethiopicddo	2495, 2496	\textethiopicgwee	2535, 2536
\textethiopicddu	2485, 2486	\textethiopicgwi	2531, 2532
\textethiopicddwa	2497, 2498	\textethiopicha	2035, 2036
\textethiopicde	2477, 2478	\textethiopichaa	2041, 2042
\textethiopicdee	2475, 2476	\textethiopiche	2045, 2046
\textethiopicdi	2471, 2472	\textethiopichee	2043, 2044
\textethiopicdo	2479, 2480	\textethiopichha	2065, 2066
\textethiopicdu	2469, 2470	\textethiopichhaa	2071, 2072
\textethiopicdwa	2481, 2482	\textethiopichhe	2075, 2076
\textethiopiceight	2699, 2700	\textethiopichhee	2073, 2074
\textethiopiceighty	2717, 2718	\textethiopichhi	2069, 2070
\textethiopicfa	2631, 2632	\textethiopichho	2077, 2078
\textethiopicfaa	2637, 2638	\textethiopichhu	2067, 2068
\textethiopicfe	2641, 2642	\textethiopichhwa	2079, 2080
\textethiopicfee	2639, 2640	\textethiopichi	2039, 2040

```
2047, 2048
                                                                2095, 2096
\textethiopicho .....
                                     \textethiopicmwa .....
\textethiopichu .....
                          2037, 2038
                                     \textethiopicmya .....
                                                                2665, 2666
                          2721, 2722
                                     \textethiopicna ......
                                                               2297, 2298
\textethiopichundred ....
                          2499, 2500
                                                               2303, 2304
\textethiopicja .....
                                     \textethiopicnaa .....
                          2505, 2506
                                                               2307, 2308
\textethiopicjaa .....
                                     \textethiopicne ......
\textethiopicje .....
                          2509, 2510
                                     \textethiopicnee .....
                                                               2305, 2306
\textethiopicjee ......
                          2507, 2508
                                     \textethiopicni ......
                                                               2301, 2302
\textethiopicji .....
                          2503, 2504
                                     \textethiopicnine .....
                                                               2701, 2702
\textethiopicjo .....
                          2511, 2512
                                     \textethiopicninety .....
                                                               2719, 2720
                          2501, 2502
                                                               2309, 2310
\textethiopicju ......
                                     \textethiopicno .....
                          2513, 2514
                                                               2299, 2300
\textethiopicjwa .....
                                     \textethiopicnu .....
\textethiopicka .....
                                                               2311, 2312
                          2345, 2346
                                     \textethiopicnwa .....
                          2351, 2352
                                     \textethiopicnya .....
                                                               2313, 2314
\textethiopickaa ......
                                     \textethiopicnyaa .....
\textethiopicke .....
                                                               2319, 2320
                          2355, 2356
\textethiopickee ......
                                     \textethiopicnye .....
                          2353, 2354
                                                               2323, 2324
                                     \textethiopicnyee .....
\textethiopicki .....
                          2349, 2350
                                                               2321, 2322
\textethiopicko .....
                          2357, 2358
                                     \textethiopicnyi .....
                                                               2317, 2318
\textethiopicku .....
                          2347, 2348
                                     \textethiopicnyo
                                                     . . . . . . .
                                                               2325, 2326
\textethiopickwa .....
                          2359, 2360
                                     \textethiopicnyu .....
                                                               2315, 2316
\textethiopickwaa .....
                          2363, 2364
                                     \textethiopicnywa .....
                                                               2327, 2328
\textethiopickwe .....
                          2367, 2368
                                     \textethiopicone .....
                                                               2685, 2686
                          2365, 2366
                                                               2647, 2648
\textethiopickwee .....
                                     \textethiopicpa .....
                          2361, 2362
                                                               2653, 2654
\textethiopickwi ......
                                     \textethiopicpaa .....
                          2369, 2370
                                                               2683, 2684
\textethiopickxa .....
                                     \textethiopicparagraph ..
\textethiopickxaa .....
                          2375, 2376
                                     \textethiopicpe .....
                                                               2657, 2658
                          2379, 2380
                                                               2655, 2656
\textethiopickxe ......
                                     \textethiopicpee .....
                                     \textethiopicpha .....
\textethiopickxee .....
                          2377, 2378
                                                               2585, 2586
                          2373, 2374
                                                               2591, 2592
\textethiopickxi .....
                                     \textethiopicphaa .....
                          2381, 2382
                                     \textethiopicpharyngeala .
                                                               2407, 2408
\textethiopickxo .....
                          2371, 2372
                                     \textethiopicpharyngealaa
                                                               2413, 2414
\textethiopickxu .....
