

ucs.sty - Unicode Support

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

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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 the releases from 2022/08/07 v2.3. .

The remaining documentation is unchanged but version 2.3 introduces the following changes, and version 2.4 aborts with a warning if used with Unicode \TeX .

- 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|ó%`
`\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 `cenccmn.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 \ifx\ProvidesPackage\undefined\else
3 \ProvidesPackage{ucs}[2023/11/09 v2.4 UCS: Unicode input support]%
4 \fi
5 \ifx\Umathchar\undefined\else
6 \ifx\PackageWarningNoLine\undefined\else
7 \PackageWarningNoLine{ucs}{ucs package ignored with utf8 based engines}
8 \fi

```



```

9 \expandafter\endinput
10 \fi

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

```

```

63 % ^^A          away'.
64 \ifx\@ifnextchar\undefined
65   \def\@ifnextchar#1#2#3{%
66     \let\reserved@d=#1%
67     \def\reserved@a{#2}%
68     \def\reserved@b{#3}%
69     \futurelet\@let@token\@ifnch}\fi
70 \ifx\@ifnch\undefined
71   \def\@ifnch{%
72     \ifx\@let@token\@sptoken
73       \let\reserved@c\@xifnch
74     \else
75       \ifx\@let@token\reserved@d
76         \let\reserved@c\reserved@a
77       \else
78         \let\reserved@c\reserved@b
79       \fi
80     \fi
81     \reserved@c}\fi
82 \ifx\@inputcheck\undefined\newread\@inputcheck\fi
83 \ifx\IfFileExists\undefined
84 \long\def\IfFileExists#1#2#3{%
85   \openin\@inputcheck#1 %SPACE
86   \ifeof\@inputcheck\def\reserved@a{#3}%
87   \else\closein\@inputcheck\def\reserved@a{#2}%
88   \fi
89   \reserved@a}%
90 \fi
91 \ifx\InputIfFileExists\undefined
92 \long\def\InputIfFileExists#1#2{%
93   \IfFileExists{#1}{#2\input #1 }}
94 \fi
95 \ifx\protect\undefined\let\protect\relax\fi
96 \ifx\@typeset@protect\undefined\let\@typeset@protect\relax\fi
97 \ifx\IeC\undefined\def\IeC{\ifx\protect\@typeset@protect
98   \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 `\@unicode@option` $\langle name \rangle$ and `\@unicode@option@no` $\langle name \rangle$ 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.

```

99 \def\unicode@knownoptions{}
100 \def\XDeclareUnicodeOption#1#2#3#4#5{%
101   \expandafter\let\csname ifUnicodeOption#2\endcsname\iffalse
102   \expandafter\def\csname UnicodeOption#2true{%
103     \expandafter\endcsname\expandafter{%
104       \expandafter\let\csname ifUnicodeOption#2\endcsname\iffalse}%
105   \expandafter\def\csname UnicodeOption#2false{%
106     \expandafter\endcsname\expandafter{%
107       \expandafter\let\csname ifUnicodeOption#2\endcsname\iffalse}%
108   \expandafter\def\csname @unicode@option@#2\endcsname{%
109     #3\uni@activate@option{#2}{#4}{#5}}%
110   \expandafter\def\csname @unicode@option@no#2\endcsname{%
111     #3\uni@activate@option{#2}{no}{#4}{#5}}%
112   \ifx~#1~\else\LinkUnicodeOptionToPkg{#2}{#1}\fi

```

Keep a list of known options

```

113 \let\uc@tempa\\\let\\\relax
114 \edef\unicode@knownoptions{\{\#2\}\unicode@knownoptions}%
115 \let\\\uc@tempa
116 }%
117 \let\uc@newcommand\def
118 \uc@newcommand\DeclareUnicodeOption{\@protected@testopt\DeclareUnicodeOption\DeclareUnicodeOption}
119 \uc@newcommand\DeclareUnicodeOption@[#1]#2{%
120   \XDeclareUnicodeOption{#1}{#2}{#1}{#1}}%

```

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

```

121 \uc@newcommand\uc@errmsg#1#2{%
122   \ifx\PackageError\undefined
123     {\newlinechar'\^^J\def\MessageBreak{^^J}%
124     \errhelp{#2}\errmessage{Package ucs: #1}}%
125   \else
126     \PackageError{ucs}{#1}{#2}%
127   \fi
128 }%
129 \uc@newcommand\uc@warnmsg#1{%
130   \ifx\PackageWarning\undefined
131     {\newlinechar'\^^J\def\MessageBreak{^^J}%
132     \message{Package ucs: #1\MessageBreak}}%
133   \else
134     \PackageWarning{ucs}{#1}%
135   \fi
136 }%

```

\uni@activate@option Synopsis: $\langle option \rangle \langle no \rangle \langle on \rangle \langle off \rangle \langle prio \rangle$

This sets the $\backslash\text{unicode@option}\langle name \rangle$ and $\backslash\text{unicode@optionno}\langle name \rangle$ 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.

{*on*} and {*off*} are executed when the option is switched on resp. off.

```
137 \def\uni@activate@option#1#2#3#4#5{%
138   \ifx\uni@dataloaded\undefined
139   \global\expandafter\def\csname @unicode@option@#1\endcsname##1{%
140     \csname UnicodeOption#1true\endcsname
141     \expandafter\def\csname uo-prio-#1\endcsname{##1}#3}%
142   \global\expandafter\def\csname @unicode@option@no#1\endcsname##1{%
143     {\csname UnicodeOption#1false\endcsname#4}%
```

Mark this option as in use

```
144   \csname @unicode@option@#2#1\endcsname{#5}\else
145   \uc@errmsg{Option #1 must be activated or deactivated %SPACE
146     at least once in the preamble before using it in the document}{%
147     For optimization causes I must know all %SPACE
148     options before loading any unicode data.\MessageBreak
149     Try e.g. #1 or no#1 as package option to ucs.}\fi}
```

`\LinkUnicodeOptionToPkg` Synopsis: {*option*}{*pkg*}
Links the option *option* to package *pkg*, i. e. if *pkg* is loaded, *option* is set.
This mechanism is deprecated!

```
150 \def\LinkUnicodeOptionToPkg#1#2{%
151   \AtBeginDocument{\@ifpackageloaded{#2}{\SetUnicodeOption{#1}}{}}%
```

`\SetUnicodeOption` Synopsis: [*prio*]{*option*}
Activates the unicode option *option*, or disables it, if prefixed by *no*. The option
get the priority *prio* if activated, whereby the default ist 100.

```
152 \uc@newcommand\SetUnicodeOption{\@protected@testopt\SetUnicodeOption\SetUnicodeOption@{100}}
153 \uc@newcommand\SetUnicodeOption@[#1]#2{%
154   \edef\uc@temp@a{\unicode@option@#2}%
155   \expandafter\ifx\csname\uc@temp@a\endcsname\relax
156     \PackageError{ucs}{Unknown unicode option #2}{}%
157   \else
158     \csname\uc@temp@a\endcsname{#1}%
159   \fi}
```

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

```
160 \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.

```
161 \DeclareUnicodeOption{fasterrors}
```

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

```
162 \DeclareUnicodeOption{warnunknown}
```

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

```
163 \DeclareUnicodeOption{graphics}
```

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

```
164 \DeclareUnicodeOption{savemem}
```

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

```
165 \DeclareUnicodeOption{document}
166 \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.

```
167 \DeclareUnicodeOption{default}
168 \SetUnicodeOption[0]{default}
```

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

```
169 \XDeclareUnicodeOption{}{combine}{}%
170 \let\uc@cmb\empty}{%
171 \ifx\unicodcombine\undefined\else\unicodcombine\fi
172 \def\uc@cmb{\uc@warn@nocombine}}%
173 \ifx\AtBeginDocument\undefined\else
174 \AtEndDocument{\unicodcombine}\fi
175 \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.

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

The usual option processing stuff.

```
177 \ifx\DeclareOption\undefined\else
178 \DeclareOption{showmagickern}{\def\uc@magic@glue{6805678}}%
179 \DeclareOption{hyperref}{\AtEndOfPackage{\RequirePackage{ucshyper}}}%
180 \DeclareOption*{\SetUnicodeOption{\CurrentOption}}\ProcessOptions*
181 \fi
```

Patch some fontencodings.

```
182 \ifx\AtBeginDocument\undefined
183 \uc@warnmsg{Not loading ucsencs.def automatically.\MessageBreak
184 Please load it after initializing fontencodings}%
185 \else
186 \AtBeginDocument{\input{ucsencs.def}}\fi
```

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

```
187 \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 T_EX-number. The result contains uppercase letters. The assignment to $\langle target \rangle$ is global.

```
188 \uc@newcommand\unicode@numtohex{\protect\unicode@numtohex}%
189 \uc@newcommand\unicode@numtohex@#1#2#3{%
190   {\let\empty\relax\relax
191    %\ifx\empty\relax\def\empty{}%
192    \count255=#2\relax\gdef#1{%
193     \count252=#3%
194     \loop
195     \count253=\count252\advance\count253by\count255\relax
196     \ifnum\count253>0%
197     \ifnum\count252>0\advance\count252by-1\relax\fi
198     \count254=\count255%
199     \divide\count255by16%
200     \multiply\count255by16%
201     \advance\count254by-\count255%
202     \xdef#1{\ifcase\count254 0\or1\or2\or3\or4\or5\or6\or7\or
203      8\or9\or A\or B\or C\or D\or E\or F\fi#1}%
204     \divide\count255by16\relax
205     \repeat
206     %\else
207     % \def#1{dec:#2}%
208     %\fi
209   }}}
```

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

```
210 \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`

```
211 \newcount\uc@secondtry
```

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

```
212 \uc@newcommand\unicode@invalid#1{%
213   \unicode@combine%
```

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

```
214 \ifUnicodeOptiongraphics{%
```

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

```
215 \ifx\unicode@graphicsdir\undefined
216   \def\unicode@graphicsdir{ucs-glyphs}\fi
217 \ifx\unicode@graphicscmd\undefined
218   \def\unicode@graphicscmd{ucs-getglyph \hex\space \dec\space \path\space}\fi
219 \unicode@numtohex\hex{#1}4%
220 \count255=#1\relax
221 \divide\count255 by256\relax
222 \unicode@numtohex\uc@temp@b{\count255}2%
223 \edef\path{\unicode@graphicsdir/\uc@temp@b/U\hex.ps}%
224 \edef\dec{\number#1}%
```

Test if we already have that image (as PS)

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

otherwise run shell commands for download and conversion

```
226   \typeout{Running: \unicode@graphicscmd}%
227   \immediate\write18{\unicode@graphicscmd}%
228   }%
```

Try if we have the file now

