

ucs.sty - Unicode Support

Dominique P. G. Unruh
Wolfgang Jeltsch
David Carlisle (2022 update)*

August 12, 2022

Contents

0	2022 Update Notes	3
1	Usage	4
1.1	Special options	4
1.2	Normal options	5
1.3	Combining mode	6
1.4	Defining unicode data	7
1.5	Known problems	7
2	Thanks	8
3	Implementation	8
3.1	File ucs.sty	8
3.2	File ucsutils.sty	30
3.3	File utf8x.def	34
3.4	File ucsencs.def	39
4	Contributed files	50
4.1	File autofe.sty	50
4.2	File cenccmn.tex	51
4.3	File c00enc.def	52
4.4	File c10enc.def	52

*<https://github.com/LaTeX-Package-Repositories/ucs>

4.5	File c40enc.def	53
4.6	File c42enc.def	53
4.7	File c61enc.def	55
4.8	File lklenc.def	56
4.9	File lklkli.fd	56
4.10	File ldvenc.def	57
4.11	File ldvarial.fd	59
4.12	File ldvc2000.fd	59
4.13	File letenc.def	60
4.14	File letgfzem.fd	73
4.15	File letjiret.fd	73
4.16	File letc2000.fd	73
4.17	File ltaenc.def	73
4.18	File ltaarial.fd	76
4.19	File ltac2000.fd	76
4.20	File ltgenc.def	76
4.21	File ltgc2000.fd	78
4.22	File ltlenc.def	78
4.23	File ltlcmr.fd	83
4.24	File ltwenc.def	84
4.25	File ltwdsque.fd	86
4.26	File ltwdsnol.fd	86
4.27	File ltwdssin.fd	86
4.28	File lucenc.def	87
4.29	File lucarial.fd	88
4.30	File lucc2000.fd	89
4.31	File mkrenc.def	89
4.32	File mkrezra.fd	91
4.33	File mkrhadas.fd	91
4.34	File mkromega.fd	91
4.35	File mkrrashi.fd	91
4.36	File t2denc.def	92
4.37	File t2dcmr.fd	95
4.38	File tengwarDS.enc	95

4.39 File <code>cp1252.enc</code>	99
4.40 File <code>xsenc.def</code>	100
4.41 File <code>xscmr.fd</code>	103
4.42 File <code>ucshyper.sty</code>	103

0 2022 Update Notes

When `ucs/uf8x` was first written, its Unicode support was far more extensive than the standard release, and users could simply opt in via the `[utf8x]` option. In the years since then Standard \LaTeX Unicode support has been extended and enabled by default. Various features such as filenames, `\label` arguments and upper/lower case changing now work by default with UTF-8, but assuming the standard implementation.

With the June 2022 \LaTeX release these incompatibilities meant that simply loading `inputenc` with the `utf8x` option could produce low level \TeX errors.

The original maintainers kindly allowed the \LaTeX project members to make this 2022/08/07 v2.3 release.

The remaining documentation is unchanged but version 2.3 introduces the following changes

- If a document uses `\usepackage[utf8x]{inputenc}` when the `ucs` package has *not* been loaded, a message is issued on the terminal, and the standard `[utf8]` option is used instead.

The warning can be avoided by simply deleting `\usepackage[utf8x]{inputenc}` as UTF-8 is the default encoding.

- If the `ucs` package is loaded explicitly, then the `utf8x.def` file is input in the normal way. `utf8x.def` and `ucs.sty` have both been modified to be more compatible with current \LaTeX releases. Notably making the active characters `\protected` so that they work with the new `\MakeUppercase`.

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 `\unichar{<code>}`, 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 *<name>* by including it in the option list while loading the ucs package, or by using `\SetUnicodeOption{<name>}`. 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.

NB: UTF-8 characters are interpreted by T_EX as a sequence of commands, so don’t use calls like `\macro ä` instead of `\macro{ä}` (this does not apply to ASCII characters).

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` (*env.*) • **combine**: Activates combining mode. See section 1.3.
- `default` (*env.*) • **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 preferred, unless its priority is explicitly given to be smaller.
- `document` (*env.*) • **document**: Every character you define in your document using `\DeclareUnicodeCharacter` 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` (*env.*) • **fasterrors**: When used, the name of an unicode character is not included in error messages any more, which runs much faster.
- `graphics` (*env.*) • **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` (*env.*) • **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 sparsely 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 unexpected results.

`warnunknown` (*env.*) • **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` (*env.*) • **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 `\unicodewide`, `\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.

`ckjbg5` (*env.*) • **ckjbg5**: See the explanation for `ckjgis` 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).

`ckjgb` (*env.*) • **ckjgb**: See the explanation for `ckjgis` 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).

`ckjhangul` (*env.*) • **ckjhangul**: See the explanation for `ckjgis` 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- \LaTeX`).

`ckjgis` (*env.*) • **ckjgis**: 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` (*env.*)
 - `fullmathletters`: This option has been removed. Replace all occurrences by `mathletters`.
- `mathletters` (*env.*)
 - `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` (*env.*)
 - `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` (*env.*)
 - `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` (*env.*)
 - `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{c}). In order to typeset them correctly, we cannot render U+0063 LATIN SMALL LETTER C immediately when it occurs, instead we have to wait whether some combining character is going to follow.

`combine` (*env.*) 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 `TEX` and 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

`\SetUnicodeOption{combine}c\SetUnicodeOption{nocombine}`

(where δ is U+0301 COMBINING ACUTE ACCENT), instead you can use one of the following constructions:

- `\SetUnicodeOption{combine}\unichar{"63}\delta%`
`\SetUnicodeOption{nocombine}`

- `\SetUnicodeOption{combine}\unicodevirtual{c}ó%`
`\SetUnicodeOption{nocombine}` (`\unicodevirtual` takes arbitrary L^AT_EX code and inserts it, as thou it was a Unicode character; do not use Unicode characters inside `\unicodevirtual`).
- `\SetUnicodeOption{combine}\myverbatim|c|%`
`\SetUnicodeOption{nocombine}`
 where `\myverbatim`¹ 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

A unicode character may be defined by

```
\DeclareUnicodeCharacter {code}{macro}
```

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

```
\DeclareUnicodeCharacterAsOptional {code}{option}{macro}
```

where `<code>` is the unicode character number, `<option>` the associated option and `<macro>` the glyph's macro.

This definition is local.

In the automatically loaded data files `\uc@dc1c` should be used instead.

An option `<option>` can be defined by

```
\DeclareUnicodeOption [pkg]{option}
```

If `<pkg>` is supplied, the option is set, if the package `<pkg>` is loaded.

You can add further packages, which automatically set an option, by

```
\LinkUnicodeOptionToPkg {option}{pkg}
```

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.

¹This command is not provided by `ucs.sty`, but some similar command may appear in future.

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

- | | |
|----------------------------------|--|
| <code>\PreloadUnicodePage</code> | <ul style="list-style-type: none"> • <code>\PreloadUnicodePage{3}</code> (the argument to <code>\PreloadUnicodePage</code> is $\lfloor \frac{n}{256} \rfloor$, where n is the number of the character (here $0x3B1 = 945$)) or |
| <code>\PrerenderUnicode</code> | <ul style="list-style-type: none"> • <code>\PrerenderUnicode{α}</code> (the argument to <code>\PrerenderUnicode</code> can contain any L^AT_EX 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. <code>\footnote</code> 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 `cencmn.tex` from,
- Karsten Tinnfeld 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 L^AT_EX-packages for different scripts.

3 Implementation

3.1 File `ucs.sty`

```

1 *ucs.sty
2 % ^^A FIXME: What is the following code for? Is it for people who want to use ucs.sty with P
3 % ^^A          or ConTeXt?
4 \catcode'\@11
5
6 \ifx\AddToHook\undefined\else
7 \AddToHook{package/hyperref/after}{%
8 \def\HyPsd@expand@utfvii{%

```



```

9     \count@"C2
10    \@tempcnta"E0
11    \def\UTFviii@tmp{%
12 \expandafter\def\expandafter~\expandafter####\expandafter1\expandafter~{####1}}%
13 }%
14    \UTFviii@loop
15    \count@"E0
16    \@tempcnta"F0
17    \def\UTFviii@tmp{%
18 \expandafter\def\expandafter~\expandafter####\expandafter1\expandafter####\expandafter2\expa
19 }%
20    \UTFviii@loop
21    \count@"F0
22    \@tempcnta"F5
23    \def\UTFviii@tmp{%
24 \expandafter\def\expandafter~\expandafter####\expandafter1\expandafter####\expandafter2\expa
25 }%
26    \UTFviii@loop
27
28   }
29  }
30 \fi
31
32 \ifx@gobble\undefined\def@gobble#1{}\fi
33 \ifx@gobbletwo\undefined\def@gobbletwo#1#2{}\fi
34 \ifx@gobblethree\undefined\def@gobblethree#1#2#3{}\fi
35 \ifx@gobblefour\undefined\def@gobblefour#1#2#3#4{}\fi
36 \ifx@firstofone\undefined\def@firstofone#1{#1}\fi
37 \ifx@tempcnta\undefined\csname newcount\endcsname\@tempcnta\fi
38 \ifx@tempcntb\undefined\csname newcount\endcsname\@tempcntb\fi
39 \ifx@testopt\undefined
40   \def@testopt#1#2{%
41     \@ifnextchar[#{1}#{1}[#{2}]]}\fi
42 \ifx@protected@testopt\undefined\def@protected@testopt{\expandafter@testopt@gobble}\fi
43 \let@let@token\relax
44 % ^^A FIXME: The previous line was suggested on
45 % ^^A
46 % ^^A           <http://tex.stackexchange.com/questions/113261/conflict-between-ifxetex-and
47 % ^^A
48 % ^^A           where it says the following:
49 % ^^A
50 % ^^A           [The code for optionally defining \@ifnextchar] fails in the case where the
51 % ^^A           immediately preceding use of \@let@token was by \newif. That's because it i
52 % ^^A           \let to \iffalse, meaning that the conditional is unbalanced and everything
53 % ^^A           away'.
54 \ifx@ifnextchar\undefined
55   \def@ifnextchar#1#2#3{%
56     \let\reserved@d=#1%
57     \def\reserved@a{#2}%
58     \def\reserved@b{#3}%
59     \futurelet\@let@token@ifnch}\fi
60 \ifx@ifnch\undefined
61   \def@ifnch{%
62     \ifx@let@token@sptoken

```

```

63     \let\reserved@c@\xifnch
64   \else
65     \ifx\@let@token\reserved@d
66       \let\reserved@c\reserved@a
67     \else
68       \let\reserved@c\reserved@b
69     \fi
70   \fi
71   \reserved@c}\fi
72 \ifx\@inputcheck\undefined\newread\@inputcheck\fi
73 \ifx\IfFileExists\undefined
74 \long\def\IfFileExists#1#2#3{%
75   \openin\@inputcheck#1 %SPACE
76   \ifeof\@inputcheck\def\reserved@a{#3}%
77   \else\closein\@inputcheck\def\reserved@a{#2}%
78   \fi
79   \reserved@a}%
80 \fi
81 \ifx\InputIfFileExists\undefined
82 \long\def\InputIfFileExists#1#2{%
83   \IfFileExists{#1}{#2\input #1 }}
84 \fi
85 \ifx\protect\undefined\let\protect\relax\fi
86 \ifx\@typeset@protect\undefined\let\@typeset@protect\relax\fi
87 \ifx\IeC\undefined\def\IeC{\ifx\protect\@typeset@protect
88   \expandafter\@firstofone\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` $\langle name \rangle$ to test if $\langle name \rangle$ is activated, further the commands `\@unicodeoption` $\langle name \rangle$ and `\@unicodeoptionno` $\langle name \rangle$ 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 $\langle activate \rangle$ 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.

```

89 \def\unicode@knownoptions{}
90 \def\XDeclareUnicodeOption#1#2#3#4#5{%
91   \expandafter\let\csname ifUnicodeOption#2\endcsname\iffalse
92   \expandafter\def\csname UnicodeOption#2true%
93     \expandafter\endcsname\expandafter{%
94     \expandafter\let\csname ifUnicodeOption#2\endcsname\iftrue}%
95   \expandafter\def\csname UnicodeOption#2false%

```

```

96 \expandafter\endcsname\expandafter{%
97 \expandafter\let\csname ifUnicodeOption#2\endcsname\iffalse}%
98 \expandafter\def\csname @unicode@option#2\endcsname{%
99 #3\uni@activate@option{#2}{-}{#4}{#5}}%
100 \expandafter\def\csname @unicode@option#no#2\endcsname{%
101 #3\uni@activate@option{#2}{no}{#4}{#5}}%
102 \ifx~#1~\else\LinkUnicodeOptionToPkg{#2}{#1}\fi

```

Keep a list of known options

```

103 \let\uc@tempa\\\let\\\relax
104 \edef\unicode@knownoptions{\{\#2\}\unicode@knownoptions}%
105 \let\\\uc@tempa
106 }%
107 \let\uc@newcommand\def
108 \uc@newcommand\DeclareUnicodeOption{\@protected@testopt\DeclareUnicodeOption\DeclareUnicodeOption}
109 \uc@newcommand\DeclareUnicodeOption@[#1]#2{%
110 \XDeclareUnicodeOption{#1}{#2}{-}{-}}%

```

\uc@errmsg [[[TO BE DONE]]]

```

111 \uc@newcommand\uc@errmsg#1#2{%
112 \ifx\PackageError\undefined
113 {\newlinechar'\^^J\def\MessageBreak{^^J}%
114 \errhelp{#2}\errmessage{Package ucs: #1}}%
115 \else
116 \PackageError{ucs}{#1}{#2}%
117 \fi
118 }%
119 \uc@newcommand\uc@warnmsg#1{%
120 \ifx\PackageWarning\undefined
121 {\newlinechar'\^^J\def\MessageBreak{^^J}%
122 \message{Package ucs: #1\MessageBreak}}%
123 \else
124 \PackageWarning{ucs}{#1}%
125 \fi
126 }%

```

\uni@activate@option Synopsis: $\langle option \rangle$ $\langle no \rangle$ $\langle on \rangle$ $\langle off \rangle$ $\langle prio \rangle$
This sets the \@unicode@option@ $\langle name \rangle$ and \@unicode@option#no $\langle name \rangle$ commands 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.

```

127 \def\uni@activate@option#1#2#3#4#5{%
128 \ifx\uni@dataloaded\undefined
129 \global\expandafter\def\csname @unicode@option#1\endcsname##1{%
130 \csname UnicodeOption#1true\endcsname
131 \expandafter\def\csname uo-prio-#1\endcsname{##1}#3}%
132 \global\expandafter\def\csname @unicode@option#no#1\endcsname##1%
133 {\csname UnicodeOption#1false\endcsname#4}%

```

Mark this option as in use

```
134 \csname @unicode@option@#2#1\endcsname{#5}\else
135 \uc@errmsg{Option #1 must be activated or deactivated %SPACE
136   at least once in the preamble before using it in the document}{%
137   For optimization causes I must know all %SPACE
138   options before loading any unicode data.\MessageBreak
139   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!

```
140 \def\LinkUnicodeOptionToPkg#1#2{%
141   \AtBeginDocument{\@ifpackageloaded{#2}{\SetUnicodeOption{#1}}{}}%
```

`\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.

```
142 \uc@newcommand\SetUnicodeOption{\@protected@testopt\SetUnicodeOption\SetUnicodeOption@{100}}
143 \uc@newcommand\SetUnicodeOption@[#1]#2{%
144   \edef\uc@temp@a{\@unicode@option@#2}%
145   \expandafter\ifx\csname\uc@temp@a\endcsname\relax
146     \PackageError{ucs}{Unknown unicode option #2}{}%
147   \else
148     \csname\uc@temp@a\endcsname{#1}%
149   \fi}

150 \ifx\ProvidesPackage\undefined\else
151 \ProvidesPackage{ucs}[2022/08/07 v2.3 UCS: Unicode input support]%
152 \fi
```

Loads the global definitions of the unicode data. This is done so early, because we need the option definitions.

```
153 \ifx\@@input\undefined\input uni-global.def \else\input{uni-global.def}\fi
```

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

```
154 \DeclareUnicodeOption{fasterrors}
```

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

```
155 \DeclareUnicodeOption{warnunknown}
```

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

```
156 \DeclareUnicodeOption{graphics}
```

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

```
157 \DeclareUnicodeOption{savemem}
```

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

```
158 \DeclareUnicodeOption{document}
159 \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.

```
160 \DeclareUnicodeOption{default}
161 \SetUnicodeOption[0]{default}
```

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

```
162 \XDeclareUnicodeOption{}{combine}{}%
163 \let\uc@cmb\empty}%
164 \ifx\unicodcombine\undefined\else\unicodcombine\fi
165 \def\uc@cmb{\uc@warn@nocombine}}%
166 \ifx\AtBeginDocument\undefined\else
167 \AtEndDocument{\unicodcombine}\fi
168 \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.

```
169 \def\uc@cmb{\uc@warn@nocombine}}%
```

The usual option processing stuff.

```
170 \ifx\DeclareOption\undefined\else
171 \DeclareOption{showmagickern}{\def\uc@magic@glue{6805678}}%
172 \DeclareOption{hyperref}{\AtEndOfPackage{\RequirePackage{ucshyper}}}%
173 \DeclareOption*{\SetUnicodeOption{\CurrentOption}}\ProcessOptions*
174 \fi
```

Patch some fontencodings.

```
175 \ifx\AtBeginDocument\undefined
176 \uc@warnmsg{Not loading ucsencs.def automatically.\MessageBreak
177 Please load it after initializing fontencodings}%
178 \else
179 \AtBeginDocument{\input{ucsencs.def}}\fi
```

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

```
180 \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. `\langle number \rangle` can be any valid TeX-number. The result contains uppercase letters. The assignment to `\langle target \rangle` is global.

```

181 \uc@newcommand\unicode@numtohex{\protect\unicode@numtohex}%
182 \uc@newcommand\unicode@numtohex@#1#2#3{%
183   {%\let\empty\relax\relax
184     %\ifx\empty\relax\def\empty{}%
185     \count255=#2\relax\gdef#1{}%
186     \count252=#3%
187     \loop
188     \count253=\count252\advance\count253by\count255\relax
189     \ifnum\count253>0%
190     \ifnum\count252>0\advance\count252by-1\relax\fi
191     \count254=\count255%
192     \divide\count255by16%
193     \multiply\count255by16%
194     \advance\count254by-\count255%
195     \xdef#1{\ifcase\count254 0\or1\or2\or3\or4\or5\or6\or7\or
196       8\or9\or A\or B\or C\or D\or E\or F\fi#1}%
197     \divide\count255by16\relax
198     \repeat
199   %\else
200   % \def#1{dec:#2}%
201   %\fi
202   }}

```

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

```
203 \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`

```
204 \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.

```
205 \uc@newcommand\unicode@invalid#1{%
206   \unicode@combine%
```

If use of GIFs is activated, begin a group,...

```
207   \ifUnicodeOptiongraphics{%
```

...calculate URL without `http://` and trailing `.gif`, save it to `\uc@temp@c`

```

208   \ifx\unicode@graphicsdir\undefined
209     \def\unicode@graphicsdir{ucs-glyphs}\fi
210   \ifx\unicode@graphicscmd\undefined
211     \def\unicode@graphicscmd{ucs-getglyph \hex\space \dec\space \path\space}\fi
212   \unicode@numtohex\hex{#1}4%
213   \count255=#1\relax
214   \divide\count255 by256\relax
215   \unicode@numtohex\uc@temp@b{\count255}2%
216   \edef\path{\unicode@graphicsdir/\uc@temp@b/U\hex.ps}%
217   \edef\dec{\number#1}%

```

Test if we already have that image (as PS)

```
218 \IfFileExists{\uc@temp@c}{}{%
```

otherwise run shell commands for download and conversion

```
219 \typeout{Running: \unicode@graphicscmd}%  
220 \immediate\write18{\unicode@graphicscmd}%  
221 }%
```

Try if we have the file now

```
222 \IfFileExists{\path}{%
```

then include it

```
223 \setbox255=\hbox{X}%  
224 \edef\uc@temp@b{\begingroup\noexpand\uni@resetcatcodes  
225 \noexpand\includegraphics[height=\the\ht255, trim=0 22.5 0 17.5]%  
226 {\path}%  
227 \noexpand\ProvidesFile{U\hex.ps}%  
228 [Downloaded glyph for U+\hex]%  
229 \endgroup}%  
230 \typeout{\meaning\uc@temp@b}%  
231 \expandafter\unicodevirtual\expandafter{\uc@temp@b}%  
232 }{%
```

otherwise we give a warning

```
233 \PackageWarning{ucs}{File \uc@temp@d\uc@temp@c.ps %SPACE  
234 not found.\MessageBreak  
235 Use\MessageBreak  
236 \space\space\space\space\unicode@graphicscmd\MessageBreak  
237 or start latex with option -shell-escape\MessageBreak  
238 if you have not already done so.}%
```

and use the standard glyph for unknown characters

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

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

```
240 \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.

```
241 \uc@newcommand\unicode@invalidglyph#1{%  
242 {\unicode@numtohex\uc@temp@d{#1}4%  
243 \fontencoding{OT1}\texttt{[U+\uc@temp@d]}}
```

`\uni@char` Synopsis: `{⟨code⟩}`

Expands into the \LaTeX -macro for unicode character `⟨code⟩`. Loads the corresponding `uni-...def`-file if necessary.

```
244 \uc@newcommand\uni@char#1{%
245   \ucs@protected@unicar@iftrue
246     \expandafter\ifx\csname u-\number#1-h/o\endcsname\relax
247
```

If the character is not defined yet, load it.

```
248   \begingroup
249     % In case \let is not executed, this (until ==) expands
250     % to \let\relax\relax,
251     % otherwise we have \let\uc@notloaderr@gobble
252     % Number of \empty's must equal number of args of \uc@char@notloaded
253     \let\uc@notloaderr@gobble\empty\@gobbletwo\relax\relax
254     % ==
255     \expandafter\endgroup
256     % If \let not executed: Warning is emitted (see |\uc@notloaderr|)
257     % otherwise: |\uc@char@notloaded| is called.
258     \uc@notloaderr{\number#1}\uc@char@notloaded{#1}%
259   \else
260
```

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.

```
261     \expandafter\expandafter\expandafter\uc@checkopts
262     \expandafter\expandafter\expandafter
263     {\csname u-\number#1-h/o\endcsname}{#1}%
264   \fi
265 \else
266   \noexpand\unicar{#1}%
267 \fi
268 }
269 \begingroup
270 \lccode'\A='{\lccode'\B='\}\lccode'\C='\%
271 \lccode'\P='\P\lccode'\U='\U%
272 \lowercase{%
273 \endgroup
274 \uc@newcommand\uc@notloaderr#1#2#3{%
275   \ifx\@gobble#1\else[Please insert %SPACE
276     CPrerenderUnicodeACunicarA#1BB into preamble]\fi}}
```

`\uc@checkopts` Synopsis: `{⟨options⟩}{⟨code⟩}`

For the character `⟨code⟩` which has options `⟨options⟩` (each option enclosed in `{}`) the corresponding macro is searched an executed.

```
277 \uc@newcommand\uc@checkopts#1#2{%
```

Start the automaton. See ?? for an explanation.

```
278   \expandafter\uc@checkopt@error\expandafter{\number#2}%
```



```

279   {error}{error}{infinity}#1\@nil
280 }

```

`\uo-prio-infinity` Set the priority of the option `infinity` to something near to $-\infty$. This options does not exist, but is used internally in the automaton described in ??.

```

281 \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
\uc@checkopt@errorstick 282 %% === BEGIN AUTOGENERATED CODE
283 \uc@newcommand\uc@checkopt@stick#1#2#3#4#5{%
284   \ifx\@nil#5%
285   \expandafter\ifx\csname u-#2-#1\endcsname\relax
286   \uc@localdeferr{#1}{#2}%
287   \else
288   \uc@output{\csname u-#2-#1\endcsname}{#1}%
289   \fi
290   \expandafter\@gobblefour
291   \else
292   \iftrue\csname fi\endcsname
293   \csname ifUnicodeOption#5\endcsname
294   \ifnum\csname uo-prio-#2\endcsname>\csname uo-prio-#5\endcsname\uc@spc
295   \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
296   \uc@checkopt@stick
297   \else
298   \ifnum\csname uo-prio-#2\endcsname<\csname uo-prio-#5\endcsname\uc@spc
299   \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
300   \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
301   \uc@checkopt@change
302   \else
303   \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
304   \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
305   \uc@checkopt@error
306   \fi
307   \fi
308   \else
309   \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
310   \fi
311   \fi
312   {#1}{#2}{#5}{#2}%
313 }
314 \uc@newcommand\uc@checkopt@change#1#2#3#4#5{%
315   \ifx\@nil#5%
316   \expandafter\ifx\csname u-#3-#1\endcsname\relax
317   \uc@localdeferr{#1}{#3}%
318   \else
319   \uc@output{\csname u-#3-#1\endcsname}{#1}%
320   \fi
321   \expandafter\@gobblefour
322   \else
323   \iftrue\csname fi\endcsname
324   \csname ifUnicodeOption#5\endcsname

```

```

325     \ifnum\csname uo-prio-#3\endcsname>\csname uo-prio-#5\endcsname\uc@spc
326     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
327     \uc@checkopt@stick
328   \else
329     \ifnum\csname uo-prio-#3\endcsname<\csname uo-prio-#5\endcsname\uc@spc
330     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
331     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
332     \uc@checkopt@change
333   \else
334     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
335     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
336     \uc@checkopt@error
337   \fi
338 \fi
339 \else
340   \expandafter\expandafter\expandafter\uc@checkopt@stick
341 \fi
342 \fi
343 {#1}{#3}{#5}{#3}%
344 }
345 \uc@newcommand\uc@checkopt@error#1#2#3#4#5{%
346   \ifx@nil#5%
347     \uc@errordrawopt{#1}{#2, #3}{#4}%
348     \expandafter\@gobblefour
349   \else
350     \iftrue\csname fi\endcsname
351     \csname ifUnicodeOption#5\endcsname
352     \ifnum\csname uo-prio-#4\endcsname>\csname uo-prio-#5\endcsname\uc@spc
353     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
354     \uc@checkopt@errorstick
355   \else
356     \ifnum\csname uo-prio-#4\endcsname<\csname uo-prio-#5\endcsname\uc@spc
357     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
358     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
359     \uc@checkopt@change
360   \else
361     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
362     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
363     \uc@checkopt@error
364   \fi
365 \fi
366 \else
367   \expandafter\expandafter\expandafter\uc@checkopt@errorstick
368 \fi
369 \fi
370 {#1}{#2, #3}{#5}{#4}%
371 }
372 \uc@newcommand\uc@checkopt@errorstick#1#2#3#4#5{%
373   \ifx@nil#5%
374     \uc@errordrawopt{#1}{#2}{#4}%
375     \expandafter\@gobblefour
376   \else
377     \iftrue\csname fi\endcsname
378     \csname ifUnicodeOption#5\endcsname

```

```

379     \ifnum\csname uo-prio-#4\endcsname>\csname uo-prio-#5\endcsname\uc@spc
380     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
381     \uc@checkopt@errorstick
382   \else
383     \ifnum\csname uo-prio-#4\endcsname<\csname uo-prio-#5\endcsname\uc@spc
384     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
385     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
386     \uc@checkopt@change
387   \else
388     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
389     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
390     \uc@checkopt@error
391   \fi
392 \fi
393 \else
394   \expandafter\expandafter\expandafter\uc@checkopt@errorstick
395 \fi
396 \fi
397 {#1}{#2}{#5}{#4}%
398 }
399 % === 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).

```

400 \let\unicode@empty\empty
401 \uc@newcommand\uc@errordrawopt#1#2#3{%

```

Check whether we are in executing context

```

402 \let\unicode@empty\relax\relax
403 \ifx\unicode@empty\relax\let\unicode@empty\empty

```

if yes, operate normally

```

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

```

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

```

406 \expandafter\ifx\csname
407   missing-unicode-warned-\number#1\endcsname\relax
408 \global\expandafter\let\csname
409   missing-unicode-warned-\number#1\endcsname\@ne
410 \unicode@error@unknown\@ne{Character \number#1\uc@spc
411   \uc@spc= U+\uc@temp@b\uc@spc
412   matches no activated options.\MessageBreak
413   Type H to see available options}{#1}%

```

```

414     \else
415     \PackageWarning{ucs}{Character % SPACE
416 % \tobe: nothing rendered?
417     \number#1 \uc@spc= 0x\uc@temp@b\uc@spc
418     appeared again.}%
419     \fi
420     \else

```

Otherwise inform the user of the collision...

```

421     \@getcharinfo\uc@temp@c{#1}%
422     \PackageWarning{ucs}{Character %SPACE
423     \number#1 \uc@spc= 0x\uc@temp@b\uc@spc
424     matches options\MessageBreak
425     \uc@spc\uc@spc\uc@spc#2\MessageBreak
426     with same priority \csname uo-prio-#3\endcsname. %SPACE
427     Selecting option #3.\MessageBreak
428     \uc@temp@c}%

```

and render the glyph corresponding to option $\langle prefopt \rangle$.

```

429     \uc@output{\csname u-#3-#1\endcsname}{#1}%
430     \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.

```

431     \else
432     \noexpand\unichar{#1}%
433     \fi
434 }

```

`\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 $\langle code \rangle$. This allows the macros to yield error messages containing the character code.

```

435 \uc@newcommand\uc@output#1#2{%
436   \ifx\unicode@delay1\let\unicode@delay\relax\else
437     \ifUnicodeOptioncombine

```

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

```

438     \expandafter\uc@combine\expandafter{#1}{#2}%
439     \else

```

Output the character

```
440 \uc@prechar@exec{#2}%
441 % \ifx\unicode@charfilter\undefined
442 % #1}%
443 % \else
444 % \unicode@charfilter{#1}%
445 % \fi
446 \fi
```

If an exception has been thrown by the glyph macro, execute it with `\uc@got` defined to `<code>`.

```
447 \ifx\uc@throw\undefined\else
448 \def\uc@got{#2}\uc@throw\global\let\uc@throw\undefined\fi
449 \fi
450 }%
451 \uc@newcommand\uc@prechar@exec#1{%
452 \ifx\uc@prechar\undefined\else\uc@prechar{#1}\fi}
```

`\uc@localdeferr` [[[TO BE DONE]]]

```
453 \uc@newcommand\uc@localdeferr#1#2{%
454 \@getcharinfo\uc@temp@a{#1}%
455 \PackageError{ucs}{Internal error in character \number#1, %SPACE
456 option #2}{I probably got confused by intermixed local %SPACE
457 and global definitions.\MessageBreak Try to load the needed %SPACE
458 code page via \noexpand\PreloadUnicodePage
459 before declaring anything by yourself.}\uc@temp@a}%
460 \unicode@invalid{#1}%
461 }%
```

`\uc@warn@nocombine` Document me!!![[[TO BE DONE]]]

```
462 \uc@newcommand\uc@warn@nocombine{%
463 \PackageError{ucs}{Please activate option 'combine'}{Composed %SPACE
464 characters can only be rendered correctly, when the option %SPACE
465 'combine' is activated}}
```

`\uc@combtoks` Document me!!![[[TO BE DONE]]]

```
\uc@combtoksb
\uc@temptokena 466 \newtoks\uc@combtoks
467 \newtoks\uc@combtoksb
468 \newtoks\uc@temptokena
```

`\unicode@combine` Document me!!![[[TO BE DONE]]]

```
469 \uc@newcommand\unicode@combine{%
470 \uc@check@magicglue%
471 \ifx\uc@combining@prechar\undefined\global\let\uc@comb@code\undefined\fi
472 \ifx\uc@comb@code\undefined\uc@temptokena{}\else
473 \uc@temptokena\expandafter{\expandafter\uc@prechar@exec
474 \expandafter{\uc@comb@code}}\fi%
475 \global\let\uc@comb@code\undefined
```

```

476 \global\expandafter\expandafter\expandafter\expandafter\expandafter
477 \expandafter\expandafter\uc@combtoksb
478 \expandafter\expandafter\expandafter
479 \expandafter\expandafter\expandafter\expandafter{%
480 \expandafter\expandafter\expandafter\the
481 \expandafter\expandafter\expandafter\uc@combtoksb
482 \expandafter\the\expandafter\uc@temptokena\the\uc@combtoks}%
483 \global\uc@combtoks{}}
484 %\def\uc@magic@glue{680567893}
485 \def\uc@magic@glue{5381}
486 \uc@newcommand\uc@check@magic@glue{%
487 \ifnum\lastskip=\uc@magic@glue\unskip\else
488 \begingroup
489 \edef\uc@temp@a{\the\uc@combtoks}%
490 \ifx\uc@temp@a\empty\else
491 \PackageWarning{ucs}{Magic kern expected. Probably some %SPACE
492 non-unicode characters mixed in while option combine was %SPACE
493 in effect.}\fi\endgroup
494 \fi}

```

`\unicodevirtual`

```

495 \uc@newcommand\unicodevirtual#1{%
496 \def\uc@temp@a##1{#1}\uc@output{\csname uc@temp@a\endcsname}{\FFFF}}

```

`\unicode@combine` Document me!!!![[[TO BE DONE]]]

```

497 \uc@newcommand\unicodecombine{%
498 \ifx\protect\@typeset@protect
499 \unicode@combine%
500 %\typeout{WRITING: \the\uc@combtoksb}%
501 \the\uc@combtoksb
502 \uc@prechar@exec{-1}%
503 \global\uc@combtoksb{}}%

```

If an exception has been thrown by the glyph macro, execute it with `\uc@got` defined to `<code>`.

```

504 \ifx\uc@throw\undefined\else
505 \def\uc@got{-1}\uc@throw\global\let\uc@throw\undefined\fi
506 \else
507 \noexpand\unicodecombine\fi
508 }

```

`\uc@combine` Document me!!!![[[TO BE DONE]]]

```

509 \uc@newcommand\uc@combine#1#2{%
510 \ifx\protect\@typeset@protect
511 \@temptokena\expandafter{#1{}}%
512 \expandafter\expandafter\expandafter\ifx
513 \expandafter\uc@firstofmany\the\@temptokena\uc@firstofmany\uc@cmb
514 \uc@check@magic@glue%
515 \uc@combtoks\expandafter\expandafter\expandafter\expandafter
516 \expandafter\expandafter\expandafter{%

```

```

517     \expandafter\expandafter\expandafter\@gobble
518     \expandafter#1\expandafter{\the\uc@combtoks}}%
519   \else
520     \unicode@combine%
521     \xdef\uc@comb@code{\number#2}%
522     \global\uc@combtoks\expandafter{#1}}%
523   \fi
524   %\typeout{->COMBTOKS: \the\uc@combtoks}%
525   \hskip\uc@magic@glue spplusOptminusOpt %SPACE ; Insert magic glue
526 \else
527   \noexpand\unichar{\number#2}\fi
528 }

```

`\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.

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

Calculate the name of the corresponding file

```

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

```

If the file was not loaded yet (`\langle filename \rangle` 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`

```

532 \expandafter\ifx\csname\uc@temp@a\endcsname\relax\else
533   \uc@secondtry#1\relax\fi
534 \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

```

535   \unicode@numtohex\uc@temp@b{#1}4%
536   \expandafter\ifx\csname
537     missing-unicode-warned-\number#1\endcsname\relax
538   \global\expandafter\let\csname
539     missing-unicode-warned-\number#1\endcsname\@ne
540   \unicode@error@unknown\@ne{Unknown Unicode character % SPACE
541     \number#1 \uc@spc= U+\uc@temp@b,\MessageBreak
542     possibly declared in \uc@temp@a.\MessageBreak
543     Type H to see if it is available with options}{#1}%
544   \else
545     \PackageWarning{ucs}{Unknown character % SPACE
546       \number#1 \uc@spc = 0x\uc@temp@b\uc@spc
547       appeared again.}%
548     \unicode@invalid{#1}%
549   \fi
550 \else

```

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

```
551   \begingroup
```

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

```
552 \ifUnicodeOptionsavemem
553 % \expandafter\let\csname\uc@temp@a\endcsname\@ne
554 \else
555 \global\expandafter\let\csname\uc@temp@a\endcsname\@ne
556 \fi
```

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

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

Reset catcodes to a reasonable default.

```
558 \uni@resetcatcodes
```

Load file.

```
559 \expandafter\InputIfFileExists\expandafter{\uc@temp@a}{%
```

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

```
560 \global\let\uni@dataloaded1%
561 }{%
562 }%
```

End of local group for inputted file

```
563 \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).

```
564 \uc@secondtry#1\relax%
565 \uni@char{#1}%
566 \fi
567 }
```

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

```
568 \uc@newcommand\PreloadUnicodePage#1{%
569 \begingroup
570 \global\expandafter\let\csname uni-#1.def\endcsname\@ne
571 \uni@resetcatcodes
572 \InputIfFileExists{uni-#1.def}{\let\uni@dataloaded1}{%
573 \PackageError{ucs}{Could not find uni-#1.def}{}}%
574 \endgroup}
```

`\PrerenderUnicode` [[[TO BE DONE]]]

```
575 \uc@newcommand\PrerenderUnicode{%
576 \@ifstar{\@prerenderunicode\unicar}{\@prerenderunicode\@gobble}}%
577 \uc@newcommand\@prerenderunicode#1#2{%
578 \begingroup
579 \UnicodeCharFilter\@gobble
580 \let#1\@gobble\setbox0\hbox{#2}\endgroup}
```


`\DeclareUnicodeCharacter` `\DeclareUnicodeCharacter{⟨code⟩}{⟨macro⟩}` is an abbreviation for `\DeclareUnicodeCharacterAsOptional{⟨code⟩}{document}{⟨macro⟩}`.

```
581 \uc@newcommand\DeclareUnicodeCharacter#1#2{%
582 \DeclareUnicodeCharacterAsOptional{#1}{document}{#2}}
```

`\DeclareUnicodeCharacterAsOptional` Synopsis: `{⟨code⟩}{⟨option⟩}{⟨macro⟩}`

`\uc@dclc` Both macros set `⟨macro⟩` to be the glyph macro for the character `⟨code⟩` if option `⟨option⟩` is set.

The glyph macro is stored in `\u-⟨option⟩-⟨code⟩` and `⟨options⟩` is added to the list `\u-⟨code⟩-h/o`, which is a concatenation of entries of the following syntax: `\{⟨option⟩}`.

The following paragraph applies only to `\uc@dclc`: The character is declared globally. If `savemem` is set, the character is only declared, if its code equals `\uc@got` and its 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 `\u-⟨code⟩-h/o` to support informative error messages. An existing character declaration is not overwritten. `\uc@dclc` must not be used outside the automatically loaded `uni-*.def` files.

Note that if a character is declared by `\DeclareUnicodeCharacterAsOptional` locally, and then 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`.

```
583 \uc@newcommand\DeclareUnicodeCharacterAsOptional{%
584 \let\uc@temp@a\relax\uni@declcharopt}
585 \uc@newcommand\uc@dclc#1#2{%
586 \let\next=\uni@declcharopt
587 \ifUnicodeOptionsavemem
588 \ifnum\uc@got=#1\else
589 \let\next=\@gobblethree\fi
590 \fi
591 \ifx\next\uni@declcharopt
592 \expandafter\ifx\csname uni@active@#2\endcsname\relax
593 \let\next\@gobblethree\else
594 \expandafter\ifx\csname u-#2-\number#1\endcsname\relax\else
595 \let\next\@gobblethree\fi\fi
596 \let\uc@temp@a\global
597 \fi
598 \next{#1}{#2}}
```

`\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.

```
599 \uc@newcommand\uni@declcharopt#1#2#3{%
600 %\typeout{Defining: u-#2-\number#1 (\meaning\uc@temp@a)}%
601 \ifx\utf@viii@map\undefined\else
602 \expandafter\utf@viii@map\expandafter{\number#1}\fi
603 \expandafter\uc@temp@a\expandafter\def
```

```

604 \csname u-#2-\number#1\endcsname##1{#3}%\fi
605 \expandafter\ifx\csname u-\number#1-h/o\endcsname\relax
606 \expandafter\def\csname u-\number#1-h/o\endcsname{\fi
607 \expandafter\uc@temp@a\expandafter\edef
608 \csname u-\number#1-h/o\endcsname{%
609 {#2}\csname u-\number#1-h/o\endcsname}%
610 }%

```

`\unicar` Outputs the unicode character number #1.

```
611 \let\unicar\uni@char
```

```

\unicodesuper Commands to apply to compositions which have the flag <super>, <sub>,
\unicodesub <circle>, <square>, <vertical>, <wide> resp. <small> in the unicode database.
\unicodecircle These are needed for some autogenerated macros, but you have to define them by
\unicodesquare yourself. These macros are only used inside \uc@output, \uc@throw can be used.
\unicodevertical
\unicodewide 612 \uc@newcommand\unicodesuper#1{\textsuperscript{#1}}%
\unicodesmall 613 %\uc@newcommand\unicodesub#1{%
614 % \latex@error{\protect\unicodesub\uc@spc not supported}\@eha}
615 %\uc@newcommand\unicodecircle#1{%
616 % \latex@error{\protect\unicodecircle\uc@spc not supported}\@eha}
617 %\uc@newcommand\unicodesquare#1{%
618 % \latex@error{\protect\unicodesquare\uc@spc not supported}\@eha}
619 %\uc@newcommand\unicodevertical#1{%
620 % \latex@error{\protect\unicodevertical\uc@spc not supported}\@eha}
621 %\uc@newcommand\unicodewide#1{%
622 % \latex@error{\protect\unicodewide\uc@spc not supported}\@eha}
623 %\uc@newcommand\unicodesmall#1{%
624 % \latex@error{\protect\unicodesmall\uc@spc not supported}\@eha}

```

`\@getcharinfo` Synopsis: `{\langle target \rangle}{\langle code \rangle}`

Generates information for character `\langle code \rangle` and stores it into `\langle target \rangle`. `uninames.dat` is scanned for this purpose, unless disabled by the option `fasterrors`.

```

625 \uc@newcommand\@getcharinfo#1#2{%
626 \begingroup
627 \countdef\uc@got0\relax\uc@got#2\relax
628 \global\def#1{Character's name unknown}%
629 \def\info##1{\xdef#1{##1}}%
630 \uni@resetcatcodes
631 \ifUnicodeOptionfasterrors
632 \global\def#1{No further informations known % SPACE
633 because of option fasterrors.}\else
634 {\InputIfFileExists{uninames.dat}{}{%
635 \global\def#1{Character database uninames.dat not found. %SPACE
636 \MessageBreak Character \number#2 \uc@spc unknown}}}%
637 \fi
638 %
639 \toks255{}%
640 \def\uc@dclcl##1##2##3{\ifnum##1=\uc@got
641 \toks255\expandafter{\the\toks255, ##2}\fi}%
642 \count255\uc@got\divide\count255by256\relax

```

```

643 %\edef\temp@a{uni-\number\count255.def}%
644 \InputIfFileExists{uni-\number\count255.def}{-}{-}%
645 \expandafter\ifx\expandafter\@nil\the\toks255 \@nil
646 \xdef#1{#1\noexpand\MessageBreak
647     Character is not defined in uni-*.def files}%
648 \else
649 \expandafter\expandafter\expandafter\@getcharinfo@
650 \expandafter\expandafter\expandafter#1%
651 \expandafter\expandafter\expandafter
652 {\expandafter#1\expandafter}\the\toks255 \@nil%
653 \fi
654 \endgroup}
655 \def\@getcharinfo@#1#2, #3\@nil{\gdef#1{#2\MessageBreak
656     Character available with following options:\MessageBreak
657     \uc@spc\uc@spc\uc@spc #3}}

```

`\PrintUnicodeName` Synopsis: `{<number>}`
Prints information on character `<number>` via `\typeout`.

```

658 \uc@newcommand\PrintUnicodeName#1{%
659 \@getcharinfo{\ci}{#1}%
660 \def\MessageBreak{^^J}%
661 \typeout{^^J\ci^^J}}

```

`\UnicodeCharFilter` Synopsis: `{<command>}`
Sets `<command>` to be called as a filter for each glyph macro. The glyph macro is given as the only argument.

```

662 \uc@newcommand\UnicodeCharFilter#1{\let\unicode@charfilter=#1}

```

`\UCSProtectionNone`
`\UCSProtectionIeC`
`\UCSProtectionUnichar`

```

663 \uc@newcommand\UCSProtectionNone{%
664 \def\ucs@protected@unichar{%
665 \UnicodeCharFilter\@firstofone}
666 \uc@newcommand\UCSProtectionIeC{%
667 \def\ucs@protected@unichar{%
668 \UnicodeCharFilter\IeC}
669 \uc@newcommand\UCSProtectionUnichar{%
670 \def\ucs@protected@unichar##1{\ifx\protect\@typeset@protect}%
671 \UnicodeCharFilter\@firstofone}
672 \UCSProtectionIeC

```

`\uni@resetcatcodes` Sets the catcode to reasonable defaults. Used before inputting `uni-...def`-files, because this can occur anywhere. Note that `@` is of category “letter”.

```

673 \uc@newcommand\uni@resetcatcodes{%
674 \endlinechar=13\relax
675 \def\reserved@a##1##2{%
676 \@tempcnta##1\relax
677 \@tempcntb##2\relax
678 \reserved@b
679 }%

```

```

680 \def\reserved@b{%
681   \ifnum\@tempcnta>\@tempcntb\else
682     \reserved@c\@tempcnta
683     \advance\@tempcnta\@ne
684     \expandafter\reserved@b
685     \fi
686   }%
687 \catcode'\ =10\relax
688 \catcode'\#=6\relax
689 \catcode'\$=3\relax
690 \catcode'\%=14\relax
691 \catcode'\&=4\relax
692 \catcode'\|=0\relax
693 \catcode'\^=7\relax
694 \catcode'\_ =8\relax
695 \catcode'\{=1\relax
696 \catcode'\}=2\relax
697 \catcode'\~=13\relax
698 \catcode'\@=11\relax
699 \catcode'\^^I=10\relax
700 \catcode'\^^J=12\relax
701 \catcode'\^^L=12\relax
702 \catcode'\^^M=5\relax
703 \def\reserved@c##1{\catcode##1=12\relax}%
704 \reserved@c{'\!}%
705 \reserved@c{'"%}%
706 \reserved@a{'\'}{'\?'}%
707 \reserved@c{'\[]'%
708 \reserved@c{'\}]'%
709 \reserved@c{'\'}%
710 \reserved@c{'\|'}%
711 \def\reserved@c##1{\catcode##1=11\relax}%
712 \reserved@a{'\A'}{'\Z'}%
713 \reserved@a{'\a'}{'\z'}%
714 \def\reserved@c##1{\catcode##1=15\relax}%
715 \reserved@a{0}{'\^^H}%
716 \reserved@c{'\^^K'}%
717 \reserved@a{'\^^N'}{31}%
718 \catcode"7F=15\relax
719 \relax}

```

`\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.

`\@getcharinfo` is used for the detail message.

```

720 \catcode'\!13\relax
721 \uc@newcommand\unicode@error@unknown{\protect\unicode@error@unknown}%
722 \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.

```

723 {\expandafter\countdef\expandafter\uc@got\expandafter0%
724   \expandafter\relax\expandafter\uc@got\number#3\relax
725 \ifx\measuring@false\undefined\else\measuring@false\fi
726 \@getcharinfo\uc@temp@c{#3}%
727 \ifUnicodeOptionwarnunknown
728   \PackageWarning{ucs}{#2\MessageBreak\uc@temp@c.\MessageBreak
729     Enter I\noexpand!<RET> to define the glyph.}%
730 \ifx#1\@ne\unicode@invalid{#3}\fi
731 \else
732   \let!\unicode@read@definition\catcode'\!13\relax
733   \let\uc@read@definition\undefined
734   \PackageError{ucs}{#2}{\uc@temp@c.\MessageBreak
735     Enter I\noexpand!<RET> to define the glyph.}%
736   \ifx#1\@ne
737     \ifx\uc@read@definition\undefined\unicode@invalid{#3}%
738     \else\uc@read@definition\fi\fi
739 \fi}}
740 \catcode'\!12\relax
741 \uc@newcommand\unicode@read@definition{%
742   \uni@resetcatcodes
743   \typein[\definition]{Please enter definition for %SPACE
744     unicode character \number\uc@got}%
745   \global\let\uc@read@definition\definition
746   \toks255\expandafter{\definition}%
747   \edef\definition{\noexpand\DeclareUnicodeCharacter%
748     {\number\uc@got}{\the\toks255}}%
749   \toks255\expandafter{\definition}%
750   \typeout{Tip:\MessageBreak You may include\MessageBreak
751     \uc@spc\uc@spc\the\toks255\MessageBreak
752     into your document source.}%
753   \the\toks255\relax
754 }

```

`\uc@firstofmany` Use `\uc@firstofmany<args>\uc@firstofmany` to get the first token of `<args>`.

```

755 \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.)

```

756 \ifx\AtBeginDocument\undefined\else
757 \AtBeginDocument{\def\uc@tempa{\@inpenc@undefined@{utf8}}%
758 \ifx\@inpenc@undefined\uc@tempa
759 \ifx\restore@utf@viii@actives\undefined
760 \PackageWarning{ucs}{*****\MessageBreak You %SPACE
761   seem to have loaded inputencoding utf8\MessageBreak (LaTeX kernel %SPACE
762   UTF-8) instead of utf8x (ucs.sty UTF-8).\MessageBreak Probably you %SPACE
763   are compiling a document written for a\MessageBreak
764   pre-august-2004 ucs.sty.\MessageBreak

```

```

765      *****\MessageBreak Please use %SPACE
766      \string\usepackage[utf8x]{inputenc} instead of\MessageBreak
767      \string\usepackage[utf8]{inputenc}.\MessageBreak
768      *****\MessageBreak If you should really want %SPACE
769      to use ucs.sty and kernel's\MessageBreak utf8.def together, use %SPACE
770      \string\usepackage[utf8x,utf8]{inputenc}\MessageBreak to disable %SPACE
771      compatibility mode\MessageBreak
772      *****\MessageBreak Activating compatibility %SPACE
773      mode.\MessageBreak *****\MessageBreak}%
774      \global\let\uc@inputencoding\inputencoding
775      \inputencoding{utf8x}%
776      \def\inputencoding#1{%
777        {\def\uc@tempa{#1}\def\uc@tempb{utf8}\ifx\uc@tempa\uc@tempb
778          \aftergroup\@firstoftwo}else\aftergroup\@secondoftwo\fi}%
779        {\restoreoutfviii@actives}{\uc@inputencoding{#1}}}%
780      \fi\fi
781    }\fi

782 %
783 %
784 </ucs.sty>

```

3.2 File ucsutils.sty

```
785 <*ucsutils.sty>
```

If running under L^AT_EX, 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- \TeX , define `\@ucsutils` directly and then load `ucsutils.sty` using `\input`.

```

786 \ifx\DeclareOption\undefined\else
787 \ProvidesPackage{ucsutils}[2002/04/23 UCS: Auxiliary macros]%
788 \RequirePackage{ucs}%
789 \ifx\@ucsutils\undefined\let\@ucsutils\empty\fi
790 \DeclareOption*{%
791   \edef\uc@temp@a{\csname\CurrentOption\endcsname}%
792   \expandafter\g@addto@macro\expandafter\@ucsutils\expandafter
793   {\expandafter\\ \uc@temp@a}}%
794 \ProcessOptions*%
795 \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.

```
796 {\def\\#1{\ifx#1\relax\global\let#1\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`.

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

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

```
798 \@ucsutils@section\UnicodeEmbedFont
```

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

```
799 ^^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.

```
800 ^^B\def\UnicodeEmbedFont#1{%
```

Define keys for `\setkeys` if not yet done.

```
801 ^^B \ifx\KV@ucembedfont@start\undefined
802 ^^B \define@key{ucembedfont}{encoding}{\def\uc@embedfont@enc{##1}}%
803 ^^B \define@key{ucembedfont}{start}{\def\uc@embedfont@start{##1}}%
804 ^^B \define@key{ucembedfont}{fontstart}%
805 ^^B \def\uc@embedfont@fontstart{##1}}%
806 ^^B \define@key{ucembedfont}{num}{\def\uc@embedfont@fontstart{##1}}%
807 ^^B \define@key{ucembedfont}{option}{\def\uc@embedfont@option{##1}}%
808 ^^B \fi
```

Define defaults.

```
809 ^^B \let\uc@embedfont@enc\undefined % Ignored
810 ^^B \let\uc@embedfont@start\undefined
811 ^^B \def\uc@embedfont@fontstart{0}%
812 ^^B \let\uc@embedfont@num\undefined
813 ^^B \def\uc@embedfont@option{document}%
```

Parse arguments.

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

Error, when no start of range is given.

```
815 ^^B \ifx\uc@embedfont@start\undefined
816 ^^B \uc@errmsg{\string\UnicodeEmbedFont\space
817 ^^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.

```
818 ^^B \edef\uc@embedfont@fontstart{\number\uc@embedfont@fontstart}%
819 ^^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.

```
820 ^^B \ifx\uc@embedfont@num\undefined
821 ^^B \@tempcnta-\uc@embedfont@fontstart
822 ^^B \advance\@tempcnta by256
823 ^^B \edef\uc@embedfont@num{\number\@tempcnta}%
824 ^^B \fi
```

Start real work.

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

```
825 ^^B \@tempcnta0
826 ^^B \@tempcntb\uc@embedfont@fontstart
827 ^^B \loop\ifnum\@tempcnta<\uc@embedfont@num
```

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

```
828 ^^B \advance\@tempcnta by\uc@embedfont@start
```

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

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

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

```
831 ^^B \expandafter\DeclareUnicodeCharacterAsOptional
832 ^^B \expandafter{\expandafter\@tempcnta\expandafter}%
833 ^^B \expandafter{\expandafter\uc@embedfont@option\expandafter}%
834 ^^B \expandafter{\uc@temp@a}%
```

Restore `tempcnta`.

```
835 ^^B \advance\@tempcnta by-\uc@embedfont@start
```

Increase loop variables.

```
836 ^^B \advance\@tempcntb by1
837 ^^B \advance\@tempcnta by1
838 ^^B \repeat
839 ^^B}
```


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

```
840 \@ucsutils@section\univerb
```

\uc@vbsetchar

```
841 ^^B\def\uc@vbsetchar#1#2{%
842 ^^B  \catcode#1\active
843 ^^B  \begingroup\uccode'\~#1\uppercase{\endgroup\protected\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 \unicar.
- 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 \unicar{13}.
- Do not use [as the beginning of the verbatim sequence, this is reserved for future enhancements.

```
844 ^^B\DeclareRobustCommand\univerb[1][\ifx\@nil#1\@nil\else\PackageError{ucs}{%
845 ^^B  \string\univerb\space has optional argument}{%
846 ^^B  \string\univerb[...] is not supported}\fi%
847 ^^B  \bgroup
848 ^^B  \@tempcnta\@ne
849 ^^B  \loop\ifnum\@tempcnta<128\relax
850 ^^B    \uc@vbsetchar\@tempcnta{\noexpand\unicar{\number\@tempcnta}}%
851 ^^B    \advance\@tempcnta by\@ne
852 ^^B  \repeat
853 ^^B  \uc@vbsetchar{32}{\noexpand\unicodecombine\noexpand\unicar{32}}%
854 ^^B  \uc@vbsetchar{13}{\noexpand\unicodecombine\noexpand\leavevmode\noexpand\%
855 ^^B    \noexpand\leavevmode}%
```

\verb@egroup

```
856 ^^B  \def\verb@egroup{%
857 ^^B    \SetUnicodeOption{nocombine}%
858 ^^B    \global\let\verb@balance@group\@empty\egroup}%
859 ^^B  \SetUnicodeOption{combine}%
860 ^^B  \@sverb}
```

[[[TO BE DONE]]]

```
861 \@ucsutils@section\unistring
862 ^^B\def\uc@spacechar{\futurelet\uc@spacechar\empty}\expandafter\uc@spacechar\uc@spc
```

```

863 ^^B\def\@unistring#1{%
864 ^^B  \ifx\uc@temp@a\uc@spacechar
865 ^^B    \@temptokena\expandafter{\the\@temptokena\unicodecombine\unicar{32}}%
866 ^^B  \fi
867 ^^B  \ifx\tw@#1\else
868 ^^B    \ifx\@ne#1\else
869 ^^B      \ifnum'#1<128
870 ^^B        \@temptokena\expandafter{\the\@temptokena\unicar{'#1}}%
871 ^^B      \else
872 ^^B        \@temptokena\expandafter{\the\@temptokena#1}%
873 ^^B      \fi
874 ^^B    \fi%
875 ^^B  \expandafter\futurelet\expandafter\uc@temp@a\expandafter\@unistring
876 ^^B  \fi
877 ^^B}
878 ^^B\DeclareRobustCommand\unistring[1]{%
879 ^^B  \let\uc@temp@a\undefined
880 ^^B  \@temptokena{}%
881 ^^B  \@unistring\@ne#1\tw@
882 ^^B  {\SetUnicodeOption{combine}}%
883 ^^B  \the\@temptokena
884 ^^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).