\textethiopickxwa .....
                          2383, 2384
                                     \textethiopicpharyngeale .
                                                               2417, 2418
                          2387, 2388
                                     \textethiopicpharyngealee
                                                                2415, 2416
\textethiopickxwaa .....
\textethiopickxwe .....
                          2391, 2392
                                     \textethiopicpharyngeali .
                                                               2411, 2412
\textethiopickxwee .....
                          2389, 2390
                                     \textethiopicpharyngealo .
                                                               2419, 2420
\textethiopickxwi .....
                          2385, 2386
                                     \textethiopicpharyngealu .
                                                               2409, 2410
                                                               2595,\,2596
\textethiopicla .....
                          2049, 2050
                                     \textethiopicphe .....
                          2055, 2056
                                                               2593, 2594
\textethiopiclaa .....
                                     \textethiopicphee .....
\textethiopicle .....
                          2059, 2060
                                     \textethiopicphi .....
                                                               2589, 2590
                                                               2597, 2598
\textethiopiclee .....
                          2057, 2058
                                     \textethiopicpho
                                                      . . . . . . .
                                     \textethiopicphu .....
\textethiopicli ......
                          2053, 2054
                                                               2587, 2588
\textethiopiclo .....
                          2061, 2062
                                     \textethiopicphwa .....
                                                               2599, 2600
                          2051, 2052
\textethiopiclu ......
                                     \textethiopicpi .....
                                                               2651, 2652
                          2063, 2064
\textethiopiclwa ......
                                     \textethiopicpo .....
                                                               2659, 2660
\textethiopicma .....
                          2081, 2082
                                     \textethiopicprefacecolon
                                                               2679, 2680
                          2087, 2088
                                                               2649, 2650
\textethiopicmaa .....
                                     \textethiopicpu .....
\textethiopicme .....
                          2091, 2092
                                     \textethiopicpwa .....
                                                               2661, 2662
\textethiopicmee .....
                          2089, 2090
                                     \textethiopicqa .....
                                                               2161, 2162
\textethiopicmi .....
                          2085, 2086
                                     \textethiopicqaa .....
                                                               2167, 2168
\textethiopicmo
               . . . . . . . .
                          2093, 2094
                                     \textethiopicqe .....
                                                               2171, 2172
\textethiopicmu .....
                          2083, 2084
                                     \textethiopicqee .....
                                                               2169, 2170
```

```
2185, 2186
\textethiopicqha .....
                                    \textethiopicswa .....
                                                              2143, 2144
\textethiopicqhaa .....
                                     \textethiopicsza .....
                          2191, 2192
                                                              2097, 2098
\textethiopicqhe .....
                          2195, 2196
                                     \textethiopicszaa .....
                                                              2103, 2104
                          2193, 2194
                                                              2107, 2108
\textethiopicqhee .....
                                     \textethiopicsze ......
                         2189, 2190
                                                              2105, 2106
\textethiopicqhi .....
                                    \textethiopicszee .....
\textethiopicqho .....
                         2197, 2198
                                    \textethiopicszi ......
                                                              2101, 2102
\textethiopicqhu .....
                          2187, 2188
                                     \textethiopicszo ......
                                                              2109, 2110
\textethiopicqhwa .....
                          2199, 2200
                                    \textethiopicszu .....
                                                              2099, 2100
                                                              2111, 2112
\textethiopicqhwaa .....
                         2203, 2204
                                    \textethiopicszwa .....
\textethiopicqhwe .....
                          2207, 2208
                                                              2241, 2242
                                    \textethiopicta .....
                          2205, 2206
                                                              2247, 2248
\textethiopicqhwee .....
                                    \textethiopictaa .....
                          2201, 2202
                                                              2251, 2252
\textethiopicqhwi .....
                                    \textethiopicte .....
                          2165, 2166
                                    \textethiopictee .....
                                                              2249, 2250
\textethiopicqi .....
                                     \textethiopicten .....
                                                              2703, 2704
\textethiopicqo .....
                          2173, 2174
\textethiopicqu ......
                         2163, 2164
                                     \textethiopictenthousand .
                                                              2723, 2724
\textethiopicquestionmark
                          2681, 2682
                                     \textethiopictha .....
                                                              2553, 2554
                                    \textethiopicthaa .....
\textethiopicqwa .....
                         2175, 2176
                                                              2559, 2560
                                                              2563, 2564
\textethiopicqwaa .....
                         2179, 2180
                                    \textethiopicthe .....
\textethiopicqwe .....
                         2183, 2184
                                    \textethiopicthee .....