```
229 \IfFileExists{\path}{\%
```

then include it

```
230   \setbox255=\hbox{X}%
231   \edef\uc@temp@b{\begingroup\noexpand\uni@resetcatcodes
232     \noexpand\includegraphics[height=\the\ht255, trim=0 22.5 0 17.5]%
233     {\path}%
234     \noexpand\ProvidesFile{U\hex.ps}%
235     [Downloaded glyph for U+\hex]%
236     \endgroup}%
237   \typeout{\meaning\uc@temp@b}%
238   \expandafter\unicodevirtual\expandafter{\uc@temp@b}%
239   }%
```

otherwise we give a warning

```
240   \PackageWarning{ucs}{File \uc@temp@d\uc@temp@c.ps %SPACE
241     not found.\MessageBreak
242     Use\MessageBreak
243     \space\space\space\space\unicode@graphicscmd\MessageBreak
244     or start latex with option -shell-escape\MessageBreak
245     if you have not already done so.}%
```

and use the standard glyph for unknown characters

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

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

```
247   \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.

```
248 \uc@newcommand\unicode@invalidglyph#1{%
249   {\unicode@numtohex\uc@temp@d{#1}4%
250    \fontencoding{OT1}\texttt{[U+\uc@temp@d]}}
```

`\uni@char` Synopsis: `{⟨code⟩}`

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

```
251 \uc@newcommand\uni@char#1{%
252   \ucs@protected@unicar@iftrue
253     \expandafter\ifx\csname u-\number#1-h/o\endcsname\relax
254
```

If the character is not defined yet, load it.

```
255     \begingroup
256     % In case \let is not executed, this (until ===) expands
257     % to \let\relax\relax,
258     % otherwise we have \let\uc@notloaderr@gobble
259     % Number of \empty's must equal number of args of \uc@char@notloaded
260     \let\uc@notloaderr@gobble\empty@gobbletwo\relax\relax
261     % ===
262     \expandafter\endgroup
263     % If \let not executed: Warning is emitted (see |\uc@notloaderr|)
264     % otherwise: |\uc@char@notloaded| is called.
265     \uc@notloaderr{\number#1}\uc@char@notloaded{#1}%
266   \else
267
```

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.

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


`\uc@checkopts` Synopsis: $\langle options \rangle \langle code \rangle$
 For the character $\langle code \rangle$ which has options $\langle options \rangle$ (each option enclosed in $\{ \}$) the corresponding macro is searched and executed.

```
284 \uc@newcommand\uuc@checkopts#1#2{%
```

Start the automaton. See ?? for an explanation.

```
285 \expandafter\uuc@checkopt@error\expandafter{\number#2}%
286 {error}{error}{infinity}#1\@nil
287 }
```

`\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 ??.

```
288 \expandafter\uuc@newcommand\csname uo-prio-infinity\endcsname{-210000000}
```

`\uc@checkopt@stick` Now the autogenerated code for the automaton described in ?? follows. It is generated by `mkcovariants.pl`.

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

```

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

```

```

377  {#1}{#2, #3}{#5}{#4}%
378 }
379 \uc@newcommand\uc@checkopt@errorstick#1#2#3#4#5{%
380   \ifx\@nil#5%
381 \uc@errordrawopt{#1}{#2}{#4}%
382   \expandafter\@gobblefour
383 \else
384   \iftrue\csname fi\endcsname
385   \csname ifUnicodeOption#5\endcsname
386   \ifnum\csname uo-prio-#4\endcsname>\csname uo-prio-#5\endcsname\uc@spc
387     \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
388     \uc@checkopt@errorstick
389   \else
390     \ifnum\csname uo-prio-#4\endcsname<\csname uo-prio-#5\endcsname\uc@spc
391       \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
392       \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
393       \uc@checkopt@change
394     \else
395       \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
396       \expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
397       \uc@checkopt@error
398     \fi
399   \fi
400 \else
401   \expandafter\expandafter\expandafter\uc@checkopt@errorstick
402 \fi
403 \fi
404 {#1}{#2}{#5}{#4}%
405 }
406 % === 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.

```

407 \let\unicode@empty\empty
408 \uc@newcommand\uc@errordrawopt#1#2#3{%

```

Check whether we are in executing context

```

409 \let\unicode@empty\relax\relax
410 \ifx\unicode@empty\relax\let\unicode@empty\empty

```

if yes, operate normally

```

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

```

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

```

413     \expandafter\ifx\csname
414     missing-unicode-warned-\number#1\endcsname\relax
415     \global\expandafter\let\csname
416     missing-unicode-warned-\number#1\endcsname\@ne
417     \unicode@error@unknown\@ne{Character \number#1\uc@spc
418     \uc@spc= U+\uc@temp@b\uc@spc
419     matches no activated options.\MessageBreak
420     Type H to see available options}{#1}%
421     \else
422     \PackageWarning{ucs}{Character % SPACE
423 % \tobe: nothing rendered?
424     \number#1 \uc@spc= 0x\uc@temp@b\uc@spc
425     appeared again.}%
426     \fi
427     \else

```

Otherwise inform the user of the collision...

```

428     \@getcharinfo\uc@temp@c{#1}%
429     \PackageWarning{ucs}{Character %SPACE
430     \number#1 \uc@spc= 0x\uc@temp@b\uc@spc
431     matches options\MessageBreak
432     \uc@spc\uc@spc\uc@spc#2\MessageBreak
433     with same priority \csname uo-prio-#3\endcsname. %SPACE
434     Selecting option #3.\MessageBreak
435     \uc@temp@c}%

```

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

```

436     \uc@output{\csname u-#3-#1\endcsname}{#1}%
437     \fi

```

if we are in non-executing context, replace ourself by a `\unicar` 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 `\unicar` protected when this happens.

```

438     \else
439     \noexpand\unicar{#1}%
440     \fi
441 }

```

`\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.

```

442 \uc@newcommand\uc@output#1#2{%
443   \ifx\unicode@delay1\let\unicode@delay\relax\else
444     \ifUnicodeOptioncombine

```

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

```
445     \expandafter\uc@combine\expandafter{#1}{#2}%  
446     \else
```

Output the character

```
447     \uc@prechar@exec{#2}%  
448 %     \ifx\unicode@charfilter\undefined  
449 %         #1{}%  
450 %     \else  
451 %         \unicode@charfilter{#1{}}%  
452 %     \fi  
453     \fi
```

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

```
454     \ifx\uc@throw\undefined\else  
455     \def\uc@got{#2}\uc@throw\global\let\uc@throw\undefined\fi  
456     \fi  
457 }%  
458 \uc@newcommand\uc@prechar@exec#1{%  
459     \ifx\uc@prechar\undefined\else\uc@prechar{#1}\fi}
```

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

```
460 \uc@newcommand\uc@localdeferr#1#2{%  
461     \@getcharinfo\uc@temp@a{#1}%  
462     \PackageError{ucs}{Internal error in character \number#1, %SPACE  
463     option #2}{I probably got confused by intermixed local %SPACE  
464     and global definitions.\MessageBreak Try to load the needed %SPACE  
465     code page via \noexpand\PreloadUnicodePage  
466     before declaring anything by yourself.}{\uc@temp@a}%  
467     \unicode@invalid{#1}%  
468 }%
```

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

```
469 \uc@newcommand\uc@warn@nocombine{%  
470     \PackageError{ucs}{Please activate option 'combine'}{Composed %SPACE  
471     characters can only be rendered correctly, when the option %SPACE  
472     'combine' is activated}}
```

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

```
\uc@combtoksb  
\uc@temptokena 473 \newtoks\uc@combtoks  
474 \newtoks\uc@combtoksb  
475 \newtoks\uc@temptokena
```

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

```
476 \uc@newcommand\unicode@combine{%  
477     \uc@check@magicglue%
```

```

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

```

\unicodevirtual

```

502 \uc@newcommand\unicodevirtual#1{%
503   \def\uc@temp@a##1{#1}\uc@output{\csname uc@temp@a\endcsname}{"FFFF"}}

```

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

```

504 \uc@newcommand\unicodecombine{%
505   \ifx\protect\@typeset@protect
506     \unicode@combine%
507     %\typeout{WRITING: \the\uc@combtoksb}%
508     \the\uc@combtoksb
509     \uc@prechar@exec{-1}%
510     \global\uc@combtoksb{}}%

```

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

```

511   \ifx\uc@throw\undefined\else
512     \def\uc@got{-1}\uc@throw\global\let\uc@throw\undefined\fi
513   \else
514     \noexpand\unicodecombine\fi
515 }

```

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

```

516 \uc@newcommand\uc@combine#1#2{%
517   \ifx\protect\@typeset@protect
518     \@temptokena\expandafter{#1{}}%

```

```

519 \expandafter\expandafter\expandafter\ifx
520 \expandafter\uc@firstofmany\the\@temptokena\uc@firstofmany\uc@cmb
521 \uc@check@magicglue%
522 \uc@combtoks\expandafter\expandafter\expandafter
523 \expandafter\expandafter\expandafter{%
524 \expandafter\expandafter\expandafter\@gobble
525 \expandafter#1\expandafter{\the\uc@combtoks}}%
526 \else
527 \unicode@combine%
528 \xdef\uc@comb@code{\number#2}%
529 \global\uc@combtoks\expandafter{#1}%
530 \fi
531 %\typeout{->COMBTOKS: \the\uc@combtoks}%
532 \hskip\uc@magic@glue spplusOptminusOpt %SPACE ; Insert magic glue
533 \else
534 \noexpand\unichar{\number#2}\fi
535 }

```

`\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.

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

Calculate the name of the corresponding file

```
537 \count255=#1\divide\count255 by 256%
538 \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`

```
539 \expandafter\ifx\csname\uc@temp@a\endcsname\relax\else
540 \uc@secondtry#1\relax\fi
541 \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

```

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

```

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

```
558 \begingroup
```

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

```
559 \ifUnicodeOptionsavemem
560 % \expandafter\let\csname\uc@temp@a\endcsname\@ne
561 \else
562 \global\expandafter\let\csname\uc@temp@a\endcsname\@ne
563 \fi
```

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

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

Reset catcodes to a reasonable default.