```

885 {\def\#1{%
886   \ifx#1%
887   \uc@errmsg{Can't load \string#1}{You have given the option
888     \expandafter\@gobble\string#1 to ucutils,\MessageBreak but
889     there is no command called \string#1 in ucutils.sty.}%
890   \global\let#1\undefined
891   \fi}
892 \@ucutils}%

```

Clean up.

```

893 \let\@ucutils\undefined
894 \let\@ucutils@section\undefined
895 \catcode2=15
896 %
897 %
898 %
899 </ucutils.sty>

```

3.3 File utf8x.def

```

900 <*utf8x.def>
901 \ifx\ProvidesFile\undefined\else
902 \ProvidesFile{utf8x.def}[2022/08/07 UCS: Input encoding UTF-8]%
903
904 \ifx\uc@char@notloaded\undefined
905
906 \PackageNoteNoLine{ucs}{%

```

```

907 utf8\space disabled,\space assuming\space standard\space utf8\space processing\MessageBreak
908 load\space ucs\space package\space to\space force\space utf8\space processing}
909
910 \let\ucs@parse@XML@charref\parse@XML@charref
911 \let\ucs@parse@UTFviii@a\parse@UTFviii@a
912 \let\ucs@parse@UTFviii@b\parse@UTFviii@b
913 \AddToHook{begindocument/end}{%
914 \let\parse@XML@charref\ucs@parse@XML@charref
915 \let\parse@UTFviii@a\ucs@parse@UTFviii@a
916 \let\parse@UTFviii@b\ucs@parse@UTFviii@b
917 }
918
919 \protected\def\unichar#1{%
920 \begingroup
921 \count@#1\relax
922 \ifnum\count@>127
923 \parse@XML@charref
924 \else
925 \edef\UTFviii@tmp{\char\the\count@\relax}%
926 \fi
927 \expandafter
928 \endgroup
929 \UTFviii@tmp
930 }
931 %
932 \def\inputencodingname{utf8}
933 % need to re-input this to undo the RawInputEncoding
934 \input{utf8.def}%
935 %
936 \expandafter\expandafter\expandafter\endinput
937 \fi
938 \fi

```

Only load this file once. If it has already been loaded, just execute `\restore@utf@viii@actives`.

```

939 \expandafter\ifx\csname restore@utf@viii@actives\endcsname\relax\else
940 \csname restore@utf@viii@actives\endcsname\expandafter\endinput\fi
941 \count255=\catcode'\@catcode'\@11 %SPACE
942 \ifx@gobble\undefined\def@gobble#1{}\fi
943 \ifx@gobbletwo\undefined\def@gobbletwo#1#2{}\fi

```

Checks if `\unichar` is defined. Otherwise yields an error. This check is delayed until `\begin{document}` if necessary.

```

944 \ifx\AtBeginDocument\undefined\else
945 \ifx\@nodocument\relax\else\expandafter\AtBeginDocument\fi
946 {\ifx\unichar\undefined{\PackageError{utf8x}{%
947 Please use \protect\usepackage{ucs} to support encoding utf8x-{} }\fi}%
948 \fi

```

Requires package `ucs` at end of including `inputenc` package, if still in preamble.

```

949 \ifx\AtEndOfPackage\undefined\else
950 \ifx\@nodocument\relax\else\AtEndOfPackage{\RequirePackage{ucs}}\fi%
951 \fi

```

```

952 \def\utf@viii@err#1{%
953   \PackageError{utf8x}{Character \number#1 \uc@spc appeared alone}{%
954     Characters 128-191 are only allowed as arguments to characters 194-244}}
955 \def\utf@viii@xnum#1#2\utf@viii@err#3#4\@nil{%
956   \ifx\empty#3%
957     \count#1=-1\relax
958   \PackageError{utf8x}{Malformed UTF-8 sequence}{%
959     If the character is an argument, put it in {}}\else
960     \count#1=#3\fi}
961 \def\utf@viii@undef#1#2#3#4{%
962   \begingroup
963   \count0=#1\relax
964   \ifx#3\@nil % Two-byte sequences
965     \expandafter\utf@viii@xnum\expandafter1#2\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
966     \ifnum\count1=-1 \count0=192\count1="1007D\fi
967     \multiply\count0by64\relax
968     \advance\count0by\count1\relax
969     \advance\count0by-12416\relax
970   \else
971     \ifx#4\@nil % Three-byte sequences
972       \expandafter\utf@viii@xnum\expandafter1#2\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
973       \expandafter\utf@viii@xnum\expandafter2#3\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
974       \ifnum\count1=-1 \count0=224\count1=128\count2="1007D\fi
975       \ifnum\count2=-1 \count0=224\count1=128\count2="1007D\fi
976       \multiply\count0by64\relax
977       \advance\count0by\count1\relax
978       \multiply\count0by64\relax
979       \advance\count0by\count2\relax
980       \advance\count0by-925824\relax
981     \else % Four-byte sequences
982       \expandafter\utf@viii@xnum\expandafter1#2\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
983       \expandafter\utf@viii@xnum\expandafter2#3\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
984       \expandafter\utf@viii@xnum\expandafter3#4\empty\empty\empty\empty\empty\empty\empty\empty\empty\empty
985       \ifnum\count1=-1 \count0=240\count1=128\count2=128\count3="1007D\fi
986       \ifnum\count2=-1 \count0=240\count1=128\count2=128\count3="1007D\fi
987       \ifnum\count3=-1 \count0=240\count1=128\count2=128\count3="1007D\fi
988       \multiply\count0by64%
989       \advance\count0by\count1%
990       \multiply\count0by64%
991       \advance\count0by\count2%
992       \multiply\count0by64%
993       \advance\count0by\count3%
994       \advance\count0by-"3C82080\relax
995     \fi\fi
996   \begingroup\expandafter\utf@viii@map\expandafter{\number\count0}\endgroup
997   \expandafter\endgroup
998   \expandafter\unichar\expandafter{\number\count0}}%
999 \def\utf@viii@make#1#2#3#4#5#6{%
1000   \count255=#1\relax
1001   \loop\ifnum\count255<#2\relax
1002     \catcode\count255\active
1003   \begingroup
1004     \uccode'\~\count255%
1005     \uccode'u'\u%

```

```

1006 \uppercase{%
1007 \endgroup
1008 \protected\edef~%
1009 #3{\noexpand\expandafter\noexpand\ifx\noexpand\csname u8-\number\count255-#4\noexpand\endcs
1010 \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`

```

1011 \let\noexpand\utf@viii@undeferr
1012 \noexpand\@gobble\noexpand\empty\noexpand\empty
1013 \noexpand\empty\noexpand\empty\noexpand\@gobbletwo\relax\relax
1014 % ===
1015 \noexpand\expandafter\endgroup
1016 % If \let not executed: \utf@viii@undeferr is called
1017 % otherwise: \utf@viii@undef.
1018 \noexpand\utf@viii@undeferr{\noexpand\string\noexpand~\noexpand\string#6}%
1019 \noexpand\utf@viii@undef{\number\count255}#5%
1020 \noexpand\else
1021 \noexpand\expandafter\noexpand\unichar\noexpand\expandafter{%
1022 \noexpand\csname u8-\number\count255-#4\noexpand\endcsname}\noexpand\fi}%
1023 \advance\count255by1\relax
1024 \repeat}%

1025 \def\restore@utf@viii@actives{%
1026 \let\@inpenctest\relax
1027 \utf@viii@make{194}{224}{###1}{\noexpand\string###1}{###1}\noexpand\@nil\noexpand\@nil
1028 \utf@viii@make{224}{240}{###1###2}{\noexpand\string###1\noexpand\string###2}{###1}{#
1029 \utf@viii@make{240}{245}{###1###2###3}{\noexpand\string###1\noexpand\string###2\noexp
1030 %
1031 \count255=128\relax
1032 \loop\ifnum\count255<192\relax
1033 \catcode\count255\active
1034 \begingroup
1035 \uccode'\~\count255 %SPACE
1036 \uppercase{%
1037 \endgroup
1038 \protected\edef~}%
1039 {\noexpand\utf@viii@err{\number\count255}}%
1040 \advance\count255by1\relax
1041 \repeat}%

1042 \def\utf@viii@map#1{%
1043 \begingroup
1044 \count0=#1\divide\count0by64\relax
1045 \ifnum#1<"80\relax
1046 % ASCII is not handled by utf8x.def
1047 \else\ifnum#1<"800\relax
1048 \count1=-\count0\multiply\count1by64\advance\count1by#1\relax
1049 \advance\count0by192\advance\count1by128\relax
1050 \begingroup
1051 \lccode'\B=\count1 %SPACE
1052 \lowercase{%
1053 \endgroup
1054 % \tracingassigns=3 \tracingonline=3

```

```

1055     \expandafter\gdef\csname u8-\number\count0-B\endcsname}{#1}%
1056 \else\ifnum#1<"10000\relax
1057   \count2=-\count0\multiply\count2by64\advance\count2by#1\relax
1058   \divide\count0by64 %SPACE
1059   \count1=-\count0\multiply\count1by4096\advance\count1by#1%
1060   \divide\count1by64%
1061   \advance\count0by224\advance\count1by128\advance\count2by128 %SPACE
1062   \begingroup
1063     \lccode'\B=\count1 %SPACE
1064     \lccode'\C=\count2 %SPACE
1065     \lowercase{%
1066   \endgroup
1067   \expandafter\gdef\csname u8-\number\count0-BC\endcsname}{#1}%
1068 \else\ifnum#1<"110000 %SPACE
1069   \count3=-\count0\multiply\count3by64\advance\count3by#1\relax
1070   \divide\count0by64 %SPACE
1071   \count2=-\count0\multiply\count2by4096\advance\count2by#1%
1072   \divide\count2by64%
1073   \divide\count0by64 %SPACE
1074   \count1=-\count0\multiply\count1by262144\advance\count1by#1%
1075   \divide\count1by4096 %SPACE
1076 %   \typeout{\number#1=\number\count0*262144+\number\count1*4096+\number\count2*64+\number
1077   \advance\count0by240\advance\count1by128%
1078   \advance\count2by128\advance\count3by128 %SPACE
1079   \begingroup
1080     \lccode'\B=\count1 %SPACE
1081     \lccode'\C=\count2 %SPACE
1082     \lccode'\D=\count3 %SPACE
1083     \lowercase{%
1084   \endgroup
1085   \expandafter\gdef\csname u8-\number\count0-BCD\endcsname}{#1}%
1086 \else
1087   \PackageWarning{utf8x}{Invalid code position \number#1 \uc@spc
1088     defined,\MessageBreak unrepresentable in UTF-8}%
1089 \fi\fi\fi\fi
1090 \endgroup
1091 }
1092 \begingroup
1093   \lccode'\A='\{\lccode'\B='\}\lccode'\C='\%
1094   \lccode'\P='\P\lccode'\U='\U%
1095   \lowercase{%
1096 \endgroup
1097 \def\utf@viii@undeferr#1#2#3#4#5#6{%
1098   \ifx@gobble#1\else[Please insert CPrerenderUnicodeA#1B into preamble]\fi}}

```

Checks (at `\begin{document}`) whether some utf8-chars have been redefined (e.g. by `polutonikogreek.ldf`). Warns and corrects if necessary.

```

1099 \ifx\AtBeginDocument\undefined\else
1100 \ifx@nodocument\relax\else
1101   \AtBeginDocument{%
1102   \begingroup
1103     \expandafter\def\expandafter\temp@a\expandafter#\expandafter1%
1104     \string\utf@viii@#2\@nil{%
1105       \ifx@nil#2\@nil\count2\count0\else\count1\count0\fi}%

```

```

1106 \count0=128 \count1=0 \count2=0 %SPACE
1107 \loop\ifnum\count0<245 %SPACE
1108 \ifnum\count0=192 \advance\count0by2 \fi
1109 \lccode'\~\count0 %SPACE
1110 \ifnum\catcode\count0=13 %SPACE
1111 \lowercase{%
1112 \expandafter\expandafter\expandafter\temp@a\expandafter\meaning\expandafter~%
1113 \string\utf@viii@\@nil}%
1114 \else
1115 \count2\count0\fi
1116 \advance\count0by1 %SPACE
1117 \repeat
1118 \ifnum\count1=0 \else\ifnum\count2=0 \else
1119 \PackageWarning{utf8x.def}{Character(s) \number\count2\space\space
1120 etc. got redefined somewhere.\MessageBreak
1121 Restoring to its utf8x-meaning}%
1122 \aftergroup\restore@utf@viii@actives
1123 \fi\fi
1124 \endgroup}%
1125 \fi
1126 \fi

```

Restore @

```

1127 \catcode'\@=\count255\relax
1128 \csname restore@utf@viii@actives\endcsname
1129 %
1130 %
1131 </utf8x.def>

```

3.4 File ucsencs.def

```

1132 <*ucsencs.def>
1133 \ifx\ProvidesFile\undefined\else
1134 \ProvidesFile{ucsencs.def}[2011/01/21 Fixes to fontencodings LGR, T3]
1135 \fi
1136 \expandafter\edef\csname uc@temp@d\endcsname{%
1137 \noexpand\catcode'\noexpand\@=\number\catcode'\@ \relax
1138 \noexpand\catcode'\noexpand\^=\number\catcode'\^ \relax
1139 \noexpand\catcode'\noexpand\"=\number\catcode'\\" \relax
1140 \noexpand\catcode1=\number\catcode1 \relax
1141 \noexpand\catcode2=\number\catcode2 \relax
1142 }%
1143 \catcode'\@11
1144 \catcode'\\"12
1145 \ifx\@backslashchar\undefined
1146 \edef\@backslashchar{\expandafter\@gobble\string\}\fi
1147 \catcode'\^7
1148 \@tempcnta\catcode1
1149 \@tempcntb\catcode2
1150 \catcode1=13 \relax
1151 \def\uc@temp@c#1
1152 {}%
1153 \def^^A#1{%
1154 \let\uc@temp@a\undefined

```

```

1155 % \ifx#1\newcommand\let\uc@temp@a\providecommand\fi
1156 \ifx#1\def\let\uc@temp@a\thr@@\fi
1157 \ifx#1\DeclareTextSymbol\let\uc@temp@a\@ne\fi
1158 \ifx#1\DeclareTextComposite\let\uc@temp@a\tw@\fi
1159 \ifx#1\DeclareTextCommand\let\uc@temp@a\@ne\fi
1160 \ifx#1\DeclareTextAccent\let\uc@temp@a\@ne\fi
1161 \ifx#1\DeclareTextCompositeCommand\let\uc@temp@a\tw@\fi
1162 \ifx#1\typeout\let\uc@temp@a\typeout\fi
1163 \ifx\uc@temp@a\@ne
1164   \def\uc@temp@a##1##2{%
1165     \expandafter\ifx\csname ##2\string##1\endcsname\relax
1166       \expandafter#1%
1167     \else
1168       \wlog{##2\string##1 already defined.}%
1169       \expandafter\uc@temp@c
1170     \fi##1{##2}}%
1171 \fi
1172 \ifx\uc@temp@a\tw@
1173   \def\uc@temp@a##1##2##3{%
1174     \expandafter\ifx\csname \@backslashchar##2\string##1-\string##3\endcsname\relax
1175       \expandafter#1%
1176     \else
1177       \wlog{\@backslashchar##2\string##1-\string##3 already defined.}%
1178       \expandafter\uc@temp@c
1179     \fi##1{##2}##3}%
1180 \fi
1181 \ifx\uc@temp@a\thr@@
1182   \def\uc@temp@a##1{%
1183     \ifx##1\undefined
1184       \expandafter\def\expandafter##1%
1185     \else
1186       \expandafter\def\expandafter\uc@temp@a
1187     \fi}
1188 \fi
1189 \ifx\uc@temp@a\undefined
1190   \errmessage{ucsencs.def: Dont know how to handle \string#1}%
1191   \let\uc@temp@a#1%
1192 \fi
1193 \uc@temp@a}
1194 \def\uc@temp@b#1{\expandafter\ifx\csname T@#1\endcsname\relax
1195   \catcode1=14\relax\catcode2=14\relax
1196   \else\catcode1=13\relax\catcode2=9\relax\fi}%
1197 \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).

1198 \ProvideTextCommandDefault{\textascii}[1]{\@textascii{#1}}%
1199 \def\@textascii#1{\expandafter\@textascii\string#1\empty\@nil}%
1200 \def\@textascii#1#2\@nil{\ifx#2\empty#1\else#2\fi}%
1201 \def\textasciienencoding{\encodingdefault}%
1202 \def\@textascii@switch#1{\begingroup\@use@text@encoding{\textasciienencoding}\def\textasciien
1203 \let\uc@text@composite\@text@composite
1204 \def\@text@composite#1#2#3\@text@composite%

```



```

1205 \ifx\textasciicomb\expandafter\@secondoftwo\else\expandafter\@firstoftwo\fi
1206 {\uc@text@composite{#1}{#2}{#3}\@text@composite}%
1207 {\uc@text@composite{#1}{#3}\@text@composite}}%
1208 %
1209 \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)
- \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
- `\greekperispomeniiaota`: Perispomeni + subscript iota
- `\greekdasiaoxiaiota`: Dasia and oxia + subscript iota
- `\greekdasiavariaiota`: Dasia and varia + subscript iota
- `\greekdasiaperispomeniiaota`: Perispomeni over dasia + subscript iota
- `\greekpsilioxiaiota`: Psili and oxia + subscript iota
- `\greekpsilivariaiota`: Psili and varia + subscript iota
- `\greekpsiliperispomeniiaota`: Perispomeni over psili + subscript iota

```

1210 % 00 hyphen
1211 % 01 TODO
1212 ^^A\DeclareTextCommand{\textascii}{LGR}[1]{\@textascii@switch{#1}}
1213 ^^A\DeclareTextSymbol{\textpentedeka}{LGR}{2}
1214 ^^A\DeclareTextSymbol{\textpentehkaton}{LGR}{3}
1215 ^^A\DeclareTextSymbol{\textpenteqilioi}{LGR}{4}
1216 ^^A\DeclareTextSymbol{\textpentemuria}{LGR}{5}
1217 ^^A\DeclareTextSymbol{\textstigma}{LGR}{6}
1218 ^^A\DeclareTextSymbol{\textstigmavariant}{LGR}{7}
1219 % 08 adscript iota (done by \textsubiota, "7C)
1220 % 09--0B see 7C (\textsubiota)
1221 % 0C--11 TODO
1222 ^^A\DeclareTextSymbol{\textqoppa}{LGR}{12}
1223 ^^A\DeclareTextSymbol{\textqoppavariant}{LGR}{13}
1224 % 14--17 TODO
1225 ^^A\DeclareTextSymbol{\texteuro}{LGR}{18}
1226 ^^A\DeclareTextSymbol{\textperthousand}{LGR}{19}
1227 % 1A TODO
1228 ^^A\DeclareTextSymbol{\textsanpi}{LGR}{1B}
1229 ^^A\DeclareTextSymbol{\textquotelleft}{LGR}{1C}
1230 ^^A\DeclareTextSymbol{\textquoteright}{LGR}{1D}
1231 ^^A\DeclareTextAccent{\u}{LGR}{1E}
1232 ^^A\DeclareTextAccent{\=}{LGR}{1F}
1233 ^^A\DeclareTextAccent{\textdialytikaperispomeni}{LGR}{20}
1234 % 21 exclamation mark
1235 ^^A\DeclareTextAccent{\!}{LGR}{22}
1236 ^^A\DeclareTextAccent{\textdialytikatonos}{LGR}{23}
1237 ^^A\DeclareTextCommand{\textdialytikaoxia}{LGR}[1]{\textdialytikatonos{#1}}
1238 ^^A\DeclareTextAccent{\textdialytikavaria}{LGR}{24}
1239 ^^A\DeclareTextSymbol{\textpercent}{LGR}{25}
1240 ^^A\DeclareTextSymbol{\textperiodcentered}{LGR}{26}
1241 ^^A\DeclareTextAccent{\'}{LGR}{27}
1242 ^^A\DeclareTextCommand{\textoxia}{LGR}[1]{\@tabacckludge' {#1}}
1243 ^^A\DeclareTextSymbol{\textparenleft}{LGR}{28}
1244 ^^A\DeclareTextSymbol{\textparenright}{LGR}{29}
1245 % 2A asterisk
1246 % 2B plus
1247 % 2C comma
1248 % 2D hyphen
1249 % 2E period

```

1250 % 2F slash
1251 % 30--39 digits 0-9
1252 % 3A colon
1253 ^^A\DeclareTextSymbol{\textanoteleia}{LGR}{"3B}
1254 ^^A\DeclareTextAccent{\textdasia}{LGR}{"3C}
1255 % 3D equal
1256 ^^A\DeclareTextAccent{\textpsili}{LGR}{"3E}
1257 ^^A\DeclareTextSymbol{\textquestion}{LGR}{"3F}
1258 ^^A\DeclareTextAccent{\textdasiaperispomeni}{LGR}{"40}
1259 ^^A\DeclareTextSymbol{\textAlpha}{LGR}{"41}
1260 ^^A\DeclareTextSymbol{\textBeta}{LGR}{"42}
1261 ^^A\DeclareTextAccent{\textdasiavaria}{LGR}{"43}
1262 ^^A\DeclareTextSymbol{\textDelta}{LGR}{"44}
1263 ^^A\DeclareTextSymbol{\textEpsilon}{LGR}{"45}
1264 ^^A\DeclareTextSymbol{\textPhi}{LGR}{"46}
1265 ^^A\DeclareTextSymbol{\textGamma}{LGR}{"47}
1266 ^^A\DeclareTextSymbol{\textEta}{LGR}{"48}
1267 ^^A\DeclareTextSymbol{\textIota}{LGR}{"49}
1268 ^^A\DeclareTextSymbol{\textTheta}{LGR}{"4A}
1269 ^^A\DeclareTextSymbol{\textKappa}{LGR}{"4B}
1270 ^^A\DeclareTextSymbol{\textLambda}{LGR}{"4C}
1271 ^^A\DeclareTextSymbol{\textMu}{LGR}{"4D}
1272 ^^A\DeclareTextSymbol{\textNu}{LGR}{"4E}
1273 ^^A\DeclareTextSymbol{\textOmicron}{LGR}{"4F}
1274 ^^A\DeclareTextSymbol{\textPi}{LGR}{"50}
1275 ^^A\DeclareTextSymbol{\textChi}{LGR}{"51}
1276 ^^A\DeclareTextSymbol{\textRho}{LGR}{"52}
1277 ^^A\DeclareTextSymbol{\textSigma}{LGR}{"53}
1278 ^^A\DeclareTextSymbol{\textTau}{LGR}{"54}
1279 ^^A\DeclareTextSymbol{\textUpsilon}{LGR}{"55}
1280 ^^A\DeclareTextAccent{\textdasiaoxia}{LGR}{"56}
1281 ^^A\DeclareTextSymbol{\textOmega}{LGR}{"57}
1282 ^^A\DeclareTextSymbol{\textXi}{LGR}{"58}
1283 ^^A\DeclareTextSymbol{\textPsi}{LGR}{"59}
1284 ^^A\DeclareTextSymbol{\textZeta}{LGR}{"5A}
1285 % 5B left bracket '['
1286 ^^A\DeclareTextAccent{\textpsiliperispomeni}{LGR}{"5C}
1287 % 5D right bracket
1288 ^^A\DeclareTextAccent{\textpsilioxia}{LGR}{"5E}
1289 ^^A\DeclareTextAccent{\textpsilivaria}{LGR}{"5F}
1290 ^^A\DeclareTextAccent{\'}{LGR}{"60}
1291 ^^A\DeclareTextSymbol{\textalpha}{LGR}{"61}
1292 ^^A\DeclareTextSymbol{\textbeta}{LGR}{"62}
1293 ^^A\DeclareTextSymbol{\textvarsigma}{LGR}{"63}
1294 ^^A\DeclareTextSymbol{\textdelta}{LGR}{"64}
1295 ^^A\DeclareTextSymbol{\textepsilon}{LGR}{"65}
1296 ^^A\DeclareTextSymbol{\textphi}{LGR}{"66}
1297 ^^A\DeclareTextSymbol{\textgamma}{LGR}{"67}
1298 ^^A\DeclareTextSymbol{\texteta}{LGR}{"68}
1299 ^^A\DeclareTextSymbol{\textiota}{LGR}{"69}
1300 ^^A\DeclareTextSymbol{\texttheta}{LGR}{"6A}
1301 ^^A\DeclareTextSymbol{\textkappa}{LGR}{"6B}
1302 ^^A\DeclareTextSymbol{\textlambda}{LGR}{"6C}
1303 ^^A\DeclareTextSymbol{\textmu}{LGR}{"6D}

```

1304 ^^A\DeclareTextSymbol{\textnu}{LGR}{"6E}
1305 ^^A\DeclareTextSymbol{\textomicron}{LGR}{"6F}
1306 ^^A\DeclareTextSymbol{\textpi}{LGR}{"70}
1307 ^^A\DeclareTextSymbol{\textchi}{LGR}{"71}
1308 ^^A\DeclareTextSymbol{\textrho}{LGR}{"72}
1309 ^^A\DeclareTextSymbol{\textautosigma}{LGR}{"73}

```

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.

```

1310 ^^B\ifx\lgr@sig@fix\undefined\def\lgr@sig@fix#1cm#2\@nil{\ifx!#1!\char"9B \fi}\fi
1311 ^^A\DeclareTextCommand{\textsigma}{LGR}{\char"73 \expandafter\lgr@sig@fix\f@family cm\@nil}
1312 ^^A\DeclareTextSymbol{\texttau}{LGR}{"74}
1313 ^^A\DeclareTextSymbol{\textupsilon}{LGR}{"75}
1314 % 76 undefined
1315 ^^A\DeclareTextSymbol{\textomega}{LGR}{"77}
1316 ^^A\DeclareTextSymbol{\textxi}{LGR}{"78}
1317 ^^A\DeclareTextSymbol{\textpsi}{LGR}{"79}
1318 ^^A\DeclareTextSymbol{\textzeta}{LGR}{"7A}
1319 ^^A\DeclareTextSymbol{\guillemotleft}{LGR}{"7B}
1320 % 7C the following commands:
1321 ^^A\DeclareTextCommand{\textsubiota}{LGR}[1]{#1|}
1322 ^^A\DeclareTextCommand{\textpsiliiota}{LGR}[1]{\textpsili{#1}|}
1323 ^^A\DeclareTextCommand{\textdasiiaiota}{LGR}[1]{\textdasia{#1}|}
1324 ^^A\DeclareTextCommand{\textvariaiota}{LGR}[1]{\@tabacckludge' {#1}|}
1325 ^^A\DeclareTextCommand{\textoxiaiota}{LGR}[1]{\@tabacckludge' {#1}|}
1326 ^^A\DeclareTextCommand{\textpsilivariiaiota}{LGR}[1]{\textpsilivaria{#1}|}
1327 ^^A\DeclareTextCommand{\textdasiavariiaiota}{LGR}[1]{\textdasiavaria{#1}|}
1328 ^^A\DeclareTextCommand{\textpsilioxiiaiota}{LGR}[1]{\textpsilioxia{#1}|}
1329 ^^A\DeclareTextCommand{\textdasiaoxiaiota}{LGR}[1]{\textdasiaoxia{#1}|}
1330 ^^A\DeclareTextCommand{\textperispomeniiaiota}{LGR}[1]{\@tabacckludge~ {#1}|}
1331 ^^A\DeclareTextCommand{\textpsiliperispomeniiaiota}{LGR}[1]{\textpsiliperispomeni{#1}|}
1332 ^^A\DeclareTextCommand{\textdasiaperispomeniiaiota}{LGR}[1]{\textdasiaperispomeni{#1}|}
1333 ^^A\DeclareTextComposite{\textsubiota}{LGR}{\textAlpha}{9}
1334 ^^A\DeclareTextComposite{\textsubiota}{LGR}{\textEta}{"A}
1335 ^^A\DeclareTextComposite{\textsubiota}{LGR}{\textOmega}{"B}
1336 ^^A\DeclareTextSymbol{\guillemotright}{LGR}{"7D}
1337 ^^A\DeclareTextAccent{\~}{LGR}{"7E}
1338 ^^A\DeclareTextSymbol{\textemdash}{LGR}{"7F}
1339 ^^A\DeclareTextComposite{\'}{LGR}{\textalpha}{"80}
1340 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textalpha}{"81}
1341 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textalpha}{"82}
1342 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textalpha}{"83}
1343 % 84--87 subiota combinations are created correctly
1344 ^^A\DeclareTextComposite{\'}{LGR}{\textalpha}{"88}
1345 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textalpha}{"89}
1346 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textalpha}{"8A}
1347 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textalpha}{"8B}
1348 % 8C--8F subiota combinations are created correctly
1349 ^^A\DeclareTextComposite{\~}{LGR}{\textalpha}{"90}
1350 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textalpha}{"91}
1351 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textalpha}{"92}
1352 ^^A\DeclareTextSymbol{\textdigamma}{LGR}{"93}

```

1353 % 94--96 subiota combinations are created correctly
1354 % 97 TODO
1355 ^^A\DeclareTextComposite{\'}{LGR}{\texteta}{"98}
1356 ^^A\DeclareTextComposite{\textdasia}{LGR}{\texteta}{"99}
1357 ^^A\DeclareTextComposite{\textpsili}{LGR}{\texteta}{"9A}
1358 % 9B undefined
1359 % 9C--9E subiota combinations are created correctly
1360 % 9F undefined
1361 ^^A\DeclareTextComposite{\'}{LGR}{\texteta}{"A0}
1362 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\texteta}{"A1}
1363 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\texteta}{"A2}
1364 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\texteta}{"A3}
1365 % A4--A7 subiota combinations are created correctly
1366 ^^A\DeclareTextComposite{\~}{LGR}{\texteta}{"A8}
1367 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\texteta}{"A9}
1368 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\texteta}{"AA}
1369 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\texteta}{"AB}
1370 % AC--AF subiota combinations are created correctly
1371 ^^A\DeclareTextComposite{\'}{LGR}{\textomega}{"B0}
1372 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textomega}{"B1}
1373 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textomega}{"B2}
1374 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textomega}{"B3}
1375 % B4--B7 subiota combinations are created correctly
1376 ^^A\DeclareTextComposite{\'}{LGR}{\textomega}{"B8}
1377 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textomega}{"B9}
1378 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textomega}{"BA}
1379 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textomega}{"BB}
1380 % BC--BF subiota combinations are created correctly
1381 ^^A\DeclareTextComposite{\~}{LGR}{\textomega}{"C0}
1382 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textomega}{"C1}
1383 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textomega}{"C2}
1384 ^^A\DeclareTextSymbol{\textDigamma}{LGR}{"C3}
1385 % C4--C6 subiota combinations are created correctly
1386 % C7 undefined
1387 ^^A\DeclareTextComposite{\'}{LGR}{\textiota}{"C8}
1388 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textiota}{"C9}
1389 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textiota}{"CA}
1390 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textiota}{"CB}
1391 ^^A\DeclareTextComposite{\'}{LGR}{\textupsilon}{"CC}
1392 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textupsilon}{"CD}
1393 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textupsilon}{"CE}
1394 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textupsilon}{"CF}
1395 ^^A\DeclareTextComposite{\'}{LGR}{\textiota}{"D0}
1396 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textiota}{"D1}
1397 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textiota}{"D2}
1398 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textiota}{"D3}
1399 ^^A\DeclareTextComposite{\~}{LGR}{\textupsilon}{"D4}
1400 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textupsilon}{"D5}
1401 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textupsilon}{"D6}
1402 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textupsilon}{"D7}
1403 ^^A\DeclareTextComposite{\~}{LGR}{\textiota}{"D8}
1404 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textiota}{"D9}
1405 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textiota}{"DA}
1406 ^^A\DeclareTextComposite{\~}{LGR}{\textiota}{"DB}

```

1407 ^^A\DeclareTextComposite{\~}{LGR}{\textupsilon}{DC}
1408 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textupsilon}{DD}
1409 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textupsilon}{DE}
1410 ^^A\DeclareTextComposite{\"}{LGR}{\textUpsilon}{DF}
1411 ^^A\DeclareTextComposite{\'}{LGR}{\textepsilon}{E0}
1412 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textepsilon}{E1}
1413 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textepsilon}{E2}
1414 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textepsilon}{E3}
1415 ^^A\DeclareTextComposite{\`}{LGR}{\textomicron}{E4}
1416 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textomicron}{E5}
1417 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textomicron}{E6}
1418 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textomicron}{E7}
1419 ^^A\DeclareTextComposite{\'}{LGR}{\textepsilon}{E8}
1420 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textepsilon}{E9}
1421 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textepsilon}{EA}
1422 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textepsilon}{EB}
1423 ^^A\DeclareTextComposite{\`}{LGR}{\textomicron}{EC}
1424 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textomicron}{ED}
1425 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textomicron}{EE}
1426 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textomicron}{EF}
1427 ^^A\DeclareTextComposite{\"}{LGR}{\textiota}{FO}
1428 ^^A\DeclareTextComposite{\textdialyitikavaria}{LGR}{\textiota}{F1}
1429 ^^A\DeclareTextComposite{\textdialyitikatonos}{LGR}{\textiota}{F2}
1430 ^^A\DeclareTextComposite{\textdialyitikaperispomeni}{LGR}{\textiota}{F3}
1431 ^^A\DeclareTextComposite{\"}{LGR}{\textupsilon}{F4}
1432 ^^A\DeclareTextComposite{\textdialyitikavaria}{LGR}{\textupsilon}{F5}
1433 ^^A\DeclareTextComposite{\textdialyitikatonos}{LGR}{\textupsilon}{F6}
1434 ^^A\DeclareTextComposite{\textdialyitikaperispomeni}{LGR}{\textupsilon}{F7}
1435 % F8--FA subiota combinations are created correctly
1436 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textrho}{FB}
1437 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textrho}{FC}
1438 % FD undefined
1439 ^^A\DeclareTextSymbol{\textdexiakeraia}{LGR}{FE}
1440 ^^A\DeclareTextSymbol{\textaristerikeraia}{LGR}{FF}

```

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

```

1441 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textAlpha}{A}
1442 ^^A\DeclareTextCompositeCommand{\`}{LGR}{\textAlpha}{A}
1443 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textAlpha}{>A}
1444 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textAlpha}{<A}
1445 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textAlpha}{\char"5F A}
1446 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textAlpha}{CA}
1447 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textAlpha}{\char"5E A}
1448 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textAlpha}{VA}
1449 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textAlpha}{\char"5C A}
1450 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textAlpha}{@A}
1451 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textEpsilon}{E}
1452 ^^A\DeclareTextCompositeCommand{\`}{LGR}{\textEpsilon}{E}
1453 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textEpsilon}{>E}
1454 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textEpsilon}{<E}
1455 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textEpsilon}{\char"5F E}
1456 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textEpsilon}{CE}
1457 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textEpsilon}{\char"5E E}

```

```

1458 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textEpsilon}{VE}
1459 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textEta}{H}
1460 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textEta}{H}
1461 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textEta}{>H}
1462 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textEta}{<H}
1463 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textEta}{\char"5F H}
1464 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textEta}{CH}
1465 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textEta}{\char"5E H}
1466 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textEta}{VH}
1467 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textEta}{\char"5C H}
1468 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textEta}{@H}
1469 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textIota}{I}
1470 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textIota}{I}
1471 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textIota}{>I}
1472 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textIota}{<I}
1473 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textIota}{\char"5F I}
1474 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textIota}{CI}
1475 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textIota}{\char"5E I}
1476 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textIota}{VI}
1477 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textIota}{\char"5C I}
1478 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textIota}{@I}
1479 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmicron}{O}
1480 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmicron}{O}
1481 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textOmicron}{>O}
1482 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textOmicron}{<O}
1483 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textOmicron}{\char"5F O}
1484 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textOmicron}{CO}
1485 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textOmicron}{\char"5E O}
1486 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textOmicron}{VO}
1487 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textUpsilon}{U}
1488 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textUpsilon}{U}
1489 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textUpsilon}{<U}
1490 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textUpsilon}{CU}
1491 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textUpsilon}{VU}
1492 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textUpsilon}{@U}
1493 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmega}{W}
1494 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmega}{W}
1495 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textOmega}{>W}
1496 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textOmega}{<W}
1497 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textOmega}{\char"5F W}
1498 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textOmega}{CW}
1499 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textOmega}{\char"5E W}
1500 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textOmega}{VW}
1501 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textOmega}{\char"5C W}
1502 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textOmega}{@W}
1503 ^^A\DeclareTextCompositeCommand{\textpsiliiota}{LGR}{\textOmega}{>W|}
1504 ^^A\DeclareTextCompositeCommand{\textdasiaiota}{LGR}{\textOmega}{<W|}
1505 ^^A\DeclareTextCompositeCommand{\textpsilivariaiota}{LGR}{\textOmega}{\char"5F W|}
1506 ^^A\DeclareTextCompositeCommand{\textdasiavariaiota}{LGR}{\textOmega}{CW|}
1507 ^^A\DeclareTextCompositeCommand{\textpsilioxiainiota}{LGR}{\textOmega}{\char"5E W|}
1508 ^^A\DeclareTextCompositeCommand{\textdasiaoxiainiota}{LGR}{\textOmega}{VW|}
1509 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeniainiota}{LGR}{\textOmega}{\char"5C W|}
1510 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeniainiota}{LGR}{\textOmega}{@W|}
1511 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textRho}{<R}

```

Uppercase-lowercase mapping:

```
1512 \ifx \@uclclist\undefined\else
1513 ^^A\def\update@uclc@with@text{%
1514 ^^B \expandafter\def\expandafter\@uclclist\expandafter
1515 ^^B {\@uclclist
```

Not that mapping for `\textautosigma` must come last, otherwise `\MakeLowercase{\textSigma}` is not `\textautosigma`.

```
1516 ^^B \textalpha\textAlpha \textbeta\textBeta \textdelta\textDelta
1517 ^^B \textepsilon\textEpsilon \textphi\textPhi
1518 ^^B \textgamma\textGamma \texteta\textEta \textiota\textIota
1519 ^^B \texttheta\textTheta \textkappa\textKappa
1520 ^^B \textlambda\textLambda \textmu\textMu \textnu\textNu
1521 ^^B \textomicron\textOmicron \textpi\textPi \textchi\textChi
1522 ^^B \extrho\textRho \textsigma\textSigma
1523 ^^B \textvarsigma\textSigma \textautosigma\textSigma
1524 ^^B \texttau\textTau \textupsilon\textUpsilon
1525 ^^B \textomega\textOmega \textxi\textXi \textpsi\textPsi
1526 ^^B \textzeta\textZeta \textdigamma\textDigamma}%
1527 ^^B \let\update@uclc@with@text\empty}
1528 ^^B\update@uclc@with@text
1529 \fi
1530 ^^A\typeout{fontencoding LGR patched}
```

Patches for encoding T3 follow

```
1531 \uc@temp@b{T3}
1532 \def\ifxx#1#2{\toks255{#1=#2}\typeout{ifx:\the\toks255}\ifx#1#2}
```

Older TIPA versions (pre 1.0) do not have `\textscriptg`

```
1533 ^^A\DeclareTextSymbol{\textscriptg}{T3}{103}
1534 ^^A\DeclareTextCommand{\textascii}{T3}[1]{\ifx#1g\char164 \else\@textascii{#1}\fi}
1535 ^^A\typeout{fontencoding T3 patched}
```

Patches for encoding T5 follow

```
1536 \uc@temp@b{T5}
1537 ^^A\DeclareTextCompositeCommand{\~}{T5}{\i}{\~i}
1538 ^^A\DeclareTextCompositeCommand{\`}{T5}{\i}{\`i}
1539 ^^A\DeclareTextCompositeCommand{\'}{T5}{\i}{\`i}
1540 ^^A\typeout{fontencoding T5 patched}
```

Patches for encoding T4 follow

```
1541 \uc@temp@b{T4}
1542 ^^A\DeclareTextCommand\textthbar{T4}{\B h}
1543 ^^A\DeclareTextCommand\textHbar{T4}{\B H}
1544 ^^A\DeclareTextCommand\textbhook{T4}{\m b}
1545 ^^A\DeclareTextCommand\textBhook{T4}{\m B}
1546 ^^A\DeclareTextCommand\textdhook{T4}{\m d}
1547 ^^A\DeclareTextCommand\textDhook{T4}{\m D}
1548 ^^A\DeclareTextCommand\texteopen{T4}{\m e}
1549 ^^A\DeclareTextCommand\textEopen{T4}{\m E}
```



```

1550 ^^A\DeclareTextCommand\textschwa{T4}{\M e}
1551 ^^A\DeclareTextCommand\texteturned{T4}{\M e}
1552 ^^A\DeclareTextCommand\textEreversed{T4}{\M E}
1553 ^^A\DeclareTextCommand\textGammaafrican{T4}{\m G}
1554 ^^A\DeclareTextCommand\textgammalatin{T4}{\m g}
1555 ^^A\DeclareTextCommand\textKhook{T4}{\m K}
1556 ^^A\DeclareTextCommand\textkhook{T4}{\m k}
1557 ^^A\DeclareTextCommand\textDafrican{T4}{\M D}
1558 ^^A\DeclareTextCommand\textdtail{T4}{\M d}
1559 ^^A\DeclareTextCommand\textTretroflexhook{T4}{\M T}
1560 ^^A\DeclareTextCommand\texttretroflexhook{T4}{\M t}
1561 ^^A\DeclareTextCommand\textOopen{T4}{\m O}
1562 ^^A\DeclareTextCommand\textoopen{T4}{\m o}
1563 ^^A\DeclareTextCommand\textIotaafrican{T4}{\m I}
1564 ^^A\DeclareTextCommand\textiotalatin{T4}{\m i}
1565 ^^A\DeclareTextCommand\textFhook{T4}{\m F}
1566 ^^A\DeclareTextCommand\textflorin{T4}{\m f}
1567 ^^A\DeclareTextCommand\textYhook{T4}{\m Y}
1568 ^^A\DeclareTextCommand\textyhook{T4}{\m y}
1569 ^^A\DeclareTextCommand\textEsh{T4}{\m S}
1570 ^^A\DeclareTextCommand\textesh{T4}{\m s}
1571 ^^A\DeclareTextCommand\textThook{T4}{\m T}
1572 ^^A\DeclareTextCommand\textthook{T4}{\m t}
1573 ^^A\DeclareTextCommand\textEzh{T4}{\m Z}
1574 ^^A\DeclareTextCommand\textezh{T4}{\m z}
1575 ^^A\DeclareTextCommand\textChook{T4}{\m C}
1576 ^^A\DeclareTextCommand\textchook{T4}{\m c}
1577 ^^A\DeclareTextCommand\textTbar{T4}{\B T}
1578 ^^A\DeclareTextCommand\texttbar{T4}{\B t}
1579 ^^A\DeclareTextCommand\textVhook{T4}{\m V}
1580 ^^A\DeclareTextCommand\textvhook{T4}{\m v}
1581 ^^A\DeclareTextCommand\textPhook{T4}{\m P}
1582 ^^A\DeclareTextCommand\textphook{T4}{\m p}
1583 ^^A\DeclareTextCommand\textNhookleft{T4}{\m J}
1584 ^^A\DeclareTextCommand\textnhookleft{T4}{\m j}
1585 ^^A\DeclareTextCommand\texttresh{T4}{\tsh}
1586 ^^A\DeclareTextCompositeCommand{\~}{T4}{\textEopen}{\T E}
1587 ^^A\DeclareTextCompositeCommand{\~}{T4}{\texteopen}{\T e}
1588 ^^A\DeclareTextCompositeCommand{\~}{T4}{\textOopen}{\T O}
1589 ^^A\DeclareTextCompositeCommand{\~}{T4}{\textoopen}{\T o}
1590 ^^A\DeclareTextSymbol\textexclamdown{T4}{'275}
1591 ^^A\DeclareTextSymbol\textquestiondown{T4}{'276}
1592 ^^A\DeclareTextAccent\textdblgravecmb{T4}{'237}
1593 ^^A\typeout{fontencoding T4 patched}

```

Clean up.

```

1594 \uc@temp@d
1595 %
1596 %
1597 </uc@sencs.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

```
1598 ⟨*autofe.sty⟩
1599 \ProvidesPackage{autofe}[2002/12/17 Automatic switching of fontencodings]
1600
1601 \let\autofe@mode1
1602
1603 \let\autofe@DeclareTextCommand\DeclareTextCommand
1604 \def\DeclareTextCommand{\autofe@parse@declaretextcommand\autofe@DeclareTextCommand}
1605 \let\autofe@ProvideTextCommand\ProvideTextCommand
1606 \def\ProvideTextCommand{\autofe@parse@declaretextcommand\autofe@ProvideTextCommand}
1607 \let\autofe@DeclareTextSymbol\DeclareTextSymbol
1608
1609 \def\autofe@parse@declaretextcommand#1#2#3{%
1610   \@ifnextchar[%
1611     {\autofe@parse@declaretextcommand@a{#1}{#2}{#3}}%
1612     {\autofe@parse@declaretextcommand@dd{#1}{#2}{#3}}}
1613 \def\autofe@parse@declaretextcommand@a#1#2#3[#4]{%
1614   \@ifnextchar[%
1615     {\autofe@parse@declaretextcommand@aa{#1}{#2}{#3}{#4}}%
1616     {\autofe@parse@declaretextcommand@ad{#1}{#2}{#3}{#4}}}
1617
1618
1619 \def\autofe@parse@declaretextcommand@aa#1#2#3#4[#5]#6{%
1620   %{\toks255{#1{#2}{#3}{#4}[#5]{#6}}\typeout{Running \the\toks255}}%
1621   \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#3}{\autofe@ProvideTextComman
1622     #1{#2}{#3}[#4][#5]{#6}}%
1623 }
1624 \def\autofe@parse@declaretextcommand@ad#1#2#3#4#5{%
1625   %{\toks255{#1{#2}{#3}{#4}[#5]}\typeout{Running \the\toks255}}%
1626   \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#3}{\autofe@ProvideTextComman
1627     #1{#2}{#3}[#4]{#5}}%
1628 }
1629 \def\autofe@parse@declaretextcommand@dd#1#2#3#4{%
1630   %{\toks255{#1{#2}{#3}{#4}}\typeout{Running \the\toks255}}%
1631   \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#3}{#1{#2}{?}}{#4}\fi
1632   #1{#2}{#3}{#4}%
1633 }
1634 \def\DeclareTextSymbol#1#2#3{%
1635   %{\toks255{\autofe@DeclareTextSymbol{#1}{#2}{#3}}\typeout{Running \the\toks255}}%
1636   \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#2}{\autofe@ProvideTextComman
1637     \autofe@DeclareTextSymbol{#1}{#2}{#3}}%
1638 }
1639
1640 \def\autofe@defdef#1#2#3{%
1641   \begingroup
1642     \def\temp@a{#1}\def\temp@b{?}%
1643     \ifx\temp@a\temp@b
```

```

1644     \let\temp@a\@gobbletwo
1645   \else
1646     \ifx\autofe@mode1%
1647       \let\temp@a\@firstoftwo
1648     \else
1649       \let\temp@a\@secondoftwo
1650     \fi
1651   \fi
1652 \expandafter\endgroup
1653 \temp@a
1654 {#2{\fontencoding{#1}\selectfont#3}}}%
1655 {#2{\fontencoding{#1}\selectfont#3}}}%
1656 }
1657
1658 \def\autofe@options{}
1659 \def\autofe@add@fe#1{\g@addto@macro\autofe@options{\RequirePackage[#1]{fontenc}}}
1660 %\DeclareOption{global}{\PackageError{autofe}{Option global not supported yet}{Changing to 1
1661 \DeclareOption{global}{\g@addto@macro\autofe@options{\let\autofe@mode2}}
1662 \DeclareOption{local}{\g@addto@macro\autofe@options{\let\autofe@mode1}}
1663 \DeclareOption{off}{\g@addto@macro\autofe@options{\let\autofe@mode0}}
1664 \DeclareOption*{\expandafter\autofe@add@fe\expandafter{\CurrentOption}}
1665 \ProcessOptions*
1666
1667 \typeout{\meaning\autofe@options}
1668 \autofe@options
1669
1670 \let\autofe@options\undefined
1671 \let\autofe@add@fe\undefined
1672
1673 %
1674 %
1675 </autofe.sty>

```

4.2 File cenccmn.tex

```

1676 <*cenccmn.tex>
1677 \ProvidesFile{cenccmn.tex}[2001/10/25
1678   Macros common to fontencodings C00, C40, C61]%
1679 %\gdef\CJK@plane{***__SET_CJK@plane_before_using_fontencoding_%
1680 %  \f@encoding__***}
1681 \def\CJK@empty#1{%
1682   \ifx\CJK@plane\undefined\def\mandatory@arg{cmr10}\else
1683   \edef\mandatory@arg{\mandatory@arg\CJK@plane}\fi%
1684   \empty@sfcnt#1%
1685   \xdef\font@name{\csname \curr@fontshape/\f@size/%
1686     \ifx\CJK@plane\undefined\else\CJK@plane\fi\endcsname}}
1687 \def\CJK@sub#1{%
1688   \expandafter\ifx\csname CJK@\mandatory@arg/\f@size\endcsname\relax
1689   \expandafter\gdef\csname CJK@\mandatory@arg/\f@size\endcsname{}}%
1690   \sub@sfcnt#1%
1691   \else
1692   \sub@sfcnt\@gobble
1693   \fi}
1694 \def\CJK@DNPgen{%

```

```

1695 \ifx\CJK@plane\undefined\def\external@font{cmr10}\else
1696 \edef\external@font{%
1697   \mandatory@arg\CJK@plane\font@size}\fi
1698 \xdef\font@name{%
1699   \csname \curr@fontshape/\font@size/%
1700   \ifx\CJK@plane\undefined\else\CJK@plane\font@name}\fi}%
1701 \def\CJK@DNP{%
1702 \ifx\CJK@plane\undefined\def\external@font{cmr10}\else
1703 \@tempdimb \font@size\p@
1704 \edef\external@font{%
1705   \mandatory@arg\CJK@plane\optional@arg\space at \the\@tempdimb}\fi
1706 \xdef\font@name{%
1707   \csname \curr@fontshape/\font@size/%
1708   \ifx\CJK@plane\undefined\else\CJK@plane\font@name\endcsname}\endcsname}}
1709 %
1710 \DeclareSizeFunction{CJK}{\CJK@empty\font@warning}
1711 \DeclareSizeFunction{CJKb}{\CJK@empty\font@warning}
1712 \DeclareSizeFunction{sCJK}{\CJK@empty\font@info}
1713 \DeclareSizeFunction{sCJKb}{\CJK@empty\font@info}
1714 \DeclareSizeFunction{CJKsub}{\CJK@sub\font@warning}
1715 \DeclareSizeFunction{CJKssub}{\CJK@sub\font@info}
1716 \DeclareSizeFunction{DNPgen}{\CJK@DNPgen}
1717 \DeclareSizeFunction{DNPgenb}{\CJK@DNPgen}
1718 \DeclareSizeFunction{DNP}{\CJK@DNP}
1719 \DeclareSizeFunction{DNPb}{\CJK@DNP}
1720 %
1721 \@ifpackageloaded{CJK}{}{}%
1722 \AtBeginDocument{%
1723   \@ifpackageloaded{CJK}{%
1724     \PackageError{fontenc C??}{Load fontencoding C00/C40/... after CJK}{%
1725       Otherwise strange things may happen, when you use those encodings}}{}}
1726 \def\CJKresetplane{\let\CJK@plane\undefined}
1727 %%% Local Variables:
1728 %%% mode: latex
1729 %%% coding: utf-8
1730 %%% TeX-master: "../test.tex"
1731 %%% End:
1732 %%% Local IspellDict: british
1733 %
1734 </cencmn.tex>

```

4.3 File c00enc.def

```

1735 <*c00enc.def>
1736 \ProvidesFile{c00enc.def}[2001/10/11 Fontencoding C00 (Big5)]%
1737 \DeclareFontEncoding{C00}{}{}%
1738 \DeclareFontSubstitution{C00}{song}{m}{n}%
1739 \input{cencmn.tex}%
1740 \expandafter\let\csname C00/song/m/n\endcsname\undefined
1741 %
1742 </c00enc.def>

```

4.4 File c10enc.def

```

1743 <*c10enc.def>

```

```

1744 \ProvidesFile{c10enc.def}[2001/10/11 Fontencoding C10 (Big5)]%
1745 \DeclareFontEncoding{C10}{-}{-}%
1746 \DeclareFontSubstitution{C10}{song}{m}{n}%
1747 \input{cencmn.tex}%
1748 \expandafter\let\csname C10/song/m/n\endcsname\undefined
1749 %
1750 </c10enc.def>

```

4.5 File c40enc.def

```

1751 <*c40enc.def>
1752 \ProvidesFile{c40enc.def}[2002/11/25 Fontencoding C40 (JIS)]%
1753 \DeclareFontEncoding{C40}{-}{-}%
1754 \DeclareFontSubstitution{C40}{song}{m}{n}%
1755 \input{cencmn.tex}%
1756 \expandafter\let\csname C40/song/m/n\endcsname\undefined
1757 \def\cjk@Cforty#1#2#3#4{% Takes JIS0208 codepos in hex
1758   {%
1759     \count0="#1#2
1760     \multiply\count0 by94
1761     \advance\count0 by"#3#4
1762     \advance\count0 by-"B3F
1763     \count1\count0
1764     \divide\count0 by256
1765     \multiply\count0 by256
1766     \advance\count1 by-\count0
1767     \divide\count0 by256
1768     %\typeout{C0=\number\count0, C1=\number\count1}%
1769     \edef\temp@a{\ifnum\count0<10 0\fi\number\count0}%
1770     \edef\temp@b{\ifx\temp@a\CJK@plane\else
1771       \def\noexpand\CJK@plane{\temp@a}\noexpand\selectfont\fi
1772       \char\number\count\@ne\space}%
1773     %\typeout{C40: \meaning\temp@b}%
1774     \expandafter}\temp@b%
1775   }%
1776 \DeclareTextCommand\jischar{C40}[1]{\cjk@Cforty#1}
1777 \DeclareTextCommandDefault\jischar[1]{\fontencoding{C40}%
1778   \let\CJK@plane\undefined\cjk@Cforty#1}}
1779 %
1780 %
1781 </c40enc.def>