                                                              2561, 2562
\textethiopicqwee .....
                         2181, 2182
                                    \textethiopicthi .....
                                                              2557, 2558
\textethiopicqwi .....
                         2177, 2178
                                     \textethiopicthirty .....
                                                              2707, 2708
                         2113, 2114
                                                              2565, 2566
\textethiopicra .....
                                    \textethiopictho .....
                         2119, 2120
                                                              2689, 2690
\textethiopicraa .....
                                    \textethiopicthree .....
                         2123, 2124
                                                              2555, 2556
\textethiopicre ......
                                     \textethiopicthu .....
                          2121, 2122
                                                              2567, 2568
\textethiopicree .....
                                     \textethiopicthwa .....
                          2117, 2118
                                     \textethiopicti .....
                                                              2245, 2246
\textethiopicri ......
                                     \textethiopicto .....
\textethiopicro .....
                          2125, 2126
                                                              2253, 2254
                         2115, 2116
                                     \textethiopictsa .....
                                                              2601, 2602
\textethiopicru ......
                         2127, 2128
                                                              2607, 2608
\textethiopicrwa .....
                                     \textethiopictsaa .....
                         2663, 2664
                                    \textethiopictse .....
                                                              2611, 2612
\textethiopicrya .....
\textethiopicsa .....
                         2129, 2130
                                    \textethiopictsee .....
                                                              2609, 2610
                         2135, 2136
                                     \textethiopictsi .....
                                                              2605, 2606
\textethiopicsaa .....
\textethiopicse .....
                          2139, 2140
                                    \textethiopictso .....
                                                              2613, 2614
\textethiopicsee .....
                         2137, 2138
                                    \textethiopictsu .....
                                                              2603, 2604
\textethiopicsemicolon ..
                          2675, 2676
                                    \textethiopictswa .....
                                                              2615, 2616
                          2697, 2698
\textethiopicseven .....
                                    \textethiopictu .....
                                                              2243, 2244
                          2715, 2716
                                                              2255, 2256
\textethiopicseventy ....
                                    \textethiopictwa .....
\textethiopicsha .....
                          2145, 2146
                                    \textethiopictwenty ....
                                                              2705, 2706
                          2151, 2152
                                                              2687, 2688
\textethiopicshaa .....
                                     \textethiopictwo .....
\textethiopicshe .....
                                     \textethiopictza .....
                          2155, 2156
                                                              2617, 2618
\textethiopicshee .....
                         2153, 2154
                                    \textethiopictzaa .....
                                                              2623, 2624
                                                              2627, 2628
\textethiopicshi .....
                         2149, 2150
                                    \textethiopictze .....
\textethiopicsho .....
                         2157, 2158
                                    \textethiopictzee .....
                                                              2625, 2626
\textethiopicshu .....
                         2147, 2148
                                    \textethiopictzi ......
                                                              2621, 2622
                         2159, 2160
                                                              2629, 2630
\textethiopicshwa .....
                                    \textethiopictzo .....
\textethiopicsi ......
                          2133, 2134
                                     \textethiopictzu .....
                                                              2619, 2620
\textethiopicsix .....
                          2695, 2696
                                     \textethiopicva .....
                                                              2225, 2226
\textethiopicsixty .....
                          2713, 2714
                                    \textethiopicvaa .....
                                                              2231, 2232
\textethiopicso ......
                          2141, 2142
                                    \textethiopicve .....
                                                              2235, 2236
                                                              2233, 2234
\textethiopicsu .....
                         2131, 2132
                                    \textethiopicvee .....