```
565 \uni@resetcatcodes
```

Load file.

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

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

```
567 \global\let\uni@dataloaded1%
568 }{%-
569 }%
```

End of local group for inputted file

```
570 \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).

```
571 \uc@secondtry#1\relax%
572 \uni@char{#1}%
573 \fi
574 }
```

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

```
575 \uc@newcommand\PreloadUnicodePage#1{%
576 \begingroup
577 \global\expandafter\let\csname uni-#1.def\endcsname\@ne
578 \uni@resetcatcodes
579 \InputIfFileExists{uni-#1.def}{\let\uni@dataloaded1}{%-
580 \PackageError{ucs}{Could not find uni-#1.def}{}}%
581 \endgroup}
```


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

```
582 \uc@newcommand\PrerenderUnicode{%
583   \@ifstar{\@prerenderunicode\unicar}{\@prerenderunicode\@gobble}}%
584 \uc@newcommand\@prerenderunicode#1#2{%
585   \begingroup
586   \UnicodeCharFilter\@gobble
587   \let#1\@gobble\setbox0\hbox{#2}\endgroup}
```

`\DeclareUnicodeCharacter` `\DeclareUnicodeCharacter{<code>}{<macro>}` is an abbreviation for
`\DeclareUnicodeCharacterAsOptional{<code>}{document}{<macro>}`.

```
588 \uc@newcommand\DeclareUnicodeCharacter#1#2{%
589   \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 it's code equals `\uc@got` and it's option is used (it does not matter, whether enabled or disabled). If `savemem` is not set and the option is not used, the macro is not defined but the option is saved in `\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 than its `uni-*.def`-file is loaded, it is not overwritten, so after leaving the group the character is undefined, even if it was in the `uni-*.def`-file. This constellation will not arise, if you declare document-local characters with option `document`.

```
590 \uc@newcommand\DeclareUnicodeCharacterAsOptional{%
591   \let\uc@temp@a\relax\uni@declcharopt}
592 \uc@newcommand\uc@dclc#1#2{%
593   \let\next=\uni@declcharopt
594   \ifUnicodeOptionsavemem
595     \ifnum\uc@got=#1\else
596       \let\next=\@gobblethree\fi
597   \fi
598   \ifx\next\uni@declcharopt
599     \expandafter\ifx\csname uni@active@#2\endcsname\relax
600     \let\next\@gobblethree\else
601     \expandafter\ifx\csname u-#2-\number#1\endcsname\relax\else
602     \let\next\@gobblethree\fi\fi
603   \let\uc@temp@a\global
604   \fi
605   \next{#1}{#2}}
```

`\uni@declcharopt` This macros does the real work for `\DeclareUnicodeCharacterAsOptional` and `\uc@dcclc`. 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.

```

606 \uc@newcommand\uni@declcharopt#1#2#3{%
607   \typeout{Defining: u-#2-\number#1 (\meaning\uc@temp@a)}%
608   \ifx\utf@viii@map\undefined\else
609     \expandafter\utf@viii@map\expandafter{\number#1}\fi
610   \expandafter\uc@temp@a\expandafter\def
611     \csname u-#2-\number#1\endcsname##1{#3}%\fi
612   \expandafter\ifx\csname u-\number#1-h/o\endcsname\relax
613     \expandafter\def\csname u-\number#1-h/o\endcsname{\fi
614   \expandafter\uc@temp@a\expandafter\edef
615     \csname u-\number#1-h/o\endcsname{%
616     {#2}\csname u-\number#1-h/o\endcsname}%
617   }%

```

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

```

618 \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 619 \uc@newcommand\unicodesuper#1{\textsuperscript{#1}}%

```

```

\unicodesmall 620 %\uc@newcommand\unicodesub#1{%

```

```

621 % \latex@error{\protect\unicodesub\uc@spc not supported}\@eha}

```

```

622 %\uc@newcommand\unicodecircle#1{%

```

```

623 % \latex@error{\protect\unicodecircle\uc@spc not supported}\@eha}

```

```

624 %\uc@newcommand\unicodesquare#1{%

```

```

625 % \latex@error{\protect\unicodesquare\uc@spc not supported}\@eha}

```

```

626 %\uc@newcommand\unicodevertical#1{%

```

```

627 % \latex@error{\protect\unicodevertical\uc@spc not supported}\@eha}

```

```

628 %\uc@newcommand\unicodewide#1{%

```

```

629 % \latex@error{\protect\unicodewide\uc@spc not supported}\@eha}

```

```

630 %\uc@newcommand\unicodesmall#1{%

```

```

631 % \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`.

```

632 \uc@newcommand\@getcharinfo#1#2{%
633   \begingroup
634   \countdef\uc@got0\relax\uc@got#2\relax
635   \global\def#1{Character's name unknown}%
636   \def\info##1{\xdef#1{##1}}%
637   \uni@resetcatcodes
638   \ifUnicodeOptionfasterrors
639   \global\def#1{No further informations known % SPACE
640     because of option fasterrors.}\else

```

```

641 {\InputIfFileExists{uninames.dat}}{%
642   \global\def#1{Character database uninames.dat not found. %SPACE
643     \MessageBreak Character \number#2 \uc@spc unknown}}}%
644 \fi
645 %
646 \toks255{%
647   \def\uc@dclc##1##2##3{\ifnum##1=\uc@got
648     \toks255\expandafter{\the\toks255, ##2}\fi}%
649   \count255\uc@got\divide\count255by256\relax
650   %\edef\temp@a{uni-\number\count255.def}%
651   \InputIfFileExists{uni-\number\count255.def}}{%
652   \expandafter\ifx\expandafter\@nil\the\toks255 \@nil
653     \xdef#1{##1\noexpand\MessageBreak
654       Character is not defined in uni-*.def files}%
655   \else
656     \expandafter\expandafter\expandafter\@getcharinfo@
657     \expandafter\expandafter\expandafter#1%
658     \expandafter\expandafter\expandafter
659     {\expandafter#1\expandafter}\the\toks255 \@nil%
660   \fi
661   \endgroup}
662 \def\@getcharinfo@#1#2, #3\@nil{\gdef#1{#2\MessageBreak
663   Character available with following options:\MessageBreak
664   \uc@spc\uc@spc\uc@spc #3}}

```

`\PrintUnicodeName` Synopsis: `{⟨number⟩}`
 Prints information on character `⟨number⟩` via `\typeout`.

```

665 \uc@newcommand\PrintUnicodeName#1{%
666   \@getcharinfo{\ci}{#1}%
667   \def\MessageBreak{^^J}%
668   \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.

```

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

```

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

```

670 \uc@newcommand\UCSProtectionNone{%
671   \def\ucs@protected@unichar{%
672     \UnicodeCharFilter\@firstofone}
673 \uc@newcommand\UCSProtectionIeC{%
674   \def\ucs@protected@unichar{%
675     \UnicodeCharFilter\IeC}
676 \uc@newcommand\UCSProtectionUnichar{%
677   \def\ucs@protected@unichar##1{\ifx\protect\@typeset@protect}%
678   \UnicodeCharFilter\@firstofone}
679 \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”.

```

680 \uc@newcommand\uni@resetcatcodes{%
681 \endlinechar=13\relax
682 \def\reserved@a##1##2{%
683 \@tempcnta##1\relax
684 \@tempcntb##2\relax
685 \reserved@b
686 }%
687 \def\reserved@b{%
688 \ifnum\@tempcnta>\@tempcntb\else
689 \reserved@c\@tempcnta
690 \advance\@tempcnta\@ne
691 \expandafter\reserved@b
692 \fi
693 }%
694 \catcode'\ =10\relax
695 \catcode'\#=6\relax
696 \catcode'\$=3\relax
697 \catcode'\%=14\relax
698 \catcode'\&=4\relax
699 \catcode'\|=0\relax
700 \catcode'\^=7\relax
701 \catcode'\_ =8\relax
702 \catcode'\{=1\relax
703 \catcode'\}=2\relax
704 \catcode'\~=13\relax
705 \catcode'\@=11\relax
706 \catcode'\^I=10\relax
707 \catcode'\^J=12\relax
708 \catcode'\^L=12\relax
709 \catcode'\^M=5\relax
710 \def\reserved@c##1{\catcode##1=12\relax}%
711 \reserved@c{'!}%
712 \reserved@c{'"%}%
713 \reserved@a{'\'}{'\?'}%
714 \reserved@c{'\[]}%
715 \reserved@c{'\]}%
716 \reserved@c{'\'}%
717 \reserved@c{'\|}%
718 \def\reserved@c##1{\catcode##1=11\relax}%
719 \reserved@a{'\A}'{\Z}%
720 \reserved@a{'\a}'{\z}%
721 \def\reserved@c##1{\catcode##1=15\relax}%
722 \reserved@a{0}'{\^H}%
723 \reserved@c{'\^K}%
724 \reserved@a{'\^N}{31}%
725 \catcode"7F=15\relax
726 \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.

```
727 \catcode'\!13\relax
728 \uc@newcommand\unicode@error@unknown{\protect\unicode@error@unknown}%
729 \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 a missing character error is only yielded once, this should not be so. So we trick `amstex` by setting `\measuring@false` locally.

```
730 {\expandafter\countdef\expandafter\uc@got\expandafter0%
731   \expandafter\relax\expandafter\uc@got\number#3\relax
732   \ifx\measuring@false\undefined\else\measuring@false\fi
733   \@getcharinfo\uc@temp@c{#3}%
734   \ifUnicodeOptionwarnunknown
735     \PackageWarning{ucs}{#2\MessageBreak\uc@temp@c.\MessageBreak
736       Enter I\noexpand!<RET> to define the glyph.}%
737     \ifx#1\@ne\unicode@invalid{#3}\fi
738   \else
739     \let!\unicode@read@definition\catcode'\!13\relax
740     \let\uc@read@definition\undefined
741     \PackageError{ucs}{#2}{\uc@temp@c.\MessageBreak
742       Enter I\noexpand!<RET> to define the glyph.}%
743     \ifx#1\@ne
744       \ifx\uc@read@definition\undefined\unicode@invalid{#3}%
745       \else\uc@read@definition\fi\fi
746     \fi}}
747 \catcode'\!12\relax
748 \uc@newcommand\unicode@read@definition{%
749   \uni@resetcatcodes
750   \typein[\definition]{Please enter definition for %SPACE
751     unicode character \number\uc@got}%
752   \global\let\uc@read@definition\definition
753   \toks255\expandafter{\definition}%
754   \edef\definition{\noexpand\DeclareUnicodeCharacter%
755     {\number\uc@got}{\the\toks255}}%
756   \toks255\expandafter{\definition}%
757   \typeout{Tip:\MessageBreak You may include\MessageBreak
758     \uc@spc\uc@spc\the\toks255\MessageBreak
759     into your document source.}%
760   \the\toks255\relax
761 }
```

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

```
762 \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.)