```

4.6 File c42enc.def

```

1782 <*c42enc.def>
1783 \ProvidesFile{c42enc.def}[2002/11/25 Fontencoding C42 (JISdnp)]%
1784 \DeclareFontEncoding{C42}{-}{-}%
1785 \DeclareFontSubstitution{C42}{song}{m}{n}%
1786 \input{cencmn.tex}%
1787 \expandafter\let\csname C42/song/m/n\endcsname\undefined
1788 \def\cjk@Cfrttw@#1#2#3{%
1789   \advance\count1 by#3
1790   \ifnum\count1>256\advance\count1by-256\def\temp@a{#2}\else\def\temp@a{#1}\fi
1791   %\typeout{#1/#2/#3, \meaning\temp@a, \number\count1}%
1792 }

```

```

1793 \def\cjk@Cfrttw#1#2#3#4{% Takes JIS0208 codepos in hex
1794  %\typeout{JIS: #1#2#3#4}%
1795  {%
1796    \count0="#1#2 \count1="#3#4
1797    \advance\count0by-33
1798    \expandafter\cjk@Cfrttw@
1799    \ifcase\count0
1800    {sy}{err}{-32}\or % 0
1801    {sy}{err}{68}\or % 1
1802    {roma}{err}{0}\or % 2
1803    {hira}{err}{-32}\or % 3
1804    {kata}{err}{-32}\or % 4
1805    {greek}{err}{-32}\or % 5
1806    {russian}{err}{-32}\or % 6
1807    {keisen}{err}{-32}\or % 7
1808    {err}{err}{128}\or % 8
1809    {err}{err}{128}\or % 9
1810    {err}{err}{128}\or % 10
1811    {err}{err}{128}\or % 11
1812    {err}{err}{128}\or % 12
1813    {err}{err}{128}\or % 13
1814    {err}{err}{128}\or % 14
1815    {ka}{err}{-33}\or % 15
1816    {ka}{err}{61}\or % 16
1817    {ka}{kb}{155}\or % 17
1818    {kb}{err}{-7}\or % 18
1819    {kb}{err}{87}\or % 19
1820    {kb}{kc}{181}\or % 20
1821    {kc}{err}{19}\or % 21
1822    {kc}{err}{113}\or % 22
1823    {kc}{kd}{207}\or % 23
1824    {kd}{err}{45}\or % 24
1825    {kd}{ke}{139}\or % 25
1826    {ke}{err}{-23}\or % 26
1827    {ke}{err}{71}\or % 27
1828    {ke}{kf}{165}\or % 28
1829    {kf}{err}{3}\or % 29
1830    {kf}{err}{97}\or % 30
1831    {kf}{kg}{191}\or % 31
1832    {kg}{err}{29}\or % 32
1833    {kg}{err}{123}\or % 33
1834    {kg}{kh}{217}\or % 34
1835    {kh}{err}{55}\or % 35
1836    {kh}{ki}{149}\or % 36
1837    {ki}{err}{-13}\or % 37
1838    {ki}{err}{81}\or % 38
1839    {ki}{kj}{175}\or % 39
1840    {kj}{err}{13}\or % 40
1841    {kj}{err}{107}\or % 41
1842    {kj}{kk}{201}\or % 42
1843    {kk}{err}{39}\or % 43
1844    {kk}{kl}{133}\or % 44
1845    {kl}{err}{-29}\or % 45
1846    {kl}{err}{65}\or % 46

```

```

1847 {km}{err}{-33}\or % 47
1848 {km}{err}{61}\or % 48
1849 {km}{kn}{155}\or % 49
1850 {kn}{err}{-7}\or % 50
1851 {kn}{err}{87}\or % 51
1852 {kn}{ko}{181}\or % 52
1853 {ko}{err}{19}\or % 53
1854 {ko}{err}{113}\or % 54
1855 {ko}{kp}{207}\or % 55
1856 {kp}{err}{45}\or % 56
1857 {kp}{kq}{139}\or % 57
1858 {kq}{err}{-23}\or % 58
1859 {kq}{err}{71}\or % 59
1860 {kq}{kr}{165}\or % 60
1861 {kr}{err}{3}\or % 61
1862 {kr}{err}{97}\or % 62
1863 {kr}{ks}{191}\or % 63
1864 {ks}{err}{29}\or % 64
1865 {ks}{err}{123}\or % 65
1866 {ks}{kt}{217}\or % 66
1867 {kt}{err}{55}\or % 67
1868 {kt}{ku}{149}\or % 68
1869 {ku}{err}{-13}\or % 69
1870 {ku}{err}{81}\or % 70
1871 {ku}{kv}{175}\or % 71
1872 {kv}{err}{13}\or % 72
1873 {kv}{err}{107}\or % 73
1874 {kv}{kw}{201}\or % 74
1875 {kw}{err}{39}\or % 75
1876 {kw}{kx}{133}\or % 76
1877 {kx}{err}{-29}\or % 77
1878 {kx}{err}{65}\or % 78
1879 {kx}{ky}{159}\or % 79
1880 {ky}{err}{-3}\or % 80
1881 {ky}{err}{91}\or % 81
1882 {ky}{kz}{185}\or % 82
1883 {kz}{err}{23}\else % 83
1884 {err}{err}0\fi
1885 \edef\temp@b{\ifx\temp@a\CJK@plane\else
1886 \def\noexpand\CJK@plane{\temp@a}\noexpand\selectfont\fi
1887 \char\number\count\@ne\space}%
1888 %\typeout{C42: \meaning\temp@b}%
1889 \expandafter\temp@b%
1890 }%
1891 \DeclareTextCommand\jischar{C42}[1]{\cjk@Cfrttw#1}
1892 \DeclareTextCommandDefault\jischar[1]{\fontencoding{C42}%
1893 \let\CJK@plane\undefined\cjk@Cfrttw#1}}
1894 %
1895 %
1896 </c42enc.def>

```

4.7 File c61enc.def

```
1897 < *c61enc.def >
```

```

1898 \ProvidesFile{c61enc.def}[2001/10/11 Fontencoding C61 (KSC5601 hangul)]%
1899 \DeclareFontEncoding{C61}{-}{-}%
1900 \DeclareFontSubstitution{C61}{mj}{m}{n}%
1901 \input{cenccmn.tex}%
1902 \expandafter\let\csname C61/mj/m/n\endcsname\undefined
1903 %
1904 </c61enc.def>

```

4.8 File lklenc.def

```

1905 <*lklenc.def>
1906 \ProvidesFile{lklenc.def}[2001/10/17 Okuda (Klingon) Font Encoding LKL]
1907 \DeclareFontEncoding{LKL}{-}{-}
1908 \DeclareFontSubstitution{LKL}{kli}{m}{n}
1909 \DeclareTextSymbol{\klingona}{LKL}{\a}
1910 \DeclareTextSymbol{\klingonb}{LKL}{\b}
1911 \DeclareTextSymbol{\klingonch}{LKL}{\C}
1912 \DeclareTextSymbol{\klingonD}{LKL}{\D}
1913 \DeclareTextSymbol{\klingone}{LKL}{\e}
1914 \DeclareTextSymbol{\klingongh}{LKL}{\G}
1915 \DeclareTextSymbol{\klingonH}{LKL}{\H}
1916 \DeclareTextSymbol{\klingonI}{LKL}{\I}
1917 \DeclareTextSymbol{\klingonj}{LKL}{\j}
1918 \DeclareTextSymbol{\klingonl}{LKL}{\l}
1919 \DeclareTextSymbol{\klingonm}{LKL}{\m}
1920 \DeclareTextSymbol{\klingonn}{LKL}{\n}
1921 \DeclareTextSymbol{\klingonng}{LKL}{\N}
1922 \DeclareTextSymbol{\klingono}{LKL}{\o}
1923 \DeclareTextSymbol{\klingonp}{LKL}{\p}
1924 \DeclareTextSymbol{\klingonq}{LKL}{\q}
1925 \DeclareTextSymbol{\klingonQ}{LKL}{\Q}
1926 \DeclareTextSymbol{\klingonr}{LKL}{\r}
1927 \DeclareTextSymbol{\klingonS}{LKL}{\S}
1928 \DeclareTextSymbol{\klingont}{LKL}{\t}
1929 \DeclareTextSymbol{\klingontlh}{LKL}{\T}
1930 \DeclareTextSymbol{\klingonu}{LKL}{\u}
1931 \DeclareTextSymbol{\klingonv}{LKL}{\v}
1932 \DeclareTextSymbol{\klingonw}{LKL}{\w}
1933 \DeclareTextSymbol{\klingony}{LKL}{\y}
1934 \DeclareTextSymbol{\klingonglotstop}{LKL}{\'}
1935 \DeclareTextSymbol{\klingonzero}{LKL}{\0}
1936 \DeclareTextSymbol{\klingonone}{LKL}{\1}
1937 \DeclareTextSymbol{\klingontwo}{LKL}{\2}
1938 \DeclareTextSymbol{\klingonthree}{LKL}{\3}
1939 \DeclareTextSymbol{\klingonfour}{LKL}{\4}
1940 \DeclareTextSymbol{\klingonfive}{LKL}{\5}
1941 \DeclareTextSymbol{\klingonsix}{LKL}{\6}
1942 \DeclareTextSymbol{\klingonseven}{LKL}{\7}
1943 \DeclareTextSymbol{\klingoneight}{LKL}{\8}
1944 \DeclareTextSymbol{\klingonnine}{LKL}{\9}
1945 %
1946 </lklenc.def>

```

4.9 File lklkli.fd

1947 <*lklkli.fd)

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

```
1948 \ProvidesFile{lklkli.fd}[2001/10/11 Fontfamily kli for Fontencoding LKL]%
1949 \DeclareFontFamily{LKL}{kli}{}%
1950 \DeclareFontShape{LKL}{kli}{m}{n}{<-> pIq}{}%
```

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

```
1951 \DeclareFontShape{LKL}{kli}{m}{sc}{<-> pIq}{}%
1952 %
1953 </lklkli.fd)
```

4.10 File ldvenc.def

```
1954 <*ldvenc.def)
1955 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
1956 \ProvidesFile{ldvenc.def}[2004/10/17 Autogenerated encoding LDV]
1957 \DeclareFontEncoding{LDV}{-}{-}
1958 \DeclareFontSubstitution{LDV}{arial}{m}{n}
1959 \DeclareTextSymbol{\guillemotleft}{LDV}{19}
1960 \DeclareTextSymbol{\guillemotright}{LDV}{20}
1961 \DeclareTextSymbol{\guilsinglleft}{LDV}{14}
1962 \DeclareTextSymbol{\guilsinglright}{LDV}{15}
1963 \DeclareTextSymbol{\i}{LDV}{25}
1964 \DeclareTextSymbol{\quotedblbase}{LDV}{18}
1965 \DeclareTextSymbol{\quotesinglbase}{LDV}{13}
1966 \DeclareTextSymbol{\textasciicircum}{LDV}{'\^}
1967 \DeclareTextSymbol{\textasciitilde}{LDV}{'\~}
1968 \DeclareTextSymbol{\textbackslash}{LDV}{'\}
1969 \DeclareTextSymbol{\textbar}{LDV}{'|}
1970 \DeclareTextSymbol{\textbraceleft}{LDV}{'\{ }
1971 \DeclareTextSymbol{\textbraceright}{LDV}{'\} }
1972 \DeclareTextSymbol{\textdollar}{LDV}{'\$}
1973 \DeclareTextSymbol{\textemdash}{LDV}{22}
1974 \DeclareTextSymbol{\textendash}{LDV}{21}
1975 \DeclareTextSymbol{\textgreater}{LDV}{'\>}
1976 \DeclareTextSymbol{\textless}{LDV}{'\<}
1977 \DeclareTextSymbol{\textquotedblleft}{LDV}{16}
1978 \DeclareTextSymbol{\textquotedblright}{LDV}{17}
1979 \DeclareTextSymbol{\textquotedbl}{LDV}{'\"}
1980 \DeclareTextSymbol{\textquoteleft}{LDV}{'\'}
1981 \DeclareTextSymbol{\textquoteright}{LDV}{'\'}
1982 \DeclareTextSymbol{\textunderscore}{LDV}{95}
1983 \DeclareTextCommand{\textdevanagariandrabindu}{LDV}[1]{#1\char129 }
1984 \DeclareTextCommand{\textdevanagarianusvara}{LDV}[1]{#1\char130 }
1985 \DeclareTextCommand{\textdevanagarivisarga}{LDV}[1]{#1\char131 }
1986 \DeclareTextSymbol{\textdevanagaria}{LDV}{133}
1987 \DeclareTextSymbol{\textdevanagariaa}{LDV}{134}
1988 \DeclareTextSymbol{\textdevanagarii}{LDV}{135}
1989 \DeclareTextSymbol{\textdevanagariii}{LDV}{136}
1990 \DeclareTextSymbol{\textdevanagariu}{LDV}{137}
1991 \DeclareTextSymbol{\textdevanagariuu}{LDV}{138}
1992 \DeclareTextSymbol{\textdevanagarivocalicr}{LDV}{139}
```

1993 \DeclareTextSymbol{\textdevanagarivocalicl}{LDV}{140}
1994 \DeclareTextSymbol{\textdevanagaricandrae}{LDV}{141}
1995 \DeclareTextSymbol{\textdevanagarishorte}{LDV}{142}
1996 \DeclareTextSymbol{\textdevanagarie}{LDV}{143}
1997 \DeclareTextSymbol{\textdevanagari ai}{LDV}{144}
1998 \DeclareTextSymbol{\textdevanagaricandrao}{LDV}{145}
1999 \DeclareTextSymbol{\textdevanagarishorto}{LDV}{146}
2000 \DeclareTextSymbol{\textdevanagar io}{LDV}{147}
2001 \DeclareTextSymbol{\textdevanagari au}{LDV}{148}
2002 \DeclareTextSymbol{\textdevanagarika}{LDV}{149}
2003 \DeclareTextSymbol{\textdevanagarikha}{LDV}{150}
2004 \DeclareTextSymbol{\textdevanagariga}{LDV}{151}
2005 \DeclareTextSymbol{\textdevanagarigha}{LDV}{152}
2006 \DeclareTextSymbol{\textdevanagar inga}{LDV}{153}
2007 \DeclareTextSymbol{\textdevanagarica}{LDV}{154}
2008 \DeclareTextSymbol{\textdevanagaricha}{LDV}{155}
2009 \DeclareTextSymbol{\textdevanagari ja}{LDV}{156}
2010 \DeclareTextSymbol{\textdevanagari jha}{LDV}{157}
2011 \DeclareTextSymbol{\textdevanagari nya}{LDV}{158}
2012 \DeclareTextSymbol{\textdevanagaritta}{LDV}{159}
2013 \DeclareTextSymbol{\textdevanagarittha}{LDV}{160}
2014 \DeclareTextSymbol{\textdevanagaridda}{LDV}{161}
2015 \DeclareTextSymbol{\textdevanagariddha}{LDV}{162}
2016 \DeclareTextSymbol{\textdevanagarinna}{LDV}{163}
2017 \DeclareTextSymbol{\textdevanagarita}{LDV}{164}
2018 \DeclareTextSymbol{\textdevanagaritha}{LDV}{165}
2019 \DeclareTextSymbol{\textdevanagarida}{LDV}{166}
2020 \DeclareTextSymbol{\textdevanagaridha}{LDV}{167}
2021 \DeclareTextSymbol{\textdevanagarina}{LDV}{168}
2022 \DeclareTextSymbol{\textdevanagarinnna}{LDV}{169}
2023 \DeclareTextSymbol{\textdevanagaripa}{LDV}{170}
2024 \DeclareTextSymbol{\textdevanagaripha}{LDV}{171}
2025 \DeclareTextSymbol{\textdevanagariba}{LDV}{172}
2026 \DeclareTextSymbol{\textdevanagaribha}{LDV}{173}
2027 \DeclareTextSymbol{\textdevanagarima}{LDV}{174}
2028 \DeclareTextSymbol{\textdevanagari ya}{LDV}{175}
2029 \DeclareTextSymbol{\textdevanagarira}{LDV}{176}
2030 \DeclareTextSymbol{\textdevanagarirra}{LDV}{177}
2031 \DeclareTextSymbol{\textdevanagarila}{LDV}{178}
2032 \DeclareTextSymbol{\textdevanagarilla}{LDV}{179}
2033 \DeclareTextSymbol{\textdevanagarillla}{LDV}{180}
2034 \DeclareTextSymbol{\textdevanagariva}{LDV}{181}
2035 \DeclareTextSymbol{\textdevanagarisha}{LDV}{182}
2036 \DeclareTextSymbol{\textdevanagarissa}{LDV}{183}
2037 \DeclareTextSymbol{\textdevanagarisa}{LDV}{184}
2038 \DeclareTextSymbol{\textdevanagari ha}{LDV}{185}
2039 \DeclareTextCommand{\textdevanagarinukta}{LDV}[1]{#1\char188 }
2040 \DeclareTextSymbol{\textdevanagariavagraha}{LDV}{189}
2041 \DeclareTextCommand{\textdevanagarivowelaa}{LDV}[1]{#1\char190 }
2042 \DeclareTextCommand{\textdevanagarivowel i}{LDV}[1]{\char191 #1}
2043 \DeclareTextCommand{\textdevanagarivowel ii}{LDV}[1]{#1\char192 }
2044 \DeclareTextCommand{\textdevanagarivowel u}{LDV}[1]{#1\char193 }
2045 \DeclareTextCommand{\textdevanagarivowel uu}{LDV}[1]{#1\char194 }
2046 \DeclareTextCommand{\textdevanagarivowelvocalicr}{LDV}[1]{#1\char195 }

```

2047 \DeclareTextCommand{\textdevanagarivowelvocalicrr}{LDV}[1]{#1\char196 }
2048 \DeclareTextCommand{\textdevanagarivowelcandrae}{LDV}[1]{#1\char197 }
2049 \DeclareTextCommand{\textdevanagarivowelshorte}{LDV}[1]{#1\char198 }
2050 \DeclareTextCommand{\textdevanagarivowelee}{LDV}[1]{#1\char199 }
2051 \DeclareTextCommand{\textdevanagarivowelai}{LDV}[1]{#1\char200 }
2052 \DeclareTextCommand{\textdevanagarivowelcandrao}{LDV}[1]{#1\char201 }
2053 \DeclareTextCommand{\textdevanagarivowelshorto}{LDV}[1]{#1\char202 }
2054 \DeclareTextCommand{\textdevanagarivowelo}{LDV}[1]{#1\char203 }
2055 \DeclareTextCommand{\textdevanagarivowelau}{LDV}[1]{#1\char204 }
2056 \DeclareTextCommand{\textdevanagarivirama}{LDV}[1]{#1\char205 }
2057 \DeclareTextSymbol{\textdevanagariom}{LDV}{208}
2058 \DeclareTextCommand{\textdevanagariudatta}{LDV}[1]{#1\char209 }
2059 \DeclareTextCommand{\textdevanagarianudatta}{LDV}[1]{#1\char210 }
2060 \DeclareTextCommand{\`}{LDV}[1]{#1\char211 }
2061 \DeclareTextCommand{\'}{LDV}[1]{#1\char212 }
2062 \DeclareTextSymbol{\textdevanagariqa}{LDV}{216}
2063 \DeclareTextSymbol{\textdevanagariqhha}{LDV}{217}
2064 \DeclareTextSymbol{\textdevanagariqhha}{LDV}{218}
2065 \DeclareTextSymbol{\textdevanagariza}{LDV}{219}
2066 \DeclareTextSymbol{\textdevanagariddha}{LDV}{220}
2067 \DeclareTextSymbol{\textdevanagarirha}{LDV}{221}
2068 \DeclareTextSymbol{\textdevanagarifa}{LDV}{222}
2069 \DeclareTextSymbol{\textdevanagariyya}{LDV}{223}
2070 \DeclareTextSymbol{\textdevanagarivocalicrr}{LDV}{224}
2071 \DeclareTextSymbol{\textdevanagarivocalicll}{LDV}{225}
2072 \DeclareTextCommand{\textdevanagarivowelvocalicl}{LDV}[1]{#1\char226 }
2073 \DeclareTextCommand{\textdevanagarivowelvocalicll}{LDV}[1]{#1\char227 }
2074 \DeclareTextSymbol{\textdevanagaridanda}{LDV}{228}
2075 \DeclareTextSymbol{\textdevanagaridoubledanda}{LDV}{229}
2076 \DeclareTextSymbol{\textdevanagarizero}{LDV}{230}
2077 \DeclareTextSymbol{\textdevanagarione}{LDV}{231}
2078 \DeclareTextSymbol{\textdevanagaritwo}{LDV}{232}
2079 \DeclareTextSymbol{\textdevanagarithree}{LDV}{233}
2080 \DeclareTextSymbol{\textdevanagarifour}{LDV}{234}
2081 \DeclareTextSymbol{\textdevanagarifive}{LDV}{235}
2082 \DeclareTextSymbol{\textdevanagarisix}{LDV}{236}
2083 \DeclareTextSymbol{\textdevanagariseven}{LDV}{237}
2084 \DeclareTextSymbol{\textdevanagarieight}{LDV}{238}
2085 \DeclareTextSymbol{\textdevanagarinine}{LDV}{239}
2086 \DeclareTextSymbol{\textdevanagariabbreviation}{LDV}{240}
2087 %
2088 </ldvenc.def)

```

4.11 File ldvarial.fd

```

2089 <*ldvarial.fd)
2090 \ProvidesFile{ldvarial.fd}[2004/10/17 Autogenerated .fd file for encoding LDV, family arial]
2091 \DeclareFontFamily{LDV}{arial}{}
2092 \DeclareFontShape{LDV}{arial}{m}{n}{<-> * arialuni090t}{}
2093 %
2094 </ldvarial.fd)

```

4.12 File ldvc2000.fd

```

2095 <*ldvc2000.fd)

```

```

2096 \ProvidesFile{ldvc2000.fd}[2004/10/17 Autogenerated .fd file for encoding LDV, family c2000]
2097 \DeclareFontFamily{LDV}{c2000}{}
2098 \DeclareFontShape{LDV}{c2000}{m}{n}{<-> * code2k090t}{}
2099 %
2100 </ldvc2000.fd>

```

4.13 File letenc.def

```

2101 <*letenc.def>
2102 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2103 \ProvidesFile{letenc.def}[2004/10/17 Autogenerated encodings LET, Let]
2104 \DeclareFontEncoding{LET}{}{}
2105 \DeclareFontSubstitution{LET}{gfm}{m}{n}
2106 \DeclareFontEncoding{Let}{}{}
2107 \DeclareFontSubstitution{Let}{gfm}{m}{n}
2108 \DeclareTextCommand{\textascii}{LET}[1]{\@textascii@switch{#1}}
2109 \DeclareTextCommand{\textascii}{Let}[1]{\@textascii@switch{#1}}
2110 \DeclareTextSymbol{\textethiopia}{LET}{0}
2111 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2112 \DeclareTextSymbol{\textethiopia}{LET}{1}
2113 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2114 \DeclareTextSymbol{\textethiopia}{LET}{2}
2115 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2116 \DeclareTextSymbol{\textethiopia}{LET}{3}
2117 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2118 \DeclareTextSymbol{\textethiopia}{LET}{4}
2119 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2120 \DeclareTextSymbol{\textethiopia}{LET}{5}
2121 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2122 \DeclareTextSymbol{\textethiopia}{LET}{6}
2123 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2124 \DeclareTextSymbol{\textethiopia}{LET}{8}
2125 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2126 \DeclareTextSymbol{\textethiopia}{LET}{9}
2127 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2128 \DeclareTextSymbol{\textethiopia}{LET}{10}
2129 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2130 \DeclareTextSymbol{\textethiopia}{LET}{11}
2131 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2132 \DeclareTextSymbol{\textethiopia}{LET}{12}
2133 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2134 \DeclareTextSymbol{\textethiopia}{LET}{13}
2135 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2136 \DeclareTextSymbol{\textethiopia}{LET}{14}
2137 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2138 \DeclareTextSymbol{\textethiopia}{LET}{15}
2139 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2140 \DeclareTextSymbol{\textethiopia}{LET}{16}
2141 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2142 \DeclareTextSymbol{\textethiopia}{LET}{17}
2143 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2144 \DeclareTextSymbol{\textethiopia}{LET}{18}
2145 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2146 \DeclareTextSymbol{\textethiopia}{LET}{19}

```

```

2147 \DeclareTextCommand{\textethiopicghaa}{Let}{\fontencoding{LET}\selectfont\textethiopicghaa}
2148 \DeclareTextSymbol{\textethiopicghee}{LET}{20}
2149 \DeclareTextCommand{\textethiopicghee}{Let}{\fontencoding{LET}\selectfont\textethiopicghee}
2150 \DeclareTextSymbol{\textethiopicghe}{LET}{21}
2151 \DeclareTextCommand{\textethiopicghe}{Let}{\fontencoding{LET}\selectfont\textethiopicghe}
2152 \DeclareTextSymbol{\textethiopicgho}{LET}{22}
2153 \DeclareTextCommand{\textethiopicgho}{Let}{\fontencoding{LET}\selectfont\textethiopicgho}
2154 \DeclareTextSymbol{\textethiopicghwa}{LET}{23}
2155 \DeclareTextCommand{\textethiopicghwa}{Let}{\fontencoding{LET}\selectfont\textethiopicghwa}
2156 \DeclareTextSymbol{\textethiopicma}{LET}{24}
2157 \DeclareTextCommand{\textethiopicma}{Let}{\fontencoding{LET}\selectfont\textethiopicma}
2158 \DeclareTextSymbol{\textethiopicmu}{LET}{25}
2159 \DeclareTextCommand{\textethiopicmu}{Let}{\fontencoding{LET}\selectfont\textethiopicmu}
2160 \DeclareTextSymbol{\textethiopicmi}{LET}{26}
2161 \DeclareTextCommand{\textethiopicmi}{Let}{\fontencoding{LET}\selectfont\textethiopicmi}
2162 \DeclareTextSymbol{\textethiopicmaa}{LET}{27}
2163 \DeclareTextCommand{\textethiopicmaa}{Let}{\fontencoding{LET}\selectfont\textethiopicmaa}
2164 \DeclareTextSymbol{\textethiopicmee}{LET}{28}
2165 \DeclareTextCommand{\textethiopicmee}{Let}{\fontencoding{LET}\selectfont\textethiopicmee}
2166 \DeclareTextSymbol{\textethiopicme}{LET}{29}
2167 \DeclareTextCommand{\textethiopicme}{Let}{\fontencoding{LET}\selectfont\textethiopicme}
2168 \DeclareTextSymbol{\textethiopicmo}{LET}{30}
2169 \DeclareTextCommand{\textethiopicmo}{Let}{\fontencoding{LET}\selectfont\textethiopicmo}
2170 \DeclareTextSymbol{\textethiopicmwa}{LET}{31}
2171 \DeclareTextCommand{\textethiopicmwa}{Let}{\fontencoding{LET}\selectfont\textethiopicmwa}
2172 \DeclareTextSymbol{\textethiopicsza}{LET}{32}
2173 \DeclareTextCommand{\textethiopicsza}{Let}{\fontencoding{LET}\selectfont\textethiopicsza}
2174 \DeclareTextSymbol{\textethiopicszu}{LET}{33}
2175 \DeclareTextCommand{\textethiopicszu}{Let}{\fontencoding{LET}\selectfont\textethiopicszu}
2176 \DeclareTextSymbol{\textethiopicszi}{LET}{34}
2177 \DeclareTextCommand{\textethiopicszi}{Let}{\fontencoding{LET}\selectfont\textethiopicszi}
2178 \DeclareTextSymbol{\textethiopicszaa}{LET}{35}
2179 \DeclareTextCommand{\textethiopicszaa}{Let}{\fontencoding{LET}\selectfont\textethiopicszaa}
2180 \DeclareTextSymbol{\textethiopicszee}{LET}{36}
2181 \DeclareTextCommand{\textethiopicszee}{Let}{\fontencoding{LET}\selectfont\textethiopicszee}
2182 \DeclareTextSymbol{\textethiopicsze}{LET}{37}
2183 \DeclareTextCommand{\textethiopicsze}{Let}{\fontencoding{LET}\selectfont\textethiopicsze}
2184 \DeclareTextSymbol{\textethiopicszo}{LET}{38}
2185 \DeclareTextCommand{\textethiopicszo}{Let}{\fontencoding{LET}\selectfont\textethiopicszo}
2186 \DeclareTextSymbol{\textethiopicszwa}{LET}{39}
2187 \DeclareTextCommand{\textethiopicszwa}{Let}{\fontencoding{LET}\selectfont\textethiopicszwa}
2188 \DeclareTextSymbol{\textethiopicra}{LET}{40}
2189 \DeclareTextCommand{\textethiopicra}{Let}{\fontencoding{LET}\selectfont\textethiopicra}
2190 \DeclareTextSymbol{\textethiopicru}{LET}{41}
2191 \DeclareTextCommand{\textethiopicru}{Let}{\fontencoding{LET}\selectfont\textethiopicru}
2192 \DeclareTextSymbol{\textethiopicri}{LET}{42}
2193 \DeclareTextCommand{\textethiopicri}{Let}{\fontencoding{LET}\selectfont\textethiopicri}
2194 \DeclareTextSymbol{\textethiopicraa}{LET}{43}
2195 \DeclareTextCommand{\textethiopicraa}{Let}{\fontencoding{LET}\selectfont\textethiopicraa}
2196 \DeclareTextSymbol{\textethiopicree}{LET}{44}
2197 \DeclareTextCommand{\textethiopicree}{Let}{\fontencoding{LET}\selectfont\textethiopicree}
2198 \DeclareTextSymbol{\textethiopicre}{LET}{45}
2199 \DeclareTextCommand{\textethiopicre}{Let}{\fontencoding{LET}\selectfont\textethiopicre}
2200 \DeclareTextSymbol{\textethiopicro}{LET}{46}

```

2201 \DeclareTextCommand{\textethiopicro}{Let}{\fontencoding{LET}\selectfont\textethiopicro}
2202 \DeclareTextSymbol{\textethiopicrwa}{LET}{47}
2203 \DeclareTextCommand{\textethiopicrwa}{Let}{\fontencoding{LET}\selectfont\textethiopicrwa}
2204 \DeclareTextSymbol{\textethiopicsa}{LET}{48}
2205 \DeclareTextCommand{\textethiopicsa}{Let}{\fontencoding{LET}\selectfont\textethiopicsa}
2206 \DeclareTextSymbol{\textethiopicsu}{LET}{49}
2207 \DeclareTextCommand{\textethiopicsu}{Let}{\fontencoding{LET}\selectfont\textethiopicsu}
2208 \DeclareTextSymbol{\textethiopicsi}{LET}{50}
2209 \DeclareTextCommand{\textethiopicsi}{Let}{\fontencoding{LET}\selectfont\textethiopicsi}
2210 \DeclareTextSymbol{\textethiopicsaa}{LET}{51}
2211 \DeclareTextCommand{\textethiopicsaa}{Let}{\fontencoding{LET}\selectfont\textethiopicsaa}
2212 \DeclareTextSymbol{\textethiopicsee}{LET}{52}
2213 \DeclareTextCommand{\textethiopicsee}{Let}{\fontencoding{LET}\selectfont\textethiopicsee}
2214 \DeclareTextSymbol{\textethiopicse}{LET}{53}
2215 \DeclareTextCommand{\textethiopicse}{Let}{\fontencoding{LET}\selectfont\textethiopicse}
2216 \DeclareTextSymbol{\textethiopicso}{LET}{54}
2217 \DeclareTextCommand{\textethiopicso}{Let}{\fontencoding{LET}\selectfont\textethiopicso}
2218 \DeclareTextSymbol{\textethiopicswa}{LET}{55}
2219 \DeclareTextCommand{\textethiopicswa}{Let}{\fontencoding{LET}\selectfont\textethiopicswa}
2220 \DeclareTextSymbol{\textethiopicsha}{LET}{56}
2221 \DeclareTextCommand{\textethiopicsha}{Let}{\fontencoding{LET}\selectfont\textethiopicsha}
2222 \DeclareTextSymbol{\textethiopicshu}{LET}{57}
2223 \DeclareTextCommand{\textethiopicshu}{Let}{\fontencoding{LET}\selectfont\textethiopicshu}
2224 \DeclareTextSymbol{\textethiopicshi}{LET}{58}
2225 \DeclareTextCommand{\textethiopicshi}{Let}{\fontencoding{LET}\selectfont\textethiopicshi}
2226 \DeclareTextSymbol{\textethiopicshaa}{LET}{59}
2227 \DeclareTextCommand{\textethiopicshaa}{Let}{\fontencoding{LET}\selectfont\textethiopicshaa}
2228 \DeclareTextSymbol{\textethiopicshee}{LET}{60}
2229 \DeclareTextCommand{\textethiopicshee}{Let}{\fontencoding{LET}\selectfont\textethiopicshee}
2230 \DeclareTextSymbol{\textethiopicshe}{LET}{61}
2231 \DeclareTextCommand{\textethiopicshe}{Let}{\fontencoding{LET}\selectfont\textethiopicshe}
2232 \DeclareTextSymbol{\textethiopicsho}{LET}{62}
2233 \DeclareTextCommand{\textethiopicsho}{Let}{\fontencoding{LET}\selectfont\textethiopicsho}
2234 \DeclareTextSymbol{\textethiopicshwa}{LET}{63}
2235 \DeclareTextCommand{\textethiopicshwa}{Let}{\fontencoding{LET}\selectfont\textethiopicshwa}
2236 \DeclareTextSymbol{\textethiopicqa}{LET}{64}
2237 \DeclareTextCommand{\textethiopicqa}{Let}{\fontencoding{LET}\selectfont\textethiopicqa}
2238 \DeclareTextSymbol{\textethiopicqu}{LET}{65}
2239 \DeclareTextCommand{\textethiopicqu}{Let}{\fontencoding{LET}\selectfont\textethiopicqu}
2240 \DeclareTextSymbol{\textethiopicqi}{LET}{66}
2241 \DeclareTextCommand{\textethiopicqi}{Let}{\fontencoding{LET}\selectfont\textethiopicqi}
2242 \DeclareTextSymbol{\textethiopicqaa}{LET}{67}
2243 \DeclareTextCommand{\textethiopicqaa}{Let}{\fontencoding{LET}\selectfont\textethiopicqaa}
2244 \DeclareTextSymbol{\textethiopicqee}{LET}{68}
2245 \DeclareTextCommand{\textethiopicqee}{Let}{\fontencoding{LET}\selectfont\textethiopicqee}
2246 \DeclareTextSymbol{\textethiopicqe}{LET}{69}
2247 \DeclareTextCommand{\textethiopicqe}{Let}{\fontencoding{LET}\selectfont\textethiopicqe}
2248 \DeclareTextSymbol{\textethiopicqo}{LET}{70}
2249 \DeclareTextCommand{\textethiopicqo}{Let}{\fontencoding{LET}\selectfont\textethiopicqo}
2250 \DeclareTextSymbol{\textethiopicqwa}{LET}{72}
2251 \DeclareTextCommand{\textethiopicqwa}{Let}{\fontencoding{LET}\selectfont\textethiopicqwa}
2252 \DeclareTextSymbol{\textethiopicqwi}{LET}{74}
2253 \DeclareTextCommand{\textethiopicqwi}{Let}{\fontencoding{LET}\selectfont\textethiopicqwi}
2254 \DeclareTextSymbol{\textethiopicqwaa}{LET}{75}

2255 \DeclareTextCommand{\textethiopicqwa}{Let}{\fontencoding{LET}\selectfont\textethiopicqwa}
2256 \DeclareTextSymbol{\textethiopicqwee}{LET}{76}
2257 \DeclareTextCommand{\textethiopicqwee}{Let}{\fontencoding{LET}\selectfont\textethiopicqwee}
2258 \DeclareTextSymbol{\textethiopicqwe}{LET}{77}
2259 \DeclareTextCommand{\textethiopicqwe}{Let}{\fontencoding{LET}\selectfont\textethiopicqwe}
2260 \DeclareTextSymbol{\textethiopicqha}{LET}{80}
2261 \DeclareTextCommand{\textethiopicqha}{Let}{\fontencoding{LET}\selectfont\textethiopicqha}
2262 \DeclareTextSymbol{\textethiopicqhu}{LET}{81}
2263 \DeclareTextCommand{\textethiopicqhu}{Let}{\fontencoding{LET}\selectfont\textethiopicqhu}
2264 \DeclareTextSymbol{\textethiopicqhi}{LET}{82}
2265 \DeclareTextCommand{\textethiopicqhi}{Let}{\fontencoding{LET}\selectfont\textethiopicqhi}
2266 \DeclareTextSymbol{\textethiopicqhaa}{LET}{83}
2267 \DeclareTextCommand{\textethiopicqhaa}{Let}{\fontencoding{LET}\selectfont\textethiopicqhaa}
2268 \DeclareTextSymbol{\textethiopicqhee}{LET}{84}
2269 \DeclareTextCommand{\textethiopicqhee}{Let}{\fontencoding{LET}\selectfont\textethiopicqhee}
2270 \DeclareTextSymbol{\textethiopicqhe}{LET}{85}
2271 \DeclareTextCommand{\textethiopicqhe}{Let}{\fontencoding{LET}\selectfont\textethiopicqhe}
2272 \DeclareTextSymbol{\textethiopicqho}{LET}{86}
2273 \DeclareTextCommand{\textethiopicqho}{Let}{\fontencoding{LET}\selectfont\textethiopicqho}
2274 \DeclareTextSymbol{\textethiopicqha}{LET}{88}
2275 \DeclareTextCommand{\textethiopicqha}{Let}{\fontencoding{LET}\selectfont\textethiopicqha}
2276 \DeclareTextSymbol{\textethiopicqhi}{LET}{90}
2277 \DeclareTextCommand{\textethiopicqhi}{Let}{\fontencoding{LET}\selectfont\textethiopicqhi}
2278 \DeclareTextSymbol{\textethiopicqhaa}{LET}{91}
2279 \DeclareTextCommand{\textethiopicqhaa}{Let}{\fontencoding{LET}\selectfont\textethiopicqhaa}
2280 \DeclareTextSymbol{\textethiopicqhee}{LET}{92}
2281 \DeclareTextCommand{\textethiopicqhee}{Let}{\fontencoding{LET}\selectfont\textethiopicqhee}
2282 \DeclareTextSymbol{\textethiopicqhe}{LET}{93}
2283 \DeclareTextCommand{\textethiopicqhe}{Let}{\fontencoding{LET}\selectfont\textethiopicqhe}
2284 \DeclareTextSymbol{\textethiopicba}{LET}{96}
2285 \DeclareTextCommand{\textethiopicba}{Let}{\fontencoding{LET}\selectfont\textethiopicba}
2286 \DeclareTextSymbol{\textethiopicbu}{LET}{97}
2287 \DeclareTextCommand{\textethiopicbu}{Let}{\fontencoding{LET}\selectfont\textethiopicbu}
2288 \DeclareTextSymbol{\textethiopicbi}{LET}{98}
2289 \DeclareTextCommand{\textethiopicbi}{Let}{\fontencoding{LET}\selectfont\textethiopicbi}
2290 \DeclareTextSymbol{\textethiopicbaa}{LET}{99}
2291 \DeclareTextCommand{\textethiopicbaa}{Let}{\fontencoding{LET}\selectfont\textethiopicbaa}
2292 \DeclareTextSymbol{\textethiopicbee}{LET}{100}
2293 \DeclareTextCommand{\textethiopicbee}{Let}{\fontencoding{LET}\selectfont\textethiopicbee}
2294 \DeclareTextSymbol{\textethiopicbe}{LET}{101}
2295 \DeclareTextCommand{\textethiopicbe}{Let}{\fontencoding{LET}\selectfont\textethiopicbe}
2296 \DeclareTextSymbol{\textethiopicbo}{LET}{102}
2297 \DeclareTextCommand{\textethiopicbo}{Let}{\fontencoding{LET}\selectfont\textethiopicbo}
2298 \DeclareTextSymbol{\textethiopicbwa}{LET}{103}
2299 \DeclareTextCommand{\textethiopicbwa}{Let}{\fontencoding{LET}\selectfont\textethiopicbwa}
2300 \DeclareTextSymbol{\textethiopicva}{LET}{104}
2301 \DeclareTextCommand{\textethiopicva}{Let}{\fontencoding{LET}\selectfont\textethiopicva}
2302 \DeclareTextSymbol{\textethiopicvu}{LET}{105}
2303 \DeclareTextCommand{\textethiopicvu}{Let}{\fontencoding{LET}\selectfont\textethiopicvu}
2304 \DeclareTextSymbol{\textethiopicvi}{LET}{106}
2305 \DeclareTextCommand{\textethiopicvi}{Let}{\fontencoding{LET}\selectfont\textethiopicvi}
2306 \DeclareTextSymbol{\textethiopicvaa}{LET}{107}
2307 \DeclareTextCommand{\textethiopicvaa}{Let}{\fontencoding{LET}\selectfont\textethiopicvaa}
2308 \DeclareTextSymbol{\textethiopicvee}{LET}{108}

2363 \DeclareTextCommand{\textethiopicxwa}{Let}{\fontencoding{LET}\selectfont\textethiopicxwa}
2364 \DeclareTextSymbol{\textethiopicxwi}{LET}{138}
2365 \DeclareTextCommand{\textethiopicxwi}{Let}{\fontencoding{LET}\selectfont\textethiopicxwi}
2366 \DeclareTextSymbol{\textethiopicxwaa}{LET}{139}
2367 \DeclareTextCommand{\textethiopicxwaa}{Let}{\fontencoding{LET}\selectfont\textethiopicxwaa}
2368 \DeclareTextSymbol{\textethiopicxwee}{LET}{140}
2369 \DeclareTextCommand{\textethiopicxwee}{Let}{\fontencoding{LET}\selectfont\textethiopicxwee}
2370 \DeclareTextSymbol{\textethiopicxwe}{LET}{141}
2371 \DeclareTextCommand{\textethiopicxwe}{Let}{\fontencoding{LET}\selectfont\textethiopicxwe}
2372 \DeclareTextSymbol{\textethiopicna}{LET}{144}
2373 \DeclareTextCommand{\textethiopicna}{Let}{\fontencoding{LET}\selectfont\textethiopicna}
2374 \DeclareTextSymbol{\textethiopicnu}{LET}{145}
2375 \DeclareTextCommand{\textethiopicnu}{Let}{\fontencoding{LET}\selectfont\textethiopicnu}
2376 \DeclareTextSymbol{\textethiopicni}{LET}{146}
2377 \DeclareTextCommand{\textethiopicni}{Let}{\fontencoding{LET}\selectfont\textethiopicni}
2378 \DeclareTextSymbol{\textethiopicnaa}{LET}{147}
2379 \DeclareTextCommand{\textethiopicnaa}{Let}{\fontencoding{LET}\selectfont\textethiopicnaa}
2380 \DeclareTextSymbol{\textethiopicnee}{LET}{148}
2381 \DeclareTextCommand{\textethiopicnee}{Let}{\fontencoding{LET}\selectfont\textethiopicnee}
2382 \DeclareTextSymbol{\textethiopicne}{LET}{149}
2383 \DeclareTextCommand{\textethiopicne}{Let}{\fontencoding{LET}\selectfont\textethiopicne}
2384 \DeclareTextSymbol{\textethiopicno}{LET}{150}
2385 \DeclareTextCommand{\textethiopicno}{Let}{\fontencoding{LET}\selectfont\textethiopicno}
2386 \DeclareTextSymbol{\textethiopicnwa}{LET}{151}
2387 \DeclareTextCommand{\textethiopicnwa}{Let}{\fontencoding{LET}\selectfont\textethiopicnwa}
2388 \DeclareTextSymbol{\textethiopicnyaa}{LET}{152}
2389 \DeclareTextCommand{\textethiopicnyaa}{Let}{\fontencoding{LET}\selectfont\textethiopicnyaa}
2390 \DeclareTextSymbol{\textethiopicnyu}{LET}{153}
2391 \DeclareTextCommand{\textethiopicnyu}{Let}{\fontencoding{LET}\selectfont\textethiopicnyu}
2392 \DeclareTextSymbol{\textethiopicnyi}{LET}{154}
2393 \DeclareTextCommand{\textethiopicnyi}{Let}{\fontencoding{LET}\selectfont\textethiopicnyi}
2394 \DeclareTextSymbol{\textethiopicnyaa}{LET}{155}
2395 \DeclareTextCommand{\textethiopicnyaa}{Let}{\fontencoding{LET}\selectfont\textethiopicnyaa}
2396 \DeclareTextSymbol{\textethiopicnyee}{LET}{156}
2397 \DeclareTextCommand{\textethiopicnyee}{Let}{\fontencoding{LET}\selectfont\textethiopicnyee}
2398 \DeclareTextSymbol{\textethiopicnye}{LET}{157}
2399 \DeclareTextCommand{\textethiopicnye}{Let}{\fontencoding{LET}\selectfont\textethiopicnye}
2400 \DeclareTextSymbol{\textethiopicnyo}{LET}{158}
2401 \DeclareTextCommand{\textethiopicnyo}{Let}{\fontencoding{LET}\selectfont\textethiopicnyo}
2402 \DeclareTextSymbol{\textethiopicnywa}{LET}{159}
2403 \DeclareTextCommand{\textethiopicnywa}{Let}{\fontencoding{LET}\selectfont\textethiopicnywa}
2404 \DeclareTextSymbol{\textethiopicglottala}{LET}{160}
2405 \DeclareTextCommand{\textethiopicglottala}{Let}{\fontencoding{LET}\selectfont\textethiopicglottala}
2406 \DeclareTextSymbol{\textethiopicglottalu}{LET}{161}
2407 \DeclareTextCommand{\textethiopicglottalu}{Let}{\fontencoding{LET}\selectfont\textethiopicglottalu}
2408 \DeclareTextSymbol{\textethiopicglottali}{LET}{162}
2409 \DeclareTextCommand{\textethiopicglottali}{Let}{\fontencoding{LET}\selectfont\textethiopicglottali}
2410 \DeclareTextSymbol{\textethiopicglottalaa}{LET}{163}
2411 \DeclareTextCommand{\textethiopicglottalaa}{Let}{\fontencoding{LET}\selectfont\textethiopicglottalaa}
2412 \DeclareTextSymbol{\textethiopicglottalee}{LET}{164}
2413 \DeclareTextCommand{\textethiopicglottalee}{Let}{\fontencoding{LET}\selectfont\textethiopicglottalee}
2414 \DeclareTextSymbol{\textethiopicglottale}{LET}{165}
2415 \DeclareTextCommand{\textethiopicglottale}{Let}{\fontencoding{LET}\selectfont\textethiopicglottale}
2416 \DeclareTextSymbol{\textethiopicglottalo}{LET}{166}

```

2417 \DeclareTextCommand{\textethiopicglottalo}{Let}{\fontencoding{LET}\selectfont\textethiopicglottalo}
2418 \DeclareTextSymbol{\textethiopicglottalwa}{LET}{167}
2419 \DeclareTextCommand{\textethiopicglottalwa}{Let}{\fontencoding{LET}\selectfont\textethiopicglottalwa}
2420 \DeclareTextSymbol{\textethiopicka}{LET}{168}
2421 \DeclareTextCommand{\textethiopicka}{Let}{\fontencoding{LET}\selectfont\textethiopicka}
2422 \DeclareTextSymbol{\textethiopicku}{LET}{169}
2423 \DeclareTextCommand{\textethiopicku}{Let}{\fontencoding{LET}\selectfont\textethiopicku}
2424 \DeclareTextSymbol{\textethiopicki}{LET}{170}
2425 \DeclareTextCommand{\textethiopicki}{Let}{\fontencoding{LET}\selectfont\textethiopicki}
2426 \DeclareTextSymbol{\textethiopickaa}{LET}{171}
2427 \DeclareTextCommand{\textethiopickaa}{Let}{\fontencoding{LET}\selectfont\textethiopickaa}
2428 \DeclareTextSymbol{\textethiopickee}{LET}{172}
2429 \DeclareTextCommand{\textethiopickee}{Let}{\fontencoding{LET}\selectfont\textethiopickee}
2430 \DeclareTextSymbol{\textethiopicke}{LET}{173}
2431 \DeclareTextCommand{\textethiopicke}{Let}{\fontencoding{LET}\selectfont\textethiopicke}
2432 \DeclareTextSymbol{\textethiopicko}{LET}{174}
2433 \DeclareTextCommand{\textethiopicko}{Let}{\fontencoding{LET}\selectfont\textethiopicko}
2434 \DeclareTextSymbol{\textethiopickwa}{LET}{176}
2435 \DeclareTextCommand{\textethiopickwa}{Let}{\fontencoding{LET}\selectfont\textethiopickwa}
2436 \DeclareTextSymbol{\textethiopickwi}{LET}{178}
2437 \DeclareTextCommand{\textethiopickwi}{Let}{\fontencoding{LET}\selectfont\textethiopickwi}
2438 \DeclareTextSymbol{\textethiopickwaa}{LET}{179}
2439 \DeclareTextCommand{\textethiopickwaa}{Let}{\fontencoding{LET}\selectfont\textethiopickwaa}
2440 \DeclareTextSymbol{\textethiopickwee}{LET}{180}
2441 \DeclareTextCommand{\textethiopickwee}{Let}{\fontencoding{LET}\selectfont\textethiopickwee}
2442 \DeclareTextSymbol{\textethiopickwe}{LET}{181}
2443 \DeclareTextCommand{\textethiopickwe}{Let}{\fontencoding{LET}\selectfont\textethiopickwe}
2444 \DeclareTextSymbol{\textethiopickxa}{LET}{184}
2445 \DeclareTextCommand{\textethiopickxa}{Let}{\fontencoding{LET}\selectfont\textethiopickxa}
2446 \DeclareTextSymbol{\textethiopickxu}{LET}{185}
2447 \DeclareTextCommand{\textethiopickxu}{Let}{\fontencoding{LET}\selectfont\textethiopickxu}
2448 \DeclareTextSymbol{\textethiopickxi}{LET}{186}
2449 \DeclareTextCommand{\textethiopickxi}{Let}{\fontencoding{LET}\selectfont\textethiopickxi}
2450 \DeclareTextSymbol{\textethiopickxaa}{LET}{187}
2451 \DeclareTextCommand{\textethiopickxaa}{Let}{\fontencoding{LET}\selectfont\textethiopickxaa}
2452 \DeclareTextSymbol{\textethiopickxee}{LET}{188}
2453 \DeclareTextCommand{\textethiopickxee}{Let}{\fontencoding{LET}\selectfont\textethiopickxee}
2454 \DeclareTextSymbol{\textethiopickxe}{LET}{189}
2455 \DeclareTextCommand{\textethiopickxe}{Let}{\fontencoding{LET}\selectfont\textethiopickxe}
2456 \DeclareTextSymbol{\textethiopickxo}{LET}{190}
2457 \DeclareTextCommand{\textethiopickxo}{Let}{\fontencoding{LET}\selectfont\textethiopickxo}
2458 \DeclareTextSymbol{\textethiopickxwa}{LET}{192}
2459 \DeclareTextCommand{\textethiopickxwa}{Let}{\fontencoding{LET}\selectfont\textethiopickxwa}
2460 \DeclareTextSymbol{\textethiopickxwi}{LET}{194}
2461 \DeclareTextCommand{\textethiopickxwi}{Let}{\fontencoding{LET}\selectfont\textethiopickxwi}
2462 \DeclareTextSymbol{\textethiopickxwaa}{LET}{195}
2463 \DeclareTextCommand{\textethiopickxwaa}{Let}{\fontencoding{LET}\selectfont\textethiopickxwaa}
2464 \DeclareTextSymbol{\textethiopickxwee}{LET}{196}
2465 \DeclareTextCommand{\textethiopickxwee}{Let}{\fontencoding{LET}\selectfont\textethiopickxwee}
2466 \DeclareTextSymbol{\textethiopickxwe}{LET}{197}
2467 \DeclareTextCommand{\textethiopickxwe}{Let}{\fontencoding{LET}\selectfont\textethiopickxwe}
2468 \DeclareTextSymbol{\textethiopicwa}{LET}{200}
2469 \DeclareTextCommand{\textethiopicwa}{Let}{\fontencoding{LET}\selectfont\textethiopicwa}
2470 \DeclareTextSymbol{\textethiopicwu}{LET}{201}

```

```

2471 \DeclareTextCommand{\textethiopicwu}{Let}{\fontencoding{LET}\selectfont\textethiopicwu}
2472 \DeclareTextSymbol{\textethiopicwi}{LET}{202}
2473 \DeclareTextCommand{\textethiopicwi}{Let}{\fontencoding{LET}\selectfont\textethiopicwi}
2474 \DeclareTextSymbol{\textethiopicwaa}{LET}{203}
2475 \DeclareTextCommand{\textethiopicwaa}{Let}{\fontencoding{LET}\selectfont\textethiopicwaa}
2476 \DeclareTextSymbol{\textethiopicwee}{LET}{204}
2477 \DeclareTextCommand{\textethiopicwee}{Let}{\fontencoding{LET}\selectfont\textethiopicwee}
2478 \DeclareTextSymbol{\textethiopicwe}{LET}{205}
2479 \DeclareTextCommand{\textethiopicwe}{Let}{\fontencoding{LET}\selectfont\textethiopicwe}
2480 \DeclareTextSymbol{\textethiopicwo}{LET}{206}
2481 \DeclareTextCommand{\textethiopicwo}{Let}{\fontencoding{LET}\selectfont\textethiopicwo}
2482 \DeclareTextSymbol{\textethiopicpharyngeala}{LET}{208}
2483 \DeclareTextCommand{\textethiopicpharyngeala}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngeala}
2484 \DeclareTextSymbol{\textethiopicpharyngealu}{LET}{209}
2485 \DeclareTextCommand{\textethiopicpharyngealu}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngealu}
2486 \DeclareTextSymbol{\textethiopicpharyngeali}{LET}{210}
2487 \DeclareTextCommand{\textethiopicpharyngeali}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngeali}
2488 \DeclareTextSymbol{\textethiopicpharyngealaa}{LET}{211}
2489 \DeclareTextCommand{\textethiopicpharyngealaa}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngealaa}
2490 \DeclareTextSymbol{\textethiopicpharyngealee}{LET}{212}
2491 \DeclareTextCommand{\textethiopicpharyngealee}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngealee}
2492 \DeclareTextSymbol{\textethiopicpharyngeale}{LET}{213}
2493 \DeclareTextCommand{\textethiopicpharyngeale}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngeale}
2494 \DeclareTextSymbol{\textethiopicpharyngealo}{LET}{214}
2495 \DeclareTextCommand{\textethiopicpharyngealo}{Let}{\fontencoding{LET}\selectfont\textethiopicpharyngealo}
2496 \DeclareTextSymbol{\textethiopiccza}{LET}{216}
2497 \DeclareTextCommand{\textethiopiccza}{Let}{\fontencoding{LET}\selectfont\textethiopiccza}
2498 \DeclareTextSymbol{\textethiopicczu}{LET}{217}
2499 \DeclareTextCommand{\textethiopicczu}{Let}{\fontencoding{LET}\selectfont\textethiopicczu}
2500 \DeclareTextSymbol{\textethiopicdzi}{LET}{218}
2501 \DeclareTextCommand{\textethiopicdzi}{Let}{\fontencoding{LET}\selectfont\textethiopicdzi}
2502 \DeclareTextSymbol{\textethiopiczaa}{LET}{219}
2503 \DeclareTextCommand{\textethiopiczaa}{Let}{\fontencoding{LET}\selectfont\textethiopiczaa}
2504 \DeclareTextSymbol{\textethiopiczee}{LET}{220}
2505 \DeclareTextCommand{\textethiopiczee}{Let}{\fontencoding{LET}\selectfont\textethiopiczee}
2506 \DeclareTextSymbol{\textethiopicze}{LET}{221}
2507 \DeclareTextCommand{\textethiopicze}{Let}{\fontencoding{LET}\selectfont\textethiopicze}
2508 \DeclareTextSymbol{\textethiopiczo}{LET}{222}
2509 \DeclareTextCommand{\textethiopiczo}{Let}{\fontencoding{LET}\selectfont\textethiopiczo}
2510 \DeclareTextSymbol{\textethiopiczwa}{LET}{223}
2511 \DeclareTextCommand{\textethiopiczwa}{Let}{\fontencoding{LET}\selectfont\textethiopiczwa}
2512 \DeclareTextSymbol{\textethiopiczha}{LET}{224}
2513 \DeclareTextCommand{\textethiopiczha}{Let}{\fontencoding{LET}\selectfont\textethiopiczha}
2514 \DeclareTextSymbol{\textethiopiczhu}{LET}{225}
2515 \DeclareTextCommand{\textethiopiczhu}{Let}{\fontencoding{LET}\selectfont\textethiopiczhu}
2516 \DeclareTextSymbol{\textethiopiczhi}{LET}{226}
2517 \DeclareTextCommand{\textethiopiczhi}{Let}{\fontencoding{LET}\selectfont\textethiopiczhi}
2518 \DeclareTextSymbol{\textethiopiczhaa}{LET}{227}
2519 \DeclareTextCommand{\textethiopiczhaa}{Let}{\fontencoding{LET}\selectfont\textethiopiczhaa}
2520 \DeclareTextSymbol{\textethiopiczhee}{LET}{228}
2521 \DeclareTextCommand{\textethiopiczhee}{Let}{\fontencoding{LET}\selectfont\textethiopiczhee}
2522 \DeclareTextSymbol{\textethiopiczhe}{LET}{229}
2523 \DeclareTextCommand{\textethiopiczhe}{Let}{\fontencoding{LET}\selectfont\textethiopiczhe}
2524 \DeclareTextSymbol{\textethiopiczho}{LET}{230}