```

\	2220 2220	\++E-1 1400
\textethiopicvi	2229, 2230	\textEzh
\textethiopicvo	2237, 2238	\textezh
\textethiopicvu	2227, 2228	\textFhook
\textethiopicvwa	2239, 2240	\textflorin
\textethiopicwa	2393, 2394	\textGamma 1190, 1443
\textethiopicwaa	2399, 2400	\textgamma 1222, 1443
\textethiopicwe	2403, 2404	\textGammaafrican
\textethiopicwee	2401, 2402	\textgammalatinsmall 1479
\textethiopicwi	2397, 2398	\textgreater 1900, 2772, 2904
\textethiopicwo	2405, 2406	\textHbar
\textethiopicwordspace	2669, 2670	\texthbar
\textethiopicwu	2395, 2396	\textIota 1192, 1331, 1394-1403, 1443
\textethiopicxa	2273, 2274	\textiota . 1224, 1312-1315, 1320-
\textethiopicxaa	2279, 2280	1323, 1328–1330, 1352–1355, 1443
\textethiopicxe	2283, 2284	\textIotaafrican
\textethiopicxee	2281, 2282	\textiotalatin
\textethiopicxi	2277, 2278	\textKappa 1194, 1444
\textethiopicxo	2285, 2286	\textkappa 1226, 1444
\textethiopicxu	2275, 2276	\textKhook
\textethiopicxwa	2287, 2288	\textkhook
\textethiopicxwaa	2291, 2292	\textLambda 1195, 1445
\textethiopicxwe	2295, 2296	\textlambda 1227, 1445
\textethiopicxwee	2293, 2294	\textless 1901, 2773, 2905
\textethiopicxwi	2289, 2290	\textMu 1196, 1445
\textethiopicya	2453, 2454	\textmu 1228, 1445
\textethiopicyaa	2459, 2460	\textNhookleft 1508
\textethiopicye	2463, 2464	\textnhookleft 1509
\textethiopicyee	2461, 2462	\textNu 1197, 1445
\textethiopicyi	2457, 2458	\textnu 1229, 1445
\textethiopicyo	2465, 2466	\textOmega 1206, 1260, 1418-1435, 1450
\textethiopicyu	2455, 2456	\textomega $1240, 1296-$
\textethiopicza	2421, 2422	1299, 1301–1304, 1306–1308, 1450
\textethiopiczaa	2427, 2428	\textOmicron 1198, 1404-1411, 1446
\textethiopicze	2431, 2432	\textomicron
\textethiopiczee	2429, 2430	1230, 1340–1343, 1348–1351, 1446
\textethiopiczha	2437, 2438	\textOopen 1486, 1513
\textethiopiczhaa	2443, 2444	\textoopen 1487, 1514
\textethiopiczhe	2447, 2448	\textoxia 1167
\textethiopiczhee	2445, 2446	\textoxiaiota 1250
\textethiopiczhi	2441, 2442	\textparenleft 1168
\textethiopiczho	2449, 2450	\textparenright 1169
\textethiopiczhu	2439, 2440	\textpentedeka 1138
\textethiopiczhwa	2451, 2452	\textpentehkaton 1139
\textethiopiczi	2425, 2426	\textpentemuria 1141
\textethiopiczo	2433, 2434	$\verb \textpenteqilioi 1140$
\textethiopiczu	2423, 2424	\textpercent 1164
\textethiopiczwa	2435, 2436	$\verb \textperiodcentered 1165$
\texteturned	1476	$\verb \textperispomeniiota \dots \dots 1255$
\texteuro	1150	$\verb \textperthousand \dots \dots$
\textexclamdown	1515	\textPhi 1189, 1442

\+o=+nh; 1991 1449	\texttbar 1503
\textphi 1221, 1442	
\textPhook	\texttelugua 2915, 3175
\textphook	\textteluguaa
\textPi 1199, 1446 \textpi 1231, 1446	\textteluguai 2925, 3199 \textteluguailengthmark 2979
\textp1 1251, 1440 \textPsi 1208, 1450	\textteluguallengthmark 2979 \textteluguanusvara . 2913, 3053, 3056
\textpsi 1208, 1450 \textpsi 1242, 1450	\textteluguau
\textpsili 1242, 1450	
-	\textteluguba 2951, 3077, 3078
. 1181, 1247, 1266, 1282, 1298,	\texttelugubha 2952, 3061, 3062 \texttelugublackbox 3129, 3130
1314, 1318, 1338, 1342, 1362,	\textteluguca 3129, 3130
1368, 1378, 1386, 1396, 1406, 1420	
\textpsiliiota 1247, 1428 \textpsilioxia	\texttelugucandrabindu
-	
1203, 1233 , 1253 , 1271 , 1288 ,	\texttelugucha 2935, 3091, 3092
1303, 1322, 1326, 1346, 1350,	\textteluguda 2946, 3081, 3082
1372, 1382, 1390, 1400, 1410, 1424	\texttelugudda 2941, 3059, 3060
\textpsilioxiaiota 1253, 1432	\textteluguddha 2942, 3105, 3106
\textpsiliperispomeni	\texttelugudha 2947, 3065, 3066
. 1211, 1256, 1276, 1293, 1308,	\texttelugue 2923, 3195
1330, 1334, 1374, 1392, 1402, 1426	\textteluguee
\textpsiliperispomeniiota 1256, 1434	\texttelugueight 2990, 3231
\textpsilivaria	\textteluguemptybox 3131, 3132
1214, 1251, 1272, 1294,	\texttelugufive 2987, 3228
1304, 1323, 1327, 1347, 1351,	\texttelugufour 2986, 3227
1370, 1380, 1388, 1398, 1408, 1422	\textteluguga 2931, 3119, 3120