```
763 \ifx\AtBeginDocument\undefined\else
```

```

764 \AtBeginDocument{\def\uc@tempa{\@inpenc@undefined@{utf8}}%
765 \ifx\@inpenc@undefined\uc@tempa
766 \ifx\restore@utf@viii@actives\undefined
767 \PackageWarning{ucs}{*****\MessageBreak You %SPACE
768 seem to have loaded inputencoding utf8\MessageBreak (LaTeX kernel %SPACE
769 UTF-8) instead of utf8x (ucs.sty UTF-8).\MessageBreak Probably you %SPACE
770 are compiling a document written for a\MessageBreak
771 pre-august-2004 ucs.sty.\MessageBreak
772 *****\MessageBreak Please use %SPACE
773 \string\usepackage[utf8]{inputenc} instead of\MessageBreak
774 \string\usepackage[utf8]{inputenc}.\MessageBreak
775 *****\MessageBreak If you should really want %SPACE
776 to use ucs.sty and kernel's\MessageBreak utf8.def together, use %SPACE
777 \string\usepackage[utf8x,utf8]{inputenc}\MessageBreak to disable %SPACE
778 compatibility mode\MessageBreak
779 *****\MessageBreak Activating compatibility %SPACE
780 mode.\MessageBreak *****\MessageBreak}%
781 \global\let\uc@inputencoding\inputencoding
782 \inputencoding{utf8x}%
783 \def\inputencoding#1{%
784   {\def\uc@tempa{#1}\def\uc@tempb{utf8}\ifx\uc@tempa\uc@tempb
785     \aftergroup\@firstoftwo\else\aftergroup\@secondoftwo\fi}%
786   {\restore@utf@viii@actives}{\uc@inputencoding{#1}}}%
787 \fi\fi
788 }\fi

789 %
790 %
791 </ucs.sty>

```

3.2 File ucsutils.sty

```
792 <*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-T_EX, define \@ucsutils directly and then load ucsutils.sty using \input.

```

793 \ifx\DeclareOption\undefined\else
794 \ProvidesPackage{ucsutils}[2002/04/23 UCS: Auxiliary macros]%
795 \RequirePackage{ucs}%
796 \ifx\@ucsutils\undefined\let\@ucsutils\empty\fi
797 \DeclareOption*{%
798   \edef\uc@temp@a{\csname\CurrentOption\endcsname}%
799   \expandafter\g@addto@macro\expandafter\@ucsutils\expandafter
800   {\expandafter\\uc@temp@a}}%
801 \ProcessOptions*%
802 \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.

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

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

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

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

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

```
805 \@ucsutils@section\UnicodeEmbedFont
```

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

```
806 ^^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.

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

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

```
808 ^^B \ifx\KV@ucembedfont@start\undefined
809 ^^B \define@key{ucembedfont}{encoding}{\def\uc@embedfont@enc{##1}}%
810 ^^B \define@key{ucembedfont}{start}{\def\uc@embedfont@start{##1}}%
811 ^^B \define@key{ucembedfont}{fontstart}%
812 ^^B {\def\uc@embedfont@fontstart{##1}}%
813 ^^B \define@key{ucembedfont}{num}{\def\uc@embedfont@fontstart{##1}}%
814 ^^B \define@key{ucembedfont}{option}{\def\uc@embedfont@option{##1}}%
815 ^^B \fi
```

Define defaults.

```
816 ^^B \let\uc@embedfont@enc\undefined % Ignored
817 ^^B \let\uc@embedfont@start\undefined
818 ^^B \def\uc@embedfont@fontstart{0}%
819 ^^B \let\uc@embedfont@num\undefined
820 ^^B \def\uc@embedfont@option{document}%
```

Parse arguments.

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

Error, when no start of range is given.

```
822 ^^B \ifx\uc@embedfont@start\undefined
823 ^^B \uc@errormsg{\string\UnicodeEmbedFont\space
824 ^^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.

```
825 ^^B \edef\uc@embedfont@fontstart{\number\uc@embedfont@fontstart}%
826 ^^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.

```
827 ^^B \ifx\uc@embedfont@num\undefined
828 ^^B \@tempcnta-\uc@embedfont@fontstart
829 ^^B \advance\@tempcnta by256
830 ^^B \edef\uc@embedfont@num{\number\@tempcnta}%
831 ^^B \fi
```

Start real work.

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

```
832 ^^B \@tempcnta0
833 ^^B \@tempcntb\uc@embedfont@fontstart
834 ^^B \loop\ifnum\@tempcnta<\uc@embedfont@num
```

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

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

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

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

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

```
838 ^^B \expandafter\DeclareUnicodeCharacterAsOptional
839 ^^B \expandafter{\expandafter\@tempcnta\expandafter}%
840 ^^B \expandafter{\expandafter\uc@embedfont@option\expandafter}%
841 ^^B \expandafter{\uc@temp@a}%
```


Restore tempcnta.

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

Increase loop variables.

```
843 ^^B \advance\@tempcntb by1
844 ^^B \advance\@tempcnta by1
845 ^^B \repeat
846 ^^B}
```

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

```
847 \@ucsutils@section\univerb
```

\uc@vbsetchar

```
848 ^^B\def\uc@vbsetchar#1#2{%
849 ^^B \catcode#1\active
850 ^^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 \unichar.
- All characters >= 128 are handled by the active inputencoding (try e.g. utf8).
- Combining mode is activated during the \univerb execution.
- Space (ASCII 32) does an implicit \unicodecombine.
- CR (ASCII 13) gives a line break (and an implicit \unicodecombine), but does not call \unichar{13}.
- Do not use [as the beginning of the verbatim sequence, this is reserved for future enhancements.

```
851 ^^B\DeclareRobustCommand\univerb[1] [] {\ifx\@nil#1\@nil\else\PackageError{ucs}{%
852 ^^B \string\univerb\space has optional argument}{%
853 ^^B \string\univerb[...] is not supported}\fi%
854 ^^B \bgroup
855 ^^B \@tempcnta\@ne
856 ^^B \loop\ifnum\@tempcnta<128\relax
857 ^^B \uc@vbsetchar\@tempcnta{\noexpand\unichar{\number\@tempcnta}}%
858 ^^B \advance\@tempcnta by\@ne
859 ^^B \repeat
860 ^^B \uc@vbsetchar{32}{\noexpand\unicodecombine\noexpand\unichar{32}}%
861 ^^B \uc@vbsetchar{13}{\noexpand\unicodecombine\noexpand\leavevmode\noexpand\\%
862 ^^B \noexpand\leavevmode}%
```

\verb@egroup

```
863 ^^B \def\verb@egroup{%
864 ^^B   \SetUnicodeOption{nocombine}%
865 ^^B   \global\let\verb@balance@group\@empty\egroup}%
866 ^^B \SetUnicodeOption{combine}%
867 ^^B \@sverb}
```

[[[TO BE DONE]]]

```
868 \@ucsutils@section\unistring
869 ^^B\def\uc@spacechar{\futurelet\uc@spacechar\empty}\expandafter\uc@spacechar\uc@spc
870 ^^B\def\@unistring#1{%
871 ^^B  \ifx\uc@temp@a\uc@spacechar
872 ^^B    \@temptokena\expandafter{\the\@temptokena\unicodecombine\unichar{32}}%
873 ^^B  \fi
874 ^^B  \ifx\tw@#1\else
875 ^^B    \ifx\@ne#1\else
876 ^^B      \ifnum'#1<128
877 ^^B        \@temptokena\expandafter{\the\@temptokena\unichar{'#1}}%
878 ^^B      \else
879 ^^B        \@temptokena\expandafter{\the\@temptokena#1}%
880 ^^B      \fi
881 ^^B    \fi%
882 ^^B    \expandafter\futurelet\expandafter\uc@temp@a\expandafter\@unistring
883 ^^B  \fi
884 ^^B}
885 ^^B\DeclareRobustCommand\unistring[1]{%
886 ^^B  \let\uc@temp@a\undefined
887 ^^B  \@temptokena{}%
888 ^^B  \@unistring\@ne#1\tw@
889 ^^B  {\SetUnicodeOption{combine}%
890 ^^B  \the\@temptokena
891 ^^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).

```
892 {\def\@#1{%
893   \ifx#1%
894   \uc@errmsg{Can't load \string#1}{You have given the option
895     \expandafter\@gobble\string#1 to ucsutils,\MessageBreak but
896     there is no command called \string#1 in ucsutils.sty.}%
897   \global\let#1\undefined
898   \fi}
899 \@ucsutils}%
```

Clean up.

```
900 \let\@ucsutils\undefined
901 \let\@ucsutils@section\undefined
902 \catcode2=15
903 %
904 %
905 %
906 </ucsutils.sty>
```

3.3 File utf8x.def

```
907 <*utf8x.def>
908 \ifx\ProvidesFile\undefined\else
909 \ProvidesFile{utf8x.def}[2023/11/09 UCS: Input encoding UTF-8]%
910
911 \ifx\uc@char@notloaded@\undefined
912
913 \PackageNoteNoLine{ucs}{%
914 utf8x\space disabled,\space assuming\space standard\space utf8\space processing\MessageBreak
915 load\space ucs\space package\space to\space force\space utf8x\space processing}
916
917 \let\ucs@parse@XML@charref\parse@XML@charref
918 \let\ucs@parse@UTFviii@a\parse@UTFviii@a
919 \let\ucs@parse@UTFviii@b\parse@UTFviii@b
920 \AddToHook{begindocument/end}{%
921 \let\parse@XML@charref\ucs@parse@XML@charref
922 \let\parse@UTFviii@a\ucs@parse@UTFviii@a
923 \let\parse@UTFviii@b\ucs@parse@UTFviii@b
924 }
925
926 \protected\def\unichar#1{%
927 \begingroup
928 \count@#1\relax
929 \ifnum\count@>127
930 \parse@XML@charref
931 \else
932 \edef\UTFviii@tmp{\char\the\count@\relax}%
933 \fi
934 \expandafter
935 \endgroup
936 \UTFviii@tmp
937 }
938 %
939 \def\inputencodingname{utf8}
940 % need to re-input this to undo the RawInputEncoding
941 \input{utf8.def}%
942 %
943 \expandafter\expandafter\expandafter\endinput
944 \fi
945 \fi
```

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

```
946 \expandafter\ifx\csname restore@utf@viii@actives\endcsname\relax\else
947 \csname restore@utf@viii@actives\endcsname\expandafter\endinput\fi
948 \count255=\catcode'\@catcode'\@11 %SPACE
949 \ifx@gobble\undefined\def@gobble#1{}\fi
950 \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.