```

```

2525 \DeclareTextCommand{\textethiopiczho}{Let}{\fontencoding{LET}\selectfont\textethiopiczho}
2526 \DeclareTextSymbol{\textethiopiczhwa}{LET}{231}
2527 \DeclareTextCommand{\textethiopiczhwa}{Let}{\fontencoding{LET}\selectfont\textethiopiczhwa}
2528 \DeclareTextSymbol{\textethiopicya}{LET}{232}
2529 \DeclareTextCommand{\textethiopicya}{Let}{\fontencoding{LET}\selectfont\textethiopicya}
2530 \DeclareTextSymbol{\textethiopicyu}{LET}{233}
2531 \DeclareTextCommand{\textethiopicyu}{Let}{\fontencoding{LET}\selectfont\textethiopicyu}
2532 \DeclareTextSymbol{\textethiopicyi}{LET}{234}
2533 \DeclareTextCommand{\textethiopicyi}{Let}{\fontencoding{LET}\selectfont\textethiopicyi}
2534 \DeclareTextSymbol{\textethiopicyaa}{LET}{235}
2535 \DeclareTextCommand{\textethiopicyaa}{Let}{\fontencoding{LET}\selectfont\textethiopicyaa}
2536 \DeclareTextSymbol{\textethiopicyee}{LET}{236}
2537 \DeclareTextCommand{\textethiopicyee}{Let}{\fontencoding{LET}\selectfont\textethiopicyee}
2538 \DeclareTextSymbol{\textethiopicyey}{LET}{237}
2539 \DeclareTextCommand{\textethiopicyey}{Let}{\fontencoding{LET}\selectfont\textethiopicyey}
2540 \DeclareTextSymbol{\textethiopicyo}{LET}{238}
2541 \DeclareTextCommand{\textethiopicyo}{Let}{\fontencoding{LET}\selectfont\textethiopicyo}
2542 \DeclareTextSymbol{\textethiopicda}{LET}{240}
2543 \DeclareTextCommand{\textethiopicda}{Let}{\fontencoding{LET}\selectfont\textethiopicda}
2544 \DeclareTextSymbol{\textethiopicdu}{LET}{241}
2545 \DeclareTextCommand{\textethiopicdu}{Let}{\fontencoding{LET}\selectfont\textethiopicdu}
2546 \DeclareTextSymbol{\textethiopicdi}{LET}{242}
2547 \DeclareTextCommand{\textethiopicdi}{Let}{\fontencoding{LET}\selectfont\textethiopicdi}
2548 \DeclareTextSymbol{\textethiopicdaa}{LET}{243}
2549 \DeclareTextCommand{\textethiopicdaa}{Let}{\fontencoding{LET}\selectfont\textethiopicdaa}
2550 \DeclareTextSymbol{\textethiopicdee}{LET}{244}
2551 \DeclareTextCommand{\textethiopicdee}{Let}{\fontencoding{LET}\selectfont\textethiopicdee}
2552 \DeclareTextSymbol{\textethiopicde}{LET}{245}
2553 \DeclareTextCommand{\textethiopicde}{Let}{\fontencoding{LET}\selectfont\textethiopicde}
2554 \DeclareTextSymbol{\textethiopicdo}{LET}{246}
2555 \DeclareTextCommand{\textethiopicdo}{Let}{\fontencoding{LET}\selectfont\textethiopicdo}
2556 \DeclareTextSymbol{\textethiopicdwa}{LET}{247}
2557 \DeclareTextCommand{\textethiopicdwa}{Let}{\fontencoding{LET}\selectfont\textethiopicdwa}
2558 \DeclareTextSymbol{\textethiopicdda}{LET}{248}
2559 \DeclareTextCommand{\textethiopicdda}{Let}{\fontencoding{LET}\selectfont\textethiopicdda}
2560 \DeclareTextSymbol{\textethiopicddu}{LET}{249}
2561 \DeclareTextCommand{\textethiopicddu}{Let}{\fontencoding{LET}\selectfont\textethiopicddu}
2562 \DeclareTextSymbol{\textethiopicddi}{LET}{250}
2563 \DeclareTextCommand{\textethiopicddi}{Let}{\fontencoding{LET}\selectfont\textethiopicddi}
2564 \DeclareTextSymbol{\textethiopicddaa}{LET}{251}
2565 \DeclareTextCommand{\textethiopicddaa}{Let}{\fontencoding{LET}\selectfont\textethiopicddaa}
2566 \DeclareTextSymbol{\textethiopicddee}{LET}{252}
2567 \DeclareTextCommand{\textethiopicddee}{Let}{\fontencoding{LET}\selectfont\textethiopicddee}
2568 \DeclareTextSymbol{\textethiopicdde}{LET}{253}
2569 \DeclareTextCommand{\textethiopicdde}{Let}{\fontencoding{LET}\selectfont\textethiopicdde}
2570 \DeclareTextSymbol{\textethiopicddo}{LET}{254}
2571 \DeclareTextCommand{\textethiopicddo}{Let}{\fontencoding{LET}\selectfont\textethiopicddo}
2572 \DeclareTextSymbol{\textethiopicddwa}{LET}{255}
2573 \DeclareTextCommand{\textethiopicddwa}{Let}{\fontencoding{LET}\selectfont\textethiopicddwa}
2574 \DeclareTextSymbol{\textethiopicja}{Let}{0}
2575 \DeclareTextCommand{\textethiopicja}{LET}{\fontencoding{Let}\selectfont\textethiopicja}
2576 \DeclareTextSymbol{\textethiopicju}{Let}{1}
2577 \DeclareTextCommand{\textethiopicju}{LET}{\fontencoding{Let}\selectfont\textethiopicju}
2578 \DeclareTextSymbol{\textethiopicji}{Let}{2}

```

```

2579 \DeclareTextCommand{\textethiopicji}{LET}{\fontencoding{Let}\selectfont\textethiopicji}
2580 \DeclareTextSymbol{\textethiopicjaa}{Let}{3}
2581 \DeclareTextCommand{\textethiopicjaa}{LET}{\fontencoding{Let}\selectfont\textethiopicjaa}
2582 \DeclareTextSymbol{\textethiopicjee}{Let}{4}
2583 \DeclareTextCommand{\textethiopicjee}{LET}{\fontencoding{Let}\selectfont\textethiopicjee}
2584 \DeclareTextSymbol{\textethiopicje}{Let}{5}
2585 \DeclareTextCommand{\textethiopicje}{LET}{\fontencoding{Let}\selectfont\textethiopicje}
2586 \DeclareTextSymbol{\textethiopicjo}{Let}{6}
2587 \DeclareTextCommand{\textethiopicjo}{LET}{\fontencoding{Let}\selectfont\textethiopicjo}
2588 \DeclareTextSymbol{\textethiopicjwa}{Let}{7}
2589 \DeclareTextCommand{\textethiopicjwa}{LET}{\fontencoding{Let}\selectfont\textethiopicjwa}
2590 \DeclareTextSymbol{\textethiopicga}{Let}{8}
2591 \DeclareTextCommand{\textethiopicga}{LET}{\fontencoding{Let}\selectfont\textethiopicga}
2592 \DeclareTextSymbol{\textethiopicgu}{Let}{9}
2593 \DeclareTextCommand{\textethiopicgu}{LET}{\fontencoding{Let}\selectfont\textethiopicgu}
2594 \DeclareTextSymbol{\textethiopicgi}{Let}{10}
2595 \DeclareTextCommand{\textethiopicgi}{LET}{\fontencoding{Let}\selectfont\textethiopicgi}
2596 \DeclareTextSymbol{\textethiopicgaa}{Let}{11}
2597 \DeclareTextCommand{\textethiopicgaa}{LET}{\fontencoding{Let}\selectfont\textethiopicgaa}
2598 \DeclareTextSymbol{\textethiopicgee}{Let}{12}
2599 \DeclareTextCommand{\textethiopicgee}{LET}{\fontencoding{Let}\selectfont\textethiopicgee}
2600 \DeclareTextSymbol{\textethiopicge}{Let}{13}
2601 \DeclareTextCommand{\textethiopicge}{LET}{\fontencoding{Let}\selectfont\textethiopicge}
2602 \DeclareTextSymbol{\textethiopicgo}{Let}{14}
2603 \DeclareTextCommand{\textethiopicgo}{LET}{\fontencoding{Let}\selectfont\textethiopicgo}
2604 \DeclareTextSymbol{\textethiopicgwa}{Let}{16}
2605 \DeclareTextCommand{\textethiopicgwa}{LET}{\fontencoding{Let}\selectfont\textethiopicgwa}
2606 \DeclareTextSymbol{\textethiopicgwi}{Let}{18}
2607 \DeclareTextCommand{\textethiopicgwi}{LET}{\fontencoding{Let}\selectfont\textethiopicgwi}
2608 \DeclareTextSymbol{\textethiopicgwaa}{Let}{19}
2609 \DeclareTextCommand{\textethiopicgwaa}{LET}{\fontencoding{Let}\selectfont\textethiopicgwaa}
2610 \DeclareTextSymbol{\textethiopicgwee}{Let}{20}
2611 \DeclareTextCommand{\textethiopicgwee}{LET}{\fontencoding{Let}\selectfont\textethiopicgwee}
2612 \DeclareTextSymbol{\textethiopicgwe}{Let}{21}
2613 \DeclareTextCommand{\textethiopicgwe}{LET}{\fontencoding{Let}\selectfont\textethiopicgwe}
2614 \DeclareTextSymbol{\textethiopicgga}{Let}{24}
2615 \DeclareTextCommand{\textethiopicgga}{LET}{\fontencoding{Let}\selectfont\textethiopicgga}
2616 \DeclareTextSymbol{\textethiopicggu}{Let}{25}
2617 \DeclareTextCommand{\textethiopicggu}{LET}{\fontencoding{Let}\selectfont\textethiopicggu}
2618 \DeclareTextSymbol{\textethiopicggi}{Let}{26}
2619 \DeclareTextCommand{\textethiopicggi}{LET}{\fontencoding{Let}\selectfont\textethiopicggi}
2620 \DeclareTextSymbol{\textethiopicggaa}{Let}{27}
2621 \DeclareTextCommand{\textethiopicggaa}{LET}{\fontencoding{Let}\selectfont\textethiopicggaa}
2622 \DeclareTextSymbol{\textethiopicggee}{Let}{28}
2623 \DeclareTextCommand{\textethiopicggee}{LET}{\fontencoding{Let}\selectfont\textethiopicggee}
2624 \DeclareTextSymbol{\textethiopicgge}{Let}{29}
2625 \DeclareTextCommand{\textethiopicgge}{LET}{\fontencoding{Let}\selectfont\textethiopicgge}
2626 \DeclareTextSymbol{\textethiopicggo}{Let}{30}
2627 \DeclareTextCommand{\textethiopicggo}{LET}{\fontencoding{Let}\selectfont\textethiopicggo}
2628 \DeclareTextSymbol{\textethiopictha}{Let}{32}
2629 \DeclareTextCommand{\textethiopictha}{LET}{\fontencoding{Let}\selectfont\textethiopictha}
2630 \DeclareTextSymbol{\textethiopicthu}{Let}{33}
2631 \DeclareTextCommand{\textethiopicthu}{LET}{\fontencoding{Let}\selectfont\textethiopicthu}
2632 \DeclareTextSymbol{\textethiopicthi}{Let}{34}

```

```

2633 \DeclareTextCommand{\textethiopicthi}{LET}{\fontencoding{Let}\selectfont\textethiopicthi}
2634 \DeclareTextSymbol{\textethiopicthaa}{Let}{35}
2635 \DeclareTextCommand{\textethiopicthaa}{LET}{\fontencoding{Let}\selectfont\textethiopicthaa}
2636 \DeclareTextSymbol{\textethiopicthee}{Let}{36}
2637 \DeclareTextCommand{\textethiopicthee}{LET}{\fontencoding{Let}\selectfont\textethiopicthee}
2638 \DeclareTextSymbol{\textethiopicthe}{Let}{37}
2639 \DeclareTextCommand{\textethiopicthe}{LET}{\fontencoding{Let}\selectfont\textethiopicthe}
2640 \DeclareTextSymbol{\textethiopictho}{Let}{38}
2641 \DeclareTextCommand{\textethiopictho}{LET}{\fontencoding{Let}\selectfont\textethiopictho}
2642 \DeclareTextSymbol{\textethiopicthwa}{Let}{39}
2643 \DeclareTextCommand{\textethiopicthwa}{LET}{\fontencoding{Let}\selectfont\textethiopicthwa}
2644 \DeclareTextSymbol{\textethiopiccha}{Let}{40}
2645 \DeclareTextCommand{\textethiopiccha}{LET}{\fontencoding{Let}\selectfont\textethiopiccha}
2646 \DeclareTextSymbol{\textethiopicchu}{Let}{41}
2647 \DeclareTextCommand{\textethiopicchu}{LET}{\fontencoding{Let}\selectfont\textethiopicchu}
2648 \DeclareTextSymbol{\textethiopicchi}{Let}{42}
2649 \DeclareTextCommand{\textethiopicchi}{LET}{\fontencoding{Let}\selectfont\textethiopicchi}
2650 \DeclareTextSymbol{\textethiopicchaa}{Let}{43}
2651 \DeclareTextCommand{\textethiopicchaa}{LET}{\fontencoding{Let}\selectfont\textethiopicchaa}
2652 \DeclareTextSymbol{\textethiopicchee}{Let}{44}
2653 \DeclareTextCommand{\textethiopicchee}{LET}{\fontencoding{Let}\selectfont\textethiopicchee}
2654 \DeclareTextSymbol{\textethiopicche}{Let}{45}
2655 \DeclareTextCommand{\textethiopicche}{LET}{\fontencoding{Let}\selectfont\textethiopicche}
2656 \DeclareTextSymbol{\textethiopiccho}{Let}{46}
2657 \DeclareTextCommand{\textethiopiccho}{LET}{\fontencoding{Let}\selectfont\textethiopiccho}
2658 \DeclareTextSymbol{\textethiopicchwa}{Let}{47}
2659 \DeclareTextCommand{\textethiopicchwa}{LET}{\fontencoding{Let}\selectfont\textethiopicchwa}
2660 \DeclareTextSymbol{\textethiopicpha}{Let}{48}
2661 \DeclareTextCommand{\textethiopicpha}{LET}{\fontencoding{Let}\selectfont\textethiopicpha}
2662 \DeclareTextSymbol{\textethiopicphu}{Let}{49}
2663 \DeclareTextCommand{\textethiopicphu}{LET}{\fontencoding{Let}\selectfont\textethiopicphu}
2664 \DeclareTextSymbol{\textethiopicphi}{Let}{50}
2665 \DeclareTextCommand{\textethiopicphi}{LET}{\fontencoding{Let}\selectfont\textethiopicphi}
2666 \DeclareTextSymbol{\textethiopicphaa}{Let}{51}
2667 \DeclareTextCommand{\textethiopicphaa}{LET}{\fontencoding{Let}\selectfont\textethiopicphaa}
2668 \DeclareTextSymbol{\textethiopicphee}{Let}{52}
2669 \DeclareTextCommand{\textethiopicphee}{LET}{\fontencoding{Let}\selectfont\textethiopicphee}
2670 \DeclareTextSymbol{\textethiopicphe}{Let}{53}
2671 \DeclareTextCommand{\textethiopicphe}{LET}{\fontencoding{Let}\selectfont\textethiopicphe}
2672 \DeclareTextSymbol{\textethiopicpho}{Let}{54}
2673 \DeclareTextCommand{\textethiopicpho}{LET}{\fontencoding{Let}\selectfont\textethiopicpho}
2674 \DeclareTextSymbol{\textethiopicphwa}{Let}{55}
2675 \DeclareTextCommand{\textethiopicphwa}{LET}{\fontencoding{Let}\selectfont\textethiopicphwa}
2676 \DeclareTextSymbol{\textethiopictsa}{Let}{56}
2677 \DeclareTextCommand{\textethiopictsa}{LET}{\fontencoding{Let}\selectfont\textethiopictsa}
2678 \DeclareTextSymbol{\textethiopictsu}{Let}{57}
2679 \DeclareTextCommand{\textethiopictsu}{LET}{\fontencoding{Let}\selectfont\textethiopictsu}
2680 \DeclareTextSymbol{\textethiopictsi}{Let}{58}
2681 \DeclareTextCommand{\textethiopictsi}{LET}{\fontencoding{Let}\selectfont\textethiopictsi}
2682 \DeclareTextSymbol{\textethiopictsaa}{Let}{59}
2683 \DeclareTextCommand{\textethiopictsaa}{LET}{\fontencoding{Let}\selectfont\textethiopictsaa}
2684 \DeclareTextSymbol{\textethiopicsee}{Let}{60}
2685 \DeclareTextCommand{\textethiopicsee}{LET}{\fontencoding{Let}\selectfont\textethiopicsee}
2686 \DeclareTextSymbol{\textethiopicsee}{Let}{61}

```

```

2687 \DeclareTextCommand{\textethiopictse}{LET}{\fontencoding{Let}\selectfont\textethiopictse}
2688 \DeclareTextSymbol{\textethiopictso}{Let}{62}
2689 \DeclareTextCommand{\textethiopictso}{LET}{\fontencoding{Let}\selectfont\textethiopictso}
2690 \DeclareTextSymbol{\textethiopictswa}{Let}{63}
2691 \DeclareTextCommand{\textethiopictswa}{LET}{\fontencoding{Let}\selectfont\textethiopictswa}
2692 \DeclareTextSymbol{\textethiopictza}{Let}{64}
2693 \DeclareTextCommand{\textethiopictza}{LET}{\fontencoding{Let}\selectfont\textethiopictza}
2694 \DeclareTextSymbol{\textethiopictzu}{Let}{65}
2695 \DeclareTextCommand{\textethiopictzu}{LET}{\fontencoding{Let}\selectfont\textethiopictzu}
2696 \DeclareTextSymbol{\textethiopictzi}{Let}{66}
2697 \DeclareTextCommand{\textethiopictzi}{LET}{\fontencoding{Let}\selectfont\textethiopictzi}
2698 \DeclareTextSymbol{\textethiopictzaa}{Let}{67}
2699 \DeclareTextCommand{\textethiopictzaa}{LET}{\fontencoding{Let}\selectfont\textethiopictzaa}
2700 \DeclareTextSymbol{\textethiopictzee}{Let}{68}
2701 \DeclareTextCommand{\textethiopictzee}{LET}{\fontencoding{Let}\selectfont\textethiopictzee}
2702 \DeclareTextSymbol{\textethiopictze}{Let}{69}
2703 \DeclareTextCommand{\textethiopictze}{LET}{\fontencoding{Let}\selectfont\textethiopictze}
2704 \DeclareTextSymbol{\textethiopictzo}{Let}{70}
2705 \DeclareTextCommand{\textethiopictzo}{LET}{\fontencoding{Let}\selectfont\textethiopictzo}
2706 \DeclareTextSymbol{\textethiopicfa}{Let}{72}
2707 \DeclareTextCommand{\textethiopicfa}{LET}{\fontencoding{Let}\selectfont\textethiopicfa}
2708 \DeclareTextSymbol{\textethiopicfu}{Let}{73}
2709 \DeclareTextCommand{\textethiopicfu}{LET}{\fontencoding{Let}\selectfont\textethiopicfu}
2710 \DeclareTextSymbol{\textethiopicfi}{Let}{74}
2711 \DeclareTextCommand{\textethiopicfi}{LET}{\fontencoding{Let}\selectfont\textethiopicfi}
2712 \DeclareTextSymbol{\textethiopicfaa}{Let}{75}
2713 \DeclareTextCommand{\textethiopicfaa}{LET}{\fontencoding{Let}\selectfont\textethiopicfaa}
2714 \DeclareTextSymbol{\textethiopicfee}{Let}{76}
2715 \DeclareTextCommand{\textethiopicfee}{LET}{\fontencoding{Let}\selectfont\textethiopicfee}
2716 \DeclareTextSymbol{\textethiopicfe}{Let}{77}
2717 \DeclareTextCommand{\textethiopicfe}{LET}{\fontencoding{Let}\selectfont\textethiopicfe}
2718 \DeclareTextSymbol{\textethiopicfo}{Let}{78}
2719 \DeclareTextCommand{\textethiopicfo}{LET}{\fontencoding{Let}\selectfont\textethiopicfo}
2720 \DeclareTextSymbol{\textethiopicfwa}{Let}{79}
2721 \DeclareTextCommand{\textethiopicfwa}{LET}{\fontencoding{Let}\selectfont\textethiopicfwa}
2722 \DeclareTextSymbol{\textethiopicpa}{Let}{80}
2723 \DeclareTextCommand{\textethiopicpa}{LET}{\fontencoding{Let}\selectfont\textethiopicpa}
2724 \DeclareTextSymbol{\textethiopicpu}{Let}{81}
2725 \DeclareTextCommand{\textethiopicpu}{LET}{\fontencoding{Let}\selectfont\textethiopicpu}
2726 \DeclareTextSymbol{\textethiopicpi}{Let}{82}
2727 \DeclareTextCommand{\textethiopicpi}{LET}{\fontencoding{Let}\selectfont\textethiopicpi}
2728 \DeclareTextSymbol{\textethiopicpaa}{Let}{83}
2729 \DeclareTextCommand{\textethiopicpaa}{LET}{\fontencoding{Let}\selectfont\textethiopicpaa}
2730 \DeclareTextSymbol{\textethiopicpee}{Let}{84}
2731 \DeclareTextCommand{\textethiopicpee}{LET}{\fontencoding{Let}\selectfont\textethiopicpee}
2732 \DeclareTextSymbol{\textethiopicpe}{Let}{85}
2733 \DeclareTextCommand{\textethiopicpe}{LET}{\fontencoding{Let}\selectfont\textethiopicpe}
2734 \DeclareTextSymbol{\textethiopicpo}{Let}{86}
2735 \DeclareTextCommand{\textethiopicpo}{LET}{\fontencoding{Let}\selectfont\textethiopicpo}
2736 \DeclareTextSymbol{\textethiopicpwa}{Let}{87}
2737 \DeclareTextCommand{\textethiopicpwa}{LET}{\fontencoding{Let}\selectfont\textethiopicpwa}
2738 \DeclareTextSymbol{\textethiopicrya}{Let}{88}
2739 \DeclareTextCommand{\textethiopicrya}{LET}{\fontencoding{Let}\selectfont\textethiopicrya}
2740 \DeclareTextSymbol{\textethiopicmya}{Let}{89}

```

2741 \DeclareTextCommand{\textethiopicmya}{LET}{\fontencoding{Let}\selectfont\textethiopicmya}
2742 \DeclareTextSymbol{\textethiopicfya}{Let}{90}
2743 \DeclareTextCommand{\textethiopicfya}{LET}{\fontencoding{Let}\selectfont\textethiopicfya}
2744 \DeclareTextSymbol{\textethiopicwordspace}{Let}{97}
2745 \DeclareTextCommand{\textethiopicwordspace}{LET}{\fontencoding{Let}\selectfont\textethiopicw
2746 \DeclareTextSymbol{\textethiopicfullstop}{Let}{98}
2747 \DeclareTextCommand{\textethiopicfullstop}{LET}{\fontencoding{Let}\selectfont\textethiopicfu
2748 \DeclareTextSymbol{\textethiopiccomma}{Let}{99}
2749 \DeclareTextCommand{\textethiopiccomma}{LET}{\fontencoding{Let}\selectfont\textethiopiccomma
2750 \DeclareTextSymbol{\textethiopicsemicolon}{Let}{100}
2751 \DeclareTextCommand{\textethiopicsemicolon}{LET}{\fontencoding{Let}\selectfont\textethiopics
2752 \DeclareTextSymbol{\textethiopiccolon}{Let}{101}
2753 \DeclareTextCommand{\textethiopiccolon}{LET}{\fontencoding{Let}\selectfont\textethiopiccolon
2754 \DeclareTextSymbol{\textethiopicprefacecolon}{Let}{102}
2755 \DeclareTextCommand{\textethiopicprefacecolon}{LET}{\fontencoding{Let}\selectfont\textethiop
2756 \DeclareTextSymbol{\textethiopicquestionmark}{Let}{103}
2757 \DeclareTextCommand{\textethiopicquestionmark}{LET}{\fontencoding{Let}\selectfont\textethiop
2758 \DeclareTextSymbol{\textethiopicparagraph}{Let}{104}
2759 \DeclareTextCommand{\textethiopicparagraph}{LET}{\fontencoding{Let}\selectfont\textethiopicp
2760 \DeclareTextSymbol{\textethiopicone}{Let}{105}
2761 \DeclareTextCommand{\textethiopicone}{LET}{\fontencoding{Let}\selectfont\textethiopicone}
2762 \DeclareTextSymbol{\textethiopictwo}{Let}{106}
2763 \DeclareTextCommand{\textethiopictwo}{LET}{\fontencoding{Let}\selectfont\textethiopictwo}
2764 \DeclareTextSymbol{\textethiopicthree}{Let}{107}
2765 \DeclareTextCommand{\textethiopicthree}{LET}{\fontencoding{Let}\selectfont\textethiopicthree
2766 \DeclareTextSymbol{\textethiopicfour}{Let}{108}
2767 \DeclareTextCommand{\textethiopicfour}{LET}{\fontencoding{Let}\selectfont\textethiopicfour}
2768 \DeclareTextSymbol{\textethiopicfive}{Let}{109}
2769 \DeclareTextCommand{\textethiopicfive}{LET}{\fontencoding{Let}\selectfont\textethiopicfive}
2770 \DeclareTextSymbol{\textethiopicsix}{Let}{110}
2771 \DeclareTextCommand{\textethiopicsix}{LET}{\fontencoding{Let}\selectfont\textethiopicsix}
2772 \DeclareTextSymbol{\textethiopicseven}{Let}{111}
2773 \DeclareTextCommand{\textethiopicseven}{LET}{\fontencoding{Let}\selectfont\textethiopicseven
2774 \DeclareTextSymbol{\textethiopiceight}{Let}{112}
2775 \DeclareTextCommand{\textethiopiceight}{LET}{\fontencoding{Let}\selectfont\textethiopiceight
2776 \DeclareTextSymbol{\textethiopicnine}{Let}{113}
2777 \DeclareTextCommand{\textethiopicnine}{LET}{\fontencoding{Let}\selectfont\textethiopicnine}
2778 \DeclareTextSymbol{\textethiopicnten}{Let}{114}
2779 \DeclareTextCommand{\textethiopicnten}{LET}{\fontencoding{Let}\selectfont\textethiopicnten}
2780 \DeclareTextSymbol{\textethiopictwenty}{Let}{115}
2781 \DeclareTextCommand{\textethiopictwenty}{LET}{\fontencoding{Let}\selectfont\textethiopictwo
2782 \DeclareTextSymbol{\textethiopicthirty}{Let}{116}
2783 \DeclareTextCommand{\textethiopicthirty}{LET}{\fontencoding{Let}\selectfont\textethiopicthir
2784 \DeclareTextSymbol{\textethiopicforty}{Let}{117}
2785 \DeclareTextCommand{\textethiopicforty}{LET}{\fontencoding{Let}\selectfont\textethiopicforty
2786 \DeclareTextSymbol{\textethiopicfifty}{Let}{118}
2787 \DeclareTextCommand{\textethiopicfifty}{LET}{\fontencoding{Let}\selectfont\textethiopicfifty
2788 \DeclareTextSymbol{\textethiopicsixty}{Let}{119}
2789 \DeclareTextCommand{\textethiopicsixty}{LET}{\fontencoding{Let}\selectfont\textethiopicsixty
2790 \DeclareTextSymbol{\textethiopicseventy}{Let}{120}
2791 \DeclareTextCommand{\textethiopicseventy}{LET}{\fontencoding{Let}\selectfont\textethiopicsev
2792 \DeclareTextSymbol{\textethiopiceighty}{Let}{121}
2793 \DeclareTextCommand{\textethiopiceighty}{LET}{\fontencoding{Let}\selectfont\textethiopiceigh
2794 \DeclareTextSymbol{\textethiopicninety}{Let}{122}


```

2795 \DeclareTextCommand{\textethiopicninety}{LET}{\fontencoding{Let}\selectfont\textethiopicnine}
2796 \DeclareTextSymbol{\textethiopic hundred}{Let}{123}
2797 \DeclareTextCommand{\textethiopic hundred}{LET}{\fontencoding{Let}\selectfont\textethiopic hundred}
2798 \DeclareTextSymbol{\textethiopic tenthousand}{Let}{124}
2799 \DeclareTextCommand{\textethiopic tenthousand}{LET}{\fontencoding{Let}\selectfont\textethiopic tenthousand}
2800 %
2801 </letenc.def>

```

4.14 File letgfzem.fd

```

2802 <*letgfzem.fd>
2803 \ProvidesFile{letgfzem.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family]
2804 \DeclareFontFamily{LET}{gfzem}{}
2805 \DeclareFontFamily{Let}{gfzem}{}
2806 \DeclareFontShape{LET}{gfzem}{m}{n}{<-> * gfzemen12}{}
2807 \DeclareFontShape{Let}{gfzem}{m}{n}{<-> * gfzemen13}{}
2808 %
2809 </letgfzem.fd>

```

4.15 File letjiret.fd

```

2810 <*letjiret.fd>
2811 \ProvidesFile{letjiret.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family]
2812 \DeclareFontFamily{LET}{jiret}{}
2813 \DeclareFontFamily{Let}{jiret}{}
2814 \DeclareFontShape{LET}{jiret}{m}{n}{<-> * jiret12}{}
2815 \DeclareFontShape{Let}{jiret}{m}{n}{<-> * jiret13}{}
2816 %
2817 </letjiret.fd>

```

4.16 File letc2000.fd

```

2818 <*letc2000.fd>
2819 \ProvidesFile{letc2000.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family]
2820 \DeclareFontFamily{LET}{c2000}{}
2821 \DeclareFontFamily{Let}{c2000}{}
2822 \DeclareFontShape{LET}{c2000}{m}{n}{<-> * code2k12}{}
2823 \DeclareFontShape{Let}{c2000}{m}{n}{<-> * code2k13}{}
2824 %
2825 </letc2000.fd>

```

4.17 File ltaenc.def

```

2826 <*ltaenc.def>
2827 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2828 \ProvidesFile{ltaenc.def}[2004/10/17 Autogenerated encoding LTA]
2829 \DeclareFontEncoding{LTA}{}{}
2830 \DeclareFontSubstitution{LTA}{arial}{m}{n}
2831 \DeclareTextSymbol{\guillemotleft}{LTA}{19}
2832 \DeclareTextSymbol{\guillemotright}{LTA}{20}
2833 \DeclareTextSymbol{\guilsinglleft}{LTA}{14}
2834 \DeclareTextSymbol{\guilsinglright}{LTA}{15}
2835 \DeclareTextSymbol{\i}{LTA}{25}
2836 \DeclareTextSymbol{\quotedblbase}{LTA}{18}
2837 \DeclareTextSymbol{\quotesinglbase}{LTA}{13}

```

2838 \DeclareTextSymbol{\textasciicircum}{LTA}{'\^}
2839 \DeclareTextSymbol{\textasciitilde}{LTA}{'\~}
2840 \DeclareTextSymbol{\textbackslash}{LTA}{'\\
2841 \DeclareTextSymbol{\textbar}{LTA}{'\|}
2842 \DeclareTextSymbol{\textbraceleft}{LTA}{'\{
2843 \DeclareTextSymbol{\textbraceright}{LTA}{'\}
2844 \DeclareTextSymbol{\textdollar}{LTA}{'\\$}
2845 \DeclareTextSymbol{\textemdash}{LTA}{22}
2846 \DeclareTextSymbol{\textendash}{LTA}{21}
2847 \DeclareTextSymbol{\textgreater}{LTA}{'\>}
2848 \DeclareTextSymbol{\textless}{LTA}{'\<}
2849 \DeclareTextSymbol{\textquotedblleft}{LTA}{16}
2850 \DeclareTextSymbol{\textquotedblright}{LTA}{17}
2851 \DeclareTextSymbol{\textquotedbl}{LTA}{'\"}
2852 \DeclareTextSymbol{\textquoteleft}{LTA}{'\'
2853 \DeclareTextSymbol{\textquoteright}{LTA}{'\'}
2854 \DeclareTextSymbol{\textunderscore}{LTA}{95}
2855 \DeclareTextSymbol{\thaiKoKai}{LTA}{129}
2856 \DeclareTextSymbol{\thaiKhoKhai}{LTA}{130}
2857 \DeclareTextSymbol{\thaiKhoKhuat}{LTA}{131}
2858 \DeclareTextSymbol{\thaiKhoKhwai}{LTA}{132}
2859 \DeclareTextSymbol{\thaiKhoKhon}{LTA}{133}
2860 \DeclareTextSymbol{\thaiKhoRakhang}{LTA}{134}
2861 \DeclareTextSymbol{\thaiNgoNgu}{LTA}{135}
2862 \DeclareTextSymbol{\thaiChoChan}{LTA}{136}
2863 \DeclareTextSymbol{\thaiChoChing}{LTA}{137}
2864 \DeclareTextSymbol{\thaiChoChang}{LTA}{138}
2865 \DeclareTextSymbol{\thaiSoSo}{LTA}{139}
2866 \DeclareTextSymbol{\thaiChoChoe}{LTA}{140}
2867 \DeclareTextSymbol{\thaiYoYing}{LTA}{141}
2868 \DeclareTextSymbol{\thaiDoChada}{LTA}{142}
2869 \DeclareTextSymbol{\thaiToPatak}{LTA}{143}
2870 \DeclareTextSymbol{\thaiThoThan}{LTA}{144}
2871 \DeclareTextSymbol{\thaiThoNangmontho}{LTA}{145}
2872 \DeclareTextSymbol{\thaiThoPhuthao}{LTA}{146}
2873 \DeclareTextSymbol{\thaiNoNen}{LTA}{147}
2874 \DeclareTextSymbol{\thaiDoDek}{LTA}{148}
2875 \DeclareTextSymbol{\thaiToTao}{LTA}{149}
2876 \DeclareTextSymbol{\thaiThoThung}{LTA}{150}
2877 \DeclareTextSymbol{\thaiThoThahan}{LTA}{151}
2878 \DeclareTextSymbol{\thaiThoThong}{LTA}{152}
2879 \DeclareTextSymbol{\thaiNoNu}{LTA}{153}
2880 \DeclareTextSymbol{\thaiBoBaimai}{LTA}{154}
2881 \DeclareTextSymbol{\thaiPoPla}{LTA}{155}
2882 \DeclareTextSymbol{\thaiPhoPhung}{LTA}{156}
2883 \DeclareTextSymbol{\thaiFoFa}{LTA}{157}
2884 \DeclareTextSymbol{\thaiPhoPhan}{LTA}{158}
2885 \DeclareTextSymbol{\thaiFoFan}{LTA}{159}
2886 \DeclareTextSymbol{\thaiPhoSamphao}{LTA}{160}
2887 \DeclareTextSymbol{\thaiMoMa}{LTA}{161}
2888 \DeclareTextSymbol{\thaiYoYak}{LTA}{162}
2889 \DeclareTextSymbol{\thaiRoRua}{LTA}{163}
2890 \DeclareTextSymbol{\thaiRu}{LTA}{164}
2891 \DeclareTextSymbol{\thaiLoLing}{LTA}{165}

2892 \DeclareTextSymbol{\thaiLu}{LTA}{166}
2893 \DeclareTextSymbol{\thaiWoWaeen}{LTA}{167}
2894 \DeclareTextSymbol{\thaiSoSala}{LTA}{168}
2895 \DeclareTextSymbol{\thaiSoRusi}{LTA}{169}
2896 \DeclareTextSymbol{\thaiSoSua}{LTA}{170}
2897 \DeclareTextSymbol{\thaiHoHip}{LTA}{171}
2898 \DeclareTextSymbol{\thaiLoChula}{LTA}{172}
2899 \DeclareTextSymbol{\thaiOAng}{LTA}{173}
2900 \DeclareTextSymbol{\thaiHoNokhuk}{LTA}{174}
2901 \DeclareTextSymbol{\thaiPaiyannoi}{LTA}{175}
2902 \DeclareTextSymbol{\thaiSaraA}{LTA}{176}
2903 \DeclareTextSymbol{\thaiMaiHanakat}{LTA}{177}
2904 \DeclareTextSymbol{\thaiSaraAa}{LTA}{178}
2905 \DeclareTextSymbol{\thaiSaraAm}{LTA}{179}
2906 \DeclareTextSymbol{\thaiSaraI}{LTA}{180}
2907 \DeclareTextSymbol{\thaiSaraIi}{LTA}{181}
2908 \DeclareTextSymbol{\thaiSaraUe}{LTA}{182}
2909 \DeclareTextSymbol{\thaiSaraUee}{LTA}{183}
2910 \DeclareTextSymbol{\thaiSaraU}{LTA}{184}
2911 \DeclareTextSymbol{\thaiSaraUu}{LTA}{185}
2912 \DeclareTextSymbol{\thaiPhinthu}{LTA}{186}
2913 \DeclareTextSymbol{\textbaht}{LTA}{191}
2914 \DeclareTextSymbol{\thaiSaraE}{LTA}{192}
2915 \DeclareTextSymbol{\thaiSaraAe}{LTA}{193}
2916 \DeclareTextSymbol{\thaiSaraO}{LTA}{194}
2917 \DeclareTextSymbol{\thaiSaraAiMaimuan}{LTA}{195}
2918 \DeclareTextSymbol{\thaiSaraAiMaimalai}{LTA}{196}
2919 \DeclareTextSymbol{\thaiLakkhangyao}{LTA}{197}
2920 \DeclareTextSymbol{\thaiMaiyamok}{LTA}{198}
2921 \DeclareTextSymbol{\thaiMaitaikhu}{LTA}{199}
2922 \DeclareTextSymbol{\thaiMaiEk}{LTA}{200}
2923 \DeclareTextSymbol{\thaiMaiTho}{LTA}{201}
2924 \DeclareTextSymbol{\thaiMaiTri}{LTA}{202}
2925 \DeclareTextSymbol{\thaiMaiChattawa}{LTA}{203}
2926 \DeclareTextSymbol{\thaiThanthakhat}{LTA}{204}
2927 \DeclareTextSymbol{\thaiNikhahit}{LTA}{205}
2928 \DeclareTextSymbol{\thaiYamakkan}{LTA}{206}
2929 \DeclareTextSymbol{\thaiFongman}{LTA}{207}
2930 \DeclareTextSymbol{\thaizero}{LTA}{208}
2931 \DeclareTextSymbol{\thaione}{LTA}{209}
2932 \DeclareTextSymbol{\thaitwo}{LTA}{210}
2933 \DeclareTextSymbol{\thaithree}{LTA}{211}
2934 \DeclareTextSymbol{\thaifour}{LTA}{212}
2935 \DeclareTextSymbol{\thaifive}{LTA}{213}
2936 \DeclareTextSymbol{\thaisix}{LTA}{214}
2937 \DeclareTextSymbol{\thaiseven}{LTA}{215}
2938 \DeclareTextSymbol{\thaeight}{LTA}{216}
2939 \DeclareTextSymbol{\thainine}{LTA}{217}
2940 \DeclareTextSymbol{\thaiAngkhankhu}{LTA}{218}
2941 \DeclareTextSymbol{\thaiKhomut}{LTA}{219}
2942 %
2943 </ltaenc.def>

4.18 File ltaarial.fd

```
2944 <*ltaarial.fd>
2945 \ProvidesFile{ltaarial.fd}[2004/10/17 Autogenerated .fd file for encoding LTA, family arial]
2946 \DeclareFontFamily{LTA}{arial}{}
2947 \DeclareFontShape{LTA}{arial}{m}{n}{<-> * arialuni0e0t}{}
2948 %
2949 </ltaarial.fd>
```

4.19 File ltac2000.fd

```
2950 <*ltac2000.fd>
2951 \ProvidesFile{ltac2000.fd}[2004/10/17 Autogenerated .fd file for encoding LTA, family c2000]
2952 \DeclareFontFamily{LTA}{c2000}{}
2953 \DeclareFontShape{LTA}{c2000}{m}{n}{<-> * code2k0e0t}{}
2954 %
2955 </ltac2000.fd>
```

4.20 File ltgenc.def

```
2956 <*ltgenc.def>
2957 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2958 \ProvidesFile{ltgenc.def}[2004/10/17 Autogenerated encoding LTG]
2959 \DeclareFontEncoding{LTG}{}{}
2960 \DeclareFontSubstitution{LTG}{c2000}{m}{n}
2961 \DeclareTextCommand{\texttelugustart}{LTG}{}
2962 \DeclareTextCommand{\texttelugustop}{LTG}{}
2963 \DeclareTextSymbol{\guillemotleft}{LTG}{19}
2964 \DeclareTextSymbol{\guillemotright}{LTG}{20}
2965 \DeclareTextSymbol{\guilsinglleft}{LTG}{14}
2966 \DeclareTextSymbol{\guilsinglright}{LTG}{15}
2967 \DeclareTextSymbol{\i}{LTG}{25}
2968 \DeclareTextSymbol{\quotedblbase}{LTG}{18}
2969 \DeclareTextSymbol{\quotesinglbase}{LTG}{13}
2970 \DeclareTextSymbol{\textasciicircum}{LTG}{‘^’}
2971 \DeclareTextSymbol{\textasciitilde}{LTG}{‘~’}
2972 \DeclareTextSymbol{\textbackslash}{LTG}{‘\’}
2973 \DeclareTextSymbol{\textbar}{LTG}{‘|’}
2974 \DeclareTextSymbol{\textbraceleft}{LTG}{‘{’}
2975 \DeclareTextSymbol{\textbraceright}{LTG}{‘}’}
2976 \DeclareTextSymbol{\textdollar}{LTG}{‘$’}
2977 \DeclareTextSymbol{\textemdash}{LTG}{22}
2978 \DeclareTextSymbol{\textendash}{LTG}{21}
2979 \DeclareTextSymbol{\textgreater}{LTG}{‘>’}
2980 \DeclareTextSymbol{\textless}{LTG}{‘<’}
2981 \DeclareTextSymbol{\textquotedblleft}{LTG}{16}
2982 \DeclareTextSymbol{\textquotedblright}{LTG}{17}
2983 \DeclareTextSymbol{\textquotedbl}{LTG}{‘”’}
2984 \DeclareTextSymbol{\textquoteleft}{LTG}{‘‘’}
2985 \DeclareTextSymbol{\textquoteright}{LTG}{‘’’}
2986 \DeclareTextSymbol{\textunderscore}{LTG}{95}
2987 \DeclareTextCommand{\texttelugucandrabindu}{LTG}[1]{#1\char129 }
2988 \DeclareTextCommand{\textteluguanusvara}{LTG}[1]{#1\char130 }
2989 \DeclareTextCommand{\textteluguvisarga}{LTG}[1]{#1\char131 }
2990 \DeclareTextSymbol{\texttelugua}{LTG}{133}
```

2991 \DeclareTextSymbol{\texttelugaa}{LTG}{134}
2992 \DeclareTextSymbol{\texttelugui}{LTG}{135}
2993 \DeclareTextSymbol{\textteluguii}{LTG}{136}
2994 \DeclareTextSymbol{\textteluguiii}{LTG}{137}
2995 \DeclareTextSymbol{\textteluguu}{LTG}{138}
2996 \DeclareTextSymbol{\textteluguuu}{LTG}{139}
2997 \DeclareTextSymbol{\textteluguvocalicr}{LTG}{140}
2998 \DeclareTextSymbol{\textteluguvocalicl}{LTG}{142}
2999 \DeclareTextSymbol{\texttelugue}{LTG}{143}
3000 \DeclareTextSymbol{\textteluguee}{LTG}{144}
3001 \DeclareTextSymbol{\textteluguai}{LTG}{146}
3002 \DeclareTextSymbol{\textteluguo}{LTG}{147}
3003 \DeclareTextSymbol{\textteluguoo}{LTG}{148}
3004 \DeclareTextSymbol{\textteluguau}{LTG}{149}
3005 \DeclareTextSymbol{\textteluguka}{LTG}{150}
3006 \DeclareTextSymbol{\texttelugukha}{LTG}{151}
3007 \DeclareTextSymbol{\textteluguga}{LTG}{152}
3008 \DeclareTextSymbol{\texttelugugha}{LTG}{153}
3009 \DeclareTextSymbol{\texttelugunga}{LTG}{154}
3010 \DeclareTextSymbol{\textteluguca}{LTG}{155}
3011 \DeclareTextSymbol{\texttelugucha}{LTG}{156}
3012 \DeclareTextSymbol{\textteluguja}{LTG}{157}
3013 \DeclareTextSymbol{\texttelugujha}{LTG}{158}
3014 \DeclareTextSymbol{\texttelugunya}{LTG}{159}
3015 \DeclareTextSymbol{\texttelugutta}{LTG}{160}
3016 \DeclareTextSymbol{\textteluguttha}{LTG}{161}
3017 \DeclareTextSymbol{\texttelugudda}{LTG}{162}
3018 \DeclareTextSymbol{\textteluguddha}{LTG}{163}
3019 \DeclareTextSymbol{\texttelugunna}{LTG}{164}
3020 \DeclareTextSymbol{\textteluguta}{LTG}{165}
3021 \DeclareTextSymbol{\texttelugutha}{LTG}{166}
3022 \DeclareTextSymbol{\textteluguda}{LTG}{167}
3023 \DeclareTextSymbol{\texttelugudha}{LTG}{168}
3024 \DeclareTextSymbol{\textteluguna}{LTG}{170}
3025 \DeclareTextSymbol{\texttelugupa}{LTG}{171}
3026 \DeclareTextSymbol{\texttelugupha}{LTG}{172}
3027 \DeclareTextSymbol{\textteluguba}{LTG}{173}
3028 \DeclareTextSymbol{\texttelugubha}{LTG}{174}
3029 \DeclareTextSymbol{\texttelugubha}{LTG}{175}
3030 \DeclareTextSymbol{\texttelugubha}{LTG}{176}
3031 \DeclareTextSymbol{\texttelugubha}{LTG}{177}
3032 \DeclareTextSymbol{\texttelugubha}{LTG}{178}
3033 \DeclareTextSymbol{\texttelugubha}{LTG}{179}
3034 \DeclareTextSymbol{\texttelugubha}{LTG}{181}
3035 \DeclareTextSymbol{\texttelugubha}{LTG}{182}
3036 \DeclareTextSymbol{\texttelugubha}{LTG}{183}
3037 \DeclareTextSymbol{\texttelugubha}{LTG}{184}
3038 \DeclareTextSymbol{\texttelugubha}{LTG}{185}
3039 \DeclareTextCommand{\textteluguvowelaa}{LTG}[1]{#1\char190 }
3040 \DeclareTextCommand{\textteluguvowelii}{LTG}[1]{#1\char191 }
3041 \DeclareTextCommand{\textteluguvoweliii}{LTG}[1]{#1\char192 }
3042 \DeclareTextCommand{\textteluguvoweluu}{LTG}[1]{#1\char193 }
3043 \DeclareTextCommand{\textteluguvoweluuu}{LTG}[1]{#1\char194 }
3044 \DeclareTextCommand{\textteluguvowelvocalicr}{LTG}[1]{#1\char195 }

```

3045 \DeclareTextCommand{\textteluguvowelvocalicrr}{LTG}[1]{#1\char196 }
3046 \DeclareTextCommand{\textteluguvowele}{LTG}[1]{#1\char198 }
3047 \DeclareTextCommand{\textteluguvoweleee}{LTG}[1]{#1\char199 }
3048 \DeclareTextCommand{\textteluguvowelai}{LTG}[1]{#1\char200 }
3049 \DeclareTextCommand{\textteluguvowelo}{LTG}[1]{#1\char202 }
3050 \DeclareTextCommand{\textteluguvoweloo}{LTG}[1]{#1\char203 }
3051 \DeclareTextCommand{\textteluguvowelau}{LTG}[1]{#1\char204 }
3052 \DeclareTextCommand{\textteluguvirama}{LTG}[1]{#1\char205 }
3053 \DeclareTextCommand{\texttelugulengthmark}{LTG}[1]{#1\char213 }
3054 \DeclareTextCommand{\textteluguailengthmark}{LTG}[1]{#1\char214 }
3055 \DeclareTextSymbol{\textteluguvocalicrr}{LTG}{224}
3056 \DeclareTextSymbol{\textteluguvocalicll}{LTG}{225}
3057 \DeclareTextSymbol{\textteluguzero}{LTG}{230}
3058 \DeclareTextSymbol{\textteluguone}{LTG}{231}
3059 \DeclareTextSymbol{\texttelugutwo}{LTG}{232}
3060 \DeclareTextSymbol{\textteluguthree}{LTG}{233}
3061 \DeclareTextSymbol{\texttelugufour}{LTG}{234}
3062 \DeclareTextSymbol{\texttelugufive}{LTG}{235}
3063 \DeclareTextSymbol{\texttelugusix}{LTG}{236}
3064 \DeclareTextSymbol{\textteluguseven}{LTG}{237}
3065 \DeclareTextSymbol{\texttelugueight}{LTG}{238}
3066 \DeclareTextSymbol{\texttelugunine}{LTG}{239}
3067 %
3068 </ltgenc.def>

```

4.21 File ltgc2000.fd

```

3069 <*ltgc2000.fd>
3070 \ProvidesFile{ltgc2000.fd}[2004/10/17 Autogenerated .fd file for encoding LTG, family c2000]
3071 \DeclareFontFamily{LTG}{c2000}{}
3072 \DeclareFontShape{LTG}{c2000}{m}{n}{<-> * code2k0c0t}{}
3073 \DeclareFontShape{LTG}{c2000}{m}{n}{<-> * arialuni0c0t}{}
3074 %
3075 </ltgc2000.fd>

```

4.22 File ltlenc.def

```

3076 <*ltlenc.def>
3077 \DeclareFontEncoding{LTL}{}{}
3078 \DeclareFontSubstitution{LTL}{cmr}{m}{n}

```

Load tlsyllable.tex, but disable loading of tlxlate.tex

```

3079 \let\uc@temp@a\@input
3080 \def\@input#1 {\def\@tempa{tlxlate}\def\@tempb{#1}\ifx\@tempb\@tempa\expandafter\@firstoftwo
3081 \input tlsyllable
3082 \let\@input\uc@temp@a
3083 %
3084 \let\l@tl@state0
3085 \let\l@tl@tlvoa\lvoa
3086 \DeclareTextCommand{\texttelugustart}{LTL}{\let\l@tl@state1
3087 \newcommand\l@tl@vowel[2]{\let\l@tl@tlvoa\empty#1\let\l@tl@tlvoa\lvoa\ifx\l@tl@state2\let\l@tl@s
3088 \newcommand\l@tl@cons[1]{\ifx\l@tl@state2\let\l@tl@state1\fi#1\l@tl@tlvoa}
3089 \newcommand\l@tl@ivowel[1]{\ifx\l@tl@state2\let\l@tl@state1\lvoX\fi#1}
3090 \newcommand\l@tl@dcons[1]{\ifx\l@tl@state1\let\l@tl@state2\fi#1\ifx\l@tl@state0\lvoX\fi}

```

```

3091 \DeclareTextCommand{\texttelugustop}{LTL}{\ifx\l1@state2\tlvoX\fi\let\l1@state0}
3092 %
3093 % \newcommand\l1@gencons[2]{%
3094 %   \expandafter\ifx\csname t1cb#2\endcsname\relax
3095 %     \PackageError{t1lenc.def}{\expandafter\string\csname t1cb#2\endcsname\space
3096 %       undefined}{\fi
3097 %   \edef\@tempa{%
3098 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname
3099 %       texttelugu#1\endcsname}{LTL}%
3100 %     {\noexpand\l1@cons{\expandafter\noexpand\csname t1cb#2\endcsname}}%
3101 %     \noexpand\DeclareTextCompositeCommand{\noexpand\textteluguvirama}{LTL}%
3102 %     {\expandafter\noexpand\csname texttelugu#1\endcsname}%
3103 %     {\noexpand\l1@dcons{\expandafter\noexpand\csname t1cb#2\endcsname}}}
3104 %   \toks255\expandafter{\@tempa}\typeout{\the\toks255}%
3105 %   \@tempa}
3106 % \newcommand\l1@genvow[2]{%
3107 %   \expandafter\ifx\csname tlvo#2\endcsname\relax
3108 %     \PackageError{t1lenc.def}{\expandafter\string\csname tlvo#2\endcsname\space
3109 %       undefined}{\fi
3110 %   \edef\@tempa{%
3111 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname
3112 %       textteluguvowel#1\endcsname}{LTL}[1]%
3113 %     {\noexpand\l1@vowel{###1}{\expandafter\noexpand\csname tlvo#2\endcsname}}%
3114 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname texttelugu#1\endcsname}{LTL}
3115 %     {\noexpand\l1@ivowel{\expandafter\noexpand\csname tlvo#2\endcsname}}}
3116 %   \toks255\expandafter{\@tempa}\typeout{\the\toks255}%
3117 %   \@tempa}
3118 % \newcommand\l1@gensymb[2]{%
3119 %   \edef\@tempa{%
3120 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname texttelugu#1\endcsname}{LTL}
3121 %     {\noexpand\l1@ivowel{#2}}}
3122 %   \toks255\expandafter{\@tempa}\typeout{\the\toks255}%
3123 %   \@tempa}
3124 %
3125 \DeclareTextCommand{\textascii}{LTL}[1]{\@textascii@switch{#1}}
3126 \DeclareTextCommand{\textteluguvirama}{LTL}[1]{\l1@vowel{#1}{\tlvoX}}
3127 \DeclareTextCommand{\texttelugucandrabindu}{LTL}[1]{\l1@vowel{#1}{\tluas}}
3128 \DeclareTextCommand{\textteluguanusvara}{LTL}[1]{\l1@vowel{#1}{\tluasu}}
3129 \DeclareTextCommand{\textteluguvisarga}{LTL}[1]{\l1@vowel{#1}{\tluavi}}
3130 \DeclareTextCommand{\texttelugucandrabindu}{LTL}[1]{#1\l1@ivowel{\tluas}}
3131 \DeclareTextCommand{\textteluguanusvara}{LTL}[1]{#1\l1@ivowel{\tluasu}}
3132 \DeclareTextCommand{\textteluguvisarga}{LTL}[1]{#1\l1@ivowel{\tluavi}}
3133 %
3134 \DeclareTextCommand{\texttelugudda}{LTL}{\l1@cons{t1cbD}}
3135 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugudda}{\l1@dcons{t1cbD}}
3136 \DeclareTextCommand{\texttelugubha}{LTL}{\l1@cons{t1cbbh}}
3137 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugubha}{\l1@dcons{t1cbbh}}
3138 \DeclareTextCommand{\texttelugunga}{LTL}{\l1@cons{t1cbNG}}
3139 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugunga}{\l1@dcons{t1cbNG}}
3140 \DeclareTextCommand{\texttelugudha}{LTL}{\l1@cons{t1cbdh}}
3141 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugudha}{\l1@dcons{t1cbdh}}
3142 \DeclareTextCommand{\textteluguka}{LTL}{\l1@cons{t1cbk}}
3143 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguka}{\l1@dcons{t1cbk}}
3144 \DeclareTextCommand{\texttelugussa}{LTL}{\l1@cons{t1cbSh}}