\textpsilivariaiota 1251, 1430	\texttelugugha 2932, 3103, 3104
\textqoppa 1147	\textteluguha 2963, 3085, 3086
\textqoppavariant 1148	\texttelugui 2917, 3179
\textquestion 1182	\textteluguii 2918, 3181
\textquestiondown 1516	\textteluguja 2936, 3093, 3094
\textquotedbl 1904, 2776, 2908	\texttelugujha 2937, 3083, 3084
\textquotedblleft 1902, 2774, 2906	\textteluguka 2929, 3067, 3068
\textquotedblright . 1903, 2775, 2907	\texttelugukha 2930, 3117, 3118
\textquoteleft . 1154, 1905, 2777, 2909	\texttelugula 2957, 3123, 3124
\textquoteright 1155, 1906, 2778, 2910	\texttelugulengthmark 2978
\textRho 1201, 1436, 1447	\texttelugulla 2958, 3097, 3098
\textrho 1233, 1361, 1362, 1447	\textteluguma 2953, 3071, 3072
\textsanpi 1153	\textteluguna 2948, 3101, 3102
\textschwa 1475	$\verb \texttelugunga \dots 2933, 3063, 3064 $
\textscriptg 1458	\texttelugunine 2991, 3232
\textsection 3816	\texttelugunna 2943, 3107, 3108
\textSigma 1202, 1447, 1448	\texttelugunya 2938, 3095, 3096
\textsigma 1236, 1447	\textteluguo 2926, 3201
\textstigma 1142	\textteluguone 2983, 3224
\textstigmavariant 1143	\textteluguoo 2927, 3203
$\verb \textsubiota 1144, 1145, 1246, 1258-1260 $	\textteluguoutlinebox 3133, 3134
\textsuperscript 572	\texttelugupa 2949, 3109, 3110
\textTau 1203, 1449	\texttelugupha 2950, 3099, 3100
\texttau 1237, 1449	\texttelugura 2955, 3111, 3112
\textTbar 1502	\texttelugurra 2956, 3121, 3122

```
\texttelugusa ..... 2962, 3079, 3080
                               \texttheta ..... 1225, 1444
\textteluguseven ..... 2989, 3230
                               \textThook ..... 1496
\verb|\texttelugusha| \ldots 2960,\,3075,\,3076
                               \textthook ..... 1497
\verb|\texttelugusix| \dots \dots 2988, 3229
                               \textTretroflexhook ..... 1484
\texttelugussa .... 2961, 3069, 3070
                               \texttt{texttretroflexhook} ..... 1485
\texttelugustart ..... 2886, 3011
                               \texttt ..... 203
\texttelugustop .....
                      2887, 3016
                               \textunderscore .... 1907, 2779, 2911
\textteluguta ..... 2944, 3125, 3126
                               \textunicodechar .... 3499, 3500
\texttelugutha .... 2945, 3115, 3116
                               \textUpsilon 1204, 1335, 1412-1417, 1449
                      2985, 3226
                               \t 1238, 1316-1319, 1324-
\textteluguthree .....
\texttelugutta .... 2939, 3073, 3074
                                    1327, 1332-1334, 1356-1359, 1449
\textteluguttha .... 2940, 3087, 3088
                               \textvariaiota ..... 1249
\texttelugutwo ..... 2984, 3225
                               \textvarsigma ..... 1218, 1448
\textteluguu ..... 2919, 3183
                               \textVhook ..... 1504
\textteluguuu ..... 2920, 3185
                               \textvhook ..... 1505
\textteluguva ..... 2959, 3127, 3128
                               \text{\textXi} ..... 1207, 1450
\textteluguvirama ......
                               \textxi ..... 1241, 1450
     . 2977, 3026, 3051, 3060, 3062,
                               \textYhook ..... 1492
     3064, 3066, 3068, 3070, 3072,
                               \textyhook ..... 1493
     3074, 3076, 3078, 3080, 3082,
                               \textZeta ..... 1209, 1451
     3084, 3086, 3088, 3090, 3092,
                               \textzeta ..... 1243, 1451
     3094, 3096, 3098, 3100, 3102,
                               \thaiAngkhankhu ..... 2865
     3104, 3106, 3108, 3110, 3112,
                               \thaiBoBaimai .....
     3114, 3116, 3118, 3120, 3122,
                               \thaiChoChan .... 2787
     3124, 3126, 3128, 3130, 3132, 3134
                               \thaiChoChang ..... 2789
\texttt{textteluguvisarga} .. 2914, 3054, 3057
                               \thaiChoChing ..... 2788
\textteluguvocalicl .....