```
951 \ifx\AtBeginDocument\undefined\else
952 \ifx\@nodocument\relax\else\expandafter\AtBeginDocument\fi
953 {\ifx\unichar\undefined{\PackageError{utf8x}{%
```



```

1005 \expandafter\unichar\expandafter{\number\count0}}%
1006 \def\utf@viii@make#1#2#3#4#5#6{%
1007 \count255=#1\relax
1008 \loop\ifnum\count255<#2\relax
1009 \catcode\count255\active
1010 \begingroup
1011 \uccode'\~\count255%
1012 \uccode'u'\u%
1013 \uppercase{%
1014 \endgroup
1015 \protected\edef~%
1016 #3{\noexpand\expandafter\noexpand\ifx\noexpand\csname u8-\number\count255-#4\noexpand\endcsname
1017 \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

```

1018 \let\noexpand\utf@viii@undeferr
1019 \noexpand\@gobble\noexpand\empty\noexpand\empty
1020 \noexpand\empty\noexpand\empty\noexpand\@gobbletwo\relax\relax
1021 % ===
1022 \noexpand\expandafter\endgroup
1023 % If \let not executed: \utf@viii@undeferr is called
1024 % otherwise: \utf@viii@undef.
1025 \noexpand\utf@viii@undeferr{\noexpand\string\noexpand~\noexpand\string#6}%
1026 \noexpand\utf@viii@undef{\number\count255}#5%
1027 \noexpand\else
1028 \noexpand\expandafter\noexpand\unichar\noexpand\expandafter{%
1029 \noexpand\csname u8-\number\count255-#4\noexpand\endcsname}\noexpand\fi}}%
1030 \advance\count255by1\relax
1031 \repeat}%

1032 \def\restore@utf@viii@actives{%
1033 \let\@inpenc@test\relax
1034 \utf@viii@make{194}{224}{###1}{\noexpand\string###1}{###1}\noexpand\@nil\noexpand\@nil
1035 \utf@viii@make{224}{240}{###1###2}{\noexpand\string###1\noexpand\string###2}{###1}{###2}
1036 \utf@viii@make{240}{245}{###1###2###3}{\noexpand\string###1\noexpand\string###2\noexpand\string###3}
1037 %
1038 \count255=128\relax
1039 \loop\ifnum\count255<192\relax
1040 \catcode\count255\active
1041 \begingroup
1042 \uccode'\~\count255 %SPACE
1043 \uppercase{%
1044 \endgroup
1045 \protected\edef~}%
1046 {\noexpand\utf@viii@err{\number\count255}}%
1047 \advance\count255by1\relax
1048 \repeat}%

1049 \def\utf@viii@map#1{%
1050 \begingroup
1051 \count0=#1\divide\count0by64\relax
1052 \ifnum#1<"80\relax
1053 % ASCII is not handled by utf8x.def

```

```

1054 \else\ifnum#1<"800\relax
1055   \count1=-\count0\multiply\count1by64\advance\count1by#1\relax
1056   \advance\count0by192\advance\count1by128\relax
1057   \begingroup
1058     \lccode'\B=\count1 %SPACE
1059     \lowercase{%
1060   \endgroup
1061 %     \tracingassigns=3 \tracingonline=3
1062   \expandafter\gdef\csname u8-\number\count0-B\endcsname}{#1}%
1063 \else\ifnum#1<"10000\relax
1064   \count2=-\count0\multiply\count2by64\advance\count2by#1\relax
1065   \divide\count0by64 %SPACE
1066   \count1=-\count0\multiply\count1by4096\advance\count1by#1%
1067   \divide\count1by64%
1068   \advance\count0by224\advance\count1by128\advance\count2by128 %SPACE
1069   \begingroup
1070     \lccode'\B=\count1 %SPACE
1071     \lccode'\C=\count2 %SPACE
1072     \lowercase{%
1073   \endgroup
1074   \expandafter\gdef\csname u8-\number\count0-BC\endcsname}{#1}%
1075 \else\ifnum#1<"110000 %SPACE
1076   \count3=-\count0\multiply\count3by64\advance\count3by#1\relax
1077   \divide\count0by64 %SPACE
1078   \count2=-\count0\multiply\count2by4096\advance\count2by#1%
1079   \divide\count2by64%
1080   \divide\count0by64 %SPACE
1081   \count1=-\count0\multiply\count1by262144\advance\count1by#1%
1082   \divide\count1by4096 %SPACE
1083 %   \typeout{\number#1=\number\count0*262144+\number\count1*4096+\number\count2*64+\number\count3}
1084   \advance\count0by240\advance\count1by128%
1085   \advance\count2by128\advance\count3by128 %SPACE
1086   \begingroup
1087     \lccode'\B=\count1 %SPACE
1088     \lccode'\C=\count2 %SPACE
1089     \lccode'\D=\count3 %SPACE
1090     \lowercase{%
1091   \endgroup
1092   \expandafter\gdef\csname u8-\number\count0-BCD\endcsname}{#1}%
1093 \else
1094   \PackageWarning{utf8x}{Invalid code position \number#1 \uc@spc
1095     defined,\MessageBreak unrepresentable in UTF-8}%
1096 \fi\fi\fi\fi
1097 \endgroup
1098 }
1099 \begingroup
1100 \lccode'\A='\{\lccode'\B='\}\lccode'\C='\%
1101 \lccode'\P='\P\lccode'\U='\U%
1102 \lowercase{%
1103 \endgroup
1104 \def\utf@viii@undeferr#1#2#3#4#5#6{%
1105   \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.lfd). Warns and corrects if necessary.

```
1106 \ifx\AtBeginDocument\undefined\else
1107 \ifx\@nodocument\relax\else
1108 \AtBeginDocument{%
1109 \begingroup
1110 \expandafter\def\expandafter\temp@a\expandafter#\expandafter1%
1111 \string\utf@viii@#2\@nil{%
1112 \ifx\@nil#2\@nil\count2\count0\else\count1\count0\fi}%
1113 \count0=128 \count1=0 \count2=0 %SPACE
1114 \loop\ifnum\count0<245 %SPACE
1115 \ifnum\count0=192 \advance\count0by2 \fi
1116 \lccode'\~\count0 %SPACE
1117 \ifnum\catcode\count0=13 %SPACE
1118 \lowercase{%
1119 \expandafter\expandafter\expandafter\temp@a\expandafter\meaning\expandafter~%
1120 \string\utf@viii@\@nil}%
1121 \else
1122 \count2\count0\fi
1123 \advance\count0by1 %SPACE
1124 \repeat
1125 \ifnum\count1=0 \else\ifnum\count2=0 \else
1126 \PackageWarning{utf8x.def}{Character(s) \number\count2\space\space
1127 etc. got redefined somewhere.\MessageBreak
1128 Restoring to its utf8x-meaning}%
1129 \aftergroup\restore@utf@viii@actives
1130 \fi\fi
1131 \endgroup}%
1132 \fi
1133 \fi
```

Restore @

```
1134 \catcode'\@=\count255\relax
1135 \csname restore@utf@viii@actives\endcsname
1136 %
1137 %
1138 </utf8x.def>
```

3.4 File ucsencs.def

```
1139 <*ucsencs.def>
1140 \ifx\ProvidesFile\undefined\else
1141 \ProvidesFile{ucsencs.def}[2011/01/21 Fixes to fontencodings LGR, T3]
1142 \fi
1143 \expandafter\edef\csname uc@temp@d\endcsname{%
1144 \noexpand\catcode'\noexpand\@=\number\catcode'\@ \relax
1145 \noexpand\catcode'\noexpand\~=\number\catcode'\~ \relax
1146 \noexpand\catcode'\noexpand\"=\number\catcode'\\" \relax
1147 \noexpand\catcode1=\number\catcode1 \relax
1148 \noexpand\catcode2=\number\catcode2 \relax
1149 }%
1150 \catcode'\@11
1151 \catcode'\\"12
1152 \ifx\@backslashchar\undefined
1153 \edef\@backslashchar{\expandafter\@gobble\string\\}\fi
```

```

1154 \catcode'\~7
1155 \@tempcnta\catcode1
1156 \@tempcntb\catcode2
1157 \catcode1=13\relax
1158 \def\uc@temp@c#1
1159 {}%
1160 \def^^A#1{%
1161   \let\uc@temp@a\undefined
1162 %   \ifx#1\newcommand\let\uc@temp@a\providecommand\fi
1163   \ifx#1\def\let\uc@temp@a\thr@@\fi
1164   \ifx#1\DeclareTextSymbol\let\uc@temp@a\@ne\fi
1165   \ifx#1\DeclareTextComposite\let\uc@temp@a\tw@\fi
1166   \ifx#1\DeclareTextCommand\let\uc@temp@a\@ne\fi
1167   \ifx#1\DeclareTextAccent\let\uc@temp@a\@ne\fi
1168   \ifx#1\DeclareTextCompositeCommand\let\uc@temp@a\tw@\fi
1169   \ifx#1\typeout\let\uc@temp@a\typeout\fi
1170   \ifx\uc@temp@a\@ne
1171     \def\uc@temp@a##1##2{%
1172       \expandafter\ifx\csname ##2\string##1\endcsname\relax
1173         \expandafter#1%
1174       \else
1175         \wlog{##2\string##1 already defined.}%
1176         \expandafter\uc@temp@c
1177       \fi##1{##2}}%
1178   \fi
1179   \ifx\uc@temp@a\tw@
1180     \def\uc@temp@a##1##2##3{%
1181       \expandafter\ifx\csname \@backslashchar##2\string##1-\string##3\endcsname\relax
1182         \expandafter#1%
1183       \else
1184         \wlog{\@backslashchar##2\string##1-\string##3 already defined.}%
1185         \expandafter\uc@temp@c
1186       \fi##1{##2}##3}%
1187   \fi
1188   \ifx\uc@temp@a\thr@@
1189     \def\uc@temp@a##1{%
1190       \ifx##1\undefined
1191         \expandafter\def\expandafter##1%
1192       \else
1193         \expandafter\def\expandafter\uc@temp@a
1194       \fi}
1195   \fi
1196   \ifx\uc@temp@a\undefined
1197     \errmessage{ucsencs.def: Dont know how to handle \string#1}%
1198     \let\uc@temp@a#1%
1199   \fi
1200   \uc@temp@a}
1201 \def\uc@temp@b#1{\expandafter\ifx\csname T0#1\endcsname\relax
1202   \catcode1=14\relax\catcode2=14\relax
1203   \else\catcode1=13\relax\catcode2=9\relax\fi}%
1204 \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`).

```

1205 \ProvideTextCommandDefault{\textascii}[1]{\@textascii{#1}}%
1206 \def\@textascii#1{\expandafter\@textascii\string#1\empty\@nil}%
1207 \def\@textascii#1#2\@nil{\ifx#2\empty#1\else#2\fi}%
1208 \def\textasciiencoding{\encodingdefault}%
1209 \def\@textascii@switch#1{\begingroup\use@text@encoding{\textasciiencoding}\def\textasciienc
1210 \let\uc@text@composite\@text@composite
1211 \def\@text@composite#1#2#3\@text@composite{%
1212   \ifx\textascii#2\expandafter\@secondoftwo\else\expandafter\@firstoftwo\fi
1213   {\uc@text@composite{#1}{#2}{#3}\@text@composite}%
1214   {\uc@text@composite{#1}{#3}\@text@composite}}%
1215 %
1216 \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
- `\greekperispomeniiota`: Perispomeni + subscript iota
- `\greekdasiaoxiaiota`: Dasia and oxia + subscript iota
- `\greekdasiavariiaiota`: Dasia and varia + subscript iota
- `\greekdasiaperispomeniiota`: Perispomeni over dasia + subscript iota
- `\greekpsilioxiaiota`: Psili and oxia + subscript iota
- `\greekpsilivariiaiota`: Psili and varia + subscript iota
- `\greekpsiliperispomeniiota`: Perispomeni over psili + subscript iota