```

```

3145 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugussa}{\l1@l@cons{\tlcbSh}}
3146 \DeclareTextCommand{\textteluguma}{LTL}{\l1@l@cons{\tlcbm}}
3147 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguma}{\l1@l@cons{\tlcbm}}
3148 \DeclareTextCommand{\texttelugutta}{LTL}{\l1@l@cons{\tlcbT}}
3149 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugutta}{\l1@l@cons{\tlcbT}}
3150 \DeclareTextCommand{\texttelugusha}{LTL}{\l1@l@cons{\tlcbS}}
3151 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugusha}{\l1@l@cons{\tlcbS}}
3152 \DeclareTextCommand{\textteluguba}{LTL}{\l1@l@cons{\tlcbB}}
3153 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguba}{\l1@l@cons{\tlcbB}}
3154 \DeclareTextCommand{\texttelugusa}{LTL}{\l1@l@cons{\tlcbS}}
3155 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugusa}{\l1@l@cons{\tlcbS}}
3156 \DeclareTextCommand{\textteluguda}{LTL}{\l1@l@cons{\tlcbD}}
3157 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguda}{\l1@l@cons{\tlcbD}}
3158 \DeclareTextCommand{\texttelugujha}{LTL}{\l1@l@cons{\tlcbjh}}
3159 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugujha}{\l1@l@cons{\tlcbjh}}
3160 \DeclareTextCommand{\textteluguha}{LTL}{\l1@l@cons{\tlcbH}}
3161 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguha}{\l1@l@cons{\tlcbH}}
3162 \DeclareTextCommand{\textteluguttha}{LTL}{\l1@l@cons{\tlcbTh}}
3163 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguttha}{\l1@l@cons{\tlcbTh}}
3164 \DeclareTextCommand{\textteluguya}{LTL}{\l1@l@cons{\tlcbY}}
3165 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguya}{\l1@l@cons{\tlcbY}}
3166 \DeclareTextCommand{\texttelugucha}{LTL}{\l1@l@cons{\tlcbch}}
3167 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugucha}{\l1@l@cons{\tlcbch}}
3168 \DeclareTextCommand{\textteluguja}{LTL}{\l1@l@cons{\tlcbj}}
3169 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguja}{\l1@l@cons{\tlcbj}}
3170 \DeclareTextCommand{\texttelugunya}{LTL}{\l1@l@cons{\tlcbnx}}
3171 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugunya}{\l1@l@cons{\tlcbnx}}
3172 \DeclareTextCommand{\texttelugulla}{LTL}{\l1@l@cons{\tlcbL}}
3173 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugulla}{\l1@l@cons{\tlcbL}}
3174 \DeclareTextCommand{\texttelugupha}{LTL}{\l1@l@cons{\tlcbph}}
3175 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugupha}{\l1@l@cons{\tlcbph}}
3176 \DeclareTextCommand{\textteluguna}{LTL}{\l1@l@cons{\tlcbn}}
3177 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguna}{\l1@l@cons{\tlcbn}}
3178 \DeclareTextCommand{\texttelugugha}{LTL}{\l1@l@cons{\tlcbgh}}
3179 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugugha}{\l1@l@cons{\tlcbgh}}
3180 \DeclareTextCommand{\textteluguddha}{LTL}{\l1@l@cons{\tlcbDh}}
3181 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguddha}{\l1@l@cons{\tlcbDh}}
3182 \DeclareTextCommand{\texttelugunna}{LTL}{\l1@l@cons{\tlcbN}}
3183 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugunna}{\l1@l@cons{\tlcbN}}
3184 \DeclareTextCommand{\texttelugupa}{LTL}{\l1@l@cons{\tlcbp}}
3185 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugupa}{\l1@l@cons{\tlcbp}}
3186 \DeclareTextCommand{\texttelugura}{LTL}{\l1@l@cons{\tlcbr}}
3187 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugura}{\l1@l@cons{\tlcbr}}
3188 \DeclareTextCommand{\textteluguca}{LTL}{\l1@l@cons{\tlcbc}}
3189 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguca}{\l1@l@cons{\tlcbc}}
3190 \DeclareTextCommand{\texttelugutha}{LTL}{\l1@l@cons{\tlcbth}}
3191 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugutha}{\l1@l@cons{\tlcbth}}
3192 \DeclareTextCommand{\texttelugukha}{LTL}{\l1@l@cons{\tlcbkh}}
3193 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugukha}{\l1@l@cons{\tlcbkh}}
3194 \DeclareTextCommand{\textteluguga}{LTL}{\l1@l@cons{\tlcbg}}
3195 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguga}{\l1@l@cons{\tlcbg}}
3196 \DeclareTextCommand{\texttelugurra}{LTL}{\l1@l@cons{\tlcbR}}
3197 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugurra}{\l1@l@cons{\tlcbR}}
3198 \DeclareTextCommand{\texttelugula}{LTL}{\l1@l@cons{\tlcbl}}

```



```

3199 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugula}{\l@tldcons{\tlcbl}}
3200 \DeclareTextCommand{\textteluguta}{LTL}{\l@tl@cons{\tlcbl}}
3201 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguta}{\l@tldcons{\tlcbl}}
3202 \DeclareTextCommand{\textteluguva}{LTL}{\l@tl@cons{\tlcbv}}
3203 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguva}{\l@tldcons{\tlcbv}}
3204 \DeclareTextCommand{\texttelugubblackbox}{LTL}{\l@tl@cons{\tlcbbb}}
3205 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugubblackbox}{\l@tldcons{\tlcbbb}}
3206 \DeclareTextCommand{\textteluguemptybox}{LTL}{\l@tl@cons{\tlcbeb}}
3207 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguemptybox}{\l@tldcons{\tlcbeb}}
3208 \DeclareTextCommand{\textteluguoutlinebox}{LTL}{\l@tl@cons{\tlcbob}}
3209 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguoutlinebox}{\l@tldcons{\tlcbob}}
3210 % \l@tl@gencons{dda}{D}
3211 % \l@tl@gencons{bha}{bh}
3212 % \l@tl@gencons{nga}{NG}
3213 % \l@tl@gencons{dha}{dh}
3214 % \l@tl@gencons{ka}{k}
3215 % \l@tl@gencons{ssa}{Sh}
3216 % \l@tl@gencons{ma}{m}
3217 % \l@tl@gencons{tta}{T}
3218 % \l@tl@gencons{sha}{S}
3219 % \l@tl@gencons{ba}{b}
3220 % \l@tl@gencons{sa}{s}
3221 % \l@tl@gencons{da}{d}
3222 % \l@tl@gencons{jha}{jh}
3223 % \l@tl@gencons{ha}{H}
3224 % \l@tl@gencons{ttha}{Th}
3225 % \l@tl@gencons{ya}{Y}
3226 % \l@tl@gencons{cha}{ch}
3227 % \l@tl@gencons{ja}{j}
3228 % \l@tl@gencons{nya}{nx}
3229 % \l@tl@gencons{lla}{L}
3230 % \l@tl@gencons{pha}{ph}
3231 % \l@tl@gencons{na}{n}
3232 % \l@tl@gencons{gha}{gh}
3233 % \l@tl@gencons{ddha}{Dh}
3234 % \l@tl@gencons{nna}{N}
3235 % \l@tl@gencons{pa}{p}
3236 % \l@tl@gencons{ra}{r}
3237 % \l@tl@gencons{ca}{c}
3238 % \l@tl@gencons{tha}{th}
3239 % \l@tl@gencons{kha}{kh}
3240 % \l@tl@gencons{ga}{g}
3241 % \l@tl@gencons{rra}{R}
3242 % \l@tl@gencons{la}{l}
3243 % \l@tl@gencons{ta}{t}
3244 % \l@tl@gencons{va}{v}
3245 % \l@tl@gencons{blackbox}{bb}
3246 % \l@tl@gencons{emptybox}{eb}
3247 % \l@tl@gencons{outlinebox}{ob}
3248 %
3249 \DeclareTextCommand{\textteluguvowela}{LTL}[1]{\l@tl@vowel{#1}{\tlvoa}}
3250 \DeclareTextCommand{\texttelugua}{LTL}{\l@tl@ivowel{\tlvoa}}
3251 \DeclareTextCommand{\textteluguvowelaA}{LTL}[1]{\l@tl@vowel{#1}{\tlvoA}}
3252 \DeclareTextCommand{\textteluguaa}{LTL}{\l@tl@ivowel{\tlvoA}}

```

```

3253 \DeclareTextCommand{\textteluguvoweli}{LTL}[1]{\ltl@vowel{#1}{\tlvoi}}
3254 \DeclareTextCommand{\texttelugui}{LTL}{\ltl@ivowel{\tlvoi}}
3255 \DeclareTextCommand{\textteluguvowelii}{LTL}[1]{\ltl@vowel{#1}{\tlvoI}}
3256 \DeclareTextCommand{\textteluguii}{LTL}{\ltl@ivowel{\tlvoI}}
3257 \DeclareTextCommand{\textteluguvowelu}{LTL}[1]{\ltl@vowel{#1}{\tlvou}}
3258 \DeclareTextCommand{\textteluguu}{LTL}{\ltl@ivowel{\tlvou}}
3259 \DeclareTextCommand{\textteluguvoweluu}{LTL}[1]{\ltl@vowel{#1}{\tlvoU}}
3260 \DeclareTextCommand{\textteluguuu}{LTL}{\ltl@ivowel{\tlvoU}}
3261 \DeclareTextCommand{\textteluguvowelvocalicr}{LTL}[1]{\ltl@vowel{#1}{\tlvorx}}
3262 \DeclareTextCommand{\textteluguvocalicr}{LTL}{\ltl@ivowel{\tlvorx}}
3263 \DeclareTextCommand{\textteluguvowelvocalicl}{LTL}[1]{\ltl@vowel{#1}{\tlvolx}}
3264 \DeclareTextCommand{\textteluguvocalicl}{LTL}{\ltl@ivowel{\tlvolx}}
3265 \DeclareTextCommand{\textteluguvowelvocalicrr}{LTL}[1]{\ltl@vowel{#1}{\tlvoRx}}
3266 \DeclareTextCommand{\textteluguvocalicrr}{LTL}{\ltl@ivowel{\tlvoRx}}
3267 \DeclareTextCommand{\textteluguvowelvocalicl1}{LTL}[1]{\ltl@vowel{#1}{\tlvoLx}}
3268 \DeclareTextCommand{\textteluguvocalicl1}{LTL}{\ltl@ivowel{\tlvoLx}}
3269 \DeclareTextCommand{\textteluguvowelee}{LTL}[1]{\ltl@vowel{#1}{\tlvoe}}
3270 \DeclareTextCommand{\textteluguee}{LTL}{\ltl@ivowel{\tlvoe}}
3271 \DeclareTextCommand{\textteluguvowelee}{LTL}[1]{\ltl@vowel{#1}{\tlvoE}}
3272 \DeclareTextCommand{\textteluguee}{LTL}{\ltl@ivowel{\tlvoE}}
3273 \DeclareTextCommand{\textteluguvowelai}{LTL}[1]{\ltl@vowel{#1}{\tlvoy}}
3274 \DeclareTextCommand{\textteluguai}{LTL}{\ltl@ivowel{\tlvoy}}
3275 \DeclareTextCommand{\textteluguvoweloo}{LTL}[1]{\ltl@vowel{#1}{\tlvoo}}
3276 \DeclareTextCommand{\textteluguo}{LTL}{\ltl@ivowel{\tlvoo}}
3277 \DeclareTextCommand{\textteluguvoweloo}{LTL}[1]{\ltl@vowel{#1}{\tlvoO}}
3278 \DeclareTextCommand{\textteluguoo}{LTL}{\ltl@ivowel{\tlvoO}}
3279 \DeclareTextCommand{\textteluguvowelau}{LTL}[1]{\ltl@vowel{#1}{\tlvoow}}
3280 \DeclareTextCommand{\textteluguau}{LTL}{\ltl@ivowel{\tlvoow}}
3281 % \ltl@genvow{a}{a}
3282 % \ltl@genvow{aa}{A}
3283 % \ltl@genvow{i}{i}
3284 % \ltl@genvow{ii}{I}
3285 % \ltl@genvow{u}{u}
3286 % \ltl@genvow{uu}{U}
3287 % \ltl@genvow{vocalicr}{rx}
3288 % \ltl@genvow{vocalicl}{lx}
3289 % \ltl@genvow{vocalicrr}{Rx}
3290 % \ltl@genvow{vocalicl1}{Lx}
3291 % \ltl@genvow{e}{e}
3292 % \ltl@genvow{ee}{E}
3293 % \ltl@genvow{ai}{y}
3294 % \ltl@genvow{o}{o}
3295 % \ltl@genvow{oo}{O}
3296 % \ltl@genvow{au}{ow}
3297 %
3298 \DeclareTextCommand{\textteluguzero}{LTL}{\ltl@ivowel{\char\dtzeroCODE}}
3299 \DeclareTextCommand{\textteluguone}{LTL}{\ltl@ivowel{\char\dtoneCODE}}
3300 \DeclareTextCommand{\texttelugutwo}{LTL}{\ltl@ivowel{\char\dttwoCODE}}
3301 \DeclareTextCommand{\textteluguthree}{LTL}{\ltl@ivowel{\char\dtthreeCODE}}
3302 \DeclareTextCommand{\texttelugufour}{LTL}{\ltl@ivowel{\char\dtfourCODE}}
3303 \DeclareTextCommand{\texttelugufive}{LTL}{\ltl@ivowel{\char\dtfiveCODE}}
3304 \DeclareTextCommand{\texttelugusix}{LTL}{\ltl@ivowel{\char\dtsixCODE}}
3305 \DeclareTextCommand{\textteluguseven}{LTL}{\ltl@ivowel{\char\dtsevenCODE}}
3306 \DeclareTextCommand{\texttelugueight}{LTL}{\ltl@ivowel{\char\dteightCODE}}

```

```

3307 \DeclareTextCommand{\texttelugunine}{LTL}{\ltl@ivowel{\char\dtnineCODE}}
3308 % \ltl@gensymb{zero}{\char\dtzeroCODE}%
3309 % \ltl@gensymb{one}{\char\dtoneCODE}%
3310 % \ltl@gensymb{two}{\char\dttwoCODE}%
3311 % \ltl@gensymb{three}{\char\dtthreeCODE}%
3312 % \ltl@gensymb{four}{\char\dtfourCODE}%
3313 % \ltl@gensymb{five}{\char\dtfiveCODE}%
3314 % \ltl@gensymb{six}{\char\dtsixCODE}%
3315 % \ltl@gensymb{seven}{\char\dtsevenCODE}%
3316 % \ltl@gensymb{eight}{\char\dteightCODE}%
3317 % \ltl@gensymb{nine}{\char\dtnineCODE}%
3318 %%% Local Variables:
3319 %%% mode: latex
3320 %%% coding: utf-8
3321 %%% TeX-master: "../test.tex"
3322 %%% End:
3323 %%% Local IspellDict: british
3324 %
3325 </ltlenc.def>

```

4.23 File ltlcmr.fd

```

3326 <*ltlcmr.fd>
3327 \DeclareFontFamily{LTL}{cmr}{}%
3328 \DeclareFontShape{LTL}{cmr}{m}{n}{%
3329 <10> <11> <12> <15> <18> <20> <25> <30> <35> <40> <55> <72> <100> <172>
3330 gen * tel
3331 }{}%
3332 \DeclareFontShape{LTL}{cmr}{bx}{n}{%
3333 <10> tel10b
3334 <11> tel11b
3335 <12> tel12b
3336 <15> tel15b
3337 <18> tel18b
3338 <20> tel20b
3339 <25> tel25b
3340 }{}%
3341 \DeclareFontShape{LTL}{cmr}{b}{n}{%
3342 <-> sub * cmr/m/bx }{}%
3343 \DeclareFontShape{LTL}{cmr}{m}{sl}{%
3344 <10> tel10s
3345 <11> tel11s
3346 <12> tel12s
3347 <15> tel15s
3348 <18> tel18s
3349 <20> tel20s
3350 <25> tel25s
3351 <30> tel30s
3352 <35> tel35s
3353 <40> tel40s
3354 <55> tel55s
3355 }{}%
3356 \DeclareFontShape{LTL}{cmr}{m}{it}{%
3357 <-> sub * cmr/m/sl }{}%
3358 \DeclareFontShape{LTL}{cmr}{nx}{n}{%

```

```

3359 <10> tel10nx
3360 <11> tel11nx
3361 <12> tel12nx
3362 }{}%
3363 \DeclareFontShape{LTL}{cmr}{ny}{n}{%
3364 <10> tel10ny
3365 <11> tel11ny
3366 <12> tel12ny
3367 }{}%
3368 \DeclareFontShape{LTL}{cmr}{nx}{sl}{%
3369 <-> sub * cmr/m/sl }{}%
3370 \DeclareFontShape{LTL}{cmr}{ny}{sl}{%
3371 <-> sub * cmr/m/sl }{}%
3372 \DeclareFontShape{LTL}{cmr}{nx}{it}{%
3373 <-> sub * cmr/m/sl }{}%
3374 \DeclareFontShape{LTL}{cmr}{ny}{it}{%
3375 <-> sub * cmr/m/sl }{}%
3376 %
3377 </ltxcmr.fd>

```

4.24 File ltwenc.def

```
3378 <*ltwenc.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.

```

3379 \ProvidesFile{ltwenc.def}[2001/10/17 Fontencoding LTW for Tengwar]
3380 \DeclareFontEncoding{LTW}{}{}
3381 \DeclareFontSubstitution{LTW}{dsque}{m}{n}

```

Tengwar (normal letters)

```

3382 \DeclareTextSymbol{\tengwarTinco}{LTW}{"00}
3383 \DeclareTextSymbol{\tengwarParma}{LTW}{"01}
3384 \DeclareTextSymbol{\tengwarCalma}{LTW}{"02}
3385 \DeclareTextSymbol{\tengwarQuesse}{LTW}{"03}
3386 \DeclareTextSymbol{\tengwarAndo}{LTW}{"04}
3387 \DeclareTextSymbol{\tengwarUmbar}{LTW}{"05}
3388 \DeclareTextSymbol{\tengwarAnga}{LTW}{"06}
3389 \DeclareTextSymbol{\tengwarUngwe}{LTW}{"07}
3390 \DeclareTextSymbol{\tengwarThuule}{LTW}{"08}
3391 \DeclareTextSymbol{\tengwarFormen}{LTW}{"09}
3392 \DeclareTextSymbol{\tengwarHarma}{LTW}{"0A}
3393 \DeclareTextSymbol{\tengwarHwesta}{LTW}{"0B}
3394 \DeclareTextSymbol{\tengwarAnto}{LTW}{"0C}
3395 \DeclareTextSymbol{\tengwarAmpa}{LTW}{"0D}
3396 \DeclareTextSymbol{\tengwarAnca}{LTW}{"0E}
3397 \DeclareTextSymbol{\tengwarUnque}{LTW}{"0F}
3398 \DeclareTextSymbol{\tengwarNuumen}{LTW}{"10}
3399 \DeclareTextSymbol{\tengwarMalta}{LTW}{"11}
3400 \DeclareTextSymbol{\tengwarNoldo}{LTW}{"12}
3401 \DeclareTextSymbol{\tengwarNwalme}{LTW}{"13}

```

3402 \DeclareTextSymbol{\tengwarOore}{LTW}{"14}
3403 \DeclareTextSymbol{\tengwarVala}{LTW}{"15}
3404 \DeclareTextSymbol{\tengwarAnna}{LTW}{"16}
3405 \DeclareTextSymbol{\tengwarVilya}{LTW}{"17}
3406 \DeclareTextSymbol{\tengwarRoomen}{LTW}{"18}
3407 \DeclareTextSymbol{\tengwarArda}{LTW}{"19}
3408 \DeclareTextSymbol{\tengwarLambe}{LTW}{"1A}
3409 \DeclareTextSymbol{\tengwarAlda}{LTW}{"1B}
3410 \DeclareTextSymbol{\tengwarSilme}{LTW}{"1C}
3411 \DeclareTextSymbol{\tengwarSilmeNuquerna}{LTW}{"1D}
3412 \DeclareTextSymbol{\tengwarAare}{LTW}{"1E}
3413 \DeclareTextSymbol{\tengwarAareNuquerna}{LTW}{"1F}
3414 \DeclareTextSymbol{\tengwarHyarmen}{LTW}{"20}
3415 \DeclareTextSymbol{\tengwarHwestaSindarinwa}{LTW}{"21}
3416 \DeclareTextSymbol{\tengwarVanta}{LTW}{"22}
3417 \DeclareTextSymbol{\tengwarUure}{LTW}{"23}
3418 \DeclareTextSymbol{\tengwarHalla}{LTW}{"24}
3419 \DeclareTextSymbol{\tengwarShortCarrier}{LTW}{"25}
3420 \DeclareTextSymbol{\tengwarLongCarrier}{LTW}{"26}
3421 \DeclareTextSymbol{\tengwarAnnaSindarinwa}{LTW}{"27}
3422 \DeclareTextSymbol{\tengwarExtThuule}{LTW}{"28}
3423 \DeclareTextSymbol{\tengwarExtFormen}{LTW}{"29}
3424 \DeclareTextSymbol{\tengwarExtHarma}{LTW}{"2A}
3425 \DeclareTextSymbol{\tengwarExtHwesta}{LTW}{"2B}
3426 \DeclareTextSymbol{\tengwarExtAnto}{LTW}{"2C}
3427 \DeclareTextSymbol{\tengwarExtAmpa}{LTW}{"2D}
3428 \DeclareTextSymbol{\tengwarExtAnca}{LTW}{"2E}
3429 \DeclareTextSymbol{\tengwarExtUnque}{LTW}{"2F}
3430 \DeclareTextSymbol{\tengwarStemlessOore}{LTW}{"30}
3431 \DeclareTextSymbol{\tengwarStemlessVala}{LTW}{"31}
3432 \DeclareTextSymbol{\tengwarStemlessAnna}{LTW}{"32}
3433 \DeclareTextSymbol{\tengwarStemlessVilya}{LTW}{"33}

Punctuation

3434 \DeclareTextSymbol{\tengwarPusta}{LTW}{"50}
3435 \DeclareTextSymbol{\tengwarDoublePusta}{LTW}{"51}
3436 \DeclareTextSymbol{\tengwarExclam}{LTW}{"52}
3437 \DeclareTextSymbol{\tengwarQuestion}{LTW}{"53}
3438 \DeclareTextSymbol{\tengwarSection}{LTW}{"54}
3439 \DeclareTextSymbol{\tengwarLongSection}{LTW}{"55}

Digits

3440 \ProvideTextCommandDefault{\tengwarZero}{\tengwarStemlessOore}
3441 \ProvideTextCommandDefault{\tengwarOne}{\tengwarStemlessVilya}
3442 \DeclareTextSymbol{\tengwarTwo}{LTW}{"62}
3443 \DeclareTextSymbol{\tengwarThree}{LTW}{"63}
3444 \DeclareTextSymbol{\tengwarFour}{LTW}{"64}
3445 \DeclareTextSymbol{\tengwarFive}{LTW}{"65}
3446 \DeclareTextSymbol{\tengwarSix}{LTW}{"66}
3447 \DeclareTextSymbol{\tengwarSeven}{LTW}{"67}
3448 \DeclareTextSymbol{\tengwarEight}{LTW}{"68}
3449 \DeclareTextSymbol{\tengwarNine}{LTW}{"69}
3450 \DeclareTextSymbol{\tengwarTen}{LTW}{"6A}
3451 \DeclareTextSymbol{\tengwarEleven}{LTW}{"6B}

Tehta (accents)

```
3452 \DeclareTextCommand{\tengwarThreeDotsAbove}{LTW}[1]{#1\char"40 }
3453 \DeclareTextCommand{\tengwarThreeDotsBelow}{LTW}[1]{#1\char"41 }
3454 \DeclareTextCommand{\tengwarTwoDotsAbove}{LTW}[1]{#1\char"42 }
3455 \DeclareTextCommand{\tengwarTwoDotsBelow}{LTW}[1]{#1\char"43 }
3456 \DeclareTextCommand{\tengwarAmaticse}{LTW}[1]{#1\char"44 }
3457 \DeclareTextCommand{\tengwarNunticse}{LTW}[1]{#1\char"45 }
3458 \DeclareTextCommand{\tengwarAcute}{LTW}[1]{#1\char"46 }
3459 \DeclareTextCommand{\tengwarDoubleAcute}{LTW}[1]{#1\char"47 }
3460 \DeclareTextCommand{\tengwarRightCurl}{LTW}[1]{#1\char"48 }
3461 \DeclareTextCommand{\tengwarDoubleRightCurl}{LTW}[1]{#1\char"49 }
3462 \DeclareTextCommand{\tengwarLeftCurl}{LTW}[1]{#1\char"4A }
3463 \DeclareTextCommand{\tengwarDoubleLeftCurl}{LTW}[1]{#1\char"4B }
3464 \DeclareTextCommand{\tengwarNasalizer}{LTW}[1]{#1\char"4C }
3465 \DeclareTextCommand{\tengwarDoubler}{LTW}[1]{#1\char"4D }
3466 \DeclareTextCommand{\tengwarTilde}{LTW}[1]{#1\char"4E }
3467 \DeclareTextCommand{\tengwarBreve}{LTW}[1]{#1\char"4F }
3468 \DeclareTextCommand{\tengwarLongCarrierBelow}{LTW}[1]{#1\char"56 }
3469 \DeclareTextCommand{\tengwarDoubleAcuteBelow}{LTW}[1]{#1\char"57 }
3470 \DeclareTextCommand{\tengwarRightCurlBelow}{LTW}[1]{#1\char"58 }
3471 \DeclareTextCommand{\tengwarLeftCurlBelow}{LTW}[1]{#1\char"59 }
3472
3473 %
3474 </ltwenc.def>
```

4.25 File ltwdsque.fd

```
3475 <*ltwdsque.fd>
```

This fontfamily loads the Quenya fonts from Dan Smith.

```
3476 \ProvidesFile{ltwdsque.fd}[2001/10/11 Fontfamily dsque for Fontencoding LTW]%
3477 \DeclareFontFamily{LTW}{dsque}{}
3478 \DeclareFontShape{LTW}{dsque}{m}{n}{<-> tengdsq}{}
3479 %
3480 </ltwdsque.fd>
```

4.26 File ltwdsnol.fd

```
3481 <*ltwdsnol.fd>
```

This fontfamily loads the Noldor fonts from Dan Smith.

```
3482 \ProvidesFile{ltwdsnol.fd}[2001/10/11 Fontfamily dsno1 for Fontencoding LTW]%
3483 \DeclareFontFamily{LTW}{dsno1}{}
3484 \DeclareFontShape{LTW}{dsno1}{m}{n}{<-> tengdsn}{}
3485 %
3486 </ltwdsnol.fd>
```

4.27 File ltwdssin.fd

```
3487 <*ltwdssin.fd>
```

This fontfamily loads the Sindarin fonts from Dan Smith.

```
3488 \ProvidesFile{ltwdssin.fd}[2001/10/11 Fontfamily dssin for Fontencoding LTW]%
```

```

3489 \DeclareFontFamily{LTW}{dssin}{}
3490 \DeclareFontShape{LTW}{dssin}{m}{n}{<-> tengdss}{}
3491 %
3492 </lwdssin.fd>

```

4.28 File lucenc.def

```

3493 < *lucenc.def>
3494 % Stuff working with TeX:
3495 \catcode'\@11
3496 \ifx\@tempcnta\undefined\csname newcount\endcsname\@tempcnta\fi
3497 \ifx\@tempcntb\undefined\csname newcount\endcsname\@tempcntb\fi
3498 \def\lucchar#1{%
3499   \begingroup
3500     \@tempcnta=#1\divide\@tempcnta by"1000
3501     \multiply\@tempcnta by-"1000\advance\@tempcnta by#1%
3502     \divide\@tempcnta by"100%
3503     \@tempcntb=#1\divide\@tempcntb by"10000
3504     \multiply\@tempcntb by-"10000\advance\@tempcntb by#1%
3505     \divide\@tempcntb by"1000%
3506     \xdef\LUC@plane@LUC{%
3507       \ifcase\@tempcntb0\or1\or2\or3\or4\or5\or6\or7\or
3508         8\or9\or a\or b\or c\or d\or e\or f\fi
3509       \ifcase\@tempcnta0\or1\or2\or3\or4\or5\or6\or7\or
3510         8\or9\or a\or b\or c\or d\or e\or f\fi}%
3511     \ifnum#1>"FFFF
3512       \@tempcnta=#1\divide\@tempcnta by"100000
3513       \multiply\@tempcnta by-"100000\advance\@tempcnta by#1%
3514       \divide\@tempcnta by"10000%
3515       \xdef\LUC@plane@LUC{%
3516         \ifcase\@tempcnta0\or1\or2\or3\or4\or5\or6\or7\or
3517           8\or9\or a\or b\or c\or d\or e\or f\fi
3518         \LUC@plane@LUC}%
3519     \ifnum#1>"FFFFF
3520       \@tempcnta=#1\divide\@tempcnta by"1000000
3521       \multiply\@tempcnta by-"1000000\advance\@tempcnta by#1%
3522       \divide\@tempcnta by"100000%
3523       \xdef\LUC@plane@LUC{%
3524         \ifcase\@tempcnta0\or1\or2\or3\or4\or5\or6\or7\or
3525           8\or9\or a\or b\or c\or d\or e\or f\fi
3526         \LUC@plane@LUC}%
3527     \fi
3528   \fi
3529   \@tempcnta=#1\divide\@tempcnta by"100
3530   \multiply\@tempcnta by-"100\advance\@tempcnta by#1%
3531   \relax
3532   %\typeout{Plane: \LUC@plane@LUC, Char: \number\@tempcnta}%
3533   \expandafter\endgroup
3534   \expandafter\luc@char\expandafter{\number\@tempcnta}%
3535 }
3536 \def\luc@loadfont{%
3537   \expandafter\ifx\csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname\relax
3538     \expandafter\font\csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname=%
3539     \LUCfont\LUC@plane@LUC\fi
3540   \csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname}

```

```

3541 \def\luc@char#1{%
3542   \ifx\LUC@plane@LUC\LUC@plane@old\else
3543     \ifx\LUCfont\undefined\selectfont
3544     \else\luc@loadfont\fi
3545   \fi
3546   \char#1 }
3547 \ifx\NeedsTeXFormat\undefined\endinput\fi
3548
3549 % LaTeX-only stuff follows.
3550 \ProvidesFile{lucenc.def}[2002/02/20 Encoding for Unicode fonts]
3551 \DeclareFontEncoding{LUC}{-}{-}%
3552 \DeclareFontSubstitution{LUC}{arial}{m}{n}%
3553 %
3554 \providecommand\LUC@@empty[1]{%
3555   \edef\mandatory@arg{\mandatory@arg\csname LUC@plane@\f@encoding\endcsname}%
3556   \empty@sfcnt#1%
3557   \edef\uc@temp@a{\csname LUC@plane@\f@encoding\endcsname}%
3558   \xdef\font@name{\csname \curr@fontshape/\f@size/\uc@temp@a\endcsname}}
3559 \providecommand\LUC@@sub[1]{%
3560   \expandafter\ifx\csname LUC@\mandatory@arg/\f@size\endcsname\relax
3561   \expandafter\gdef\csname LUC@\mandatory@arg/\f@size\endcsname{%
3562     \sub@sfcnt#1%
3563     \else
3564     \sub@sfcnt@\gobble
3565     \fi}
3566 \DeclareSizeFunction{LUC}{\LUC@@empty\@font@warning}
3567 \DeclareSizeFunction{LUCb}{\LUC@@empty\@font@warning}
3568 \DeclareSizeFunction{sLUC}{\LUC@@empty\@font@info}
3569 \DeclareSizeFunction{sLUCb}{\LUC@@empty\@font@info}
3570 \DeclareSizeFunction{LUCsub}{\LUC@@sub\@font@warning}
3571 \DeclareSizeFunction{LUCssub}{\LUC@@sub\@font@info}
3572 %
3573 \gdef\LUC@plane@LUC{00}%
3574 \DeclareTextCommand{\textasciic}{\LastDeclaredEncoding}[1]{\textunicodechar{‘#1}}
3575 \DeclareTextCommand{\textunicodechar}{\LastDeclaredEncoding}[1]{\lucchar{#1}}
3576
3577 %%% Local Variables:
3578 %%% mode: latex
3579 %%% coding: utf-8
3580 %%% TeX-master: "../test.tex"
3581 %%% End:
3582 %%% Local IspellDict: british
3583 %
3584 \lucenc.def)

```

4.29 File lucarial.fd

```

3585 (*lucarial.fd)
3586 \ProvidesFile{lucarial.fd}[2002/02/17 .fd file for encoding LUC, family arial]
3587 \DeclareFontFamily{LUC}{arial}{-}
3588 \DeclareFontShape{LUC}{arial}{m}{n}{<-> LUC * arialuni}{-}
3589 %
3590 \lucarial.fd)

```


4.30 File lucc2000.fd

```
3591 ⟨*lucc2000.fd⟩
3592 \ProvidesFile{lucc2000.fd}[2002/02/17 .fd file for encoding LUC, family c2000]
3593 \DeclareFontFamily{LUC}{c2000}{}
3594 \DeclareFontShape{LUC}{c2000}{m}{n}{<-> LUC * code2k}{}
3595 %
3596 ⟨/lucc2000.fd⟩
```

4.31 File mkrenc.def

```
3597 ⟨*mkrenc.def⟩
3598 \ProvidesFile{mkrenc.def}[2003/11/29 Fontencoding MKR for use with package makor]
3599 \makeatletter
3600 %
3601 \AtBeginDocument{%
3602   \let\mkr@quote"
3603   \RequirePackage{makor}%
3604   \let"\mkr@quote
3605   \expandafter\ifx\csname !hdefaultfont\endcsname\relax
3606     \expandafter\def\csname !hdefaultfont\endcsname{NFSS}\fi
3607   }%
3608 \expandafter\g@addto@macro\csname selectfont \endcsname{\protect\@hfontadapt}
3609 %
3610 \begingroup
3611 \escapechar=-1
3612 \edef\temp@a{%
3613   \gdef\noexpand\@hfontadapt@
3614   \expandafter\string\csname select font \endcsname##1 ##2%
3615   \noexpand\@nil{%
3616     \edef\noexpand\temp@a{%
3617       \noexpand\noexpand\noexpand\hfontdef{\noexpand\mkr@font}{##1}{\noexpand\fontsize pt}}\no
3618 \xdef\mkr@at{\expandafter\string\csname\space at \endcsname}%
3619 \endgroup
3620 %
3621 \def\@hfont@enc{MKR}
3622 \def\@hfontadapt{%
3623   \ifx\fontencoding\@hfont@enc%
3624     \edef\mkr@font{\mkr@\fontfamily\fontseries\fontshape-\fontsize}%
3625     %\typeout{HFONTADAPT: ID:\mkr@font, SIZE: \fontsize}%
3626     \@ifundefined{\mkr@font}{%
3627       %\typeout{Needs adapting. (\expandafter\meaning\the\font)}%
3628       \edef\temp@a{\noexpand\@hfontadapt@\expandafter\meaning\the\font\space\noexpand\@nil}\
3629     }{}%
3630     \expandafter\hfont\expandafter{\mkr@font}%
3631   \fi
3632 }
3633 %
3634 %
3635 \DeclareFontEncoding{MKR}{}{}
3636 \DeclareFontSubstitution{MKR}{omega}{m}{n}
3637 %
3638 \DeclareTextCommand\hebalef{MKR}{‘}
3639 \DeclareTextCommand\hebbet{MKR}{v}
3640 \DeclareTextCommand\hebgimel{MKR}{g}
```

```

3641 \DeclareTextCommand\hebdalet{MKR}{d}
3642 \DeclareTextCommand\hebhe{MKR}{h}
3643 \DeclareTextCommand\hebvav{MKR}{w}
3644 \DeclareTextCommand\hebzayin{MKR}{z}
3645 \DeclareTextCommand\hebhet{MKR}{x}
3646 \DeclareTextCommand\hebtet{MKR}{t}
3647 \DeclareTextCommand\hebyod{MKR}{y}
3648 \DeclareTextCommand\hebfinalkaf{MKR}{K\char94 }
3649 \DeclareTextCommand\hebkaf{MKR}{K\NOBOUNDARY}
3650 \DeclareTextCommand\heblamed{MKR}{l}
3651 \DeclareTextCommand\hebfinalmem{MKR}{m\char94 }
3652 \DeclareTextCommand\hebmeme{MKR}{m\NOBOUNDARY}
3653 \DeclareTextCommand\hebfinalnun{MKR}{n\char94 }
3654 \DeclareTextCommand\hebnun{MKR}{n\NOBOUNDARY}
3655 \DeclareTextCommand\hebsamekh{MKR}{s}
3656 \DeclareTextCommand\hebayin{MKR}{‘ ’}
3657 \DeclareTextCommand\hebfinalpe{MKR}{f\char94 }
3658 \DeclareTextCommand\hebpe{MKR}{f\NOBOUNDARY}
3659 \DeclareTextCommand\hebfinaltsadi{MKR}{ts\char94 }
3660 \DeclareTextCommand\hebtsadi{MKR}{ts\NOBOUNDARY}
3661 \DeclareTextCommand\hebqof{MKR}{q}
3662 \DeclareTextCommand\hebrish{MKR}{r}
3663 \DeclareTextCommand\hebrishin{MKR}{sh}
3664 \DeclareTextCommand\hebtav{MKR}{s\char94 }
3665 \DeclareTextSymbol\doublevav{MKR}{"83}
3666 \DeclareTextSymbol\vavyod{MKR}{"84}
3667 \DeclareTextSymbol\doubleyod{MKR}{"81}
3668 \DeclareTextCommand\maqaf{MKR}{-{-}}
3669 \DeclareTextCommand\sofpasuq{MKR}{{:}}
3670 \DeclareTextSymbol\geresh{MKR}{251}
3671 \DeclareTextSymbol\gershayim{MKR}{"22}
3672 \DeclareTextSymbol\hebaleflamed{MKR}{"A4}
3673 %
3674 \DeclareTextCommand\dagesh{MKR}[1]{#1*}
3675 \DeclareTextCommand\sheva{MKR}[1]{#1\vw1SHEVA}
3676 \DeclareTextCommand\hatafsegol{MKR}[1]{#1\vw1COLON\vw1E}
3677 \DeclareTextCommand\hatafpatah{MKR}[1]{#1\vw1COLON\vw1A}
3678 \DeclareTextCommand\hatafqamats{MKR}[1]{#1\vw1COLON\vw1PLUS}
3679 \DeclareTextCommand\hiriq{MKR}[1]{#1\vw1I}
3680 \DeclareTextCommand\tseret{MKR}[1]{#1\vw1E\vw1I}
3681 \DeclareTextCommand\segol{MKR}[1]{#1\vw1E}
3682 \DeclareTextCommand\patah{MKR}[1]{#1\vw1A}
3683 \DeclareTextCommand\qamats{MKR}[1]{#1\vw1PLUS}
3684 \DeclareTextCommand\qubuts{MKR}[1]{#1\vw1U}
3685 \DeclareTextCommand\meteg{MKR}[1]{#1\vw1VERT}
3686 \DeclareTextCommand\holam{MKR}[1]{#1o}
3687 \DeclareTextCommand\shindot{MKR}[1]{sh\char94 }% Only useful as \shindot\shin
3688 \DeclareTextCommand\sindot{MKR}[1]{\char94s}% Only useful as \sindot\shin
3689 %
3690 \DeclareTextCommand{\textascii}{MKR}[1]{\@textascii@switch{#1}}
3691 \DeclareTextComposite\patach{MKR}\doubleyod{"82}
3692 \DeclareTextCompositeCommand\dagesh{MKR}\finalkaf{K*\char94 }
3693 \DeclareTextCompositeCommand\dagesh{MKR}\kaf{K*\NOBOUNDARY}
3694 \DeclareTextCompositeCommand\dagesh{MKR}\finalmem{m*{}}

```

```

3695 \DeclareTextCompositeCommand\dagesh{MKR}\mem{m*\NOBOUNDARY}
3696 \DeclareTextCompositeCommand\dagesh{MKR}\finalnun{n*{}}
3697 \DeclareTextCompositeCommand\dagesh{MKR}\nun{n*\NOBOUNDARY}
3698 %\DeclareTextCompositeCommand\dagesh{MKR}\finalpe{f*\char94 }
3699 \DeclareTextCompositeCommand\dagesh{MKR}\pe{f*\NOBOUNDARY}
3700 %\DeclareTextCompositeCommand\dagesh{MKR}\finaltsadi{ts*\char94 }
3701 \DeclareTextCompositeCommand\dagesh{MKR}\tsadi{ts*\NOBOUNDARY}
3702 %
3703 %
3704 \mkrenc.def)

```

4.32 File mkrezra.fd

```

3705 (*mkrezra.fd)
3706 \ProvidesFile{mkrezra.fd}[2002/09/20 ezra family for encoding MKR]%
3707 \DeclareFontFamily{MKR}{ezra}{}
3708 \DeclareFontShape{MKR}{ezra}{m}{n}{<-> * ezramm}{}
3709 \DeclareFontShape{MKR}{ezra}{m}{it}{<-> * ezraimm}{}
3710 \DeclareFontShape{MKR}{ezra}{bx}{n}{<-> * ezrabmm}{}
3711 \DeclareFontShape{MKR}{ezra}{bx}{it}{<-> * ezrabimm}{}
3712 \DeclareFontShape{MKR}{ezra}{m}{o}{<-> * ezraomm}{}
3713 %
3714 %
3715 \mkrezra.fd)

```

4.33 File mkrhadas.fd

```

3716 (*mkrhadas.fd)
3717 \ProvidesFile{mkrhadas.fd}[2002/09/20 hadas family for encoding MKR]%
3718 \DeclareFontFamily{MKR}{hadas}{}
3719 \DeclareFontShape{MKR}{hadas}{m}{n}{<-> * hadassahmm}{}
3720 \DeclareFontShape{MKR}{hadas}{m}{it}{<-> * hadassaimm}{}
3721 \DeclareFontShape{MKR}{hadas}{bx}{n}{<-> * hadassabmm}{}
3722 \DeclareFontShape{MKR}{hadas}{bx}{it}{<-> * hadassbimm}{}
3723 %
3724 %
3725 \mkrhadas.fd)

```

4.34 File mkromega.fd

```

3726 (*mkromega.fd)
3727 \ProvidesFile{mkromega.fd}[2002/09/20 omega family for encoding MKR]%
3728 \DeclareFontFamily{MKR}{omega}{}
3729 \DeclareFontShape{MKR}{omega}{m}{n}{<-> * ohebrmm}{}
3730 %
3731 %
3732 \mkromega.fd)

```

4.35 File mkrrashi.fd

```

3733 (*mkrrashi.fd)
3734 \ProvidesFile{mkrrashi.fd}[2002/09/20 rashi family for encoding MKR]%
3735 \DeclareFontFamily{MKR}{rashi}{}
3736 \DeclareFontShape{MKR}{rashi}{m}{n}{<-> * rashimm}{}
3737 \DeclareFontShape{MKR}{rashi}{bx}{n}{<-> * rashbmm}{}

```

```
3738 %
3739 %
3740 </mkrrashi.fd>
```

4.36 File t2denc.def

```
3741 <*t2denc.def>
3742 % This file is a hack. When a manually created t2denc.def
3743 % appears (e.g. contributed with the LH fonts), this hack should be deleted.
3744 \NeedsTeXFormat{LaTeX2e}[1998/12/01]%
3745 \ProvidesFile{t2denc.def}[Experimental T2D]%
3746 \DeclareFontEncoding{T2D}{-}{-}%
3747 \DeclareFontSubstitution{\LastDeclaredEncoding}{cmr}{m}{n}%
3748 \DeclareTextSymbol\CYRA\LastDeclaredEncoding{"C0}%
3749 \DeclareTextSymbol\cyra\LastDeclaredEncoding{"E0}%
3750 \DeclareTextSymbol\CYRB\LastDeclaredEncoding{"C1}%
3751 \DeclareTextSymbol\cyrb\LastDeclaredEncoding{"E1}%
3752 \DeclareTextSymbol\CYRV\LastDeclaredEncoding{"C2}%
3753 \DeclareTextSymbol\cyrv\LastDeclaredEncoding{"E2}%
3754 \DeclareTextSymbol\CYRG\LastDeclaredEncoding{"C3}%
3755 \DeclareTextSymbol\cyrg\LastDeclaredEncoding{"E3}%
3756 \DeclareTextSymbol\CYRD\LastDeclaredEncoding{"C4}%
3757 \DeclareTextSymbol\cyrd\LastDeclaredEncoding{"E4}%
3758 \DeclareTextSymbol\CYRE\LastDeclaredEncoding{"C5}%
3759 \DeclareTextSymbol\cyre\LastDeclaredEncoding{"E5}%
3760 \DeclareTextSymbol\CYRZH\LastDeclaredEncoding{"C6}%
3761 \DeclareTextSymbol\cyrzh\LastDeclaredEncoding{"E6}%
3762 \DeclareTextSymbol\CYRZ\LastDeclaredEncoding{"C7}%
3763 \DeclareTextSymbol\cyrz\LastDeclaredEncoding{"E7}%
3764 \DeclareTextSymbol\CYRI\LastDeclaredEncoding{"C8}%
3765 \DeclareTextSymbol\cyri\LastDeclaredEncoding{"E8}%
3766 \DeclareTextSymbol\CYRISHRT\LastDeclaredEncoding{"C9}%
3767 \DeclareTextSymbol\cyrishrt\LastDeclaredEncoding{"E9}%
3768 \DeclareTextSymbol\CYRK\LastDeclaredEncoding{"CA"%
3769 \DeclareTextSymbol\cyrk\LastDeclaredEncoding{"EA"%
3770 \DeclareTextSymbol\CYRL\LastDeclaredEncoding{"CB"%
3771 \DeclareTextSymbol\cyrl\LastDeclaredEncoding{"EB"%
3772 \DeclareTextSymbol\CYRM\LastDeclaredEncoding{"CC"%
3773 \DeclareTextSymbol\cyrm\LastDeclaredEncoding{"EC"%
3774 \DeclareTextSymbol\CYRN\LastDeclaredEncoding{"CD"%
3775 \DeclareTextSymbol\cyrn\LastDeclaredEncoding{"ED"%
3776 \DeclareTextSymbol\CYRO\LastDeclaredEncoding{"CE"%
3777 \DeclareTextSymbol\cyro\LastDeclaredEncoding{"EE"%
3778 \DeclareTextSymbol\CYRP\LastDeclaredEncoding{"CF"%
3779 \DeclareTextSymbol\cyrp\LastDeclaredEncoding{"EF"%
3780 \DeclareTextSymbol\CYRR\LastDeclaredEncoding{"D0"%
3781 \DeclareTextSymbol\cyrr\LastDeclaredEncoding{"F0"%
3782 \DeclareTextSymbol\CYRS\LastDeclaredEncoding{"D1"%
3783 \DeclareTextSymbol\cyrs\LastDeclaredEncoding{"F1"%
3784 \DeclareTextSymbol\CYRT\LastDeclaredEncoding{"D2"%
3785 \DeclareTextSymbol\cyrt\LastDeclaredEncoding{"F2"%
3786 \DeclareTextSymbol\CYRU\LastDeclaredEncoding{"D3"%
3787 \DeclareTextSymbol\cyru\LastDeclaredEncoding{"F3"%
3788 \DeclareTextSymbol\CYRF\LastDeclaredEncoding{"D4"%
```

```

3789 \DeclareTextSymbol\cyrf\LastDeclaredEncoding{"F4}%
3790 \DeclareTextSymbol\CYRH\LastDeclaredEncoding{"D5}%
3791 \DeclareTextSymbol\cyrh\LastDeclaredEncoding{"F5}%
3792 \DeclareTextSymbol\CYRC\LastDeclaredEncoding{"D6}%
3793 \DeclareTextSymbol\cyrc\LastDeclaredEncoding{"F6}%
3794 \DeclareTextSymbol\CYRCH\LastDeclaredEncoding{"D7}%
3795 \DeclareTextSymbol\cyrch\LastDeclaredEncoding{"F7}%
3796 \DeclareTextSymbol\CYRSH\LastDeclaredEncoding{"D8}%
3797 \DeclareTextSymbol\cyrsh\LastDeclaredEncoding{"F8}%
3798 \DeclareTextSymbol\CYRSHCH\LastDeclaredEncoding{"D9}%
3799 \DeclareTextSymbol\cyrshch\LastDeclaredEncoding{"F9}%
3800 \DeclareTextSymbol\CYRHRDSN\LastDeclaredEncoding{"DA}%
3801 \DeclareTextSymbol\cyhrhdsn\LastDeclaredEncoding{"FA}%
3802 \DeclareTextSymbol\CYRERY\LastDeclaredEncoding{"DB}%
3803 \DeclareTextSymbol\cyrery\LastDeclaredEncoding{"FB}%
3804 \DeclareTextSymbol\CYRSFTSN\LastDeclaredEncoding{"DC}%
3805 \DeclareTextSymbol\cyrsftsn\LastDeclaredEncoding{"FC}%
3806 \DeclareTextSymbol\CYREREV\LastDeclaredEncoding{"DD}%
3807 \DeclareTextSymbol\cyrerev\LastDeclaredEncoding{"FD}%
3808 \DeclareTextSymbol\CYRYU\LastDeclaredEncoding{"DE}%
3809 \DeclareTextSymbol\cyryu\LastDeclaredEncoding{"FE}%
3810 \DeclareTextSymbol\CYRYA\LastDeclaredEncoding{"DF}%
3811 \DeclareTextSymbol\cyrya\LastDeclaredEncoding{"FF}%
3812 \DeclareTextSymbol\CYRYO\LastDeclaredEncoding{"9C}%
3813 \DeclareTextSymbol\cyryo\LastDeclaredEncoding{"BC}%
3814 \DeclareTextSymbol\CYRDZE\LastDeclaredEncoding{"8F}%
3815 \DeclareTextSymbol\cyrdze\LastDeclaredEncoding{"AF}%
3816 \DeclareTextSymbol\CYRYAT\LastDeclaredEncoding{"93}%
3817 \DeclareTextSymbol\cyryat\LastDeclaredEncoding{"B3}%
3818 \DeclareTextSymbol\CYRBYUS\LastDeclaredEncoding{"97}%
3819 \DeclareTextSymbol\cyrbyus\LastDeclaredEncoding{"B7}%
3820 \DeclareTextSymbol\CYRIZH\LastDeclaredEncoding{"8A}%
3821 \DeclareTextSymbol\cyrizh\LastDeclaredEncoding{"AA}%
3822 \DeclareTextSymbol\CYRIE\LastDeclaredEncoding{"99}%
3823 \DeclareTextSymbol\cyrie\LastDeclaredEncoding{"B9}%
3824 \DeclareTextSymbol\CYREPS\LastDeclaredEncoding{"9B}%
3825 \DeclareTextSymbol\cyreps\LastDeclaredEncoding{"BB}%
3826 \DeclareTextSymbol\CYRAZ\LastDeclaredEncoding{"80}%
3827 \DeclareTextSymbol\cyraz\LastDeclaredEncoding{"A0}%
3828 \DeclareTextSymbol\CYRIAZ\LastDeclaredEncoding{"81}%
3829 \DeclareTextSymbol\cyriaz\LastDeclaredEncoding{"A1}%
3830 \DeclareTextSymbol\CYRLYUS\LastDeclaredEncoding{"82}%
3831 \DeclareTextSymbol\cyrljus\LastDeclaredEncoding{"A2}%
3832 \DeclareTextSymbol\CYRIOTLYUS\LastDeclaredEncoding{"83}%
3833 \DeclareTextSymbol\cyriotlyus\LastDeclaredEncoding{"A3}%
3834 \DeclareTextSymbol\CYRGERV\LastDeclaredEncoding{"84}%
3835 \DeclareTextSymbol\cyrgerv\LastDeclaredEncoding{"A4}%
3836 \DeclareTextSymbol\CYRZEMLA\LastDeclaredEncoding{"86}%
3837 \DeclareTextSymbol\cyrzemla\LastDeclaredEncoding{"A6}%
3838 \DeclareTextSymbol\CYRKSI\LastDeclaredEncoding{"87}%
3839 \DeclareTextSymbol\cyrksi\LastDeclaredEncoding{"A7}%
3840 \DeclareTextSymbol\CYRVARIZHE\LastDeclaredEncoding{"88}%
3841 \DeclareTextSymbol\cyrvarizhe\LastDeclaredEncoding{"A8}%
3842 \DeclareTextSymbol\CYRIZHE\LastDeclaredEncoding{"89}%

```

3843 \DeclareTextSymbol\cyrizhe\LastDeclaredEncoding{"A9}%
3844 \DeclareTextSymbol\CYROMGA\LastDeclaredEncoding{"8B}%
3845 \DeclareTextSymbol\cyromga\LastDeclaredEncoding{"AB}%
3846 \DeclareTextSymbol\CYROMRND\LastDeclaredEncoding{"8C}%
3847 \DeclareTextSymbol\cyromrnd\LastDeclaredEncoding{"AC}%
3848 \DeclareTextSymbol\CYROT\LastDeclaredEncoding{"8D}%
3849 \DeclareTextSymbol\cyrot\LastDeclaredEncoding{"AD}%
3850 \DeclareTextSymbol\CYROMTLO\LastDeclaredEncoding{"8E}%
3851 \DeclareTextSymbol\cyromtlo\LastDeclaredEncoding{"AE}%
3852 \DeclareTextSymbol\CYRFITA\LastDeclaredEncoding{"90}%
3853 \DeclareTextSymbol\cyrfita\LastDeclaredEncoding{"B0}%
3854 \DeclareTextSymbol\CYRKOPPA\LastDeclaredEncoding{"91}%
3855 \DeclareTextSymbol\cyrkoppa\LastDeclaredEncoding{"B1}%
3856 \DeclareTextSymbol\CYRUK\LastDeclaredEncoding{"92}%
3857 \DeclareTextSymbol\cyruk\LastDeclaredEncoding{"B2}%
3858 \DeclareTextSymbol\CYRCHERV\LastDeclaredEncoding{"94}%
3859 \DeclareTextSymbol\cyrcherv\LastDeclaredEncoding{"B4}%
3860 \DeclareTextSymbol\CYRPSI\LastDeclaredEncoding{"95}%
3861 \DeclareTextSymbol\cyrpsi\LastDeclaredEncoding{"B5}%
3862 \DeclareTextSymbol\CYRSHTA\LastDeclaredEncoding{"96}%
3863 \DeclareTextSymbol\cyrshta\LastDeclaredEncoding{"B6}%
3864 \DeclareTextSymbol\CYRIOTBYUS\LastDeclaredEncoding{"98}%
3865 \DeclareTextSymbol\cyriotbyus\LastDeclaredEncoding{"B8}%
3866 \DeclareTextSymbol\CYRIOTEST\LastDeclaredEncoding{"9A}%
3867 \DeclareTextSymbol\cyriotest\LastDeclaredEncoding{"BA}%
3868 \DeclareTextSymbol\CYRNARROWE\LastDeclaredEncoding{"9B}%
3869 \DeclareTextSymbol\cyrnarowe\LastDeclaredEncoding{"BB}%
3870 \DeclareTextAccent` \LastDeclaredEncoding{"00}%
3871 \DeclareTextAccent' \LastDeclaredEncoding{"01}%
3872 \DeclareTextAccent^ \LastDeclaredEncoding{"02}%
3873 \DeclareTextAccent~ \LastDeclaredEncoding{"03}%
3874 \DeclareTextAccent\ \LastDeclaredEncoding{"04}%
3875 \DeclareTextAccent\H\LastDeclaredEncoding{"05}%
3876 \DeclareTextAccent\r\LastDeclaredEncoding{"06}%
3877 \DeclareTextAccent\v\LastDeclaredEncoding{"07}%
3878 \DeclareTextAccent\u\LastDeclaredEncoding{"08}%
3879 \DeclareTextAccent\=\LastDeclaredEncoding{"09}%
3880 \DeclareTextAccent\.\LastDeclaredEncoding{"0A}%
3881 \DeclareTextSymbol\cyrlangle\LastDeclaredEncoding{"0E}%
3882 \DeclareTextSymbol\cyrrangle\LastDeclaredEncoding{"0F}%
3883 \DeclareTextAccent\F\LastDeclaredEncoding{"12}%
3884 \DeclareTextAccent\C\LastDeclaredEncoding{"13}%
3885 \DeclareTextAccent\U\LastDeclaredEncoding{"14}%
3886 \DeclareTextSymbol\cyrdash\LastDeclaredEncoding{"16}%
3887 \DeclareTextSymbol\perthousand\LastDeclaredEncoding{"18}%
3888 \DeclareTextSymbol\i\LastDeclaredEncoding{"19}%
3889 \DeclareTextSymbol\j\LastDeclaredEncoding{"1A}%
3890 \DeclareTextSymbol\CYRNo\LastDeclaredEncoding{"9D}%
3891 \DeclareTextSymbol\textsection\LastDeclaredEncoding{"9F}%
3892 \DeclareTextSymbol\quotedblbase\LastDeclaredEncoding{"BD}%
3893 \DeclareTextSymbol\guillemotleft\LastDeclaredEncoding{"BE}%
3894 \DeclareTextSymbol\guillemotright\LastDeclaredEncoding{"BF}%
3895 \DeclareTextAccent\CYRtitlo\LastDeclaredEncoding{"0B}%
3896 \DeclareTextAccent\CYRpalatal\LastDeclaredEncoding{"0C}%