                      2922, 3189
                               \thaiChoChoe .... 2791
                      2981, 3193
\textteluguvocalicll ....
                               \thaiDoChada ..... 2793
                      2921, 3187
\textteluguvocalicr .....
                               \thaiDoDek ..... 2799
                      2980, 3191
\textteluguvocalicrr ....
                               \thaieight ..... 2863
\textteluguvowela ..... 3174
                               \thaifive ..... 2860
\textteluguvowelaa .....
                      2964, 3176
                               \thaiFoFa ......
\textteluguvowelai .....
                      2973, 3198
                               \thaiFoFan ......
\textteluguvowelau .....
                      2976, 3204
                               \thaiFongman .....
\textteluguvowele .....
                      2971, 3194
                               \thaifour .......
                      2972, 3196
                               \thaiHoHip .....
\textteluguvowelee .....
                      2965, 3178
                               \thaiHoNokhuk .....
\textteluguvoweli .....
\textteluguvowelii .....
                      2966, 3180
                               2974, 3200
\textteluguvowelo .....
                               \thaiKhoKhon .... 2784
\textteluguvoweloo .....
                      2975, 3202
                               \thaiKhoKhuat ..... 2782
\verb|\textteluguvowelu| \dots \dots 2967, 3182
                               \verb|\textteluguvoweluu| \dots \dots 2968, 3184
                               \thaiKhomut ..... 2866
\textteluguvowelvocalicl ..... 3188
                               \thaiKhoRakhang ..... 2785
\textteluguvowelvocalicll .... 3192
                               \thaiKoKai ..... 2780
\textteluguvowelvocalicr . 2969, 3186
                               \thaiLakkhangyao ..... 2844
\textteluguvowelvocalicrr
                      2970, 3190
                               \thaiLoChula ..... 2823
                               \thaiLoLing ..... 2816
\textteluguya ..... 2954, 3089, 3090
\textteluguzero ..... 2982, 3223
                               \thaiLu ..... 2817
\texttesh ..... 1510
                               \thaiMaiEk ..... 2847
```

\thaiMaiHanakat	2828	\thaiToTao 2	200
\thaiMaitaikhu		\thaitwo 2	
\thaiMaiTho		\thaiWoWaen	
\thaiMaiTri		\thaiYamakkan	
\thaiMaiyamok		\thaiYoYak	
\thaiMoMa		\thaiYoYing 2	
\thaiNgoNgu		\thaizero 2	
\thaiNikhahit		\the 185, 440, 442, 449, 460, 461, 473,	
\thainine		478, 484, 601, 605, 612, 708,	
\thaiNoNen		711, 713, 825, 830, 832, 843,	
\thaiNoNu		1457, 1545, 1550, 1555, 1560,	
\thaiOAng		1630, 3029, 3041, 3047, 3552, 3	
\thaione		\thr@@ 1081, 1	
\thaiPaiyannoi		\tlcbb 3077, 3	
\thaiPhinthu		\tlcbbb 3129, 3	
\thaiPhoPhan		\tlcbbh 3061, 3	
\thaiPhoPhung		\tlcbc 3113, 3	
\thaiPhoSamphao		\tlcbch 3091, 3	
\thaiPoPla		\tlcbD 3059, 3	
\thaiRoRua		\tlcbd 3081, 3	
\thaiRu		\tlcbDh 3105, 3	
\thaiSaraA		\tlcbdh 3065, 3	
\thaiSaraAa		\tlcbeb 3131, 3	
\thaiSaraAe		\tlcbg 3119, 3	
\thaiSaraAiMaimalai		\tlcbgh 3103, 3	
\thaiSaraAiMaimuan		\tlcbH 3085, 3	