```

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

```

1248 ^^A\DeclareTextAccent{\'}{LGR}{"27}
1249 ^^A\DeclareTextCommand{\textoxia}{LGR}[1]{\@tabacckludge'#{1}}
1250 ^^A\DeclareTextSymbol{\textparenleft}{LGR}{"28}
1251 ^^A\DeclareTextSymbol{\textparenright}{LGR}{"29}
1252 % 2A asterisk
1253 % 2B plus
1254 % 2C comma
1255 % 2D hyphen
1256 % 2E period
1257 % 2F slash
1258 % 30--39 digits 0-9
1259 % 3A colon
1260 ^^A\DeclareTextSymbol{\textanoteleia}{LGR}{"3B}
1261 ^^A\DeclareTextAccent{\textdasia}{LGR}{"3C}
1262 % 3D equal
1263 ^^A\DeclareTextAccent{\textpsili}{LGR}{"3E}
1264 ^^A\DeclareTextSymbol{\textquestion}{LGR}{"3F}
1265 ^^A\DeclareTextAccent{\textdasiaperispomeni}{LGR}{"40}
1266 ^^A\DeclareTextSymbol{\textAlpha}{LGR}{"41}
1267 ^^A\DeclareTextSymbol{\textBeta}{LGR}{"42}
1268 ^^A\DeclareTextAccent{\textdasiavaria}{LGR}{"43}
1269 ^^A\DeclareTextSymbol{\textDelta}{LGR}{"44}
1270 ^^A\DeclareTextSymbol{\textEpsilon}{LGR}{"45}
1271 ^^A\DeclareTextSymbol{\textPhi}{LGR}{"46}
1272 ^^A\DeclareTextSymbol{\textGamma}{LGR}{"47}
1273 ^^A\DeclareTextSymbol{\textEta}{LGR}{"48}
1274 ^^A\DeclareTextSymbol{\textIota}{LGR}{"49}
1275 ^^A\DeclareTextSymbol{\textTheta}{LGR}{"4A}
1276 ^^A\DeclareTextSymbol{\textKappa}{LGR}{"4B}
1277 ^^A\DeclareTextSymbol{\textLambda}{LGR}{"4C}
1278 ^^A\DeclareTextSymbol{\textMu}{LGR}{"4D}
1279 ^^A\DeclareTextSymbol{\textNu}{LGR}{"4E}
1280 ^^A\DeclareTextSymbol{\textOmicron}{LGR}{"4F}
1281 ^^A\DeclareTextSymbol{\textPi}{LGR}{"50}
1282 ^^A\DeclareTextSymbol{\textChi}{LGR}{"51}
1283 ^^A\DeclareTextSymbol{\textRho}{LGR}{"52}
1284 ^^A\DeclareTextSymbol{\textSigma}{LGR}{"53}
1285 ^^A\DeclareTextSymbol{\textTau}{LGR}{"54}
1286 ^^A\DeclareTextSymbol{\textUpsilon}{LGR}{"55}
1287 ^^A\DeclareTextAccent{\textdasiaoxia}{LGR}{"56}
1288 ^^A\DeclareTextSymbol{\textOmega}{LGR}{"57}
1289 ^^A\DeclareTextSymbol{\textXi}{LGR}{"58}
1290 ^^A\DeclareTextSymbol{\textPsi}{LGR}{"59}
1291 ^^A\DeclareTextSymbol{\textZeta}{LGR}{"5A}
1292 % 5B left bracket '['
1293 ^^A\DeclareTextAccent{\textpsiliperispomeni}{LGR}{"5C}
1294 % 5D right bracket
1295 ^^A\DeclareTextAccent{\textpsilioxia}{LGR}{"5E}
1296 ^^A\DeclareTextAccent{\textpsilivaria}{LGR}{"5F}
1297 ^^A\DeclareTextAccent{\'}{LGR}{"60}
1298 ^^A\DeclareTextSymbol{\textalpha}{LGR}{"61}
1299 ^^A\DeclareTextSymbol{\textbeta}{LGR}{"62}
1300 ^^A\DeclareTextSymbol{\textvarsigma}{LGR}{"63}
1301 ^^A\DeclareTextSymbol{\textdelta}{LGR}{"64}

```

1302 ^^A\DeclareTextSymbol{\textepsilon}{LGR}{"65}
1303 ^^A\DeclareTextSymbol{\textphi}{LGR}{"66}
1304 ^^A\DeclareTextSymbol{\textgamma}{LGR}{"67}
1305 ^^A\DeclareTextSymbol{\texteta}{LGR}{"68}
1306 ^^A\DeclareTextSymbol{\textiota}{LGR}{"69}
1307 ^^A\DeclareTextSymbol{\texttheta}{LGR}{"6A}
1308 ^^A\DeclareTextSymbol{\textkappa}{LGR}{"6B}
1309 ^^A\DeclareTextSymbol{\textlambda}{LGR}{"6C}
1310 ^^A\DeclareTextSymbol{\textmu}{LGR}{"6D}
1311 ^^A\DeclareTextSymbol{\textnu}{LGR}{"6E}
1312 ^^A\DeclareTextSymbol{\textomicron}{LGR}{"6F}
1313 ^^A\DeclareTextSymbol{\textpi}{LGR}{"70}
1314 ^^A\DeclareTextSymbol{\textchi}{LGR}{"71}
1315 ^^A\DeclareTextSymbol{\textrho}{LGR}{"72}
1316 ^^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.

```

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

```

```

1351 ^^A\DeclareTextComposite{\'}{LGR}{\textalpha}{88}
1352 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textalpha}{89}
1353 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textalpha}{8A}
1354 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textalpha}{8B}
1355 % 8C--8F subiota combinations are created correctly
1356 ^^A\DeclareTextComposite{\~}{LGR}{\textalpha}{90}
1357 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textalpha}{91}
1358 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textalpha}{92}
1359 ^^A\DeclareTextSymbol{\textdigamma}{LGR}{93}
1360 % 94--96 subiota combinations are created correctly
1361 % 97 TODO
1362 ^^A\DeclareTextComposite{\'}{LGR}{\texteta}{98}
1363 ^^A\DeclareTextComposite{\textdasia}{LGR}{\texteta}{99}
1364 ^^A\DeclareTextComposite{\textpsili}{LGR}{\texteta}{9A}
1365 % 9B undefined
1366 % 9C--9E subiota combinations are created correctly
1367 % 9F undefined
1368 ^^A\DeclareTextComposite{\'}{LGR}{\texteta}{A0}
1369 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\texteta}{A1}
1370 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\texteta}{A2}
1371 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\texteta}{A3}
1372 % A4--A7 subiota combinations are created correctly
1373 ^^A\DeclareTextComposite{\~}{LGR}{\texteta}{A8}
1374 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\texteta}{A9}
1375 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\texteta}{AA}
1376 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\texteta}{AB}
1377 % AC--AF subiota combinations are created correctly
1378 ^^A\DeclareTextComposite{\'}{LGR}{\textomega}{B0}
1379 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textomega}{B1}
1380 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textomega}{B2}
1381 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textomega}{B3}
1382 % B4--B7 subiota combinations are created correctly
1383 ^^A\DeclareTextComposite{\'}{LGR}{\textomega}{B8}
1384 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textomega}{B9}
1385 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textomega}{BA}
1386 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textomega}{BB}
1387 % BC--BF subiota combinations are created correctly
1388 ^^A\DeclareTextComposite{\~}{LGR}{\textomega}{C0}
1389 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textomega}{C1}
1390 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textomega}{C2}
1391 ^^A\DeclareTextSymbol{\textDigamma}{LGR}{C3}
1392 % C4--C6 subiota combinations are created correctly
1393 % C7 undefined
1394 ^^A\DeclareTextComposite{\'}{LGR}{\textiota}{C8}
1395 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textiota}{C9}
1396 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textiota}{CA}
1397 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textiota}{CB}
1398 ^^A\DeclareTextComposite{\'}{LGR}{\textupsilon}{CC}
1399 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textupsilon}{CD}
1400 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textupsilon}{CE}
1401 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textupsilon}{CF}
1402 ^^A\DeclareTextComposite{\'}{LGR}{\textiota}{D0}
1403 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textiota}{D1}
1404 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textiota}{D2}

```

```

1405 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textiota}{"D3}
1406 ^^A\DeclareTextComposite{\'}{LGR}{\textupsilon}{"D4}
1407 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textupsilon}{"D5}
1408 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textupsilon}{"D6}
1409 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textupsilon}{"D7}
1410 ^^A\DeclareTextComposite{\~}{LGR}{\textiota}{"D8}
1411 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textiota}{"D9}
1412 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textiota}{"DA}
1413 ^^A\DeclareTextComposite{\"}{LGR}{\textIota}{"DB}
1414 ^^A\DeclareTextComposite{\~}{LGR}{\textupsilon}{"DC}
1415 ^^A\DeclareTextComposite{\textdasiaperispomeni}{LGR}{\textupsilon}{"DD}
1416 ^^A\DeclareTextComposite{\textpsiliperispomeni}{LGR}{\textupsilon}{"DE}
1417 ^^A\DeclareTextComposite{\"}{LGR}{\textUpsilon}{"DF}
1418 ^^A\DeclareTextComposite{\'}{LGR}{\textepsilon}{"E0}
1419 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textepsilon}{"E1}
1420 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textepsilon}{"E2}
1421 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textepsilon}{"E3}
1422 ^^A\DeclareTextComposite{\'}{LGR}{\textomicron}{"E4}
1423 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textomicron}{"E5}
1424 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textomicron}{"E6}
1425 ^^A\DeclareTextComposite{\textdasiavaria}{LGR}{\textomicron}{"E7}
1426 ^^A\DeclareTextComposite{\'}{LGR}{\textepsilon}{"E8}
1427 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textepsilon}{"E9}
1428 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textepsilon}{"EA}
1429 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textepsilon}{"EB}
1430 ^^A\DeclareTextComposite{\'}{LGR}{\textomicron}{"EC}
1431 ^^A\DeclareTextComposite{\textdasiaoxia}{LGR}{\textomicron}{"ED}
1432 ^^A\DeclareTextComposite{\textpsilioxia}{LGR}{\textomicron}{"EE}
1433 ^^A\DeclareTextComposite{\textpsilivaria}{LGR}{\textomicron}{"EF}
1434 ^^A\DeclareTextComposite{\"}{LGR}{\textiota}{"F0}
1435 ^^A\DeclareTextComposite{\textdialytikavaria}{LGR}{\textiota}{"F1}
1436 ^^A\DeclareTextComposite{\textdialytikonos}{LGR}{\textiota}{"F2}
1437 ^^A\DeclareTextComposite{\textdialytikaperispomeni}{LGR}{\textiota}{"F3}
1438 ^^A\DeclareTextComposite{\"}{LGR}{\textupsilon}{"F4}
1439 ^^A\DeclareTextComposite{\textdialytikavaria}{LGR}{\textupsilon}{"F5}
1440 ^^A\DeclareTextComposite{\textdialytikonos}{LGR}{\textupsilon}{"F6}
1441 ^^A\DeclareTextComposite{\textdialytikaperispomeni}{LGR}{\textupsilon}{"F7}
1442 % F8--FA subiota combinations are created correctly
1443 ^^A\DeclareTextComposite{\textdasia}{LGR}{\textrho}{"FB}
1444 ^^A\DeclareTextComposite{\textpsili}{LGR}{\textrho}{"FC}
1445 % FD undefined
1446 ^^A\DeclareTextSymbol{\textdexiakeraia}{LGR}{"FE}
1447 ^^A\DeclareTextSymbol{\textaristerikeraia}{LGR}{"FF}