```

3897 \DeclareTextAccent\CYRpaerok\LastDeclaredEncoding{"OD}%
3898 \DeclareTextAccent\CYRkamora\LastDeclaredEncoding{"17}%
3899 \DeclareTextAccent\CYRpsili\LastDeclaredEncoding{"1B}%
3900 \DeclareTextAccent\CYRdasia\LastDeclaredEncoding{"1C}%
3901 \DeclareTextAccent\CYRzvat\LastDeclaredEncoding{"1D}%
3902 \DeclareTextAccent\CYRpneuac\LastDeclaredEncoding{"1E}%
3903 \DeclareTextAccent\CYRpneugrav\LastDeclaredEncoding{"1F}%
3904 \DeclareTextAccent\CYRthousands\LastDeclaredEncoding{"9E}%
3905 \DeclareTextSymbol\CYRNASH\LastDeclaredEncoding{"85}%
3906 \DeclareTextSymbol\cyrnash\LastDeclaredEncoding{"A5}%
3907 %
3908 </t2denc.def>

```

4.37 File t2dcmr.fd

```

3909 <*t2dcmr.fd>
3910 \ProvidesFile{t2dcmr.fd}
3911 [Experimental T2D cmr]
3912 \providecommand{\EC@family}[5]{%
3913   \DeclareFontShape{#1}{#2}{#3}{#4}{%
3914     {<5><6><7><8><9><10><10.95><12><14.4>%
3915       <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
3916 \DeclareFontFamily{T2D}{cmr}{%
3917   \EC@family{T2D}{cmr}{m}{n}{ldrm}
3918   \EC@family{T2D}{cmr}{m}{sl}{lds1}
3919   \EC@family{T2D}{cmr}{m}{it}{ldti}
3920   \EC@family{T2D}{cmr}{m}{sc}{ldcc}
3921   \EC@family{T2D}{cmr}{bx}{n}{ldbx}
3922   \EC@family{T2D}{cmr}{b}{n}{ldrb}
3923   \EC@family{T2D}{cmr}{bx}{it}{ldbi}
3924   \EC@family{T2D}{cmr}{bx}{sl}{ldbl}
3925   \EC@family{T2D}{cmr}{bx}{sc}{ldxc}
3926   \EC@family{T2D}{cmr}{m}{ui}{ldui}
3927 %
3928 </t2dcmr.fd>

```

4.38 File tengwarDS.enc

```

3929 <*tengwarDS.enc>
3930 %
3931 %
3932 % nomapping(anna_sindarinwa,h) % (in Quenya-A)
3933 % nomapping(stl_vala,???)
3934 %
3935 % nomapping(double_acute)
3936 % nomapping(double_right_curl)
3937 % nomapping(double_left_curl)
3938 % nomapping(tilde)
3939
3940 %
3941
3942 %
3943 %
3944 % ligature tinco three_above (one E) is OK.
3945 %

```

3946 % ligature anna three_above (h E) is OK.
3947 % ligature anna acute (h R) is OK.
3948 % ligature anna amaticse (h T) is OK.
3949 % ligature anna right_curl (h Y) is OK.
3950 % ligature anna chevron (h Ugrave) is OK.
3951 % ligature anna nasalizer (h bracketleft) is OK.
3952
3953 % ligature quesse three_above (z E) is OK.
3954 % ligature quesse acute (z R) is OK.
3955 % ligature quesse amaticse (z T) is OK.
3956 % ligature quesse right_curl (z Y) is OK.
3957 % ligature quesse chevron (z Ugrave) is OK.
3958 % ligature quesse nasalizer (z bracketleft) is OK.
3959
3960 % ligature lambe three_above (j E) is OK.
3961 % ligature lambe acute (j R) is OK.
3962 % ligature lambe amaticse (j T) is OK.
3963 % ligature lambe right_curl (j Y) is OK.
3964 % ligature lambe chevron (j Ugrave) is OK.
3965 % ligature lambe nasalizer (j bracketleft) is OK.
3966
3967 % ligature malta three_above:
3968 % LIGKERN t E |=:> numbersign
3969 % ligature malta acute:
3970 % LIGKERN t R |=:> dollar
3971 % ligature malta amaticse:
3972 % LIGKERN t T |=:> percent
3973 % ligature malta right_curl:
3974 % LIGKERN t Y |=:> asciicircum
3975 % ligature malta chevron:
3976 % LIGKERN t Ugrave |=:> Oslash
3977 % ligature malta nasalizer:
3978 % LIGKERN t bracketleft |=:> braceleft
3979
3980 % ligature nuumen three_above:
3981 % LIGKERN five E |=:> numbersign
3982 % ligature nuumen acute:
3983 % LIGKERN five R |=:> dollar
3984 % ligature nuumen amaticse:
3985 % LIGKERN five T |=:> percent
3986 % ligature nuumen right_curl:
3987 % LIGKERN five Y |=:> asciicircum
3988 % ligature nuumen chevron:
3989 % LIGKERN five Ugrave |=:> Oslash
3990 % ligature nuumen nasalizer:
3991 % LIGKERN five bracketleft |=:> braceleft
3992
3993 % ligature parma three_above (q E) is OK.
3994 % ligature parma acute (q R) is OK.
3995 % ligature parma amaticse (q T) is OK.
3996 % ligature parma right_curl (q Y) is OK.
3997 % ligature parma chevron (q Ugrave) is OK.
3998 % ligature parma nasalizer (q bracketleft) is OK.
3999

4000 % ligature silme_nuquerna three_above (i E) is OK.
4001 % ligature silme_nuquerna acute (i R) is OK.
4002 % ligature silme_nuquerna amaticse (i T) is OK.
4003 % ligature silme_nuquerna right_curl (i Y) is OK.
4004 % ligature silme_nuquerna chevron (i Ugrave) is OK.
4005 % ligature silme_nuquerna nasalizer (i bracketleft) is OK.
4006
4007 % ligature tinco three_above (one E) is OK.
4008 % ligature tinco acute (one R) is OK.
4009 % ligature tinco amaticse (one T) is OK.
4010 % ligature tinco right_curl (one Y) is OK.
4011 % ligature tinco chevron (one Ugrave) is OK.
4012 % ligature tinco nasalizer (one bracketleft) is OK.
4013
4014 % ligature vala three_above (y E) is OK.
4015 % ligature vala acute (y R) is OK.
4016 % ligature vala amaticse (y T) is OK.
4017 % ligature vala right_curl (y Y) is OK.
4018 % ligature vala chevron (y Ugrave) is OK.
4019 % ligature vala nasalizer (y bracketleft) is OK.
4020
4021 % ligature short_carrier three_above:
4022 % LIGKERN grave E |> C
4023 % ligature short_carrier acute:
4024 % LIGKERN grave R |> V
4025 % ligature short_carrier amaticse:
4026 % LIGKERN grave T |> B
4027 % ligature short_carrier right_curl:
4028 % LIGKERN grave Y |> N
4029 % ligature short_carrier chevron:
4030 % LIGKERN grave Ugrave |> Ucircumflex
4031 % ligature short_carrier nasalizer (grave bracketleft) is OK.
4032
4033 % ligature three_above nasalizer:
4034 % LIGKERN numbersign bracketleft |> braceleft
4035 % ligature acute nasalizer:
4036 % LIGKERN dollar bracketleft |> braceleft
4037 % ligature amaticse nasalizer:
4038 % LIGKERN percent bracketleft |> braceleft
4039 % ligature right_curl nasalizer:
4040 % LIGKERN asciicircum bracketleft |> braceleft
4041 % ligature chevron nasalizer:
4042 % LIGKERN Oslash bracketleft |> braceleft
4043
4044 % ligature nasalizer three_above:
4045 % LIGKERN braceleft E |> numbersign
4046 % ligature nasalizer acute:
4047 % LIGKERN braceleft R |> dollar
4048 % ligature nasalizer amaticse:
4049 % LIGKERN braceleft T |> percent
4050 % ligature nasalizer right_curl:
4051 % LIGKERN braceleft Y |> asciicircum
4052 % ligature nasalizer chevron:
4053 % LIGKERN braceleft Ugrave |> Oslash

4054 %
 4055 %
 4056 %
 4057 /TengwarEncoding [
 4058
 4059 % 0x00
 4060 /one /q /a /z
 4061 /two /w /s /x
 4062 /three /e /d /c
 4063 /four /r /f /v
 4064 % 0x10
 4065 /five /t /g /b
 4066 /six /y /h /n
 4067 /seven /eight /j /m
 4068 /eight /i /k /comma
 4069 % 0x20
 4070 /nine /o /l /period
 4071 /onehalf /grave /asciitilde /.c0x7f
 4072 /exclam /Q /A /Z
 4073 /at /W /S /X
 4074 % 0x30
 4075 /.c240 /.c0x7f /bracketright /.c241
 4076 /space /space /space /space % 4567
 4077 /space /space /space /space % 89AB
 4078 /space /space /space /space % CDEF
 4079 % 0x40
 4080 /E /.c209 /.c213 /.c205
 4081 /T /.c201 /R /.c0x7f
 4082 /Y /.c0x7f /.c225 /.c0x7f
 4083 /bracketleft /quotesingle /.c0x7f /.c0x7f
 4084 % 0x50
 4085 /equal /hyphen /.c193 /.c192
 4086 /backslash /.c194 /.c0x7f /.c0x7f
 4087 /.c0x7f /space /.c0x7f /space
 4088 /.c0x7f /.c0x7f /space /space
 4089 % 0x60
 4090 /space /space /.c242 /.c243
 4091 /.c244 /.c245 /.c246 /.c247
 4092 /.c248 /.c249 /.c250 /.c251
 4093 /.c0x7f /.c0x7f /.c0x7f /space
 4094 % 0x70
 4095 /space /space /space /space % 0123
 4096 /space /space /space /space % 4567
 4097 /space /space /space /space % 89AB
 4098 /space /space /space /space
 4099
 4100 % 0x80
 4101 /numbersign /D /C /Oslash % 0123
 4102 /Uacute /Ucircumflex /dollar /F % 4567
 4103 /V /percent /G /B % 89AB
 4104 /asciicircum /H /N /braceleft % CDEF
 4105 % 0x90
 4106 /quotedbl /question /.c212 /.c214 % 0123
 4107 /.c215 /.c204 /.c206 /.c207 % 4567

```

4108 /.c208 /.c210 /.c211 /.c200 % 89AB
4109 /.c202 /.c203 /.c224 /.c226 % CDEF
4110 % 0xA0
4111 /.c227 /.notdef /.notdef /.notdef % 0123
4112 /.notdef /.notdef /.notdef /.notdef % 4567
4113 /.notdef /.notdef /.notdef /.notdef % 89AB
4114 /.notdef /.notdef /.notdef /.notdef % CDEF
4115 % 0xB0
4116 /.notdef /.notdef /.notdef /.notdef % 0123
4117 /.notdef /.notdef /.notdef /.notdef % 4567
4118 /.notdef /.notdef /.notdef /.notdef % 89AB
4119 /.notdef /.notdef /.notdef /.notdef % CDEF
4120 % 0xC0
4121 /.notdef /.notdef /.notdef /.notdef % 0123
4122 /.notdef /.notdef /.notdef /.notdef % 4567
4123 /.notdef /.notdef /.notdef /.notdef % 89AB
4124 /.notdef /.notdef /.notdef /.notdef % CDEF
4125 % 0xD0
4126 /.notdef /.notdef /.notdef /.notdef % 0123
4127 /.notdef /.notdef /.notdef /.notdef % 4567
4128 /.notdef /.notdef /.notdef /.notdef % 89AB
4129 /.notdef /.notdef /.notdef /.notdef % CDEF
4130 % 0xE0
4131 /.notdef /.notdef /.notdef /.notdef % 0123
4132 /.notdef /.notdef /.notdef /.notdef % 4567
4133 /.notdef /.notdef /.notdef /.notdef % 89AB
4134 /.notdef /.notdef /.notdef /.notdef % CDEF
4135 % 0xF0
4136 /.notdef /.notdef /.notdef /.notdef % 0123
4137 /.notdef /.notdef /.notdef /.notdef % 4567
4138 /.notdef /.notdef /.notdef /.notdef % 89AB
4139 /.notdef /.notdef /.notdef /.notdef % CDEF
4140 ] def
4141
4142
4143 % eof
4144 %
4145 </tengwarDS.enc)

```

4.39 File cp1252.enc

```

4146 <*cp1252.enc)
4147 /CP1252Encoding [
4148 /.c0x0000 /.c0x0001 /.c0x0002 /.c0x0003 /.c0x0004 /.c0x0005 /.c0x0006
4149 /.c0x0007 /.c0x0008 /.c0x0009 /.c0x000A /.c0x000B /.c0x000C /.c0x000D
4150 /.c0x000E /.c0x000F /.c0x0010 /.c0x0011 /.c0x0012 /.c0x0013 /.c0x0014
4151 /.c0x0015 /.c0x0016 /.c0x0017 /.c0x0018 /.c0x0019 /.c0x001A /.c0x001B
4152 /.c0x001C /.c0x001D /.c0x001E /.c0x001F /.c0x0020 /.c0x0021 /.c0x0022
4153 /.c0x0023 /.c0x0024 /.c0x0025 /.c0x0026 /.c0x0027 /.c0x0028 /.c0x0029
4154 /.c0x002A /.c0x002B /.c0x002C /.c0x002D /.c0x002E /.c0x002F /.c0x0030
4155 /.c0x0031 /.c0x0032 /.c0x0033 /.c0x0034 /.c0x0035 /.c0x0036 /.c0x0037
4156 /.c0x0038 /.c0x0039 /.c0x003A /.c0x003B /.c0x003C /.c0x003D /.c0x003E
4157 /.c0x003F /.c0x0040 /.c0x0041 /.c0x0042 /.c0x0043 /.c0x0044 /.c0x0045
4158 /.c0x0046 /.c0x0047 /.c0x0048 /.c0x0049 /.c0x004A /.c0x004B /.c0x004C

```

```

4159 /.c0x004D /.c0x004E /.c0x004F /.c0x0050 /.c0x0051 /.c0x0052 /.c0x0053
4160 /.c0x0054 /.c0x0055 /.c0x0056 /.c0x0057 /.c0x0058 /.c0x0059 /.c0x005A
4161 /.c0x005B /.c0x005C /.c0x005D /.c0x005E /.c0x005F /.c0x0060 /.c0x0061
4162 /.c0x0062 /.c0x0063 /.c0x0064 /.c0x0065 /.c0x0066 /.c0x0067 /.c0x0068
4163 /.c0x0069 /.c0x006A /.c0x006B /.c0x006C /.c0x006D /.c0x006E /.c0x006F
4164 /.c0x0070 /.c0x0071 /.c0x0072 /.c0x0073 /.c0x0074 /.c0x0075 /.c0x0076
4165 /.c0x0077 /.c0x0078 /.c0x0079 /.c0x007A /.c0x007B /.c0x007C /.c0x007D
4166 /.c0x007E /.c0x007F /.c0x20AC /.notdef /.c0x201A /.c0x0192 /.c0x201E
4167 /.c0x2026 /.c0x2020 /.c0x2021 /.c0x02C6 /.c0x2030 /.c0x0160 /.c0x2039
4168 /.c0x0152 /.notdef /.c0x017D /.notdef /.notdef /.c0x2018 /.c0x2019
4169 /.c0x201C /.c0x201D /.c0x2022 /.c0x2013 /.c0x2014 /.c0x02DC /.c0x2122
4170 /.c0x0161 /.c0x203A /.c0x0153 /.notdef /.c0x017E /.c0x0178 /.c0x00A0
4171 /.c0x00A1 /.c0x00A2 /.c0x00A3 /.c0x00A4 /.c0x00A5 /.c0x00A6 /.c0x00A7
4172 /.c0x00A8 /.c0x00A9 /.c0x00AA /.c0x00AB /.c0x00AC /.c0x00AD /.c0x00AE
4173 /.c0x00AF /.c0x00B0 /.c0x00B1 /.c0x00B2 /.c0x00B3 /.c0x00B4 /.c0x00B5
4174 /.c0x00B6 /.c0x00B7 /.c0x00B8 /.c0x00B9 /.c0x00BA /.c0x00BB /.c0x00BC
4175 /.c0x00BD /.c0x00BE /.c0x00BF /.c0x00C0 /.c0x00C1 /.c0x00C2 /.c0x00C3
4176 /.c0x00C4 /.c0x00C5 /.c0x00C6 /.c0x00C7 /.c0x00C8 /.c0x00C9 /.c0x00CA
4177 /.c0x00CB /.c0x00CC /.c0x00CD /.c0x00CE /.c0x00CF /.c0x00D0 /.c0x00D1
4178 /.c0x00D2 /.c0x00D3 /.c0x00D4 /.c0x00D5 /.c0x00D6 /.c0x00D7 /.c0x00D8
4179 /.c0x00D9 /.c0x00DA /.c0x00DB /.c0x00DC /.c0x00DD /.c0x00DE /.c0x00DF
4180 /.c0x00E0 /.c0x00E1 /.c0x00E2 /.c0x00E3 /.c0x00E4 /.c0x00E5 /.c0x00E6
4181 /.c0x00E7 /.c0x00E8 /.c0x00E9 /.c0x00EA /.c0x00EB /.c0x00EC /.c0x00ED
4182 /.c0x00EE /.c0x00EF /.c0x00F0 /.c0x00F1 /.c0x00F2 /.c0x00F3 /.c0x00F4
4183 /.c0x00F5 /.c0x00F6 /.c0x00F7 /.c0x00F8 /.c0x00F9 /.c0x00FA /.c0x00FB
4184 /.c0x00FC /.c0x00FD /.c0x00FE /.c0x00FF
4185 ] def
4186
4187 % eof
4188 %
4189 </cp1252.enc>

```

4.40 File xsenc.def

```

4190 < *xsenc.def >
4191 % This file is a hack. When a manually created xsenc.def
4192 % appears (e.g. contributed with the LH fonts), this hack should be deleted.
4193 \NeedsTeXFormat{LaTeX2e}[1998/12/01]%
4194 \ProvidesFile{xsenc.def}[Experimental XS]%
4195 \DeclareFontEncoding{XS}{-}{-}%
4196 \DeclareFontSubstitution{\LastDeclaredEncoding}{cmr}{m}{n}%
4197 \DeclareTextSymbol\CYRII\LastDeclaredEncoding{"41}%
4198 \DeclareTextSymbol\cyrii\LastDeclaredEncoding{"61}%
4199 \DeclareTextSymbol\CYRJE\LastDeclaredEncoding{"42}%
4200 \DeclareTextSymbol\cyrje\LastDeclaredEncoding{"62}%
4201 \DeclareTextSymbol\CYRDZE\LastDeclaredEncoding{"43}%
4202 \DeclareTextSymbol\cyrdze\LastDeclaredEncoding{"63}%
4203 \DeclareTextSymbol\CYRYAT\LastDeclaredEncoding{"44}%
4204 \DeclareTextSymbol\cyr yat\LastDeclaredEncoding{"64}%
4205 \DeclareTextSymbol\CYRBYUS\LastDeclaredEncoding{"45}%
4206 \DeclareTextSymbol\cyrbyus\LastDeclaredEncoding{"65}%
4207 \DeclareTextSymbol\CYRIZH\LastDeclaredEncoding{"46}%
4208 \DeclareTextSymbol\cyrizh\LastDeclaredEncoding{"66}%
4209 \DeclareTextSymbol\CYRYI\LastDeclaredEncoding{"47}%

```

4210 \DeclareTextSymbol\cyryi\LastDeclaredEncoding{"67}%
4211 \DeclareTextSymbol\CYRNG\LastDeclaredEncoding{"48}%
4212 \DeclareTextSymbol\cyrng\LastDeclaredEncoding{"68}%
4213 \DeclareTextSymbol\CYRIE\LastDeclaredEncoding{"49}%
4214 \DeclareTextSymbol\cyrie\LastDeclaredEncoding{"69}%
4215 \DeclareTextSymbol\CYRAZ\LastDeclaredEncoding{"4A}%
4216 \DeclareTextSymbol\cyraz\LastDeclaredEncoding{"6A}%
4217 \DeclareTextSymbol\CYRIAZ\LastDeclaredEncoding{"4B}%
4218 \DeclareTextSymbol\cyriaz\LastDeclaredEncoding{"6B}%
4219 \DeclareTextSymbol\CYRLYUS\LastDeclaredEncoding{"4C}%
4220 \DeclareTextSymbol\cyrylus\LastDeclaredEncoding{"6C}%
4221 \DeclareTextSymbol\CYRIOTLYUS\LastDeclaredEncoding{"4D}%
4222 \DeclareTextSymbol\cyriotlyus\LastDeclaredEncoding{"6D}%
4223 \DeclareTextSymbol\CYRGERV\LastDeclaredEncoding{"4E}%
4224 \DeclareTextSymbol\cyrgerv\LastDeclaredEncoding{"6E}%
4225 \DeclareTextSymbol\CYRZEMLA\LastDeclaredEncoding{"50}%
4226 \DeclareTextSymbol\cyrzemla\LastDeclaredEncoding{"70}%
4227 \DeclareTextSymbol\CYRKSI\LastDeclaredEncoding{"51}%
4228 \DeclareTextSymbol\cyrksi\LastDeclaredEncoding{"71}%
4229 \DeclareTextSymbol\CYRVARIZHE\LastDeclaredEncoding{"52}%
4230 \DeclareTextSymbol\cyrvarizhe\LastDeclaredEncoding{"72}%
4231 \DeclareTextSymbol\CYRIZHE\LastDeclaredEncoding{"53}%
4232 \DeclareTextSymbol\cyrizhe\LastDeclaredEncoding{"73}%
4233 \DeclareTextSymbol\CYROMGA\LastDeclaredEncoding{"54}%
4234 \DeclareTextSymbol\cyromga\LastDeclaredEncoding{"74}%
4235 \DeclareTextSymbol\CYROMRND\LastDeclaredEncoding{"55}%
4236 \DeclareTextSymbol\cyromrnd\LastDeclaredEncoding{"75}%
4237 \DeclareTextSymbol\CYROT\LastDeclaredEncoding{"56}%
4238 \DeclareTextSymbol\cyrot\LastDeclaredEncoding{"76}%
4239 \DeclareTextSymbol\CYROMTLO\LastDeclaredEncoding{"57}%
4240 \DeclareTextSymbol\cyromtlo\LastDeclaredEncoding{"77}%
4241 \DeclareTextSymbol\CYRFITA\LastDeclaredEncoding{"58}%
4242 \DeclareTextSymbol\cyrfita\LastDeclaredEncoding{"78}%
4243 \DeclareTextSymbol\CYRKOPPA\LastDeclaredEncoding{"59}%
4244 \DeclareTextSymbol\cyrkoppa\LastDeclaredEncoding{"79}%
4245 \DeclareTextSymbol\CYRUK\LastDeclaredEncoding{"5A}%
4246 \DeclareTextSymbol\cyruk\LastDeclaredEncoding{"7A}%
4247 \DeclareTextSymbol\CYRCHERV\LastDeclaredEncoding{"80}%
4248 \DeclareTextSymbol\cyrcherv\LastDeclaredEncoding{"A0}%
4249 \DeclareTextSymbol\CYRPSI\LastDeclaredEncoding{"81}%
4250 \DeclareTextSymbol\cyrpsi\LastDeclaredEncoding{"A1}%
4251 \DeclareTextSymbol\CYRSHTA\LastDeclaredEncoding{"82}%
4252 \DeclareTextSymbol\cyrshhta\LastDeclaredEncoding{"A2}%
4253 \DeclareTextSymbol\CYRIOTBYUS\LastDeclaredEncoding{"83}%
4254 \DeclareTextSymbol\cyriotbyus\LastDeclaredEncoding{"A3}%
4255 \DeclareTextSymbol\CYRIOTEST\LastDeclaredEncoding{"84}%
4256 \DeclareTextSymbol\cyriotest\LastDeclaredEncoding{"A4}%
4257 \DeclareTextSymbol\CYRNARROWE\LastDeclaredEncoding{"85}%
4258 \DeclareTextSymbol\cyrnarrowe\LastDeclaredEncoding{"A5}%
4259 \DeclareTextSymbol\CYRZELO\LastDeclaredEncoding{"86}%
4260 \DeclareTextSymbol\cyrzelo\LastDeclaredEncoding{"A6}%
4261 \DeclareTextSymbol\CYRVARUK\LastDeclaredEncoding{"87}%
4262 \DeclareTextSymbol\cyrvaruk\LastDeclaredEncoding{"A7}%
4263 \DeclareTextSymbol\CYRVIA\LastDeclaredEncoding{"88}%

4264 \DeclareTextSymbol\cyrvia\LastDeclaredEncoding{"A8}%
4265 \DeclareTextSymbol\CYRVLYUS\LastDeclaredEncoding{"89}%
4266 \DeclareTextSymbol\cyrvlyus\LastDeclaredEncoding{"A9}%
4267 \DeclareTextSymbol\CYRIZHDGR\LastDeclaredEncoding{"8A}%
4268 \DeclareTextSymbol\cyrizhdgr\LastDeclaredEncoding{"AA}%
4269 \DeclareTextSymbol\CYRIZHUML\LastDeclaredEncoding{"8B}%
4270 \DeclareTextSymbol\cyrizhuml\LastDeclaredEncoding{"AB}%
4271 \DeclareTextSymbol\CYROLG\LastDeclaredEncoding{"8C}%
4272 \DeclareTextSymbol\cyrolg\LastDeclaredEncoding{"AC}%
4273 \DeclareTextSymbol\CYROERY\LastDeclaredEncoding{"8D}%
4274 \DeclareTextSymbol\cyroery\LastDeclaredEncoding{"AD}%
4275 \DeclareTextSymbol\CYROHSN\LastDeclaredEncoding{"8E}%
4276 \DeclareTextSymbol\cyrohsn\LastDeclaredEncoding{"AE}%
4277 \DeclareTextSymbol\CYROOCDOT\LastDeclaredEncoding{"8F}%
4278 \DeclareTextSymbol\cyroocdot\LastDeclaredEncoding{"AF}%
4279 \DeclareTextSymbol\CYROOCDOT\LastDeclaredEncoding{"90}%
4280 \DeclareTextSymbol\cyroocddot\LastDeclaredEncoding{"B0}%
4281 \DeclareTextSymbol\CYRVIZH\LastDeclaredEncoding{"91}%
4282 \DeclareTextSymbol\cyrvizh\LastDeclaredEncoding{"B1}%
4283 \DeclareTextSymbol\CYRPPETER\LastDeclaredEncoding{"92}%
4284 \DeclareTextSymbol\cyrppeter\LastDeclaredEncoding{"B2}%
4285 \DeclareTextSymbol\CYRTPETER\LastDeclaredEncoding{"93}%
4286 \DeclareTextSymbol\cyrtpeter\LastDeclaredEncoding{"B3}%
4287 \DeclareTextSymbol\CYRZELOM\LastDeclaredEncoding{"94}%
4288 \DeclareTextSymbol\cyrzelom\LastDeclaredEncoding{"B4}%
4289 \DeclareTextAccent\F\LastDeclaredEncoding{"00}%
4290 \DeclareTextAccent\C\LastDeclaredEncoding{"01}%
4291 \DeclareTextAccent\U\LastDeclaredEncoding{"02}%
4292 \DeclareTextSymbol\cyrdash\LastDeclaredEncoding{"16}%
4293 \DeclareTextAccent\CYRtitlo\LastDeclaredEncoding{"05}%
4294 \DeclareTextAccent\CYRpalatal\LastDeclaredEncoding{"06}%
4295 \DeclareTextAccent\CYRpaerok\LastDeclaredEncoding{"07}%
4296 \DeclareTextAccent\CYRkamora\LastDeclaredEncoding{"17}%
4297 \DeclareTextAccent\CYRpsili\LastDeclaredEncoding{"1B}%
4298 \DeclareTextAccent\CYRdasia\LastDeclaredEncoding{"1C}%
4299 \DeclareTextAccent\CYRzvat\LastDeclaredEncoding{"1D}%
4300 \DeclareTextAccent\CYRpneuac\LastDeclaredEncoding{"1E}%
4301 \DeclareTextAccent\CYRpneugrav\LastDeclaredEncoding{"1F}%
4302 \DeclareTextAccent\CYRthousands\LastDeclaredEncoding{"9E}%
4303 \DeclareTextAccent\CYRaccte\LastDeclaredEncoding{"08}%
4304 \DeclareTextAccent\CYRtma\LastDeclaredEncoding{"09}%
4305 \DeclareTextAccent\CYRlegion\LastDeclaredEncoding{"0A}%
4306 \DeclareTextAccent\CYRleodr\LastDeclaredEncoding{"0B}%
4307 \DeclareTextAccent\CYRvran\LastDeclaredEncoding{"0C}%
4308 \DeclareTextAccent\CYRkoloda\LastDeclaredEncoding{"0E}%
4309 \DeclareTextAccent\CYRtmatem\LastDeclaredEncoding{"0F}%
4310 \DeclareTextAccent\CYRvzvat\LastDeclaredEncoding{"10}%
4311 \DeclareTextAccent\CYRvdasia\LastDeclaredEncoding{"11}%
4312 \DeclareTextAccent\CYRvpsili\LastDeclaredEncoding{"12}%
4313 \DeclareTextAccent\CYRvpneuac\LastDeclaredEncoding{"13}%
4314 \DeclareTextAccent\CYRvpneugrav\LastDeclaredEncoding{"14}%
4315 \DeclareTextSymbol\CYRNASH\LastDeclaredEncoding{"4F}%
4316 \DeclareTextSymbol\cyrnash\LastDeclaredEncoding{"6F}%
4317 %

4318 \langle /xsenc.def \rangle

4.41 File xscmr.fd

```
4319  $\langle$ *xscmr.fd $\rangle$ 
4320 \ProvidesFile{xscmr.fd}
4321 [Experimental XS cmr]
4322 \providecommand{\EC@family}[5]{%
4323   \DeclareFontShape{#1}{#2}{#3}{#4}%
4324   {<5><6><7><8><9><10><10.95><12><14.4>%
4325     <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
4326 \DeclareFontFamily{XS}{cmr}{}
4327 \EC@family{XS}{cmr}{m}{n}{rsrm}
4328 \EC@family{XS}{cmr}{m}{sl}{rssl}
4329 \EC@family{XS}{cmr}{m}{it}{rsti}
4330 \EC@family{XS}{cmr}{m}{sc}{rsc}
4331 \EC@family{XS}{cmr}{bx}{n}{rsbx}
4332 \EC@family{XS}{cmr}{b}{n}{rsrb}
4333 \EC@family{XS}{cmr}{bx}{it}{rsbi}
4334 \EC@family{XS}{cmr}{bx}{sl}{rsbl}
4335 \EC@family{XS}{cmr}{bx}{sc}{rsxc}
4336 \EC@family{XS}{cmr}{m}{ui}{rsui}
4337 %
4338  $\langle$ /xscmr.fd $\rangle$ 
```

4.42 File ucshyper.sty

```
4339  $\langle$ *ucshyper.sty $\rangle$ 
4340 \ProvidesPackage{ucshyper}[2002/03/05
4341   UCS: Unicode in Hyperref's PDF bookmarks]%
4342 \ifx\pdfoutput\undefined
4343   \PackageWarning{ucshyper}{ucshyper needs to be run with
4344     pdflatex.\MessageBreak Disabling functionality}%
4345   \expandafter\endinput\fi
4346 \RequirePackage[pdftex,unicode]{hyperref}
4347 %
4348 \newif\ifucshyper@prerender\ucshyper@prerendertrue
4349 \newif\ifucshyper@direct\ucshyper@directtrue
4350 \DeclareOption{nodirect}{\ucshyper@directfalse}%
4351 \DeclareOption{direct}{\ucshyper@directtrue}%
4352 \DeclareOption{noprerender}{\ucshyper@prerenderfalse}%
4353 \DeclareOption{prerender}{\ucshyper@prerendertrue}%
4354 \ProcessOptions*%
4355 %
4356 \newcommand\UCSPU@tmp{}%
4357 \newcommand\UCSPU[1]{%
4358   \begingroup\let\UCSPU@tmp\relax\relax\ifx\UCSPU@tmp\relax
4359     \ifx\utf@viii@map\undefined\else
4360       \expandafter\utf@viii@map\expandafter{\number#1}\fi
4361     \ifnum#1>"FFFF
4362       \PackageError{ucshy}{UCSPU does not support codes greater than
4363         \number"FFFF}\fi
4364     \@tempcntb#1\divide\@tempcntb by'40000
4365     \edef\uc@temp@a{\backslashchar\@tempcntb}%
4366     \multiply\@tempcntb by'40000 \@tempcnta#1\advance\@tempcnta by-\@tempcntb
```

```

4367 \@tempcntb\@tempcnta\divide\@tempcntb by'4000
4368 \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4369 \multiply\@tempcntb by'4000\advance\@tempcnta by-\@tempcntb
4370 \@tempcntb\@tempcnta\divide\@tempcntb by'400
4371 \edef\uc@temp@a{\uc@temp@a\number\@tempcntb\backslashchar}%
4372 \multiply\@tempcntb by'400\advance\@tempcnta by-\@tempcntb
4373 \@tempcntb\@tempcnta\divide\@tempcntb by'100
4374 \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4375 \multiply\@tempcntb by'100\advance\@tempcnta by-\@tempcntb
4376 \@tempcntb\@tempcnta\divide\@tempcntb by'10
4377 \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4378 \multiply\@tempcntb by'10\advance\@tempcnta by-\@tempcntb
4379 \@tempcntb\@tempcnta
4380 \expandafter\xdef\csname UCS2PU\number#1\endcsname{%
4381 \uc@temp@a\number\@tempcntb}%
4382 % \typeout{UCS2PU: \number#1 -> \uc@temp@a\number\@tempcntb}%
4383 \fi\endgroup
4384 }
4385 \newcommand\ucspu@err[1]{%
4386 \csname[*** Insert \string\UCSPU{\number#1}
4387 into preamble ***]\endcsname}
4388 \@ifundefined{pdfstringdefPreHook}{\let\pdfstringdefPreHook\empty}{-}
4389 \g@addto@macro\pdfstringdefPreHook{%
4390 \ifucshyper@direct
4391 \let\old@unicar\unicar
4392 \def\unicar#1{%
4393 \expandafter\ifx\csname UCS2PU\number#1\endcsname\relax
4394 \ucspu@err{#1}\old@unicar{#1}\else
4395 \csname UCS2PU\number#1\endcsname\fi
4396 }%
4397 \fi
4398 \let\selectfont\empty
4399 \let\fontencoding\@gobble
4400 \let\selectlanguage\@gobble
4401 \let\foreignlanguage\@gobble
4402 }
4403 \let\ucshyper@old@pdfstringdef\pdfstringdef
4404 \def\pdfstringdef#1#2{%
4405 \ifucshyper@prerender
4406 \begingroup
4407 \let\old@unicar\unicar
4408 \let\uc@output\@gobbletwo
4409 \fontencoding{PU}\enc@update
4410 \def\unicar##1{\old@unicar{##1}\UCSPU{##1}}%
4411 \edef\0{\string\0}%
4412 \edef\1{\string\1}%
4413 \edef\2{\string\2}%
4414 \edef\3{\string\3}%
4415 \edef\8{\string\8}%
4416 \edef\9{\string\9}%
4417 \Hy@pdfstringtrue
4418 \PrerenderUnicode{#2}%
4419 \endgroup
4420 \fi

```



```

4421 \ucshyper@old@pdfstringdef{#1}{#2}}
4422 \newcommand\UCSPUrange[2]{%
4423   \count255=#1\relax
4424   \loop\ifnum\count255>#2\relax\else
4425     \UCSPU{\count255}%
4426     \advance\count255 by1\relax
4427   \repeat}
4428 \@onlypreamble\UCSPUrange
4429 %
4430 </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.

Symbols	
\!	704, 720, 732, 740
\"	705, 1139, 1144, 1235, 1406, 1410, 1427, 1431, 1979, 2851, 2983, 3602, 3604, 3874
\#	688
\\$	689, 1972, 2844, 2976
\%	690
\&	691
\'	706, 1241, 1344, 1361, 1376, 1395, 1399, 1419, 1423, 1442, 1452, 1460, 1470, 1479, 1488, 1493, 1539, 1934, 1981, 2061, 2853, 2985, 3871
\.	3880
\<	1976, 2848, 2980
\=	1232, 3879
\>	1975, 2847, 2979
\?	706
\@	4, 698, 941, 1127, 1137, 1143, 3495
\@@input	153, 3079, 3080, 3082
\@@textascii	1199, 1200
\@backslashchar	1145, 1146, 1174, 1177, 4365, 4371
\@eha	614, 616, 618, 620, 622, 624
\@empty	858, 4388
\@firstofone	36, 88, 665, 671
\@firstoftwo	778, 1205, 1647, 3080
\@font@info	1712, 1713, 1715, 3568, 3569, 3571
\@font@warning	1710, 1711, 1714, 3566, 3567, 3570
\@getcharinfo	421, 454, <u>625</u> , 659, 726
\@getcharinfo@	649, 655
\@gobble	32, 42, 251, 253, 275, 517, 576, 579, 580, 888, 942, 1012, 1098, 1146, 1692, 3080, 3564, 4399, 4400, 4401
\@gobblefour	35, 290, 321, 348, 375
\@gobblethree	34, 589, 593, 595
\@gobbletwo	33, 253, 943, 1013, 1644, 4408
\@hfont@enc	3621, 3623
\@hfontadapt	3608, 3622
\@hfontadapt@	3613, 3628
\@ifnch	59, 60, 61
\@ifnextchar	41, 50, 54, 55, 1610, 1614
\@ifpackageloaded	141, 1721, 1723
\@ifstar	576
\@ifundefined	3626, 4388
\@inpenc@test	1026
\@inpenc@undefined	758
\@inpenc@undefined@	757
\@inputcheck	72, 75, 76, 77
\@latex@error	614, 616, 618, 620, 622, 624
\@let@token	43, 51, 59, 62, 65
\@ne	409, 410, 539, 540, 553, 555, 570, 683, 730, 736, 848, 851, 868, 881, 1157, 1159, 1160, 1163, 1772, 1887
\@nil	279, 284, 315, 346, 373, 645, 652, 655, 844, 955, 964, 965, 971, 972, 973, 982, 983, 984, 1027, 1028, 1104, 1105, 1113, 1199, 1200, 1310, 1311, 3615, 3628
\@nodocument	945, 950, 1100
\@onlypreamble	4428

<code>\@prerenderunicode</code>	576, 577	<code>\‘</code>	709, 1290, 1339, 1355, 1371, 1387, 1391, 1411, 1415, 1441, 1451, 1459, 1469, 1480, 1487, 1494, 1538, 1980, 2060, 2852, 2984, 3870
<code>\@protected@testopt</code>	42, 108, 142	<code>\l</code>	710, 1969, 2841, 2973
<code>\@secondoftwo</code>	778, 1205, 1649, 3080	<code>\~</code>	697, 843, 1004, 1035, 1109, 1337, 1349, 1366, 1381, 1403, 1407, 1537, 1586, 1587, 1588, 1589, 1967, 2839, 2971, 3873
<code>\@sptoken</code>	62	Numbers	
<code>\@sverb</code>	860	<code>\0</code>	1935, 4411
<code>\@tabacckludge</code>	1242, 1324, 1325, 1330	<code>\1</code>	1936, 4412
<code>\@tempa</code>	3080, 3097, 3104, 3105, 3110, 3116, 3117, 3119, 3122, 3123	<code>\2</code>	1937, 4413
<code>\@tempb</code>	3080	<code>\3</code>	1938, 4414
<code>\@tempcnta</code>	10, 16, 22, 37, 676, 681, 682, 683, 821, 822, 823, 825, 827, 828, 832, 835, 837, 848, 849, 850, 851, 1148, 3496, 3500, 3501, 3502, 3509, 3512, 3513, 3514, 3516, 3520, 3521, 3522, 3524, 3529, 3530, 3532, 3534, 4366, 4367, 4369, 4370, 4372, 4373, 4375, 4376, 4378, 4379	<code>\4</code>	1939
<code>\@tempcntb</code>	38, 677, 681, 826, 830, 836, 1149, 3497, 3503, 3504, 3505, 3507, 4364, 4365, 4366, 4367, 4368, 4369, 4370, 4371, 4372, 4373, 4374, 4375, 4376, 4377, 4378, 4379, 4381, 4382	<code>\5</code>	1940
<code>\@tempdimb</code>	1703, 1705	<code>\6</code>	1941
<code>\@temptokena</code>	511, 513, 865, 870, 872, 880, 883	<code>\7</code>	1942
<code>\@testopt</code>	39, 40, 42	<code>\8</code>	1943, 4415
<code>\@text@composite</code>	1203, 1204, 1206, 1207	<code>\9</code>	1944, 4416
<code>\@textascii</code>	1198, 1199, 1534	A	
<code>\@textascii@switch</code>	1202, 1212, 2108, 2109, 3125, 3690	<code>\A</code>	270, 712, 1093
<code>\@typeset@protect</code>	86, 87, 498, 510, 670	<code>\a</code>	713, 1909
<code>\@uclclist</code>	1512, 1514, 1515	<code>\active</code>	842, 1002, 1033
<code>\@ucsuutils</code>	789, 792, 796, 892, 893	<code>\AddToHook</code>	6, 7, 913
<code>\@ucsuutils@section</code>	797, 798, 840, 861, 894	<code>\advance</code>	188, 190, 194, 683, 822, 828, 835, 836, 837, 851, 968, 969, 977, 979, 980, 989, 991, 993, 994, 1023, 1040, 1048, 1049, 1057, 1059, 1061, 1069, 1071, 1074, 1077, 1078, 1108, 1116, 1761, 1762, 1766, 1789, 1790, 1797, 3501, 3504, 3513, 3521, 3530, 4366, 4369, 4372, 4375, 4378, 4426
<code>\@undefined</code>	6, 904	<code>\aftergroup</code>	778, 1122
<code>\@unistring</code>	863, 875, 881	<code>\AtBeginDocument</code>	141, 166, 175, 179, 180, 756, 757, 944, 945, 1099, 1101, 1722, 3601
<code>\@use@text@encoding</code>	1202	<code>\AtEndDocument</code>	167
<code>\@xifnch</code>	63	<code>\AtEndOfPackage</code>	172, 949, 950
<code>\[</code>	707	<code>\autofe@add@fe</code>	1659, 1664, 1671
<code>\</code>	103, 104, 105, 270, 692, 793, 796, 854, 885, 1093, 1146, 1968, 2840, 2972	<code>\autofe@DeclareTextCommand</code>	1603, 1604
<code>\{</code>	270, 695, 1093, 1970, 2842, 2974	<code>\autofe@DeclareTextSymbol</code>	1607, 1635, 1637
<code>\}</code>	270, 696, 1093, 1971, 2843, 2975	<code>\autofe@defdef</code>	1621, 1626, 1631, 1636, 1640
<code>_</code>	687	<code>\autofe@mode</code>	1197, 1601, 1621, 1626, 1631, 1636, 1646, 1660, 1661, 1662, 1663
<code>\]</code>	708	<code>\autofe@options</code>	1658, 1659, 1660, 1661, 1662, 1663, 1667, 1668, 1670
<code>\^</code>	113, 121, 693, 699, 700, 701, 702, 715, 716, 717, 1138, 1147, 1966, 2838, 2970, 3872		
<code>_</code>	694		

<code>\autofe@parse@declaretextcommand</code>	3458, 3459, 3460, 3461, 3462,
.....	1604, 1606, 1609
<code>\autofe@parse@declaretextcommand@a</code>	3463, 3464, 3465, 3466, 3467,
.....	1611, 1613
<code>\autofe@parse@declaretextcommand@aa</code>	3648, 3651, 3653, 3657, 3659,
.....	3664, 3687, 3688, 3692, 3698, 3700
<code>\autofe@parse@declaretextcommand@ad</code>	1615, 1619
<code>\autofe@parse@declaretextcommand@ad</code>	1616, 1624
<code>\autofe@parse@declaretextcommand@dd</code>	1612, 1629
<code>\autofe@ProvideTextCommand</code>	1605, 1606, 1621, 1626, 1636
B	
<code>\B</code>	270, 1051, 1063,
.....	1080, 1093, 1542, 1543, 1577, 1578
<code>\b</code>	1910
<code>\begingroup</code>	224, 248, 269, 488, 551,
.....	569, 578, 626, 843, 920, 962,
.....	996, 1003, 1010, 1034, 1043,
.....	1050, 1062, 1079, 1092, 1102,
.....	1202, 1641, 3499, 3610, 4358, 4406
<code>\bgroup</code>	847
C	
<code>\C</code>	270, 1064, 1081, 1093, 1911, 3884, 4290
<code>\catcode</code>	4, 687, 688, 689, 690, 691,
.....	692, 693, 694, 695, 696, 697,
.....	698, 699, 700, 701, 702, 703,
.....	711, 714, 718, 720, 732, 740,
.....	797, 842, 895, 941, 1002, 1033,
.....	1110, 1127, 1137, 1138, 1139,
.....	1140, 1141, 1143, 1144, 1147,
.....	1148, 1149, 1150, 1195, 1196, 3495
<code>\char</code>	830, 925, 1310,
.....	1311, 1445, 1447, 1449, 1455,
.....	1457, 1463, 1465, 1467, 1473,
.....	1475, 1477, 1483, 1485, 1497,
.....	1499, 1501, 1505, 1507, 1509,
.....	1534, 1636, 1772, 1887, 1983,
.....	1984, 1985, 2039, 2041, 2042,
.....	2043, 2044, 2045, 2046, 2047,
.....	2048, 2049, 2050, 2051, 2052,
.....	2053, 2054, 2055, 2056, 2058,
.....	2059, 2060, 2061, 2072, 2073,
.....	2987, 2988, 2989, 3039, 3040,
.....	3041, 3042, 3043, 3044, 3045,
.....	3046, 3047, 3048, 3049, 3050,
.....	3051, 3052, 3053, 3054, 3298,
.....	3299, 3300, 3301, 3302, 3303,
.....	3304, 3305, 3306, 3307, 3308,
.....	3309, 3310, 3311, 3312, 3313,
.....	3314, 3315, 3316, 3317, 3452,
.....	3453, 3454, 3455, 3456, 3457,
<code>\ci</code>	659, 661
<code>\CJK@empty</code>	1681, 1710, 1711, 1712, 1713
<code>\CJK@sub</code>	1687, 1714, 1715
<code>\cjk@Cforty</code>	1757, 1776, 1778
<code>\cjk@Cfirttw</code>	1793, 1891, 1893
<code>\cjk@Cfirttw@</code>	1788, 1798
<code>\CJK@DNP</code>	1701, 1718, 1719
<code>\CJK@DNPgen</code>	1694, 1716, 1717
<code>\CJK@plane</code>	1679,
.....	1682, 1683, 1686, 1695, 1697,
.....	1700, 1702, 1705, 1708, 1726,
.....	1770, 1771, 1778, 1885, 1886, 1893
<code>\CJKresetplane</code>	1726
<code>\closein</code>	77
<code>combine (option)</code>	<u>161</u>
<code>\count</code>	185, 186, 188,
.....	189, 190, 191, 192, 193, 194,
.....	195, 197, 213, 214, 215, 530,
.....	531, 642, 643, 644, 941, 957,
.....	960, 963, 966, 967, 968, 969,
.....	974, 975, 976, 977, 978, 979,
.....	980, 985, 986, 987, 988, 989,
.....	990, 991, 992, 993, 994, 996,
.....	998, 1000, 1001, 1002, 1004,
.....	1009, 1019, 1022, 1023, 1031,
.....	1032, 1033, 1035, 1039, 1040,
.....	1044, 1048, 1049, 1051, 1055,
.....	1057, 1058, 1059, 1060, 1061,
.....	1063, 1064, 1067, 1069, 1070,
.....	1071, 1072, 1073, 1074, 1075,
.....	1076, 1077, 1078, 1080, 1081,
.....	1082, 1085, 1105, 1106, 1107,
.....	1108, 1109, 1110, 1115, 1116,
.....	1118, 1119, 1127, 1759, 1760,
.....	1761, 1762, 1763, 1764, 1765,
.....	1766, 1767, 1768, 1769, 1772,
.....	1789, 1790, 1791, 1796, 1797,
.....	1799, 1887, 4423, 4424, 4425, 4426
<code>\count@</code>	9, 15, 21, 921, 922, 925
<code>\countdef</code>	627, 723
<code>\csname</code>	37,
.....	38, 91, 92, 94, 95, 97, 98, 100,
.....	129, 130, 131, 132, 133, 134,
.....	145, 148, 246, 263, 281, 285,
.....	288, 292, 293, 294, 298, 316,
.....	319, 323, 324, 325, 329, 350,
.....	351, 352, 356, 377, 378, 379,
.....	383, 405, 406, 408, 426, 429,
.....	496, 532, 536, 538, 553, 555,

570, 592, 594, 604, 605, 606,	
608, 609, 791, 939, 940, 1009,	
1022, 1055, 1067, 1085, 1128,	
1136, 1165, 1174, 1194, 1685,	
1688, 1689, 1699, 1707, 1740,	
1748, 1756, 1787, 1902, 3094,	
3095, 3098, 3100, 3102, 3103,	
3107, 3108, 3111, 3113, 3114,	
3115, 3120, 3496, 3497, 3537,	
3538, 3540, 3555, 3557, 3558,	
3560, 3561, 3605, 3606, 3608,	
3614, 3618, 4380, 4386, 4393, 4395	
\curr@fontshape 1685, 1699, 1707, 3558	
\CurrentOption 173, 791, 1664	
\CYRA 3748	
\cyra 3749	
\CYRaccte 4303	
\CYRAZ 3826, 4215	
\cyraz 3827, 4216	
\CYRB 3750	
\cyrb 3751	
\CYREBYUS 3818, 4205	
\cyrbyus 3819, 4206	
\CYRC 3792	
\cyrc 3793	
\CYRCH 3794	
\cyrch 3795	
\CYRCHERV 3858, 4247	
\cyrcherv 3859, 4248	
\CYRD 3756	
\cyrd 3757	
\cyrdash 3886, 4292	
\CYRdasia 3900, 4298	
\CYRDZE 3814, 4201	
\cyrdze 3815, 4202	
\CYRE 3758	
\cyre 3759	
\CYREPS 3824	
\cyreps 3825	
\CYREREV 3806	
\cyrerev 3807	
\CYRERY 3802	
\cyrery 3803	
\CYRF 3788	
\cyrf 3789	
\CYRFITA 3852, 4241	
\cyrfita 3853, 4242	
\CYRG 3754	
\cyrg 3755	
\CYRGERV 3834, 4223	
\cyrgerv 3835, 4224	
\CYRH 3790	
\cyrh 3791	
\CYRHRDSN 3800	
\cyrhrdsn 3801	
\CYRI 3764	
\cyri 3765	
\CYRIAZ 3828, 4217	
\cyriaz 3829, 4218	
\CYRIE 3822, 4213	
\cyrie 3823, 4214	
\CYRII 4197	
\cyrii 4198	
\CYRIOTBYUS 3864, 4253	
\cyriotbyus 3865, 4254	
\CYRIOTEST 3866, 4255	
\cyriotest 3867, 4256	
\CYRIOTLYUS 3832, 4221	
\cyriotlyus 3833, 4222	
\CYRISHRT 3766	
\cyrishrt 3767	
\CYRIZH 3820, 4207	
\cyrizh 3821, 4208	
\CYRIZHDGR 4267	
\cyrizhdgr 4268	
\CYRIZHE 3842, 4231	
\cyrizhe 3843, 4232	
\CYRIZHURL 4269	
\cyrizhurl 4270	
\CYRJE 4199	
\cyrje 4200	
\CYRK 3768	
\cyrk 3769	
\CYRkamora 3898, 4296	
\CYRkoloda 4308	
\CYRKOPPA 3854, 4243	
\cyrkoppa 3855, 4244	
\CYRKSI 3838, 4227	
\cyrksi 3839, 4228	
\CYRL 3770	
\cyrl 3771	
\cyrlangle 3881	
\CYRlegion 4305	
\CYRleodr 4306	
\CYRLYUS 3830, 4219	
\cyrlyus 3831, 4220	
\CYRM 3772	
\cyrm 3773	
\CYRN 3774	
\cyrn 3775	
\CYRNARROWE 3868, 4257	
\cyrnarrowe 3869, 4258	
\CYRNASH 3905, 4315	
\cyrnash 3906, 4316	
\CYRNG 4211	
\cyrng 4212	
\CYRNo 3890	
\CYRO 3776	