\thaiSaraAm		\tlcbj 3093, 3	
\thaiSaraE		\tlcbjh 3083, 3	
\thaiSaraI		\tlcbk 3067, 3	
\thaiSaraIi	2832	\tlcbkh 3117, 3	
\thaiSara0	2841	\tlcbL 3097, 3	
\thaiSaraU	2835	\tlcbl 3123, 3	
\thaiSaraUe	2833	\tlcbm 3071, 3	
\thaiSaraUee	2834	\tlcbN 3107, 3	3108
\thaiSaraUu	2836	\tlcbn 3101, 3	3102
\thaiseven	2862	\tlcbNG 3063, 3	3064
\thaisix	2861	\tlcbnx 3095, 3	3096
\thaiSoRusi	2820	\tlcbob 3133, 3	3134
\thaiSoSala	2819	\tlcbp 3109, 3	3110
\thaiSoSo	2790	\tlcbph 3099, 3	3100
\thaiSoSua	2821	\tlcbR 3121, 3	3122
\thaiThanthakhat	2851	\tlcbr 3111, 3	3112
\thaiThoNangmontho	2796	\tlcbS 3075, 3	3076
\thaiThoPhuthao	2797	\tlcbs 3079, 3	
\thaiThoThahan	2802	\tlcbSh 3069, 3	3070
\thaiThoThan	2795	\tlcbT 3073, 3	
\thaiThoThong	2803	\tlcbt 3125, 3	3126
\thaiThoThung	2801	\tlcbTh 3087, 3	3088
\thaithree	2858	\tlcbth 3115, 3	3116
\thaiToPatak	2794	\tlcbv 3127, 3	3128

\tlcbY 3089, 3090	\uc@comb@code . 431, 432, 434, 435, 481
,	\uc@combine
\tluas	\uc@combining@prechar 431
	\uc@combiningeprechar
•	
•	442, 443, 449, 475, 478, 482, 484
\tlvoa 3010, 3012, 3174, 3175	\uc@combtoksb
\tlvoE 3196, 3197	<u>426</u> , 437, 441, 460, 461, 463
\tlvoe	\uc@dclc
\tlvoI	\uc@embedfont@enc 762, 769
\tlvoi 3178, 3179	\uc@embedfont@fontstart 765, 766, 771, 778, 781, 786
\tlvoLx	
\tlvolx	\uc@embedfont@num . 772, 780, 783, 787
\t1vo0 3202, 3203	\uc@embedfont@option 767, 773, 793
\tlvoo 3200, 3201	\uc@embedfont@start
\tlvoow	763, 770, 775, 779, 788, 795
\tlvoRx 3190, 3191	\uc@errordrawopt 307, 334, <u>360</u>
\tlvorx 3186, 3187	\uc@errormsg
\tlvoU 3184, 3185	\uc@firstofmany 473, <u>715</u>
\tlvou 3182, 3183	\uc@got 408, 465, 517, 548,
\tlvoX 3014-3016, 3051	587, 600, 602, 683, 684, 704, 708
\tlvoy 3198, 3199	\uc@inputencoding 734, 739
\tobe	\uc@localdeferr 246, 277, 413
\toks 599, 601, 605, 612, 706,	\uc@magic@glue 131, 444, 445, 447, 485
708, 709, 711, 713, 1457, 1545,	\uc@newcommand 67-69, 71,
1550, 1555, 1560, 3029, 3041, 3047	79, 102, 103, 141, 142, 165, 201,
\tracingassigns	204, 234, 237, 241, 243, 274,
\tracingonline	305, 332, 361, 395, 411, 413,
\tsadi 3626	422, 429, 446, 455, 457, 469,
\tsere 3605	489, 528, 535, 537, 541, 543,
\tsh	545, 559, 572, 573, 575, 577,
\tw@ 827, 841, 1083, 1086, 1097	579, 581, 583, 585, 618, 622,
\typein	623, 626, 629, 633, 681, 682, 701
\typeout 179, 190, 460, 484,	\uc@notloaderr 211, 213, 216, 218, 234
560, 621, 710, 1001, 1087, 1455,	\uc@output 248, 279, 389, <u>395</u> , 456, 4333
1457, 1460, 1465, 1518, 1545,	\uc@prechar 412
1550, 1555, 1560, 1592, 1693,	\uc@prechar@exec 400, 411, 433, 462
1698, 1716, 1719, 1813, 3029,	\uc@read@definition 693, 697, 698, 705
3041, 3047, 3457, 3550, 3552, 4307	\ucosecondtry <u>164</u> , 493, 494, 524
TT	\uc@spacechar 822, 824
U	\uc@spc <u>163,</u> 254, 258,
\U 231, 1019, 3810, 4216	285, 289, 312, 316, 339, 343,
\u 930, 1156, 1855, 3803	370, 371, 377, 383, 385, 501,
\uc@char@notloaded . 212, 217, 218, <u>489</u>	506, 574, 576, 578, 580, 582,
\uc@check@magicglue 430, 446, 474	584, 596, 617, 711, 822, 878, 1012
\uc@checkopt@change 242	\uc@temp@a 104, 105, 108,
\uc@checkopt@error 238, <u>242</u>	414, 419, 449, 450, 456, 491,
\uc@checkopt@errorstick 242	492, 502, 513, 515, 519, 544,