```

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

```

1448 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textAlpha}{'A}
1449 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textAlpha}{'A}
1450 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textAlpha}{>A}
1451 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textAlpha}{<A}
1452 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textAlpha}{\char"5F A}
1453 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textAlpha}{CA}
1454 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textAlpha}{\char"5E A}
1455 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textAlpha}{VA}

```

```

1456 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textAlpha}{\char"5C A}
1457 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textAlpha}{@A}
1458 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textEpsilon}{'E}
1459 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textEpsilon}{'E}
1460 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textEpsilon}{>E}
1461 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textEpsilon}{<E}
1462 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textEpsilon}{\char"5F E}
1463 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textEpsilon}{CE}
1464 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textEpsilon}{\char"5E E}
1465 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textEpsilon}{VE}
1466 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textEta}'H}
1467 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textEta}'H}
1468 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textEta}{>H}
1469 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textEta}{<H}
1470 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textEta}{\char"5F H}
1471 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textEta}{CH}
1472 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textEta}{\char"5E H}
1473 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textEta}{VH}
1474 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textEta}{\char"5C H}
1475 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textEta}{@H}
1476 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textIota}'I}
1477 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textIota}'I}
1478 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textIota}{>I}
1479 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textIota}{<I}
1480 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textIota}{\char"5F I}
1481 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textIota}{CI}
1482 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textIota}{\char"5E I}
1483 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textIota}{VI}
1484 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textIota}{\char"5C I}
1485 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textIota}{@I}
1486 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmicron}'O}
1487 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmicron}'O}
1488 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textOmicron}{>O}
1489 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textOmicron}{<O}
1490 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textOmicron}{\char"5F O}
1491 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textOmicron}{CO}
1492 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textOmicron}{\char"5E O}
1493 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textOmicron}{VO}
1494 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textUpsilon}'U}
1495 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textUpsilon}'U}
1496 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textUpsilon}{<U}
1497 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textUpsilon}{CU}
1498 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textUpsilon}{VU}
1499 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textUpsilon}{@U}
1500 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmega}'W}
1501 ^^A\DeclareTextCompositeCommand{\'}{LGR}{\textOmega}'W}
1502 ^^A\DeclareTextCompositeCommand{\textpsili}{LGR}{\textOmega}{>W}
1503 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textOmega}{<W}
1504 ^^A\DeclareTextCompositeCommand{\textpsilivaria}{LGR}{\textOmega}{\char"5F W}
1505 ^^A\DeclareTextCompositeCommand{\textdasiavaria}{LGR}{\textOmega}{CW}
1506 ^^A\DeclareTextCompositeCommand{\textpsilioxia}{LGR}{\textOmega}{\char"5E W}
1507 ^^A\DeclareTextCompositeCommand{\textdasiaoxia}{LGR}{\textOmega}{VW}
1508 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeni}{LGR}{\textOmega}{\char"5C W}
1509 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeni}{LGR}{\textOmega}{@W}

```

```

1510 ^^A\DeclareTextCompositeCommand{\textpsiliiota}{LGR}{\textOmega}{>W|}
1511 ^^A\DeclareTextCompositeCommand{\textdasiiota}{LGR}{\textOmega}{<W|}
1512 ^^A\DeclareTextCompositeCommand{\textpsilivariiota}{LGR}{\textOmega}{\char"5F W|}
1513 ^^A\DeclareTextCompositeCommand{\textdasiavariiota}{LGR}{\textOmega}{CW|}
1514 ^^A\DeclareTextCompositeCommand{\textpsilioxiiota}{LGR}{\textOmega}{\char"5E W|}
1515 ^^A\DeclareTextCompositeCommand{\textdasiaoxiiaiota}{LGR}{\textOmega}{VW|}
1516 ^^A\DeclareTextCompositeCommand{\textpsiliperispomeniiaiota}{LGR}{\textOmega}{\char"5C W|}
1517 ^^A\DeclareTextCompositeCommand{\textdasiaperispomeniiaiota}{LGR}{\textOmega}{@W|}
1518 ^^A\DeclareTextCompositeCommand{\textdasia}{LGR}{\textRho}{<R}

```

Uppercase-lowercase mapping:

```

1519 \ifx@\uclclist\undefined\else
1520 ^^A\def\update@uclc@with@text{%
1521 ^^B \expandafter\def\expandafter@\uclclist\expandafter
1522 ^^B {\@uclclist

```

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

```

1523 ^^B \textalpha\textAlpha \textbeta\textBeta \textdelta\textDelta
1524 ^^B \textepsilon\textEpsilon \textphi\textPhi
1525 ^^B \textgamma\textGamma \texteta\textEta \textiota\textIota
1526 ^^B \texttheta\textTheta \textkappa\textKappa
1527 ^^B \textlambda\textLambda \textmu\textMu \textnu\textNu
1528 ^^B \textomicron\textOmicron \textpi\textPi \textchi\textChi
1529 ^^B \extrho\textRho \textsigma\textSigma
1530 ^^B \textvarsigma\textSigma \textautosigma\textSigma
1531 ^^B \texttau\textTau \textupsilon\textUpsilon
1532 ^^B \textomega\textOmega \textxi\textXi \textpsi\textPsi
1533 ^^B \textzeta\textZeta \textdigamma\textDigamma}%
1534 ^^B \let\update@uclc@with@text\empty}
1535 ^^B\update@uclc@with@text
1536 \fi
1537 ^^A\typeout{fontencoding LGR patched}

```

Patches for encoding T3 follow

```

1538 \uc@temp@b{T3}
1539 \def\ifxx#1#2{\toks255{#1=#2}\typeout{ifx:\the\toks255}\ifx#1#2}

```

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

```

1540 ^^A\DeclareTextSymbol{\textscriptg}{T3}{103}
1541 ^^A\DeclareTextCommand{\textascii}{T3}[1]{\ifx#1g\char164 \else\@textascii{#1}\fi}
1542 ^^A\typeout{fontencoding T3 patched}

```

Patches for encoding T5 follow

```

1543 \uc@temp@b{T5}
1544 ^^A\DeclareTextCompositeCommand{\~}{T5}{\i}{\~i}
1545 ^^A\DeclareTextCompositeCommand{\`}{T5}{\i}{\`i}
1546 ^^A\DeclareTextCompositeCommand{\'}{T5}{\i}{\`i}
1547 ^^A\typeout{fontencoding T5 patched}

```


Patches for encoding T4 follow

```
1548 \uc@temp@b{T4}
1549 ^^A\DeclareTextCommand\texthbar{T4}{\B h}
1550 ^^A\DeclareTextCommand\textHbar{T4}{\B H}
1551 ^^A\DeclareTextCommand\textbhook{T4}{\m b}
1552 ^^A\DeclareTextCommand\textBhook{T4}{\m B}
1553 ^^A\DeclareTextCommand\textdhook{T4}{\m d}
1554 ^^A\DeclareTextCommand\textDhook{T4}{\m D}
1555 ^^A\DeclareTextCommand\texteopen{T4}{\m e}
1556 ^^A\DeclareTextCommand\textEopen{T4}{\m E}
1557 ^^A\DeclareTextCommand\textschwa{T4}{\M e}
1558 ^^A\DeclareTextCommand\texteturned{T4}{\M e}
1559 ^^A\DeclareTextCommand\textEreversed{T4}{\M E}
1560 ^^A\DeclareTextCommand\textGammaafrican{T4}{\m G}
1561 ^^A\DeclareTextCommand\textgammalatinsmall{T4}{\m g}
1562 ^^A\DeclareTextCommand\textKhook{T4}{\m K}
1563 ^^A\DeclareTextCommand\textkhook{T4}{\m k}
1564 ^^A\DeclareTextCommand\textDafrican{T4}{\M D}
1565 ^^A\DeclareTextCommand\textdtail{T4}{\M d}
1566 ^^A\DeclareTextCommand\textTretroflexhook{T4}{\M T}
1567 ^^A\DeclareTextCommand\texttretroflexhook{T4}{\M t}
1568 ^^A\DeclareTextCommand\textOopen{T4}{\m O}
1569 ^^A\DeclareTextCommand\textoopen{T4}{\m o}
1570 ^^A\DeclareTextCommand\textIotafrican{T4}{\m I}
1571 ^^A\DeclareTextCommand\textiotalatin{T4}{\m i}
1572 ^^A\DeclareTextCommand\textFhook{T4}{\m F}
1573 ^^A\DeclareTextCommand\textflorin{T4}{\m f}
1574 ^^A\DeclareTextCommand\textYhook{T4}{\m Y}
1575 ^^A\DeclareTextCommand\textyhook{T4}{\m y}
1576 ^^A\DeclareTextCommand\textEsh{T4}{\m S}
1577 ^^A\DeclareTextCommand\textesh{T4}{\m s}
1578 ^^A\DeclareTextCommand\textThook{T4}{\m T}
1579 ^^A\DeclareTextCommand\textthook{T4}{\m t}
1580 ^^A\DeclareTextCommand\textEzh{T4}{\m Z}
1581 ^^A\DeclareTextCommand\textezh{T4}{\m z}
1582 ^^A\DeclareTextCommand\textChook{T4}{\m C}
1583 ^^A\DeclareTextCommand\textchook{T4}{\m c}
1584 ^^A\DeclareTextCommand\textTbar{T4}{\B T}
1585 ^^A\DeclareTextCommand\texttbar{T4}{\B t}
1586 ^^A\DeclareTextCommand\textVhook{T4}{\m V}
1587 ^^A\DeclareTextCommand\textvhook{T4}{\m v}
1588 ^^A\DeclareTextCommand\textPhook{T4}{\m P}
1589 ^^A\DeclareTextCommand\textphook{T4}{\m p}
1590 ^^A\DeclareTextCommand\textNhookleft{T4}{\m J}
1591 ^^A\DeclareTextCommand\textnhookleft{T4}{\m j}
1592 ^^A\DeclareTextCommand\texttresh{T4}{\tsh}
1593 ^^A\DeclareTextCompositeCommand{\~}{T4}{\textEopen}{\T E}
1594 ^^A\DeclareTextCompositeCommand{\~}{T4}{\texteopen}{\T e}
1595 ^^A\DeclareTextCompositeCommand{\~}{T4}{\textOopen}{\T O}
1596 ^^A\DeclareTextCompositeCommand{\~}{T4}{\textoopen}{\T o}
1597 ^^A\DeclareTextSymbol\textexclamdown{T4}{'275}
1598 ^^A\DeclareTextSymbol\textquestiondown{T4}{'276}
1599 ^^A\DeclareTextAccent\textdblgravecmb{T4}{'237}
```

```
1600 ^^A\typeout{fontencoding T4 patched}
```