\cyro	3777	\cyruk	3857, 4246
\CYROERY	4273	\CYRV	3752
\cyroery	4274	\cyrv	3753
\CYROHSN	4275	\CYRVARIZHE	3840, 4229
\cyrohsn	4276	\cyrvarizhe	3841, 4230
\CYROLG	4271	\CYRVARUK	4261
\cyrolg	4272	\cyrvaruk	4262
\CYROMGA	3844, 4233	\CYRvdasia	4311
\cyromga	3845, 4234	\CYRVIA	4263
\CYROMRND	3846, 4235	\cyrvia	4264
\cyromrnd	3847, 4236	\CYRVIZH	4281
\CYROMTLO	3850, 4239	\cyrvizh	4282
\cyromtlo	3851, 4240	\CYRVLYUS	4265
\CYROOCDDOT	4279	\cyrvlyus	4266
\cyroocddot	4280	\CYRvpneuac	4313
\cyroocdot	4278	\CYRvpneugrav	4314
\CYROT	3848, 4237	\CYRvpsili	4312
\cyrot	3849, 4238	\CYRvran	4307
\CYRP	3778	\CYRvzvat	4310
\cyrp	3779	\CYRYA	3810
\CYRpaerok	3897, 4295	\cyrya	3811
\CYRpalatal	3896, 4294	\CYRYAT	3816, 4203
\CYRpneuac	3902, 4300	\cyryat	3817, 4204
\CYRpneugrav	3903, 4301	\CYRYI	4209
\CYRPPETER	4283	\cyryi	4210
\cyrppeter	4284	\CYRYO	3812
\CYRPSI	3860, 4249	\cyryo	3813
\cyrpsi	3861, 4250	\CYRYU	3808
\CYRpsili	3899, 4297	\cyryu	3809
\CYRR	3780	\CYRZ	3762
\cyr	3781	\cyrz	3763
\cyrangle	3882	\CYRZELO	4259
\CYRS	3782	\cyrzelo	4260
\cyrs	3783	\CYRZELOM	4287
\CYRSFTSN	3804	\cyrzelom	4288
\cyrsftsn	3805	\CYRZEMLA	3836, 4225
\CYRSH	3796	\cyrzemla	3837, 4226
\cyrsh	3797	\CYRZH	3760
\CYRSHCH	3798	\cyrzh	3761
\cyrshch	3799	\CYRzvat	3901, 4299
\CYRSHTA	3862, 4251		
\cyrsh	3863, 4252		
\CYRT	3784		
\cyrt	3785		
\CYRthousands	3904, 4302		
\CYRtitlo	3895, 4293		
\CYRtma	4304		
\CYRtmatem	4309		
\CYRTPETER	4285		
\cyrtpeter	4286		
\CYRU	3786		
\cyr	3787		
\CYRUK	3856, 4245		

D	
\D	1082, 1912
\dagesh	3674, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701
\dec	211, 217
\DeclareFontEncoding	1737, 1745, 1753, 1784, 1899, 1907, 1957, 2104, 2106, 2829, 2959, 3077, 3380, 3551, 3635, 3746, 4195
\DeclareFontFamily	1949, 2091, 2097, 2804, 2805, 2812, 2813, 2820, 2821, 2946, 2952, 3071, 3327,

3477, 3483, 3489, 3587, 3593,	2051, 2052, 2053, 2054, 2055,
3707, 3718, 3728, 3735, 3916, 4326	2056, 2058, 2059, 2060, 2061,
<code>\DeclareFontShape</code> 1950, 1951, 2092,	2072, 2073, 2108, 2109, 2111,
2098, 2806, 2807, 2814, 2815,	2113, 2115, 2117, 2119, 2121,
2822, 2823, 2947, 2953, 3072,	2123, 2125, 2127, 2129, 2131,
3073, 3328, 3332, 3341, 3343,	2133, 2135, 2137, 2139, 2141,
3356, 3358, 3363, 3368, 3370,	2143, 2145, 2147, 2149, 2151,
3372, 3374, 3478, 3484, 3490,	2153, 2155, 2157, 2159, 2161,
3588, 3594, 3708, 3709, 3710,	2163, 2165, 2167, 2169, 2171,
3711, 3712, 3719, 3720, 3721,	2173, 2175, 2177, 2179, 2181,
3722, 3729, 3736, 3737, 3913, 4323	2183, 2185, 2187, 2189, 2191,
<code>\DeclareFontSubstitution</code> . . . 1738,	2193, 2195, 2197, 2199, 2201,
1746, 1754, 1785, 1900, 1908,	2203, 2205, 2207, 2209, 2211,
1958, 2105, 2107, 2830, 2960,	2213, 2215, 2217, 2219, 2221,
3078, 3381, 3552, 3636, 3747, 4196	2223, 2225, 2227, 2229, 2231,
<code>\DeclareOption</code> 170, 171, 172,	2233, 2235, 2237, 2239, 2241,
173, 786, 790, 1660, 1661, 1662,	2243, 2245, 2247, 2249, 2251,
1663, 1664, 4350, 4351, 4352, 4353	2253, 2255, 2257, 2259, 2261,
<code>\DeclareRobustCommand</code> 844, 878	2263, 2265, 2267, 2269, 2271,
<code>\DeclareSizeFunction</code>	2273, 2275, 2277, 2279, 2281,
. 1710, 1711, 1712, 1713, 1714,	2283, 2285, 2287, 2289, 2291,
1715, 1716, 1717, 1718, 1719,	2293, 2295, 2297, 2299, 2301,
3566, 3567, 3568, 3569, 3570, 3571	2303, 2305, 2307, 2309, 2311,
<code>\DeclareTextAccent</code> . . . 1160, 1231,	2313, 2315, 2317, 2319, 2321,
1232, 1233, 1235, 1236, 1238,	2323, 2325, 2327, 2329, 2331,
1241, 1254, 1256, 1258, 1261,	2333, 2335, 2337, 2339, 2341,
1280, 1286, 1288, 1289, 1290,	2343, 2345, 2347, 2349, 2351,
1337, 1592, 3870, 3871, 3872,	2353, 2355, 2357, 2359, 2361,
3873, 3874, 3875, 3876, 3877,	2363, 2365, 2367, 2369, 2371,
3878, 3879, 3880, 3883, 3884,	2373, 2375, 2377, 2379, 2381,
3885, 3895, 3896, 3897, 3898,	2383, 2385, 2387, 2389, 2391,
3899, 3900, 3901, 3902, 3903,	2393, 2395, 2397, 2399, 2401,
3904, 4289, 4290, 4291, 4293,	2403, 2405, 2407, 2409, 2411,
4294, 4295, 4296, 4297, 4298,	2413, 2415, 2417, 2419, 2421,
4299, 4300, 4301, 4302, 4303,	2423, 2425, 2427, 2429, 2431,
4304, 4305, 4306, 4307, 4308,	2433, 2435, 2437, 2439, 2441,
4309, 4310, 4311, 4312, 4313, 4314	2443, 2445, 2447, 2449, 2451,
<code>\DeclareTextCommand</code>	2453, 2455, 2457, 2459, 2461,
. 1159, 1212, 1237, 1242, 1311,	2463, 2465, 2467, 2469, 2471,
1321, 1322, 1323, 1324, 1325,	2473, 2475, 2477, 2479, 2481,
1326, 1327, 1328, 1329, 1330,	2483, 2485, 2487, 2489, 2491,
1331, 1332, 1534, 1542, 1543,	2493, 2495, 2497, 2499, 2501,
1544, 1545, 1546, 1547, 1548,	2503, 2505, 2507, 2509, 2511,
1549, 1550, 1551, 1552, 1553,	2513, 2515, 2517, 2519, 2521,
1554, 1555, 1556, 1557, 1558,	2523, 2525, 2527, 2529, 2531,
1559, 1560, 1561, 1562, 1563,	2533, 2535, 2537, 2539, 2541,
1564, 1565, 1566, 1567, 1568,	2543, 2545, 2547, 2549, 2551,
1569, 1570, 1571, 1572, 1573,	2553, 2555, 2557, 2559, 2561,
1574, 1575, 1576, 1577, 1578,	2563, 2565, 2567, 2569, 2571,
1579, 1580, 1581, 1582, 1583,	2573, 2575, 2577, 2579, 2581,
1584, 1585, 1603, 1604, 1776,	2583, 2585, 2587, 2589, 2591,
1891, 1983, 1984, 1985, 2039,	2593, 2595, 2597, 2599, 2601,
2041, 2042, 2043, 2044, 2045,	2603, 2605, 2607, 2609, 2611,
2046, 2047, 2048, 2049, 2050,	2613, 2615, 2617, 2619, 2621,

2623, 2625, 2627, 2629, 2631,	<code>\DeclareTextCommandDefault</code> 1777, 1892
2633, 2635, 2637, 2639, 2641,	<code>\DeclareTextComposite</code> 1158, 1333,
2643, 2645, 2647, 2649, 2651,	1334, 1335, 1339, 1340, 1341,
2653, 2655, 2657, 2659, 2661,	1342, 1344, 1345, 1346, 1347,
2663, 2665, 2667, 2669, 2671,	1349, 1350, 1351, 1355, 1356,
2673, 2675, 2677, 2679, 2681,	1357, 1361, 1362, 1363, 1364,
2683, 2685, 2687, 2689, 2691,	1366, 1367, 1368, 1369, 1371,
2693, 2695, 2697, 2699, 2701,	1372, 1373, 1374, 1376, 1377,
2703, 2705, 2707, 2709, 2711,	1378, 1379, 1381, 1382, 1383,
2713, 2715, 2717, 2719, 2721,	1387, 1388, 1389, 1390, 1391,
2723, 2725, 2727, 2729, 2731,	1392, 1393, 1394, 1395, 1396,
2733, 2735, 2737, 2739, 2741,	1397, 1398, 1399, 1400, 1401,
2743, 2745, 2747, 2749, 2751,	1402, 1403, 1404, 1405, 1406,
2753, 2755, 2757, 2759, 2761,	1407, 1408, 1409, 1410, 1411,
2763, 2765, 2767, 2769, 2771,	1412, 1413, 1414, 1415, 1416,
2773, 2775, 2777, 2779, 2781,	1417, 1418, 1419, 1420, 1421,
2783, 2785, 2787, 2789, 2791,	1422, 1423, 1424, 1425, 1426,
2793, 2795, 2797, 2799, 2961,	1427, 1428, 1429, 1430, 1431,
2962, 2987, 2988, 2989, 3039,	1432, 1433, 1434, 1436, 1437, 3691
3040, 3041, 3042, 3043, 3044,	<code>\DeclareTextCompositeCommand</code> ...
3045, 3046, 3047, 3048, 3049, 1161, 1441,
3050, 3051, 3052, 3053, 3054,	1442, 1443, 1444, 1445, 1446,
3086, 3091, 3098, 3111, 3114,	1447, 1448, 1449, 1450, 1451,
3120, 3125, 3126, 3127, 3128,	1452, 1453, 1454, 1455, 1456,
3129, 3130, 3131, 3132, 3134,	1457, 1458, 1459, 1460, 1461,
3136, 3138, 3140, 3142, 3144,	1462, 1463, 1464, 1465, 1466,
3146, 3148, 3150, 3152, 3154,	1467, 1468, 1469, 1470, 1471,
3156, 3158, 3160, 3162, 3164,	1472, 1473, 1474, 1475, 1476,
3166, 3168, 3170, 3172, 3174,	1477, 1478, 1479, 1480, 1481,
3176, 3178, 3180, 3182, 3184,	1482, 1483, 1484, 1485, 1486,
3186, 3188, 3190, 3192, 3194,	1487, 1488, 1489, 1490, 1491,
3196, 3198, 3200, 3202, 3204,	1492, 1493, 1494, 1495, 1496,
3206, 3208, 3249, 3250, 3251,	1497, 1498, 1499, 1500, 1501,
3252, 3253, 3254, 3255, 3256,	1502, 1503, 1504, 1505, 1506,
3257, 3258, 3259, 3260, 3261,	1507, 1508, 1509, 1510, 1511,
3262, 3263, 3264, 3265, 3266,	1537, 1538, 1539, 1586, 1587,
3267, 3268, 3269, 3270, 3271,	1588, 1589, 3101, 3135, 3137,
3272, 3273, 3274, 3275, 3276,	3139, 3141, 3143, 3145, 3147,
3277, 3278, 3279, 3280, 3298,	3149, 3151, 3153, 3155, 3157,
3299, 3300, 3301, 3302, 3303,	3159, 3161, 3163, 3165, 3167,
3304, 3305, 3306, 3307, 3452,	3169, 3171, 3173, 3175, 3177,
3453, 3454, 3455, 3456, 3457,	3179, 3181, 3183, 3185, 3187,
3458, 3459, 3460, 3461, 3462,	3189, 3191, 3193, 3195, 3197,
3463, 3464, 3465, 3466, 3467,	3199, 3201, 3203, 3205, 3207,
3468, 3469, 3470, 3471, 3574,	3209, 3692, 3693, 3694, 3695,
3575, 3638, 3639, 3640, 3641,	3696, 3697, 3698, 3699, 3700, 3701
3642, 3643, 3644, 3645, 3646,	<code>\DeclareTextSymbol</code> 1157, 1213, 1214,
3647, 3648, 3649, 3650, 3651,	1215, 1216, 1217, 1218, 1222,
3652, 3653, 3654, 3655, 3656,	1223, 1225, 1226, 1228, 1229,
3657, 3658, 3659, 3660, 3661,	1230, 1239, 1240, 1243, 1244,
3662, 3663, 3664, 3668, 3669,	1253, 1257, 1259, 1260, 1262,
3674, 3675, 3676, 3677, 3678,	1263, 1264, 1265, 1266, 1267,
3679, 3680, 3681, 3682, 3683,	1268, 1269, 1270, 1271, 1272,
3684, 3685, 3686, 3687, 3688, 3690	1273, 1274, 1275, 1276, 1277,

1278, 1279, 1281, 1282, 1283,
1284, 1291, 1292, 1293, 1294,
1295, 1296, 1297, 1298, 1299,
1300, 1301, 1302, 1303, 1304,
1305, 1306, 1307, 1308, 1309,
1312, 1313, 1315, 1316, 1317,
1318, 1319, 1336, 1338, 1352,
1384, 1439, 1440, 1533, 1590,
1591, 1607, 1634, 1909, 1910,
1911, 1912, 1913, 1914, 1915,
1916, 1917, 1918, 1919, 1920,
1921, 1922, 1923, 1924, 1925,
1926, 1927, 1928, 1929, 1930,
1931, 1932, 1933, 1934, 1935,
1936, 1937, 1938, 1939, 1940,
1941, 1942, 1943, 1944, 1959,
1960, 1961, 1962, 1963, 1964,
1965, 1966, 1967, 1968, 1969,
1970, 1971, 1972, 1973, 1974,
1975, 1976, 1977, 1978, 1979,
1980, 1981, 1982, 1986, 1987,
1988, 1989, 1990, 1991, 1992,
1993, 1994, 1995, 1996, 1997,
1998, 1999, 2000, 2001, 2002,
2003, 2004, 2005, 2006, 2007,
2008, 2009, 2010, 2011, 2012,
2013, 2014, 2015, 2016, 2017,
2018, 2019, 2020, 2021, 2022,
2023, 2024, 2025, 2026, 2027,
2028, 2029, 2030, 2031, 2032,
2033, 2034, 2035, 2036, 2037,
2038, 2040, 2057, 2062, 2063,
2064, 2065, 2066, 2067, 2068,
2069, 2070, 2071, 2074, 2075,
2076, 2077, 2078, 2079, 2080,
2081, 2082, 2083, 2084, 2085,
2086, 2110, 2112, 2114, 2116,
2118, 2120, 2122, 2124, 2126,
2128, 2130, 2132, 2134, 2136,
2138, 2140, 2142, 2144, 2146,
2148, 2150, 2152, 2154, 2156,
2158, 2160, 2162, 2164, 2166,
2168, 2170, 2172, 2174, 2176,
2178, 2180, 2182, 2184, 2186,
2188, 2190, 2192, 2194, 2196,
2198, 2200, 2202, 2204, 2206,
2208, 2210, 2212, 2214, 2216,
2218, 2220, 2222, 2224, 2226,
2228, 2230, 2232, 2234, 2236,
2238, 2240, 2242, 2244, 2246,
2248, 2250, 2252, 2254, 2256,
2258, 2260, 2262, 2264, 2266,
2268, 2270, 2272, 2274, 2276,
2278, 2280, 2282, 2284, 2286,
2288, 2290, 2292, 2294, 2296,
2298, 2300, 2302, 2304, 2306,
2308, 2310, 2312, 2314, 2316,
2318, 2320, 2322, 2324, 2326,
2328, 2330, 2332, 2334, 2336,
2338, 2340, 2342, 2344, 2346,
2348, 2350, 2352, 2354, 2356,
2358, 2360, 2362, 2364, 2366,
2368, 2370, 2372, 2374, 2376,
2378, 2380, 2382, 2384, 2386,
2388, 2390, 2392, 2394, 2396,
2398, 2400, 2402, 2404, 2406,
2408, 2410, 2412, 2414, 2416,
2418, 2420, 2422, 2424, 2426,
2428, 2430, 2432, 2434, 2436,
2438, 2440, 2442, 2444, 2446,
2448, 2450, 2452, 2454, 2456,
2458, 2460, 2462, 2464, 2466,
2468, 2470, 2472, 2474, 2476,
2478, 2480, 2482, 2484, 2486,
2488, 2490, 2492, 2494, 2496,
2498, 2500, 2502, 2504, 2506,
2508, 2510, 2512, 2514, 2516,
2518, 2520, 2522, 2524, 2526,
2528, 2530, 2532, 2534, 2536,
2538, 2540, 2542, 2544, 2546,
2548, 2550, 2552, 2554, 2556,
2558, 2560, 2562, 2564, 2566,
2568, 2570, 2572, 2574, 2576,
2578, 2580, 2582, 2584, 2586,
2588, 2590, 2592, 2594, 2596,
2598, 2600, 2602, 2604, 2606,
2608, 2610, 2612, 2614, 2616,
2618, 2620, 2622, 2624, 2626,
2628, 2630, 2632, 2634, 2636,
2638, 2640, 2642, 2644, 2646,
2648, 2650, 2652, 2654, 2656,
2658, 2660, 2662, 2664, 2666,
2668, 2670, 2672, 2674, 2676,
2678, 2680, 2682, 2684, 2686,
2688, 2690, 2692, 2694, 2696,
2698, 2700, 2702, 2704, 2706,
2708, 2710, 2712, 2714, 2716,
2718, 2720, 2722, 2724, 2726,
2728, 2730, 2732, 2734, 2736,
2738, 2740, 2742, 2744, 2746,
2748, 2750, 2752, 2754, 2756,
2758, 2760, 2762, 2764, 2766,
2768, 2770, 2772, 2774, 2776,
2778, 2780, 2782, 2784, 2786,
2788, 2790, 2792, 2794, 2796,
2798, 2831, 2832, 2833, 2834,
2835, 2836, 2837, 2838, 2839,
2840, 2841, 2842, 2843, 2844,

2845, 2846, 2847, 2848, 2849, 3762, 3763, 3764, 3765, 3766,
2850, 2851, 2852, 2853, 2854, 3767, 3768, 3769, 3770, 3771,
2855, 2856, 2857, 2858, 2859, 3772, 3773, 3774, 3775, 3776,
2860, 2861, 2862, 2863, 2864, 3777, 3778, 3779, 3780, 3781,
2865, 2866, 2867, 2868, 2869, 3782, 3783, 3784, 3785, 3786,
2870, 2871, 2872, 2873, 2874, 3787, 3788, 3789, 3790, 3791,
2875, 2876, 2877, 2878, 2879, 3792, 3793, 3794, 3795, 3796,
2880, 2881, 2882, 2883, 2884, 3797, 3798, 3799, 3800, 3801,
2885, 2886, 2887, 2888, 2889, 3802, 3803, 3804, 3805, 3806,
2890, 2891, 2892, 2893, 2894, 3807, 3808, 3809, 3810, 3811,
2895, 2896, 2897, 2898, 2899, 3812, 3813, 3814, 3815, 3816,
2900, 2901, 2902, 2903, 2904, 3817, 3818, 3819, 3820, 3821,
2905, 2906, 2907, 2908, 2909, 3822, 3823, 3824, 3825, 3826,
2910, 2911, 2912, 2913, 2914, 3827, 3828, 3829, 3830, 3831,
2915, 2916, 2917, 2918, 2919, 3832, 3833, 3834, 3835, 3836,
2920, 2921, 2922, 2923, 2924, 3837, 3838, 3839, 3840, 3841,
2925, 2926, 2927, 2928, 2929, 3842, 3843, 3844, 3845, 3846,
2930, 2931, 2932, 2933, 2934, 3847, 3848, 3849, 3850, 3851,
2935, 2936, 2937, 2938, 2939, 3852, 3853, 3854, 3855, 3856,
2940, 2941, 2963, 2964, 2965, 3857, 3858, 3859, 3860, 3861,
2966, 2967, 2968, 2969, 2970, 3862, 3863, 3864, 3865, 3866,
2971, 2972, 2973, 2974, 2975, 3867, 3868, 3869, 3881, 3882,
2976, 2977, 2978, 2979, 2980, 3886, 3887, 3888, 3889, 3890,
2981, 2982, 2983, 2984, 2985, 3891, 3892, 3893, 3894, 3905,
2986, 2990, 2991, 2992, 2993, 3906, 4197, 4198, 4199, 4200,
2994, 2995, 2996, 2997, 2998, 4201, 4202, 4203, 4204, 4205,
2999, 3000, 3001, 3002, 3003, 4206, 4207, 4208, 4209, 4210,
3004, 3005, 3006, 3007, 3008, 4211, 4212, 4213, 4214, 4215,
3009, 3010, 3011, 3012, 3013, 4216, 4217, 4218, 4219, 4220,
3014, 3015, 3016, 3017, 3018, 4221, 4222, 4223, 4224, 4225,
3019, 3020, 3021, 3022, 3023, 4226, 4227, 4228, 4229, 4230,
3024, 3025, 3026, 3027, 3028, 4231, 4232, 4233, 4234, 4235,
3029, 3030, 3031, 3032, 3033, 4236, 4237, 4238, 4239, 4240,
3034, 3035, 3036, 3037, 3038, 4241, 4242, 4243, 4244, 4245,
3055, 3056, 3057, 3058, 3059, 4246, 4247, 4248, 4249, 4250,
3060, 3061, 3062, 3063, 3064, 4251, 4252, 4253, 4254, 4255,
3065, 3066, 3382, 3383, 3384, 4256, 4257, 4258, 4259, 4260,
3385, 3386, 3387, 3388, 3389, 4261, 4262, 4263, 4264, 4265,
3390, 3391, 3392, 3393, 3394, 4266, 4267, 4268, 4269, 4270,
3395, 3396, 3397, 3398, 3399, 4271, 4272, 4273, 4274, 4275,
3400, 3401, 3402, 3403, 3404, 4276, 4277, 4278, 4279, 4280,
3405, 3406, 3407, 3408, 3409, 4281, 4282, 4283, 4284, 4285,
3410, 3411, 3412, 3413, 3414, 4286, 4287, 4288, 4292, 4315, 4316
3415, 3416, 3417, 3418, 3419, `\DeclareUnicodeCharacter` . . . 581, 747
3420, 3421, 3422, 3423, 3424, `\DeclareUnicodeCharacterAsOptional`
3425, 3426, 3427, 3428, 3429, 582, 583, 831
3430, 3431, 3432, 3433, 3434, `\DeclareUnicodeOption`
3435, 3436, 3437, 3438, 3439, . . 89, 154, 155, 156, 157, 158, 160
3442, 3443, 3444, 3445, 3446, `\DeclareUnicodeOption@` 108, 109
3447, 3448, 3449, 3450, 3451, `\def` 8, 11, 12, 17,
3665, 3666, 3667, 3670, 3671, 18, 23, 24, 32, 33, 34, 35, 36, 40,
3672, 3748, 3749, 3750, 3751, 42, 55, 57, 58, 61, 74, 76, 77, 82,
3752, 3753, 3754, 3755, 3756, 87, 89, 90, 92, 95, 98, 100, 107,
3757, 3758, 3759, 3760, 3761, 113, 121, 127, 129, 131, 132,

140, 165, 169, 171, 184, 200,	925, 1008, 1038, 1136, 1146,
209, 211, 448, 484, 485, 496,	1683, 1696, 1704, 1769, 1770,
505, 557, 603, 606, 628, 629,	1885, 3097, 3110, 3119, 3555,
632, 635, 640, 655, 660, 664,	3557, 3612, 3616, 3624, 3628,
667, 670, 675, 680, 703, 711,	4365, 4368, 4371, 4374, 4377,
714, 755, 757, 776, 777, 796,	4411, 4412, 4413, 4414, 4415, 4416
797, 800, 802, 803, 805, 806,	<code>\egroup</code> 858
807, 811, 813, 841, 856, 862,	<code>\else</code> 6, 64, 67, 77, 88, 102, 115,
863, 885, 919, 932, 942, 943,	123, 134, 147, 150, 153, 164,
952, 955, 961, 999, 1025, 1042,	166, 170, 178, 199, 239, 259,
1097, 1103, 1151, 1153, 1156,	265, 275, 287, 291, 297, 302,
1164, 1173, 1182, 1184, 1186,	308, 318, 322, 328, 333, 339,
1194, 1199, 1200, 1201, 1202,	349, 355, 360, 366, 376, 382,
1204, 1310, 1513, 1514, 1532,	387, 393, 414, 420, 431, 436,
1604, 1606, 1609, 1613, 1619,	439, 443, 447, 452, 472, 487,
1624, 1629, 1634, 1640, 1642,	490, 504, 506, 519, 526, 532,
1658, 1659, 1681, 1682, 1687,	544, 550, 554, 588, 593, 594,
1694, 1695, 1701, 1702, 1726,	601, 633, 648, 681, 725, 731,
1757, 1771, 1788, 1790, 1793,	738, 756, 778, 786, 797, 844,
1886, 3080, 3498, 3536, 3541,	867, 868, 871, 901, 924, 939,
3606, 3621, 3622, 4392, 4404, 4410	944, 945, 949, 950, 959, 970,
<code>default</code> (option) 159	981, 1020, 1047, 1056, 1068,
<code>\define@key</code> 802, 803, 804, 806, 807	1086, 1098, 1099, 1100, 1105,
<code>\definition</code> 743, 745, 746, 747, 749	1114, 1118, 1133, 1167, 1176,
<code>\divide</code> 192,	1185, 1196, 1197, 1200, 1205,
197, 214, 530, 642, 1044, 1058,	1512, 1534, 1621, 1626, 1631,
1060, 1070, 1072, 1073, 1075,	1636, 1645, 1648, 1682, 1686,
1764, 1767, 3500, 3502, 3503,	1691, 1695, 1700, 1702, 1708,
3505, 3512, 3514, 3520, 3522,	1770, 1790, 1883, 1885, 3080,
3529, 4364, 4367, 4370, 4373, 4376	3542, 3544, 3563, 4359, 4394, 4424
<code>document</code> (option) 157	<code>\empty</code> . 163, 183, 184, 252, 253, 400,
<code>\doublevav</code> 3665	403, 490, 789, 862, 956, 965,
<code>\doubleyod</code> 3667, 3691	972, 973, 982, 983, 984, 1012,
<code>\dteightCODE</code> 3306, 3316	1013, 1199, 1200, 1527, 3087, 4398
<code>\dtfiveCODE</code> 3303, 3313	<code>\empty@sfcnt</code> 1684, 3556
<code>\dtfourCODE</code> 3302, 3312	<code>\enc@update</code> 4409
<code>\dtnineCODE</code> 3307, 3317	<code>\encodingdefault</code> 1201
<code>\dtoneCODE</code> 3299, 3309	<code>\endcsname</code> 37,
<code>\dtsevenCODE</code> 3305, 3315	38, 91, 93, 94, 96, 97, 98, 100,
<code>\dtsixCODE</code> 3304, 3314	129, 130, 131, 132, 133, 134,
<code>\dtthreeCODE</code> 3301, 3311	145, 148, 246, 263, 281, 285,
<code>\dttwoCODE</code> 3300, 3310	288, 292, 293, 294, 298, 316,
<code>\dtzeroCODE</code> 3298, 3308	319, 323, 324, 325, 329, 350,
	351, 352, 356, 377, 378, 379,
	383, 405, 407, 409, 426, 429,
	496, 532, 537, 539, 553, 555,
	570, 592, 594, 604, 605, 606,
	608, 609, 791, 939, 940, 1009,
	1022, 1055, 1067, 1085, 1128,
	1136, 1165, 1174, 1194, 1686,
	1688, 1689, 1700, 1708, 1740,
	1748, 1756, 1787, 1902, 3094,
	3095, 3099, 3100, 3102, 3103,
	3107, 3108, 3112, 3113, 3114,
E	
<code>\e</code> 1913	
<code>\EC@family</code> 3912,	
3917, 3918, 3919, 3920, 3921,	
3922, 3923, 3924, 3925, 3926,	
4322, 4327, 4328, 4329, 4330,	
4331, 4332, 4333, 4334, 4335, 4336	
<code>\edef</code> 104, 144, 216, 217,	
224, 489, 531, 607, 643, 747,	
791, 818, 819, 823, 829, 843,	

3115, 3120, 3496, 3497, 3537, 3538, 3540, 3555, 3557, 3558, 3560, 3561, 3605, 3606, 3608, 3614, 3618, 4380, 4387, 4393, 4395	\f@family 1311, 3624
\endgroup 229, 255, 273, 493, 563, 574, 580, 654, 843, 928, 996, 997, 1007, 1015, 1037, 1053, 1066, 1084, 1090, 1096, 1124, 1202, 1652, 3533, 3619, 4383, 4419	\f@series 3624
\endinput 936, 940, 3547, 4345	\f@shape 3624
\endlinechar 674	\f@size 1685, 1688, 1689, 1697, 1699, 1703, 1707, 3558, 3560, 3561, 3617, 3624, 3625
\errhelp 114	fasterrors (option) <u>153</u>
\errmessage 114, 1190	\fi 30, 32, 33, 34, 35, 36, 37, 38, 41, 42, 59, 69, 70, 71, 72, 78, 80, 84, 85, 86, 88, 102, 117, 125, 139, 149, 152, 153, 164, 167, 174, 179, 180, 190, 196, 201, 209, 211, 240, 264, 267, 276, 289, 306, 307, 310, 311, 320, 337, 338, 341, 342, 364, 365, 368, 369, 391, 392, 395, 396, 419, 430, 433, 445, 446, 448, 449, 452, 471, 474, 493, 494, 505, 507, 523, 527, 533, 549, 556, 566, 589, 590, 595, 597, 602, 604, 606, 637, 641, 653, 685, 725, 730, 738, 739, 778, 780, 781, 789, 795, 796, 797, 808, 817, 824, 846, 866, 873, 874, 876, 891, 926, 937, 938, 940, 942, 943, 945, 947, 948, 950, 951, 960, 966, 974, 975, 985, 986, 987, 995, 1022, 1089, 1098, 1105, 1108, 1115, 1123, 1125, 1126, 1135, 1146, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1170, 1171, 1179, 1180, 1187, 1188, 1192, 1196, 1197, 1200, 1205, 1310, 1529, 1534, 1621, 1626, 1631, 1636, 1650, 1651, 1683, 1686, 1693, 1697, 1700, 1705, 1708, 1769, 1771, 1790, 1884, 1886, 3080, 3087, 3088, 3089, 3090, 3091, 3096, 3109, 3496, 3497, 3508, 3510, 3517, 3525, 3527, 3528, 3539, 3544, 3545, 3547, 3565, 3606, 3631, 4345, 4360, 4363, 4383, 4395, 4397, 4420
\escapechar 3611	\finalkaf 3692
\expandafter 12, 18, 24, 42, 88, 91, 92, 93, 94, 95, 96, 97, 98, 100, 129, 131, 132, 145, 231, 246, 255, 261, 262, 278, 281, 285, 290, 295, 299, 300, 303, 304, 309, 316, 321, 326, 330, 331, 334, 335, 340, 348, 353, 357, 358, 361, 362, 367, 375, 380, 384, 385, 388, 389, 394, 406, 408, 438, 473, 474, 476, 477, 478, 479, 480, 481, 482, 511, 512, 513, 515, 516, 517, 518, 522, 532, 536, 538, 553, 555, 559, 570, 592, 594, 602, 603, 605, 606, 607, 641, 645, 649, 650, 651, 652, 684, 723, 724, 746, 749, 792, 793, 831, 832, 833, 834, 862, 865, 870, 872, 875, 888, 927, 936, 939, 940, 945, 965, 972, 973, 982, 983, 984, 996, 997, 998, 1009, 1015, 1021, 1055, 1067, 1085, 1103, 1112, 1136, 1146, 1165, 1166, 1169, 1174, 1175, 1178, 1184, 1186, 1194, 1199, 1205, 1311, 1514, 1621, 1626, 1631, 1636, 1652, 1664, 1688, 1689, 1740, 1748, 1756, 1774, 1787, 1798, 1889, 1902, 3080, 3094, 3095, 3098, 3100, 3102, 3103, 3104, 3107, 3108, 3111, 3113, 3114, 3115, 3116, 3120, 3122, 3533, 3534, 3537, 3538, 3560, 3561, 3605, 3606, 3608, 3614, 3618, 3627, 3628, 3630, 4345, 4360, 4380, 4393	\finalmem 3694
\external@font . 1695, 1696, 1702, 1704	\finalnun 3696
	\finalpe 3698
	\finaltsadi 3700
	\font 3538, 3627, 3628
	\font@name 1685, 1698, 1706, 3558
	\fontencoding 243, 1654, 1655, 1777, 1892, 2111, 2113, 2115, 2117, 2119, 2121,
F	
\F 3883, 4289	
\f@encoding 1680, 3555, 3557, 3623	

2123, 2125, 2127, 2129, 2131,	2663, 2665, 2667, 2669, 2671,
2133, 2135, 2137, 2139, 2141,	2673, 2675, 2677, 2679, 2681,
2143, 2145, 2147, 2149, 2151,	2683, 2685, 2687, 2689, 2691,
2153, 2155, 2157, 2159, 2161,	2693, 2695, 2697, 2699, 2701,
2163, 2165, 2167, 2169, 2171,	2703, 2705, 2707, 2709, 2711,
2173, 2175, 2177, 2179, 2181,	2713, 2715, 2717, 2719, 2721,
2183, 2185, 2187, 2189, 2191,	2723, 2725, 2727, 2729, 2731,
2193, 2195, 2197, 2199, 2201,	2733, 2735, 2737, 2739, 2741,
2203, 2205, 2207, 2209, 2211,	2743, 2745, 2747, 2749, 2751,
2213, 2215, 2217, 2219, 2221,	2753, 2755, 2757, 2759, 2761,
2223, 2225, 2227, 2229, 2231,	2763, 2765, 2767, 2769, 2771,
2233, 2235, 2237, 2239, 2241,	2773, 2775, 2777, 2779, 2781,
2243, 2245, 2247, 2249, 2251,	2783, 2785, 2787, 2789, 2791,
2253, 2255, 2257, 2259, 2261,	2793, 2795, 2797, 2799, 4399, 4409
2263, 2265, 2267, 2269, 2271,	<code>\foreignlanguage</code> 4401
2273, 2275, 2277, 2279, 2281,	<code>\futurelet</code> 59, 862, 875
2283, 2285, 2287, 2289, 2291,	
2293, 2295, 2297, 2299, 2301,	G
2303, 2305, 2307, 2309, 2311,	<code>\G</code> 1914
2313, 2315, 2317, 2319, 2321,	<code>\g@addto@macro</code> 792, 1659,
2323, 2325, 2327, 2329, 2331,	1660, 1661, 1662, 1663, 3608, 4389
2333, 2335, 2337, 2339, 2341,	<code>\gdef</code> 185, 655, 1055, 1067,
2343, 2345, 2347, 2349, 2351,	1085, 1679, 1689, 3561, 3573, 3613
2353, 2355, 2357, 2359, 2361,	<code>\geresh</code> 3670
2363, 2365, 2367, 2369, 2371,	<code>\gershayim</code> 3671
2373, 2375, 2377, 2379, 2381,	<code>\global</code> ... 129, 132, 408, 448, 471,
2383, 2385, 2387, 2389, 2391,	475, 476, 483, 503, 505, 522,
2393, 2395, 2397, 2399, 2401,	538, 555, 560, 570, 596, 628,
2403, 2405, 2407, 2409, 2411,	632, 635, 745, 774, 796, 858, 890
2413, 2415, 2417, 2419, 2421,	<code>graphics (option)</code> <u>155</u>
2423, 2425, 2427, 2429, 2431,	<code>\guillemotleft</code>
2433, 2435, 2437, 2439, 2441, 1319, 1959, 2831, 2963, 3893
2443, 2445, 2447, 2449, 2451,	<code>\guillemotright</code>
2453, 2455, 2457, 2459, 2461, 1336, 1960, 2832, 2964, 3894
2463, 2465, 2467, 2469, 2471,	<code>\guilsinglleft</code> 1961, 2833, 2965
2473, 2475, 2477, 2479, 2481,	<code>\guilsinglright</code> 1962, 2834, 2966
2483, 2485, 2487, 2489, 2491,	
2493, 2495, 2497, 2499, 2501,	H
2503, 2505, 2507, 2509, 2511,	<code>\H</code> 1915, 3875
2513, 2515, 2517, 2519, 2521,	<code>\hatafpatah</code> 3677
2523, 2525, 2527, 2529, 2531,	<code>\hatafqamats</code> 3678
2533, 2535, 2537, 2539, 2541,	<code>\hatafsegol</code> 3676
2543, 2545, 2547, 2549, 2551,	<code>\hbox</code> 223, 580
2553, 2555, 2557, 2559, 2561,	<code>\hebalef</code> 3638
2563, 2565, 2567, 2569, 2571,	<code>\hebaleflamed</code> 3672
2573, 2575, 2577, 2579, 2581,	<code>\hebayin</code> 3656
2583, 2585, 2587, 2589, 2591,	<code>\hebbet</code> 3639
2593, 2595, 2597, 2599, 2601,	<code>\hebdalet</code> 3641
2603, 2605, 2607, 2609, 2611,	<code>\hebfinalkaf</code> 3648
2613, 2615, 2617, 2619, 2621,	<code>\hebfinalmem</code> 3651
2623, 2625, 2627, 2629, 2631,	<code>\hebfinalnun</code> 3653
2633, 2635, 2637, 2639, 2641,	<code>\hebfinalpe</code> 3657
2643, 2645, 2647, 2649, 2651,	<code>\hebfinaltsadi</code> 3659
2653, 2655, 2657, 2659, 2661,	<code>\hebgimel</code> 3640

<code>\hebhe</code>	3642	86, 87, 102, 112, 120, 128, 145,
<code>\hebhet</code>	3645	150, 153, 164, 166, 170, 175,
<code>\hebkap</code>	3649	184, 208, 210, 246, 275, 284,
<code>\heblamed</code>	3650	285, 315, 316, 346, 373, 403,
<code>\hebmem</code>	3652	406, 436, 441, 447, 452, 471,
<code>\hebnun</code>	3654	472, 490, 498, 504, 510, 512,
<code>\hebpe</code>	3658	532, 536, 591, 592, 594, 601,
<code>\hehqof</code>	3661	605, 645, 670, 725, 730, 736,
<code>\hebreash</code>	3662	737, 756, 758, 759, 777, 786,
<code>\hebsamekh</code>	3655	789, 796, 797, 801, 815, 820,
<code>\hebshin</code>	3663	844, 864, 867, 868, 886, 901,
<code>\hebtav</code>	3664	904, 939, 942, 943, 944, 945,
<code>\hebtet</code>	3646	946, 949, 950, 956, 964, 971,
<code>\hebtsadi</code>	3660	1009, 1098, 1099, 1100, 1105,
<code>\hebvav</code>	3643	1133, 1145, 1155, 1156, 1157,
<code>\hebyod</code>	3647	1158, 1159, 1160, 1161, 1162,
<code>\hebzayin</code>	3644	1163, 1165, 1172, 1174, 1181,
<code>\hex</code>	211, 212, 216, 227, 228	1183, 1189, 1194, 1197, 1200,
<code>\hfont</code>	3630	1205, 1310, 1512, 1532, 1534,
<code>\hfontdef</code>	3617	1621, 1626, 1631, 1636, 1643,
<code>\hiriq</code>	3679	1646, 1682, 1686, 1688, 1695,
<code>\holam</code>	3686	1700, 1702, 1708, 1770, 1885,
<code>\hskip</code>	525	3080, 3087, 3088, 3089, 3090,
<code>\ht</code>	225	3091, 3094, 3107, 3496, 3497,
<code>\Hy@pdfstringtrue</code>	4417	3537, 3542, 3543, 3547, 3560,
<code>\HyPsd@expand@utfvii</code>	8	3605, 3623, 4342, 4358, 4359, 4393
I		
<code>\I</code>	1916	
<code>\i</code>	1537,	
	1538, 1539, 1963, 2835, 2967, 3888	
<code>\IeC</code>	87, 88, 668	
<code>\ifcase</code>	195, 1799, 3507, 3509, 3516, 3524	
<code>\ifeof</code>	76	
<code>\iffalse</code>	52, 91, 97	
<code>\IfFileExists</code>	73, 74, 83, 218, 222	
<code>\ifnum</code>	189, 190,	
	294, 298, 325, 329, 352, 356,	
	379, 383, 405, 487, 534, 588,	
	640, 681, 827, 849, 869, 922,	
	966, 974, 975, 985, 986, 987,	
	1001, 1032, 1045, 1047, 1056,	
	1068, 1107, 1108, 1110, 1118,	
	1769, 1790, 3511, 3519, 4361, 4424	
<code>\iftrue</code>	94, 245, 292, 323, 350, 377	
<code>\ifucshyper@direct</code>	4349, 4390	
<code>\ifucshyper@prerender</code>	4348, 4405	
<code>\ifUnicodeOptioncombine</code>	437	
<code>\ifUnicodeOptionfasterrors</code>	631	
<code>\ifUnicodeOptiongraphics</code>	180, 207	
<code>\ifUnicodeOptionsavemem</code>	552, 587	
<code>\ifUnicodeOptionwarnunknown</code>	727	
<code>\ifx</code>	6, 32, 33, 34, 35, 36, 37, 38, 39,	
	42, 54, 60, 62, 65, 72, 73, 81, 85,	
<code>\ifxx</code>	1532	
<code>\immediate</code>	220	
<code>\includegraphics</code>	225	
<code>\info</code>	629	
<code>\input</code>	83, 153, 179, 934,	
	1739, 1747, 1755, 1786, 1901, 3081	
<code>\inputencoding</code>	774, 775, 776	
<code>\inputencodingname</code>	932	
<code>\InputIfFileExists</code>	81, 82, 559, 572, 634, 644	
J		
<code>\j</code>	1917, 3889	
<code>\jischar</code>	1776, 1777, 1891, 1892	
K		
<code>\kaf</code>	3693	
<code>\klingona</code>	1909	
<code>\klingonb</code>	1910	
<code>\klingonch</code>	1911	
<code>\klingonD</code>	1912	
<code>\klingone</code>	1913	
<code>\klingoneight</code>	1943	
<code>\klingonfive</code>	1940	
<code>\klingonfour</code>	1939	
<code>\klingongh</code>	1914	
<code>\klingonglotstop</code>	1934	
<code>\klingonH</code>	1915	

<code>\klingonI</code>	1916	3867, 3868, 3869, 3870, 3871,
<code>\klingonj</code>	1917	3872, 3873, 3874, 3875, 3876,
<code>\klingonl</code>	1918	3877, 3878, 3879, 3880, 3881,
<code>\klingonm</code>	1919	3882, 3883, 3884, 3885, 3886,
<code>\klingonn</code>	1920	3887, 3888, 3889, 3890, 3891,
<code>\klingonng</code>	1921	3892, 3893, 3894, 3895, 3896,
<code>\klingonnine</code>	1944	3897, 3898, 3899, 3900, 3901,
<code>\klingono</code>	1922	3902, 3903, 3904, 3905, 3906,
<code>\klingonone</code>	1936	4196, 4197, 4198, 4199, 4200,
<code>\klingonp</code>	1923	4201, 4202, 4203, 4204, 4205,
<code>\klingonQ</code>	1925	4206, 4207, 4208, 4209, 4210,
<code>\klingonq</code>	1924	4211, 4212, 4213, 4214, 4215,
<code>\klingonr</code>	1926	4216, 4217, 4218, 4219, 4220,
<code>\klingonS</code>	1927	4221, 4222, 4223, 4224, 4225,
<code>\klingonseven</code>	1942	4226, 4227, 4228, 4229, 4230,
<code>\klingonsix</code>	1941	4231, 4232, 4233, 4234, 4235,
<code>\klingont</code>	1928	4236, 4237, 4238, 4239, 4240,
<code>\klingonthree</code>	1938	4241, 4242, 4243, 4244, 4245,
<code>\klingonthl</code>	1929	4246, 4247, 4248, 4249, 4250,
<code>\klingontwo</code>	1937	4251, 4252, 4253, 4254, 4255,
<code>\klingonu</code>	1930	4256, 4257, 4258, 4259, 4260,
<code>\klingonv</code>	1931	4261, 4262, 4263, 4264, 4265,
<code>\klingonw</code>	1932	4266, 4267, 4268, 4269, 4270,
<code>\klingony</code>	1933	4271, 4272, 4273, 4274, 4275,
<code>\klingonzero</code>	1935	4276, 4277, 4278, 4279, 4280,
<code>\KV@ucembedfont@start</code>	801	4281, 4282, 4283, 4284, 4285,
		4286, 4287, 4288, 4289, 4290,
		4291, 4292, 4293, 4294, 4295,
		4296, 4297, 4298, 4299, 4300,
		4301, 4302, 4303, 4304, 4305,
		4306, 4307, 4308, 4309, 4310,
		4311, 4312, 4313, 4314, 4315, 4316
		<code>\lastskip</code> 487
		<code>\lccode</code> . 270, 271, 1051, 1063, 1064,
		1080, 1081, 1082, 1093, 1094, 1109
		<code>\leavevmode</code> 854, 855
		<code>\let</code> . . 43, 52, 56, 63, 66, 68, 85, 86,
		91, 94, 97, 103, 105, 107, 163,
		183, 203, 249, 250, 251, 253,
		256, 400, 402, 403, 408, 436,
		448, 471, 475, 505, 538, 553,
		555, 560, 570, 572, 580, 584,
		586, 589, 593, 595, 596, 611,
		662, 732, 733, 745, 774, 789,
		796, 809, 810, 812, 858, 879,
		890, 893, 894, 910, 911, 912,
		914, 915, 916, 1011, 1016, 1026,
		1154, 1155, 1156, 1157, 1158,
		1159, 1160, 1161, 1162, 1191,
		1197, 1203, 1527, 1601, 1603,
		1605, 1607, 1644, 1647, 1649,
		1660, 1661, 1662, 1663, 1670,
		1671, 1726, 1740, 1748, 1756,
		1778, 1787, 1893, 1902, 3079,
L		
<code>\l</code>	1918	
<code>\LastDeclaredEncoding</code>	3574, 3575,	
	3747, 3748, 3749, 3750, 3751,	
	3752, 3753, 3754, 3755, 3756,	
	3757, 3758, 3759, 3760, 3761,	
	3762, 3763, 3764, 3765, 3766,	
	3767, 3768, 3769, 3770, 3771,	
	3772, 3773, 3774, 3775, 3776,	
	3777, 3778, 3779, 3780, 3781,	
	3782, 3783, 3784, 3785, 3786,	
	3787, 3788, 3789, 3790, 3791,	
	3792, 3793, 3794, 3795, 3796,	
	3797, 3798, 3799, 3800, 3801,	
	3802, 3803, 3804, 3805, 3806,	
	3807, 3808, 3809, 3810, 3811,	
	3812, 3813, 3814, 3815, 3816,	
	3817, 3818, 3819, 3820, 3821,	
	3822, 3823, 3824, 3825, 3826,	
	3827, 3828, 3829, 3830, 3831,	
	3832, 3833, 3834, 3835, 3836,	
	3837, 3838, 3839, 3840, 3841,	
	3842, 3843, 3844, 3845, 3846,	
	3847, 3848, 3849, 3850, 3851,	
	3852, 3853, 3854, 3855, 3856,	
	3857, 3858, 3859, 3860, 3861,	
	3862, 3863, 3864, 3865, 3866,	

<code>\newcommand</code>	1155,	1810, 1811, 1812, 1813, 1814,
	3087, 3088, 3089, 3090, 3093,	1815, 1816, 1817, 1818, 1819,
	3106, 3118, 4356, 4357, 4385, 4422	1820, 1821, 1822, 1823, 1824,
<code>\newcount</code>	204	1825, 1826, 1827, 1828, 1829,
<code>\newif</code>	51, 4348, 4349	1830, 1831, 1832, 1833, 1834,
<code>\newlinechar</code>	113, 121	1835, 1836, 1837, 1838, 1839,
<code>\newread</code>	72	1840, 1841, 1842, 1843, 1844,
<code>\newtoks</code>	466, 467, 468	1845, 1846, 1847, 1848, 1849,
<code>\next</code>	586, 589, 591, 593, 595, 598	1850, 1851, 1852, 1853, 1854,
<code>\NOBOUNDARY</code>	3649, 3652, 3654, 3658,	1855, 1856, 1857, 1858, 1859,
	3660, 3693, 3695, 3697, 3699, 3701	1860, 1861, 1862, 1863, 1864,
<code>\noexpand</code>	88,	1865, 1866, 1867, 1868, 1869,
	224, 225, 227, 266, 432, 458,	1870, 1871, 1872, 1873, 1874,
	507, 527, 646, 729, 735, 747,	1875, 1876, 1877, 1878, 1879,
	830, 850, 853, 854, 855, 1009,	1880, 1881, 1882, 3507, 3508,
	1011, 1012, 1013, 1015, 1018,	3509, 3510, 3516, 3517, 3524, 3525
	1019, 1020, 1021, 1022, 1027,	
	1028, 1029, 1039, 1137, 1138,	
	1139, 1140, 1141, 1771, 1886,	
	3098, 3100, 3101, 3102, 3103,	
	3111, 3113, 3114, 3115, 3120,	
	3121, 3613, 3615, 3616, 3617, 3628	
<code>\number</code>	217, 246, 258,	
	263, 278, 407, 409, 410, 417,	
	423, 455, 521, 527, 531, 537,	
	539, 541, 546, 594, 600, 602,	
	604, 605, 606, 608, 609, 636,	
	643, 644, 724, 744, 748, 818,	
	819, 823, 830, 850, 953, 996,	
	998, 1009, 1019, 1022, 1039,	
	1055, 1067, 1076, 1085, 1087,	
	1119, 1137, 1138, 1139, 1140,	
	1141, 1768, 1769, 1772, 1791,	
	1887, 3532, 3534, 4360, 4363,	
	4365, 4368, 4371, 4374, 4377,	
	4380, 4381, 4382, 4386, 4393, 4395	
<code>\nun</code>	3697	
O		
<code>\o</code>	1922	
<code>\old@unichar</code> ...	4391, 4394, 4407, 4410	
<code>\openin</code>	75	
<code>\optional@arg</code>	1705	
options:		
<code>combine</code>	161	
<code>default</code>	159	
<code>document</code>	157	
<code>fasterrors</code>	153	
<code>graphics</code>	155	
<code>savemem</code>	156	
<code>warnunknown</code>	154	
<code>\or</code>	195, 196,	1810, 1811, 1812, 1813, 1814,
	1800, 1801, 1802, 1803, 1804,	1815, 1816, 1817, 1818, 1819,
	1805, 1806, 1807, 1808, 1809,	1820, 1821, 1822, 1823, 1824,
		1825, 1826, 1827, 1828, 1829,
		1830, 1831, 1832, 1833, 1834,
		1835, 1836, 1837, 1838, 1839,
		1840, 1841, 1842, 1843, 1844,
		1845, 1846, 1847, 1848, 1849,
		1850, 1851, 1852, 1853, 1854,
		1855, 1856, 1857, 1858, 1859,
		1860, 1861, 1862, 1863, 1864,
		1865, 1866, 1867, 1868, 1869,
		1870, 1871, 1872, 1873, 1874,
		1875, 1876, 1877, 1878, 1879,
		1880, 1881, 1882, 3507, 3508,
		3509, 3510, 3516, 3517, 3524, 3525
P		
<code>\P</code>	271, 1094	
<code>\p</code>	1923	
<code>\p@</code>	1703	
<code>\PackageError</code> ..	112, 116, 146, 455,	
	463, 573, 734, 844, 946, 953,	
	958, 1660, 1724, 3095, 3108, 4362	
<code>\PackageNoteNoLine</code>	906	
<code>\PackageWarning</code>		
 120, 124, 233, 415, 422,	
	491, 545, 728, 760, 1087, 1119, 4343	
<code>\parse@UTFviii@a</code>	911, 915	
<code>\parse@UTFviii@b</code>	912, 916	
<code>\parse@XML@charref</code>	910, 914, 923	
<code>\patach</code>	3691	
<code>\patah</code>	3682	
<code>\path</code>	211, 216, 222, 226	
<code>\pdfoutput</code>	4342	
<code>\pdfstringdef</code>	4403, 4404	
<code>\pdfstringdefPreHook</code>	4388, 4389	
<code>\pe</code>	3699	
<code>\perthousand</code>	3887	
<code>\PreloadUnicodePage</code>	458, 568	
<code>\PrerenderUnicode</code>	575, 4418	
<code>\PrintUnicodeName</code>	658	
<code>\ProcessOptions</code> ..	173, 794, 1665, 4354	
<code>\protect</code>	85,	
	87, 181, 498, 510, 614, 616, 618,	
	620, 622, 624, 670, 721, 947, 3608	
<code>\protected</code>	843, 919, 1008, 1038	
<code>\providecommand</code>		
 1155, 3554, 3559, 3912, 4322	
<code>\ProvidesFile</code>		
	... 227, 901, 902, 1133, 1134,	
	1677, 1736, 1744, 1752, 1783,	
	1898, 1906, 1948, 1956, 2090,	
	2096, 2103, 2803, 2811, 2819,	