\uc@checkopt@stick $\dots 242$	556, 560, 563, 567, 751, 753,
\uc@checkopts 221, <u>237</u>	789, 794, 824, 835, 839, 1079–
\uc@cmb $123, 125, \underline{129}, 473$	1089, 1097, 1098, 1106, 1107,

1111, 1114, 1116, 1118, 3004,	\uni@declcharopt 544, 546, 551, <u>559</u>
3005, 3007, 3482, 3483, 4290,	\uni@resetcatcodes
4293, 4296, 4299, 4302, 4306, 4307	184, 518, 531, 590, <u>633,</u> 702
\uc@temp@b 175, 176, 184, 190, 191,	\unichar 226, 392, 487, 536,
364, 371, 377, 383, 495, 501,	<u>571</u> , 810, 813, 825, 830, 871,
506, 1119, 1134, 1456, 1461, 1466	923, 946, 4316, 4317, 4332, 4335
\uc@temp@c 178, 193, 381,	\unicode@charfilter 401, 404, 622
388, 686, 688, 694, 1076, 1094, 1103	\unicode@combine 166, 429, 457, 480
\uc@temp@d 193, 202, 203, 1519	\unicode@delay
\uc@tempa 63, 65, 717, 718, 737	\unicode@empty 360, 362, 363
\uc@tempb	\unicode@error@unknown 370, 500, <u>680</u>
\uc@temptokena 426, 432, 433, 442	\unicode@error@unknown@ 681, 682
\uc@text@composite	\unicode@graphicscmd
\uc@throw 407, 408, 464, 465	170, 171, 179, 180, 196
\uc@vbsetchar 801, 810, 813, 814	\unicode@graphicsdir . 168, 169, 176
\uc@warn@nocombine 125, 129, 422	\unicode@invalid 165, 420, 508, 690, 697
\uccommand{\uccommand}	\unicode@invalidglyph . 199, 200, <u>201</u>
\uccode 803, 929, 930, 960	\unicode@knownoptions 49, 64
\ucs@protected@unichar	\unicode@numtohex
	<u>141</u> , 172, 175, 202, 364, 495
\ucshyper@directfalse 4275	\unicode@numtohex@ 141, 142
\ucshyper@directtrue 4274, 4276	\unicode@read@definition 692, 701
\ucshyper@old@pdfstringdef 4328, 4346	\UnicodeCharFilter
\ucshyper@prerenderfalse 4277	539, 622, 625, 628, 631
\ucshyper@prerendertrue . 4273, 4278	\unicodecircle 572
\UCSProtectionIeC	\unicodecombine
\UCSProtectionNone	. 124, 127, 457, 467, 813, 814, 825
\UCSProtectionUnichar	\UnicodeEmbedFont 758, <u>760</u>
\UCSPU 4282, 4311, 4335, 4350	\unicodesmall
\ucspu@err 4310, 4319	\unicodesquare $\dots \dots \underline{572}$
\UCSPU@tmp 4281, 4283	\unicodesub
\UCSPUrange 4347, 4353	\unicodesuper
\undefined 3-	\unicodevertical
10, 13, 14, 20, 32, 33, 41, 45–47,	\unicodevirtual 191, 199, 200, <u>455</u>
72, 80, 88, 110, 113, 124, 126,	\unicodewide
130, 135, 168, 170, 401, 407,	\unistring 821, 838
408, 412, 431, 432, 435, 464,	\univerb 800, <u>804</u>
465, 561, 685, 693, 697, 716,	\unskip
719, 746, 749, 761, 769, 770,	\uo-prio-infinity
772, 775, 780, 839, 850, 853,	\update@uclc@with@text
854, 861, 867–869, 871, 874,	
1024, 1058, 1070, 1079, 1108,	\uppercase
1114, 1122, 1235, 1437, 1595, 1506, 1607, 1611, 1620, 1625	\usepackage 726, 727, 730, 872
1596, 1607, 1611, 1620, 1625, 1627, 1633, 1651, 1665, 1673	\utf@viii@
1627, 1633, 1651, 1665, 1673,	\utf@viii@err 877,
1681, 1703, 1712, 1818, 1827,	880, 890, 897, 898, 907–909, 964
3421, 3422, 3468, 3472, 4267, 4284 \uni@activate@option 59, 61, 87	\utf@viii@make 924, 952-954 \utf@viii@map
\uni@char 39, 61, <u>87</u> \uni@char 204, 525, 571	-
	561, 562, 921, 967, 4284, 4285
\uni@dataloaded 88, 520, 532	\utf@viii@undef 886, 942, 944

\utf@viii@undeferr 936, 941, 943, 1022 \utf@viii@xnum	W \w
v1.99 General: Last version by Dominique Unruh	Created makefile