2828, 2945, 2951, 2958, 3070, 3379, 3476, 3482, 3488, 3550, 3586, 3592, 3598, 3706, 3717, 3727, 3734, 3745, 3910, 4194, 4320	
\ProvidesPackage	
..... 150, 151, 787, 1599, 4340	
\ProvideTextCommand	1605, 1606
\ProvideTextCommandDefault	
..... 1198, 3440, 3441	
Q	
\Q	1925
\q	1924
\qamats	3683
\qubuts	3684
\quotedblbase ..	1964, 2836, 2968, 3892
\quotesinglbase	1965, 2837, 2969
R	
\r	1926, 3876
\relax	43, 85, 86, 103, 145, 183, 184, 185, 188, 190, 197, 213, 214, 246, 250, 253, 285, 316, 402, 403, 405, 407, 436, 532, 533, 534, 537, 564, 584, 592, 594, 605, 627, 642, 674, 676, 677, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 711, 714, 718, 719, 720, 724, 732, 740, 753, 796, 797, 849, 921, 925, 939, 945, 950, 957, 963, 967, 968, 969, 976, 977, 978, 979, 980, 994, 1000, 1001, 1009, 1013, 1023, 1026, 1031, 1032, 1040, 1044, 1045, 1047, 1048, 1049, 1056, 1057, 1069, 1100, 1127, 1137, 1138, 1139, 1140, 1141, 1150, 1165, 1174, 1194, 1195, 1196, 1688, 3094, 3107, 3531, 3537, 3560, 3605, 4358, 4393, 4423, 4424, 4426
\repeat	198, 838, 852, 1024, 1041, 1117, 4427
\RequirePackage	172, 180, 788, 799, 950, 1659, 3603, 4346
\reserved@a	57, 66, 76, 77, 79, 675, 706, 712, 713, 715, 717
\reserved@b	58, 68, 678, 680, 684
\reserved@c	63, 66, 68, 71, 682, 703, 704, 705, 707, 708, 709, 710, 711, 714, 716
\reserved@d	56, 65
\restore@utf@viii@actives	759, 779, 1025, 1122
S	
\S	1927
savemem (option)	156
\segol	3681
\selectfont	
. 1654, 1655, 1771, 1886, 2111, 2113, 2115, 2117, 2119, 2121, 2123, 2125, 2127, 2129, 2131, 2133, 2135, 2137, 2139, 2141, 2143, 2145, 2147, 2149, 2151, 2153, 2155, 2157, 2159, 2161, 2163, 2165, 2167, 2169, 2171, 2173, 2175, 2177, 2179, 2181, 2183, 2185, 2187, 2189, 2191, 2193, 2195, 2197, 2199, 2201, 2203, 2205, 2207, 2209, 2211, 2213, 2215, 2217, 2219, 2221, 2223, 2225, 2227, 2229, 2231, 2233, 2235, 2237, 2239, 2241, 2243, 2245, 2247, 2249, 2251, 2253, 2255, 2257, 2259, 2261, 2263, 2265, 2267, 2269, 2271, 2273, 2275, 2277, 2279, 2281, 2283, 2285, 2287, 2289, 2291, 2293, 2295, 2297, 2299, 2301, 2303, 2305, 2307, 2309, 2311, 2313, 2315, 2317, 2319, 2321, 2323, 2325, 2327, 2329, 2331, 2333, 2335, 2337, 2339, 2341, 2343, 2345, 2347, 2349, 2351, 2353, 2355, 2357, 2359, 2361, 2363, 2365, 2367, 2369, 2371, 2373, 2375, 2377, 2379, 2381, 2383, 2385, 2387, 2389, 2391, 2393, 2395, 2397, 2399, 2401, 2403, 2405, 2407, 2409, 2411, 2413, 2415, 2417, 2419, 2421, 2423, 2425, 2427, 2429, 2431, 2433, 2435, 2437, 2439, 2441, 2443, 2445, 2447, 2449, 2451, 2453, 2455, 2457, 2459, 2461, 2463, 2465, 2467, 2469, 2471, 2473, 2475, 2477, 2479, 2481, 2483, 2485, 2487, 2489, 2491, 2493, 2495, 2497, 2499, 2501, 2503, 2505, 2507, 2509, 2511, 2513, 2515, 2517, 2519, 2521, 2523, 2525, 2527, 2529, 2531, 2533, 2535, 2537, 2539, 2541, 2543, 2545, 2547, 2549, 2551, 2553, 2555, 2557, 2559, 2561, 2563, 2565, 2567, 2569, 2571, 2573, 2575, 2577, 2579, 2581, 2583, 2585, 2587, 2589, 2591,	

<code>\tengwarPusta</code>	3434	<code>\textbhook</code>	1544
<code>\tengwarQuesse</code>	3385	<code>\textbraceleft</code>	1970, 2842, 2974
<code>\tengwarQuestion</code>	3437	<code>\textbraceright</code>	1971, 2843, 2975
<code>\tengwarRightCurl</code>	3460	<code>\textChi</code>	1275, 1521
<code>\tengwarRightCurlBelow</code>	3470	<code>\textchi</code>	1307, 1521
<code>\tengwarRoomen</code>	3406	<code>\textChook</code>	1575
<code>\tengwarSection</code>	3438	<code>\textchook</code>	1576
<code>\tengwarSeven</code>	3447	<code>\textDafrican</code>	1557
<code>\tengwarShortCarrier</code>	3419	<code>\textdasia</code>	1254, 1323, 1340, 1356, 1372, 1388, 1392, 1412, 1416, 1436, 1444, 1454, 1462, 1472, 1482, 1489, 1496, 1511
<code>\tengwarSilme</code>	3410	<code>\textdasiaiota</code>	1323, 1504
<code>\tengwarSilmeNuquerna</code>	3411	<code>\textdasiaoxia</code>	1280, 1329, 1345, 1362, 1377, 1396, 1400, 1420, 1424, 1448, 1458, 1466, 1476, 1486, 1491, 1500
<code>\tengwarSix</code>	3446	<code>\textdasiaoxiaiota</code>	1329, 1508
<code>\tengwarStemlessAnna</code>	3432	<code>\textdasiaperispomeni</code>	1258, 1332, 1350, 1367, 1382, 1404, 1408, 1450, 1468, 1478, 1492, 1502
<code>\tengwarStemlessOore</code>	3430, 3440	<code>\textdasiaperispomeniiaota</code>	1332, 1510
<code>\tengwarStemlessVala</code>	3431	<code>\textdasiavaria</code>	1261, 1327, 1342, 1364, 1374, 1390, 1394, 1414, 1418, 1446, 1456, 1464, 1474, 1484, 1490, 1498
<code>\tengwarStemlessVilya</code>	3433, 3441	<code>\textdasiavariaiaota</code>	1327, 1506
<code>\tengwarTen</code>	3450	<code>\textdblgravecmb</code>	1592
<code>\tengwarThree</code>	3443	<code>\textDelta</code>	1262, 1516
<code>\tengwarThreeDotsAbove</code>	3452	<code>\textdelta</code>	1294, 1516
<code>\tengwarThreeDotsBelow</code>	3453	<code>\textdevanagaria</code>	1986
<code>\tengwarThuule</code>	3390	<code>\textdevanagariaa</code>	1987
<code>\tengwarTilde</code>	3466	<code>\textdevanagariabbreviation</code>	2086
<code>\tengwarTinco</code>	3382	<code>\textdevanagariai</code>	1997
<code>\tengwarTwo</code>	3442	<code>\textdevanagarianudatta</code>	2059
<code>\tengwarTwoDotsAbove</code>	3454	<code>\textdevanagarianusvara</code>	1984
<code>\tengwarTwoDotsBelow</code>	3455	<code>\textdevanagariau</code>	2001
<code>\tengwarUmbar</code>	3387	<code>\textdevanagariavagraha</code>	2040
<code>\tengwarUngwe</code>	3389	<code>\textdevanagariba</code>	2025
<code>\tengwarUnque</code>	3397	<code>\textdevanagaribha</code>	2026
<code>\tengwarUure</code>	3417	<code>\textdevanagarica</code>	2007
<code>\tengwarVala</code>	3403	<code>\textdevanagaricandrabindu</code>	1983
<code>\tengwarVilya</code>	3405	<code>\textdevanagaricandrae</code>	1994
<code>\tengwarYanta</code>	3416	<code>\textdevanagaricandrao</code>	1998
<code>\tengwarZero</code>	3440	<code>\textdevanagaricha</code>	2008
<code>\textAlpha</code>	1259, 1333, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1516	<code>\textdevanagarida</code>	2019
<code>\textalpha</code>	1291, 1339, 1340, 1341, 1342, 1344, 1345, 1346, 1347, 1349, 1350, 1351, 1516	<code>\textdevanagaridanda</code>	2074
<code>\textanoteleia</code>	1253	<code>\textdevanagaridanda</code>	2014
<code>\textaristerikeraia</code>	1440	<code>\textdevanagariddha</code>	2066
<code>\textasciicircum</code>	1198, 1202, 1205, 1212, 1534, 2108, 2109, 3125, 3574, 3690	<code>\textdevanagariddha</code>	2015
<code>\textasciicircum</code>	1966, 2838, 2970	<code>\textdevanagaridha</code>	2020
<code>\textasciientilde</code>	1201, 1202	<code>\textdevanagaridoubledanda</code>	2075
<code>\textasciitilde</code>	1967, 2839, 2971	<code>\textdevanagarie</code>	1996
<code>\textautosigma</code>	1309, 1523	<code>\textdevanagariel</code>	2084
<code>\textbackslash</code>	1968, 2840, 2972		
<code>\textbaht</code>	2913		
<code>\textbar</code>	1969, 2841, 2973		
<code>\textBeta</code>	1260, 1516		
<code>\textbeta</code>	1292, 1516		
<code>\textBhook</code>	1545		

<code>\textdevanagarifa</code>	2068	<code>\textdevanagarivocalicll</code>	2071
<code>\textdevanagarifive</code>	2081	<code>\textdevanagarivocalicr</code>	1992
<code>\textdevanagarifour</code>	2080	<code>\textdevanagarivocalicrr</code>	2070
<code>\textdevanagariga</code>	2004	<code>\textdevanagarivowelaa</code>	2041
<code>\textdevanagarigha</code>	2005	<code>\textdevanagarivowelai</code>	2051
<code>\textdevanagarighha</code>	2064	<code>\textdevanagarivowelau</code>	2055
<code>\textdevanagariha</code>	2038	<code>\textdevanagarivowelcandrae</code>	2048
<code>\textdevanagarii</code>	1988	<code>\textdevanagarivowelcandrao</code>	2052
<code>\textdevanagariii</code>	1989	<code>\textdevanagarivowele</code>	2050
<code>\textdevanagarija</code>	2009	<code>\textdevanagarivoweli</code>	2042
<code>\textdevanagarijha</code>	2010	<code>\textdevanagarivowelii</code>	2043
<code>\textdevanagarika</code>	2002	<code>\textdevanagarivowelo</code>	2054
<code>\textdevanagarikha</code>	2003	<code>\textdevanagarivowelshorte</code>	2049
<code>\textdevanagarikhha</code>	2063	<code>\textdevanagarivowelshorto</code>	2053
<code>\textdevanagarila</code>	2031	<code>\textdevanagarivowelu</code>	2044
<code>\textdevanagarilla</code>	2032	<code>\textdevanagarivoweluu</code>	2045
<code>\textdevanagarillla</code>	2033	<code>\textdevanagarivowelvocalicl</code>	2072
<code>\textdevanagarima</code>	2027	<code>\textdevanagarivowelvocalicll</code>	2073
<code>\textdevanagarina</code>	2021	<code>\textdevanagarivowelvocalicr</code>	2046
<code>\textdevanagaringa</code>	2006	<code>\textdevanagarivowelvocalicrr</code>	2047
<code>\textdevanagarinine</code>	2085	<code>\textdevanagariya</code>	2028
<code>\textdevanagarinna</code>	2016	<code>\textdevanagariyya</code>	2069
<code>\textdevanagarinnna</code>	2022	<code>\textdevanagariza</code>	2065
<code>\textdevanagarinukta</code>	2039	<code>\textdevanagarizero</code>	2076
<code>\textdevanagarinya</code>	2011	<code>\textdexiakeraia</code>	1439
<code>\textdevanagario</code>	2000	<code>\textDhook</code>	1547
<code>\textdevanagariom</code>	2057	<code>\textdhook</code>	1546
<code>\textdevanagarione</code>	2077	<code>\textdialytikaoxia</code>	1237
<code>\textdevanagaripa</code>	2023	<code>\textdialytikaperispomeni</code>	1233, 1430, 1434
<code>\textdevanagaripha</code>	2024	<code>\textdialytikatonos</code>	1236, 1237, 1429, 1433
<code>\textdevanagariqa</code>	2062	<code>\textdialytikavaria</code>	1238, 1428, 1432
<code>\textdevanagaririra</code>	2029	<code>\textDigamma</code>	1384, 1526
<code>\textdevanagarirha</code>	2067	<code>\textdigamma</code>	1352, 1526
<code>\textdevanagarirra</code>	2030	<code>\textdollar</code>	1972, 2844, 2976
<code>\textdevanagarisa</code>	2037	<code>\textdtail</code>	1558
<code>\textdevanagariseven</code>	2083	<code>\textemdash</code>	1338, 1973, 2845, 2977
<code>\textdevanagarisha</code>	2035	<code>\textendash</code>	1974, 2846, 2978
<code>\textdevanagarishorte</code>	1995	<code>\textEopen</code>	1549, 1586
<code>\textdevanagarishorto</code>	1999	<code>\texteopen</code>	1548, 1587
<code>\textdevanagarisix</code>	2082	<code>\textEpsilon</code>	1263, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1517
<code>\textdevanagarissa</code>	2036	<code>\textepsilon</code>	1295, 1411, 1412, 1413, 1414, 1419, 1420, 1421, 1422, 1517
<code>\textdevanagarita</code>	2017	<code>\textEreversed</code>	1552
<code>\textdevanagaritha</code>	2018	<code>\textEsh</code>	1569
<code>\textdevanagarithree</code>	2079	<code>\textesh</code>	1570
<code>\textdevanagarittha</code>	2012	<code>\textEta</code>	1266, 1334, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1518
<code>\textdevanagarittha</code>	2013	<code>\texteta</code>	1298, 1355, 1356, 1357, 1361, 1362, 1363, 1364, 1366, 1367, 1368, 1369, 1518
<code>\textdevanagaritwo</code>	2078		
<code>\textdevanagariu</code>	1990		
<code>\textdevanagariudatta</code>	2058		
<code>\textdevanagariuu</code>	1991		
<code>\textdevanagariva</code>	2034		
<code>\textdevanagarivirama</code>	2056		
<code>\textdevanagarivisarga</code>	1985		
<code>\textdevanagarivocalicl</code>	1993		

<code>\textethiopicba</code>	2284, 2285	<code>\textethiopicfu</code>	2708, 2709
<code>\textethiopicbaa</code>	2290, 2291	<code>\textethiopicfullstop</code>	2746, 2747
<code>\textethiopicbe</code>	2294, 2295	<code>\textethiopicfwa</code>	2720, 2721
<code>\textethiopicbee</code>	2292, 2293	<code>\textethiopicfya</code>	2742, 2743
<code>\textethiopicbi</code>	2288, 2289	<code>\textethiopicga</code>	2590, 2591
<code>\textethiopicbo</code>	2296, 2297	<code>\textethiopicgaa</code>	2596, 2597
<code>\textethiopicbu</code>	2286, 2287	<code>\textethiopicge</code>	2600, 2601
<code>\textethiopicbwa</code>	2298, 2299	<code>\textethiopicgee</code>	2598, 2599
<code>\textethiopicca</code>	2332, 2333	<code>\textethiopicgga</code>	2614, 2615
<code>\textethiopiccaa</code>	2338, 2339	<code>\textethiopicggaa</code>	2620, 2621
<code>\textethiopicce</code>	2342, 2343	<code>\textethiopicgge</code>	2624, 2625
<code>\textethiopiccee</code>	2340, 2341	<code>\textethiopicggee</code>	2622, 2623
<code>\textethiopiccha</code>	2644, 2645	<code>\textethiopicggi</code>	2618, 2619
<code>\textethiopicchaa</code>	2650, 2651	<code>\textethiopicggo</code>	2626, 2627
<code>\textethiopicche</code>	2654, 2655	<code>\textethiopicggu</code>	2616, 2617
<code>\textethiopicchee</code>	2652, 2653	<code>\textethiopicgi</code>	2594, 2595
<code>\textethiopicchi</code>	2648, 2649	<code>\textethiopicglottala</code>	2404, 2405
<code>\textethiopiccho</code>	2656, 2657	<code>\textethiopicglottalaa</code>	2410, 2411
<code>\textethiopicchu</code>	2646, 2647	<code>\textethiopicglottale</code>	2414, 2415
<code>\textethiopicchwa</code>	2658, 2659	<code>\textethiopicglottalee</code>	2412, 2413
<code>\textethiopicci</code>	2336, 2337	<code>\textethiopicglottali</code>	2408, 2409
<code>\textethiopicco</code>	2344, 2345	<code>\textethiopicglottalo</code>	2416, 2417
<code>\textethiopiccolon</code>	2752, 2753	<code>\textethiopicglottalu</code>	2406, 2407
<code>\textethiopiccomma</code>	2748, 2749	<code>\textethiopicglottalwa</code>	2418, 2419
<code>\textethiopiccu</code>	2334, 2335	<code>\textethiopicgo</code>	2602, 2603
<code>\textethiopiccwa</code>	2346, 2347	<code>\textethiopicgu</code>	2592, 2593
<code>\textethiopicda</code>	2542, 2543	<code>\textethiopicgwa</code>	2604, 2605
<code>\textethiopicdaa</code>	2548, 2549	<code>\textethiopicgwa</code>	2608, 2609
<code>\textethiopicdda</code>	2558, 2559	<code>\textethiopicgwe</code>	2612, 2613
<code>\textethiopicddaa</code>	2564, 2565	<code>\textethiopicgwee</code>	2610, 2611
<code>\textethiopicdde</code>	2568, 2569	<code>\textethiopicgwi</code>	2606, 2607
<code>\textethiopicddee</code>	2566, 2567	<code>\textethiopiccha</code>	2110, 2111
<code>\textethiopicddi</code>	2562, 2563	<code>\textethiopicchaa</code>	2116, 2117
<code>\textethiopicddo</code>	2570, 2571	<code>\textethiopicche</code>	2120, 2121
<code>\textethiopicddu</code>	2560, 2561	<code>\textethiopicchee</code>	2118, 2119
<code>\textethiopicddwa</code>	2572, 2573	<code>\textethiopicchha</code>	2140, 2141
<code>\textethiopicde</code>	2552, 2553	<code>\textethiopicchhaa</code>	2146, 2147
<code>\textethiopicdee</code>	2550, 2551	<code>\textethiopicchhe</code>	2150, 2151
<code>\textethiopicdi</code>	2546, 2547	<code>\textethiopicchhee</code>	2148, 2149
<code>\textethiopicdo</code>	2554, 2555	<code>\textethiopicchhi</code>	2144, 2145
<code>\textethiopicdu</code>	2544, 2545	<code>\textethiopicchho</code>	2152, 2153
<code>\textethiopicdwa</code>	2556, 2557	<code>\textethiopicchhu</code>	2142, 2143
<code>\textethiopiceight</code>	2774, 2775	<code>\textethiopicchhwa</code>	2154, 2155
<code>\textethiopiceighty</code>	2792, 2793	<code>\textethiopicchi</code>	2114, 2115
<code>\textethiopicfa</code>	2706, 2707	<code>\textethiopiccho</code>	2122, 2123
<code>\textethiopicfaa</code>	2712, 2713	<code>\textethiopicchu</code>	2112, 2113
<code>\textethiopicfe</code>	2716, 2717	<code>\textethiopicchundred</code>	2796, 2797
<code>\textethiopicfee</code>	2714, 2715	<code>\textethiopicja</code>	2574, 2575
<code>\textethiopicfi</code>	2710, 2711	<code>\textethiopicjaa</code>	2580, 2581
<code>\textethiopicfifty</code>	2786, 2787	<code>\textethiopicje</code>	2584, 2585
<code>\textethiopicfive</code>	2768, 2769	<code>\textethiopicjee</code>	2582, 2583
<code>\textethiopicfo</code>	2718, 2719	<code>\textethiopicji</code>	2578, 2579
<code>\textethiopicforty</code>	2784, 2785	<code>\textethiopicjo</code>	2586, 2587
<code>\textethiopicfour</code>	2766, 2767	<code>\textethiopicju</code>	2576, 2577

<code>\textethiopicjwa</code>	2588, 2589	<code>\textethiopicnye</code>	2398, 2399
<code>\textethiopicka</code>	2420, 2421	<code>\textethiopicnyee</code>	2396, 2397
<code>\textethiopickaa</code>	2426, 2427	<code>\textethiopicnyi</code>	2392, 2393
<code>\textethiopicke</code>	2430, 2431	<code>\textethiopicnyo</code>	2400, 2401
<code>\textethiopickee</code>	2428, 2429	<code>\textethiopicnyu</code>	2390, 2391
<code>\textethiopicki</code>	2424, 2425	<code>\textethiopicnywa</code>	2402, 2403
<code>\textethiopicko</code>	2432, 2433	<code>\textethiopicone</code>	2760, 2761
<code>\textethiopicku</code>	2422, 2423	<code>\textethiopicpa</code>	2722, 2723
<code>\textethiopickwa</code>	2434, 2435	<code>\textethiopicpaa</code>	2728, 2729
<code>\textethiopickwa</code>	2438, 2439	<code>\textethiopicparagraph</code>	2758, 2759
<code>\textethiopickwe</code>	2442, 2443	<code>\textethiopicpe</code>	2732, 2733
<code>\textethiopickwee</code>	2440, 2441	<code>\textethiopicpee</code>	2730, 2731
<code>\textethiopickwi</code>	2436, 2437	<code>\textethiopicpha</code>	2660, 2661
<code>\textethiopickxa</code>	2444, 2445	<code>\textethiopicphaa</code>	2666, 2667
<code>\textethiopicxaa</code>	2450, 2451	<code>\textethiopicpharyngeala</code>	2482, 2483
<code>\textethiopicxke</code>	2454, 2455	<code>\textethiopicpharyngealaa</code>	2488, 2489
<code>\textethiopicxee</code>	2452, 2453	<code>\textethiopicpharyngeale</code>	2492, 2493
<code>\textethiopicxki</code>	2448, 2449	<code>\textethiopicpharyngealee</code>	2490, 2491
<code>\textethiopickxo</code>	2456, 2457	<code>\textethiopicpharyngeali</code>	2486, 2487
<code>\textethiopickxu</code>	2446, 2447	<code>\textethiopicpharyngealo</code>	2494, 2495
<code>\textethiopickxwa</code>	2458, 2459	<code>\textethiopicpharyngealu</code>	2484, 2485
<code>\textethiopickxwaa</code>	2462, 2463	<code>\textethiopicphe</code>	2670, 2671
<code>\textethiopickxwe</code>	2466, 2467	<code>\textethiopicphee</code>	2668, 2669
<code>\textethiopickxwee</code>	2464, 2465	<code>\textethiopicphi</code>	2664, 2665
<code>\textethiopickxwi</code>	2460, 2461	<code>\textethiopicpho</code>	2672, 2673
<code>\textethiopicla</code>	2124, 2125	<code>\textethiopicphu</code>	2662, 2663
<code>\textethiopiclaa</code>	2130, 2131	<code>\textethiopicphwa</code>	2674, 2675
<code>\textethiopicle</code>	2134, 2135	<code>\textethiopicpi</code>	2726, 2727
<code>\textethiopiclee</code>	2132, 2133	<code>\textethiopicpo</code>	2734, 2735
<code>\textethiopicli</code>	2128, 2129	<code>\textethiopicprefacecolon</code>	2754, 2755
<code>\textethiopiclo</code>	2136, 2137	<code>\textethiopicpu</code>	2724, 2725
<code>\textethiopiclu</code>	2126, 2127	<code>\textethiopicpwa</code>	2736, 2737
<code>\textethiopiclwa</code>	2138, 2139	<code>\textethiopicqa</code>	2236, 2237
<code>\textethiopicma</code>	2156, 2157	<code>\textethiopicqaa</code>	2242, 2243
<code>\textethiopicmaa</code>	2162, 2163	<code>\textethiopicqce</code>	2246, 2247
<code>\textethiopicme</code>	2166, 2167	<code>\textethiopicqee</code>	2244, 2245
<code>\textethiopicmee</code>	2164, 2165	<code>\textethiopicqha</code>	2260, 2261
<code>\textethiopicmi</code>	2160, 2161	<code>\textethiopicqhaa</code>	2266, 2267
<code>\textethiopicmo</code>	2168, 2169	<code>\textethiopicqhe</code>	2270, 2271
<code>\textethiopicmu</code>	2158, 2159	<code>\textethiopicqhee</code>	2268, 2269
<code>\textethiopicmwa</code>	2170, 2171	<code>\textethiopicqhi</code>	2264, 2265
<code>\textethiopicmya</code>	2740, 2741	<code>\textethiopicqho</code>	2272, 2273
<code>\textethiopicna</code>	2372, 2373	<code>\textethiopicqhu</code>	2262, 2263
<code>\textethiopicnaa</code>	2378, 2379	<code>\textethiopicqhwa</code>	2274, 2275
<code>\textethiopicne</code>	2382, 2383	<code>\textethiopicqhwa</code>	2278, 2279
<code>\textethiopicnee</code>	2380, 2381	<code>\textethiopicqhwe</code>	2282, 2283
<code>\textethiopicni</code>	2376, 2377	<code>\textethiopicqhwee</code>	2280, 2281
<code>\textethiopicnine</code>	2776, 2777	<code>\textethiopicqhwi</code>	2276, 2277
<code>\textethiopicninety</code>	2794, 2795	<code>\textethiopicqi</code>	2240, 2241
<code>\textethiopicno</code>	2384, 2385	<code>\textethiopicqo</code>	2248, 2249
<code>\textethiopicnu</code>	2374, 2375	<code>\textethiopicqu</code>	2238, 2239
<code>\textethiopicnwa</code>	2386, 2387	<code>\textethiopicquestionmark</code>	2756, 2757
<code>\textethiopicnya</code>	2388, 2389	<code>\textethiopicqwa</code>	2250, 2251
<code>\textethiopicnyaa</code>	2394, 2395	<code>\textethiopicqwaa</code>	2254, 2255

<code>\textethiopicqwe</code>	2258, 2259	<code>\textethiopicthree</code>	2764, 2765
<code>\textethiopicqwee</code>	2256, 2257	<code>\textethiopicthu</code>	2630, 2631
<code>\textethiopicqwi</code>	2252, 2253	<code>\textethiopicthwa</code>	2642, 2643
<code>\textethiopicra</code>	2188, 2189	<code>\textethiopicthi</code>	2320, 2321
<code>\textethiopicraa</code>	2194, 2195	<code>\textethiopictho</code>	2328, 2329
<code>\textethiopicre</code>	2198, 2199	<code>\textethiopictsa</code>	2676, 2677
<code>\textethiopicree</code>	2196, 2197	<code>\textethiopictsaa</code>	2682, 2683
<code>\textethiopicri</code>	2192, 2193	<code>\textethiopicctse</code>	2686, 2687
<code>\textethiopicro</code>	2200, 2201	<code>\textethiopicctsee</code>	2684, 2685
<code>\textethiopicru</code>	2190, 2191	<code>\textethiopicctsi</code>	2680, 2681
<code>\textethiopicrwa</code>	2202, 2203	<code>\textethiopicctso</code>	2688, 2689
<code>\textethiopicrya</code>	2738, 2739	<code>\textethiopicctsu</code>	2678, 2679
<code>\textethiopicsa</code>	2204, 2205	<code>\textethiopicctswa</code>	2690, 2691
<code>\textethiopicsaa</code>	2210, 2211	<code>\textethiopicctu</code>	2318, 2319
<code>\textethiopicse</code>	2214, 2215	<code>\textethiopicctwa</code>	2330, 2331
<code>\textethiopicsee</code>	2212, 2213	<code>\textethiopicctwenty</code>	2780, 2781
<code>\textethiopicsemicolon</code>	2750, 2751	<code>\textethiopicctwo</code>	2762, 2763
<code>\textethiopicseven</code>	2772, 2773	<code>\textethiopicctza</code>	2692, 2693
<code>\textethiopicseventy</code>	2790, 2791	<code>\textethiopicctzaa</code>	2698, 2699
<code>\textethiopicsha</code>	2220, 2221	<code>\textethiopicctze</code>	2702, 2703
<code>\textethiopicshaa</code>	2226, 2227	<code>\textethiopicctzee</code>	2700, 2701
<code>\textethiopicshe</code>	2230, 2231	<code>\textethiopicctzi</code>	2696, 2697
<code>\textethiopicshee</code>	2228, 2229	<code>\textethiopicctzo</code>	2704, 2705
<code>\textethiopicshi</code>	2224, 2225	<code>\textethiopicctzu</code>	2694, 2695
<code>\textethiopicsho</code>	2232, 2233	<code>\textethiopiccva</code>	2300, 2301
<code>\textethiopicshu</code>	2222, 2223	<code>\textethiopiccva</code>	2306, 2307
<code>\textethiopicshwa</code>	2234, 2235	<code>\textethiopiccve</code>	2310, 2311
<code>\textethiopicsi</code>	2208, 2209	<code>\textethiopiccvee</code>	2308, 2309
<code>\textethiopicsix</code>	2770, 2771	<code>\textethiopiccvi</code>	2304, 2305
<code>\textethiopicsixty</code>	2788, 2789	<code>\textethiopiccvo</code>	2312, 2313
<code>\textethiopicso</code>	2216, 2217	<code>\textethiopiccvu</code>	2302, 2303
<code>\textethiopicsu</code>	2206, 2207	<code>\textethiopiccwa</code>	2314, 2315
<code>\textethiopicswa</code>	2218, 2219	<code>\textethiopiccwa</code>	2468, 2469
<code>\textethiopicsza</code>	2172, 2173	<code>\textethiopiccwa</code>	2474, 2475
<code>\textethiopicszaa</code>	2178, 2179	<code>\textethiopiccwe</code>	2478, 2479
<code>\textethiopicsze</code>	2182, 2183	<code>\textethiopiccwee</code>	2476, 2477
<code>\textethiopicszee</code>	2180, 2181	<code>\textethiopiccwi</code>	2472, 2473
<code>\textethiopicszi</code>	2176, 2177	<code>\textethiopiccwo</code>	2480, 2481
<code>\textethiopicszo</code>	2184, 2185	<code>\textethiopicwordspace</code>	2744, 2745
<code>\textethiopicszu</code>	2174, 2175	<code>\textethiopiccwu</code>	2470, 2471
<code>\textethiopicszwa</code>	2186, 2187	<code>\textethiopiccxa</code>	2348, 2349
<code>\textethiopicta</code>	2316, 2317	<code>\textethiopiccxa</code>	2354, 2355
<code>\textethiopictaa</code>	2322, 2323	<code>\textethiopiccxe</code>	2358, 2359
<code>\textethiopicte</code>	2326, 2327	<code>\textethiopiccxe</code>	2356, 2357
<code>\textethiopictee</code>	2324, 2325	<code>\textethiopiccxi</code>	2352, 2353
<code>\textethiopicten</code>	2778, 2779	<code>\textethiopiccxo</code>	2360, 2361
<code>\textethiopicthousand</code>	2798, 2799	<code>\textethiopiccxu</code>	2350, 2351
<code>\textethiopictha</code>	2628, 2629	<code>\textethiopiccxwa</code>	2362, 2363
<code>\textethiopicthaa</code>	2634, 2635	<code>\textethiopiccxwaa</code>	2366, 2367
<code>\textethiopicthe</code>	2638, 2639	<code>\textethiopiccxwe</code>	2370, 2371
<code>\textethiopicthee</code>	2636, 2637	<code>\textethiopiccxwee</code>	2368, 2369
<code>\textethiopicthi</code>	2632, 2633	<code>\textethiopiccxwi</code>	2364, 2365
<code>\textethiopicthirty</code>	2782, 2783	<code>\textethiopiccy</code>	2528, 2529
<code>\textethiopictho</code>	2640, 2641	<code>\textethiopiccyaa</code>	2534, 2535

<code>\textethiopicye</code>	2538, 2539	<code>\textnhookleft</code>	1584
<code>\textethiopicyee</code>	2536, 2537	<code>\textNu</code>	1272, 1520
<code>\textethiopicyi</code>	2532, 2533	<code>\textnu</code>	1304, 1520
<code>\textethiopicyo</code>	2540, 2541	<code>\textOmega</code>	
<code>\textethiopicyu</code>	2530, 2531		1281, 1335, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1525
<code>\textethiopicza</code>	2496, 2497	<code>\textomega</code>	1315, 1371, 1372, 1373, 1374, 1376, 1377, 1378, 1379, 1381, 1382, 1383, 1525
<code>\textethiopiczaa</code>	2502, 2503	<code>\textOmicron</code>	1273, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1521
<code>\textethiopicze</code>	2506, 2507	<code>\textomicron</code>	1305, 1415, 1416, 1417, 1418, 1423, 1424, 1425, 1426, 1521
<code>\textethiopiczee</code>	2504, 2505	<code>\textOpen</code>	1561, 1588
<code>\textethiopiczha</code>	2512, 2513	<code>\textoopen</code>	1562, 1589
<code>\textethiopiczhaa</code>	2518, 2519	<code>\textoxia</code>	1242
<code>\textethiopiczhe</code>	2522, 2523	<code>\textoxiaiota</code>	1325
<code>\textethiopiczhee</code>	2520, 2521	<code>\textparenleft</code>	1243
<code>\textethiopiczhi</code>	2516, 2517	<code>\textparenright</code>	1244
<code>\textethiopiczho</code>	2524, 2525	<code>\textpentdeka</code>	1213
<code>\textethiopiczhu</code>	2514, 2515	<code>\textpentekaton</code>	1214
<code>\textethiopiczhoa</code>	2526, 2527	<code>\textpentemuria</code>	1216
<code>\textethiopiczi</code>	2500, 2501	<code>\textpenteqilioi</code>	1215
<code>\textethiopiczo</code>	2508, 2509	<code>\textpercent</code>	1239
<code>\textethiopiczu</code>	2498, 2499	<code>\textperiodcentered</code>	1240
<code>\textethiopiczwa</code>	2510, 2511	<code>\textperispomeni</code>	1330
<code>\texteturned</code>	1551	<code>\textperthousand</code>	1226
<code>\texteuro</code>	1225	<code>\textPhi</code>	1264, 1517
<code>\textexclamdown</code>	1590	<code>\textphi</code>	1296, 1517
<code>\textEzh</code>	1573	<code>\textPhook</code>	1581
<code>\textezh</code>	1574	<code>\textphook</code>	1582
<code>\textFhook</code>	1565	<code>\textPi</code>	1274, 1521
<code>\textflorin</code>	1566	<code>\textpi</code>	1306, 1521
<code>\textGamma</code>	1265, 1518	<code>\textPsi</code>	1283, 1525
<code>\textgamma</code>	1297, 1518	<code>\textpsi</code>	1317, 1525
<code>\textGammaafrican</code>	1553	<code>\textpsili</code>	
<code>\textgammalatin</code>	1554		1256, 1322, 1341, 1357, 1373, 1389, 1393, 1413, 1417, 1437, 1443, 1453, 1461, 1471, 1481, 1495
<code>\textgreater</code>	1975, 2847, 2979	<code>\textpsiliiota</code>	1322, 1503
<code>\textHbar</code>	1543	<code>\textpsilioxia</code>	
<code>\texthbar</code>	1542		1288, 1328, 1346, 1363, 1378, 1397, 1401, 1421, 1425, 1447, 1457, 1465, 1475, 1485, 1499
<code>\textIota</code>	1267, 1406, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1518	<code>\textpsilioxiaiota</code>	1328, 1507
<code>\textiota</code>	1299, 1387, 1388, 1389, 1390, 1395, 1396, 1397, 1398, 1403, 1404, 1405, 1427, 1428, 1429, 1430, 1518	<code>\textpsiliperispomeni</code>	
<code>\textIotaafrican</code>	1563		1286, 1331, 1351, 1368, 1383, 1405, 1409, 1449, 1467, 1477, 1501
<code>\textiotalatin</code>	1564	<code>\textpsiliperispomeni</code>	1331, 1509
<code>\textKappa</code>	1269, 1519	<code>\textpsilivaria</code>	
<code>\textkappa</code>	1301, 1519		1289, 1326, 1347, 1369,
<code>\textKhook</code>	1555		
<code>\textkhook</code>	1556		
<code>\textLambda</code>	1270, 1520		
<code>\textlambda</code>	1302, 1520		
<code>\textless</code>	1976, 2848, 2980		
<code>\textMu</code>	1271, 1520		
<code>\textmu</code>	1303, 1520		
<code>\textNhookleft</code>	1583		

	1379, 1398, 1402, 1422, 1426,	\textteluguha	3038, 3160, 3161
	1445, 1455, 1463, 1473, 1483, 1497	\texttelugui	2992, 3254
\textpsilivariaiota	1326, 1505	\textteluguii	2993, 3256
\textqoppa	1222	\textteluguja	3011, 3168, 3169
\textqoppavariant	1223	\texttelugujha	3012, 3158, 3159
\textquestion	1257	\textteluguka	3004, 3142, 3143
\textquestiondown	1591	\texttelugukha	3005, 3192, 3193
\textquotedbl	1979, 2851, 2983	\texttelugula	3032, 3198, 3199
\textquotedblleft	1977, 2849, 2981	\texttelugulengthmark	3053
\textquotedblright	1978, 2850, 2982	\texttelugulla	3033, 3172, 3173
\textquoteleft	1229, 1980, 2852, 2984	\textteluguma	3028, 3146, 3147
\textquoteright	1230, 1981, 2853, 2985	\textteluguna	3023, 3176, 3177
\textRho	1276, 1511, 1522	\texttelugunga	3008, 3138, 3139
\extrho	1308, 1436, 1437, 1522	\texttelugunine	3066, 3307
\textsanpi	1228	\texttelugunna	3018, 3182, 3183
\textschwa	1550	\texttelugunya	3013, 3170, 3171
\textscriptg	1533	\textteluguo	3001, 3276
\textsection	3891	\textteluguone	3058, 3299
\textSigma	1277, 1522, 1523	\textteluguoo	3002, 3278
\textsigma	1311, 1522	\textteluguoutlinebox	3208, 3209
\textstigma	1217	\texttelugupa	3024, 3184, 3185
\textstigmavariant	1218	\texttelugupha	3025, 3174, 3175
\textsubiota		\texttelugura	3030, 3186, 3187
	1219, 1220, 1321, 1333, 1334, 1335	\texttelugurra	3031, 3196, 3197
\textsuperscript	612	\texttelugusa	3037, 3154, 3155
\textTau	1278, 1524	\textteluguseven	3064, 3305
\texttau	1312, 1524	\texttelugusha	3035, 3150, 3151
\textTbar	1577	\texttelugusix	3063, 3304
\texttbar	1578	\texttelugussa	3036, 3144, 3145
\texttelugua	2990, 3250	\texttelugustart	2961, 3086
\textteluguaa	2991, 3252	\texttelugustop	2962, 3091
\textteluguai	3000, 3274	\textteluguta	3019, 3200, 3201
\textteluguailengthmark	3054	\texttelugutha	3020, 3190, 3191
\textteluguanusvara	2988, 3128, 3131	\textteluguthree	3060, 3301
\textteluguau	3003, 3280	\texttelugutta	3014, 3148, 3149
\textteluguba	3026, 3152, 3153	\textteluguttha	3015, 3162, 3163
\texttelugubha	3027, 3136, 3137	\texttelugutwo	3059, 3300
\texttelugublackbox	3204, 3205	\textteluguu	2994, 3258
\textteluguca	3009, 3188, 3189	\textteluguuu	2995, 3260
\texttelugucandrabinu		\textteluguva	3034, 3202, 3203
	2987, 3127, 3130	\textteluguvirama	
\texttelugucha	3010, 3166, 3167		3052, 3101, 3126, 3135, 3137,
\textteluguda	3021, 3156, 3157		3139, 3141, 3143, 3145, 3147,
\texttelugudda	3016, 3134, 3135		3149, 3151, 3153, 3155, 3157,
\textteluguddha	3017, 3180, 3181		3159, 3161, 3163, 3165, 3167,
\texttelugudha	3022, 3140, 3141		3169, 3171, 3173, 3175, 3177,
\texttelugue	2998, 3270		3179, 3181, 3183, 3185, 3187,
\textteluguee	2999, 3272		3189, 3191, 3193, 3195, 3197,
\texttelugueight	3065, 3306		3199, 3201, 3203, 3205, 3207, 3209
\textteluguemptybox	3206, 3207	\textteluguvisarga	2989, 3129, 3132
\texttelugufive	3062, 3303	\textteluguvocalicl	2997, 3264
\texttelugufour	3061, 3302	\textteluguvocalicll	3056, 3268
\textteluguga	3006, 3194, 3195	\textteluguvocalicr	2996, 3262
\texttelugugha	3007, 3178, 3179	\textteluguvocalicrr	3055, 3266

<code>\textteluguvowela</code>	3249	<code>\thaiFoFa</code>	2883
<code>\textteluguvowelaa</code>	3039, 3251	<code>\thaiFoFan</code>	2885
<code>\textteluguvowelai</code>	3048, 3273	<code>\thaiFongman</code>	2929
<code>\textteluguvowelau</code>	3051, 3279	<code>\thaiFour</code>	2934
<code>\textteluguvowelee</code>	3046, 3269	<code>\thaiHoHip</code>	2897
<code>\textteluguvowelee</code>	3047, 3271	<code>\thaiHoNokhuk</code>	2900
<code>\textteluguvoweli</code>	3040, 3253	<code>\thaiKhoKhai</code>	2856
<code>\textteluguvowelii</code>	3041, 3255	<code>\thaiKhoKhon</code>	2859
<code>\textteluguvowelo</code>	3049, 3275	<code>\thaiKhoKhuat</code>	2857
<code>\textteluguvoweloo</code>	3050, 3277	<code>\thaiKhoKhwai</code>	2858
<code>\textteluguvowelu</code>	3042, 3257	<code>\thaiKhomut</code>	2941
<code>\textteluguvoweluu</code>	3043, 3259	<code>\thaiKhoRakhang</code>	2860
<code>\textteluguvowelvocalicl</code>	3263	<code>\thaiKoKai</code>	2855
<code>\textteluguvowelvocalicll</code>	3267	<code>\thaiLakkhangyao</code>	2919
<code>\textteluguvowelvocalicrr</code>	3044, 3261	<code>\thaiLoChula</code>	2898
<code>\textteluguvowelvocalicrr</code>	3045, 3265	<code>\thaiLoLing</code>	2891
<code>\textteluguya</code>	3029, 3164, 3165	<code>\thaiLu</code>	2892
<code>\textteluguzero</code>	3057, 3298	<code>\thaiMaiChattawa</code>	2925
<code>\texttresh</code>	1585	<code>\thaiMaiEk</code>	2922
<code>\textTheta</code>	1268, 1519	<code>\thaiMaiHanakat</code>	2903
<code>\texttheta</code>	1300, 1519	<code>\thaiMaitaikhu</code>	2921
<code>\textThook</code>	1571	<code>\thaiMaiTho</code>	2923
<code>\textthook</code>	1572	<code>\thaiMaiTri</code>	2924
<code>\textTretroflexhook</code>	1559	<code>\thaiMaiyamok</code>	2920
<code>\texttretroflexhook</code>	1560	<code>\thaiMoMa</code>	2887
<code>\textttt</code>	243	<code>\thaiNgoNgu</code>	2861
<code>\textunderscore</code>	1982, 2854, 2986	<code>\thaiNikhahit</code>	2927
<code>\textunicodechar</code>	3574, 3575	<code>\thainine</code>	2939
<code>\textUpsilon</code>	1279, 1410, 1487, 1488, 1489, 1490, 1491, 1492, 1524	<code>\thaiNoNen</code>	2873
<code>\textupsilon</code>	1313, 1391, 1392, 1393, 1394, 1399, 1400, 1401, 1402, 1407, 1408, 1409, 1431, 1432, 1433, 1434, 1524	<code>\thaiNoNu</code>	2879
<code>\textvariaiota</code>	1324	<code>\thaiOAng</code>	2899
<code>\textvarsigma</code>	1293, 1523	<code>\thaiOne</code>	2931
<code>\textVhook</code>	1579	<code>\thaiPaiyannoi</code>	2901
<code>\textvhook</code>	1580	<code>\thaiPhinthu</code>	2912
<code>\textXi</code>	1282, 1525	<code>\thaiPhoPhan</code>	2884
<code>\textxi</code>	1316, 1525	<code>\thaiPhoPhung</code>	2882
<code>\textYhook</code>	1567	<code>\thaiPhoSamphao</code>	2886
<code>\textyhook</code>	1568	<code>\thaiPoPla</code>	2881
<code>\textZeta</code>	1284, 1526	<code>\thaiRoRua</code>	2889
<code>\textzeta</code>	1318, 1526	<code>\thaiRu</code>	2890
<code>\thaiAngkhankhu</code>	2940	<code>\thaiSaraA</code>	2902
<code>\thaiBoBaimai</code>	2880	<code>\thaiSaraAa</code>	2904
<code>\thaiChoChan</code>	2862	<code>\thaiSaraAe</code>	2915
<code>\thaiChoChang</code>	2864	<code>\thaiSaraAiMaimalai</code>	2918
<code>\thaiChoChing</code>	2863	<code>\thaiSaraAiMaimuan</code>	2917
<code>\thaiChoChoe</code>	2866	<code>\thaiSaraAm</code>	2905
<code>\thaiDoChada</code>	2868	<code>\thaiSaraE</code>	2914
<code>\thaiDoDek</code>	2874	<code>\thaiSaraI</code>	2906
<code>\thaiEight</code>	2938	<code>\thaiSaraIi</code>	2907
<code>\thaiFive</code>	2935	<code>\thaiSaraO</code>	2916
		<code>\thaiSaraU</code>	2910
		<code>\thaiSaraUe</code>	2908
		<code>\thaiSaraUee</code>	2909
		<code>\thaiSaraUu</code>	2911

<code>\uc@char@notloaded</code>	<code>\uc@temp@a</code>
..... 252, 257, 258, 529, 904	144, 145,
<code>\uc@check@magicglue</code> ...	148, 454, 459, 489, 490, 496,
..... 470, 486, 514	531, 532, 542, 553, 555, 559,
<code>\uc@checkopt@change</code>	584, 596, 600, 603, 607, 791,
..... 282	793, 829, 834, 864, 875, 879,
<code>\uc@checkopt@error</code>	1154, 1155, 1156, 1157, 1158,
..... 278, 282	1159, 1160, 1161, 1162, 1163,
<code>\uc@checkopt@errorstick</code>	1164, 1172, 1173, 1181, 1182,
..... 282	1186, 1189, 1191, 1193, 3079,
<code>\uc@checkopt@stick</code>	3080, 3082, 3557, 3558, 4365,
..... 282	4368, 4371, 4374, 4377, 4381, 4382
<code>\uc@checkopts</code>	<code>\uc@temp@b</code> 215, 216, 224, 230, 231,
..... 261, 277	404, 411, 417, 423, 535, 541,
<code>\uc@cmb</code>	546, 1194, 1209, 1531, 1536, 1541
..... 163, 165, 169, 513	<code>\uc@temp@c</code>
<code>\uc@comb@code</code> .	218, 233, 421,
471, 472, 474, 475, 521	428, 726, 728, 734, 1151, 1169, 1178
<code>\uc@combine</code>	<code>\uc@temp@d</code>
438, 509	233, 242, 243, 1594
<code>\uc@combining@prechar</code>	<code>\uc@tempa</code>
471	103, 105, 757, 758, 777
<code>\uc@combtoks</code>	<code>\uc@tempb</code>
466,	777
482, 483, 489, 515, 518, 522, 524	<code>\uc@temptokena</code>
<code>\uc@combtoksb</code>	466, 472, 473, 482
.....	<code>\uc@text@composite</code> ..
466, 477, 481, 500, 501, 503	1203, 1206, 1207
<code>\uc@dclc</code>	<code>\uc@throw</code>
583, 640	447, 448, 504, 505
<code>\uc@embedfont@enc</code>	<code>\uc@vbsetchar</code>
802, 809	841, 850, 853, 854
<code>\uc@embedfont@fontstart</code>	<code>\uc@warn@nocombine</code>
.....	165, 169, 462
805, 806, 811, 818, 821, 826	<code>\uc@warnmsg</code>
<code>\uc@embedfont@num</code> .	119, 176
812, 820, 823, 827	<code>\uc@code</code>
<code>\uc@embedfont@option</code> ..	843, 1004, 1005, 1035
807, 813, 833	<code>\ucs@parse@UTFviii@a</code>
<code>\uc@embedfont@start</code>	911, 915
.....	<code>\ucs@parse@UTFviii@b</code>
803, 810, 815, 819, 828, 835	912, 916
<code>\uc@errordrawopt</code>	<code>\ucs@parse@XML@charref</code>
347, 374, 400	910, 914
<code>\uc@errormsg</code>	<code>\ucs@protected@unichar</code>
111, 135, 816, 887
<code>\uc@firstofmany</code> 245, 664, 667, 670
513, 755	<code>\ucshyper@directfalse</code>
<code>\uc@got</code>	4350
448, 505, 557, 588,	<code>\ucshyper@directtrue</code>
627, 640, 642, 723, 724, 744, 748	4349, 4351
<code>\uc@inputencoding</code>	<code>\ucshyper@old@pdfstringdef</code> 4403, 4421
774, 779	<code>\ucshyper@prerenderfalse</code>
<code>\uc@localdeferr</code>	4352
286, 317, 453	<code>\ucshyper@prerendertrue</code> .
<code>\uc@magic@glue</code> 171, 484, 485, 487, 525	4348, 4353
<code>\uc@newcommand</code>	<code>\UCSPProtectionIeC</code>
.....	663
107, 108, 109, 111, 119,	<code>\UCSPProtectionNone</code>
142, 143, 181, 182, 205, 241,	663
244, 274, 277, 281, 283, 314,	<code>\UCSPProtectionUnichar</code>
345, 372, 401, 435, 451, 453,	663
462, 469, 486, 495, 497, 509,	<code>\UCSPU</code>
529, 568, 575, 577, 581, 583,	4357, 4386, 4410, 4425
585, 599, 612, 613, 615, 617,	<code>\ucspu@err</code>
619, 621, 623, 625, 658, 662,	4385, 4394
663, 666, 669, 673, 721, 722, 741	<code>\UCSPU@tmp</code>
<code>\uc@notloaderr</code> 251, 253, 256, 258, 274	4356, 4358
<code>\uc@output</code> 288, 319, 429, 435, 496, 4408	<code>\UCSPUrange</code>
<code>\uc@prechar</code>	4422, 4428
452	<code>\undefined</code>
<code>\uc@prechar@exec</code> ..	32, 33,
440, 451, 473, 502	34, 35, 36, 37, 38, 39, 42, 54, 60,
<code>\uc@read@definition</code> 733, 737, 738, 745	72, 73, 81, 85, 86, 87, 112, 120,
<code>\uc@secondtry</code>	128, 150, 153, 164, 166, 170,
204, 533, 534, 564	175, 208, 210, 441, 447, 448,
<code>\uc@spacechar</code>	452, 471, 472, 475, 504, 505,
862, 864	601, 725, 733, 737, 756, 759,
<code>\uc@spc</code>	786, 789, 801, 809, 810, 812,
203, 294, 298,	815, 820, 879, 890, 893, 894,
325, 329, 352, 356, 379, 383,	901, 942, 943, 944, 946, 949,
410, 411, 417, 423, 425, 541,	1099, 1133, 1145, 1154, 1183,
546, 614, 616, 618, 620, 622,	
624, 636, 657, 751, 862, 953, 1087	

1189, 1197, 1310, 1512, 1670, 1671, 1682, 1686, 1695, 1700, 1702, 1708, 1726, 1740, 1748, 1756, 1778, 1787, 1893, 1902, 3496, 3497, 3543, 3547, 4342, 4359	\uppercase 843, 1006, 1036
\uni@activate@option . . . 99, 101, <u>127</u>	\usepackage 766, 767, 770, 947
\uni@char <u>244</u> , 565, 611	\utf@viii@ 1104, 1113
\uni@dataloaded 128, 560, <u>572</u>	\utf@viii@err 952, 955, 965, 972, 973, 982, 983, 984, 1039
\uni@declcharopt . . . 584, 586, 591, <u>599</u>	\utf@viii@make . . 999, 1027, 1028, 1029
\uni@resetcatcodes 224, 558, 571, 630, <u>673</u> , 742	\utf@viii@map 601, 602, 996, 1042, 4359, 4360
\unicar . . . 266, 432, 527, 576, <u>611</u> , 850, 853, 865, 870, 919, 946, 998, 1021, 4391, 4392, 4407, 4410	\utf@viii@undef 961, 1017, 1019
\unicode@charfilter . . . 441, 444, 662	\utf@viii@undeferr 1011, 1016, 1018, 1097
\unicode@combine . . . 206, <u>469</u> , <u>497</u> , 520	\utf@viii@xnum 955, 965, 972, 973, 982, 983, 984
\unicode@delay 436	\UTFviii@loop 14, 20, 26
\unicode@empty 400, 402, 403	\UTFviii@tmp 11, 17, 23, 925, 929
\unicode@error@unknown 410, 540, <u>720</u>	
\unicode@error@unknown@ . . . 721, <u>722</u>	V
\unicode@graphicscmd 210, 211, 219, 220, 236	\v 1931, 3877
\unicode@graphicsdir . . . 208, 209, 216	\vavyod 3666
\unicode@invalid <u>205</u> , 460, 548, 730, <u>737</u>	\verb@balance@group 858
\unicode@invalidglyph . . 239, 240, <u>241</u>	\verb@egroup <u>856</u>
\unicode@knownoptions 89, 104	\vwlA 3677, 3682
\unicode@numtohex <u>181</u> , 212, 215, 242, 404, 535	\vwlCOLON 3676, 3677, 3678
\unicode@numtohex@ 181, 182	\vwlE 3676, 3680, 3681
\unicode@read@definition . . . 732, 741	\vwlI 3679, 3680
\UnicodeCharFilter 579, <u>662</u> , 665, 668, 671	\vwlPLUS 3678, 3683
\unicodercircle <u>612</u>	\vwlSHEVA 3675
\unicoderecombine 164, 167, 497, 507, 853, 854, 865	\vwlU 3684
\UnicodeEmbedFont 798, <u>800</u>	\vwlVERT 3685
\unicodesmall <u>612</u>	W
\unicodesquare <u>612</u>	\w 1932
\unicodesub <u>612</u>	warnunknown (option) <u>154</u>
\unicodesuper <u>612</u>	\wlog 1168, 1177
\unicodevertical <u>612</u>	\write 220
\unicodevirtual . . . 231, 239, 240, <u>495</u>	X
\unicodewide <u>612</u>	\XDeclareUnicodeOption <u>89</u> , 162
\unistring 861, 878	\xdef 195, 521, 629, 646, 1685, 1698, 1706, 3506, 3515, 3523, 3558, 3618, 4380
\univerb 840, <u>844</u>	Y
\unskip 487	\y 1933
\uo-prio-infinity <u>281</u>	Z
\update@ucllc@with@text 1513, 1527, 1528	\Z 712
	\z 713

Change History

v1.99		Removed the redefinition of <code>\show</code> from <code>ucsencs.def</code>	48
	General: Last version by Dominique Unruh	Switched from <code>\mathbbm</code> to <code>\mathbb</code> for double-struck characters	1
v2.0		Switched to LPPL 1.3	1
	General: Added <code>mathletters</code> mappings for variants of greek small letters	Various small improvements	1
	Added support for various symbols	v2.1	
	Changed the <code>mathletters</code> mappings of some greek small letters from <code>\var\textit{letter}</code> to <code>\textit{letter}</code> in order to conform to the Unicode standard	General: Added support for various arrows, musical notes, and <code>NON-BREAKING HYPHEN</code>	1
	Created makefile	Some small bug fixes	1
		v2.2	
		General: Fixed a bug related to the optional definition of <code>\@ifnextchar</code> (see http://tinyurl.com/dxncfn9)	1