Clean up.

```
1601 \uc@temp@d
1602 %
1603 %
1604 </ucsencs.def>
```

4 Contributed files

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

4.1 File autofe.sty

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

```

1641 \def\DeclareTextSymbol#1#2#3{%
1642   %{\toks255{\autofe@DeclareTextSymbol{#1}{#2}{#3}}\typeout{Running \the\toks255}}%
1643   \ifx\autofe@mode0\else\expandafter\autofe@defdef\expandafter{#2}{\autofe@ProvideTextComman
1644   \autofe@DeclareTextSymbol{#1}{#2}{#3}}%
1645 }
1646
1647 \def\autofe@defdef#1#2#3{%
1648   \begingroup
1649   \def\temp@a{#1}\def\temp@b{?}%
1650   \ifx\temp@a\temp@b
1651     \let\temp@a\@gobbletwo
1652   \else
1653     \ifx\autofe@mode1%
1654       \let\temp@a\@firstoftwo
1655     \else
1656       \let\temp@a\@secondoftwo
1657     \fi
1658   \fi
1659   \expandafter\endgroup
1660   \temp@a
1661   {#2{\fontencoding{#1}\selectfont#3}}%
1662   {#2{\fontencoding{#1}\selectfont#3}}%
1663 }
1664
1665 \def\autofe@options{}
1666 \def\autofe@add@fe#1{\g@addto@macro\autofe@options{\RequirePackage[#1]{fontenc}}}
1667 %\DeclareOption{global}{\PackageError{autofe}{Option global not supported yet}{Changing to 1
1668 \DeclareOption{global}{\g@addto@macro\autofe@options{\let\autofe@mode2}}
1669 \DeclareOption{local}{\g@addto@macro\autofe@options{\let\autofe@mode1}}
1670 \DeclareOption{off}{\g@addto@macro\autofe@options{\let\autofe@mode0}}
1671 \DeclareOption*{\expandafter\autofe@add@fe\expandafter{\CurrentOption}}
1672 \ProcessOptions*
1673
1674 \typeout{\meaning\autofe@options}
1675 \autofe@options
1676
1677 \let\autofe@options\undefined
1678 \let\autofe@add@fe\undefined
1679
1680 %
1681 %
1682 </autofe.sty>

```

4.2 File cenccmn.tex

```

1683 < *cenccmn.tex >
1684 \ProvidesFile{cenccmn.tex}[2001/10/25
1685   Macros common to fontencodings C00, C40, C61]%
1686 %\gdef\CJK@plane{***__SET_CJK@plane_before_using_fontencoding_%
1687 % \f@encoding__***}
1688 \def\CJK@empty#1{%
1689   \ifx\CJK@plane\undefined\def\mandatory@arg{cmr10}\else
1690   \edef\mandatory@arg{\mandatory@arg\CJK@plane}\fi%
1691   \empty@sfcnt#1%

```

```

1692 \xdef\font@name{\csname \curr@fontshape/\f@size/%
1693 \ifx\CJK@plane\undefined\else\CJK@plane\fi\endcsname}}
1694 \def\CJK@sub#1{%
1695 \expandafter\ifx\csname CJK@\mandatory@arg/\f@size\endcsname\relax
1696 \expandafter\gdef\csname CJK@\mandatory@arg/\f@size\endcsname{}%
1697 \sub@sfcnt#1%
1698 \else
1699 \sub@sfcnt\@gobble
1700 \fi}
1701 \def\CJK@DNPgen{%
1702 \ifx\CJK@plane\undefined\def\external@font{cmr10}\else
1703 \edef\external@font{%
1704 \mandatory@arg\CJK@plane\f@size}\fi
1705 \xdef\font@name{%
1706 \csname \curr@fontshape/\f@size/%
1707 \ifx\CJK@plane\undefined\else\CJK@plane\fi\endcsname}}%
1708 \def\CJK@DNP{%
1709 \ifx\CJK@plane\undefined\def\external@font{cmr10}\else
1710 \@tempdimb \f@size\p@
1711 \edef\external@font{%
1712 \mandatory@arg\CJK@plane\optional@arg\space at \the\@tempdimb}\fi
1713 \xdef\font@name{%
1714 \csname \curr@fontshape/\f@size/%
1715 \ifx\CJK@plane\undefined\else\CJK@plane\fi\endcsname\endcsname}}
1716 %
1717 \DeclareSizeFunction{CJK}{\CJK@empty\@font@warning}
1718 \DeclareSizeFunction{CJKb}{\CJK@empty\@font@warning}
1719 \DeclareSizeFunction{sCJK}{\CJK@empty\@font@info}
1720 \DeclareSizeFunction{sCJKb}{\CJK@empty\@font@info}
1721 \DeclareSizeFunction{CJKsub}{\CJK@sub\@font@warning}
1722 \DeclareSizeFunction{CJKssub}{\CJK@sub\@font@info}
1723 \DeclareSizeFunction{DNPgen}{\CJK@DNPgen}
1724 \DeclareSizeFunction{DNPgenb}{\CJK@DNPgen}
1725 \DeclareSizeFunction{DNP}{\CJK@DNP}
1726 \DeclareSizeFunction{DNPb}{\CJK@DNP}
1727 %
1728 \@ifpackageloaded{CJK}{-}{%
1729 \AtBeginDocument{%
1730 \ifpackageloaded{CJK}{%
1731 \PackageError{fontenc C??}{Load fontencoding C00/C40/... after CJK}{%
1732 Otherwise strange things may happen, when you use those encodings}}{}}
1733 \def\CJKresetplane{\let\CJK@plane\undefined}
1734 %%% Local Variables:
1735 %%% mode: latex
1736 %%% coding: utf-8
1737 %%% TeX-master: "../test.tex"
1738 %%% End:
1739 %%% Local IspellDict: british
1740 %
1741 \</cencmn.tex>

```

4.3 File c00enc.def

```

1742 \<*c00enc.def>

```

```

1743 \ProvidesFile{c00enc.def}[2001/10/11 Fontencoding C00 (Big5)]%
1744 \DeclareFontEncoding{C00}{-}{-}%
1745 \DeclareFontSubstitution{C00}{song}{m}{n}%
1746 \input{cencmn.tex}%
1747 \expandafter\let\csname C00/song/m/n\endcsname\undefined
1748 %
1749 </c00enc.def>

```

4.4 File c10enc.def

```

1750 <*c10enc.def>
1751 \ProvidesFile{c10enc.def}[2001/10/11 Fontencoding C10 (Big5)]%
1752 \DeclareFontEncoding{C10}{-}{-}%
1753 \DeclareFontSubstitution{C10}{song}{m}{n}%
1754 \input{cencmn.tex}%
1755 \expandafter\let\csname C10/song/m/n\endcsname\undefined
1756 %
1757 </c10enc.def>

```

4.5 File c40enc.def

```

1758 <*c40enc.def>
1759 \ProvidesFile{c40enc.def}[2002/11/25 Fontencoding C40 (JIS)]%
1760 \DeclareFontEncoding{C40}{-}{-}%
1761 \DeclareFontSubstitution{C40}{song}{m}{n}%
1762 \input{cencmn.tex}%
1763 \expandafter\let\csname C40/song/m/n\endcsname\undefined
1764 \def\cjk@Cforty#1#2#3#4{% Takes JIS0208 codepos in hex
1765   {%
1766     \count0="#1#2
1767     \multiply\count0 by94
1768     \advance\count0 by"#3#4
1769     \advance\count0 by-"B3F
1770     \count1\count0
1771     \divide\count0 by256
1772     \multiply\count0 by256
1773     \advance\count1 by-\count0
1774     \divide\count0 by256
1775     %\typeout{C0=\number\count0, C1=\number\count1}%
1776     \edef\temp@a{\ifnum\count0<10 0\fi\number\count0}%
1777     \edef\temp@b{\ifx\temp@a\CJK@plane\else
1778       \def\noexpand\CJK@plane{\temp@a}\noexpand\selectfont\fi
1779       \char\number\count@\ne\space}%
1780     %\typeout{C40: \meaning\temp@b}%
1781     \expandafter}\temp@b%
1782   }%
1783 \DeclareTextCommand\jischar{C40}[1]{\cjk@Cforty#1}
1784 \DeclareTextCommandDefault\jischar[1]{\fontencoding{C40}%
1785   \let\CJK@plane\undefined\cjk@Cforty#1}}
1786 %
1787 %
1788 </c40enc.def>

```

4.6 File c42enc.def

```

1789 <*c42enc.def>
1790 \ProvidesFile{c42enc.def}[2002/11/25 Fontencoding C42 (JISdnp)]%
1791 \DeclareFontEncoding{C42}{-}{-}%
1792 \DeclareFontSubstitution{C42}{song}{m}{n}%
1793 \input{cenccmn.tex}%
1794 \expandafter\let\csname C42/song/m/n\endcsname\undefined
1795 \def\cjk@Cfrttw@#1#2#3{%
1796   \advance\count1 by#3
1797   \ifnum\count1>256\advance\count1by-256\def\temp@a{#2}\else\def\temp@a{#1}\fi
1798   %\typeout{#1/#2/#3, \meaning\temp@a, \number\count1}%
1799 }
1800 \def\cjk@Cfrttw#1#2#3#4{% Takes JIS0208 codepos in hex
1801   %\typeout{JIS: #1#2#3#4}%
1802   {%
1803     \count0=#1#2 \count1=#3#4
1804     \advance\count0by-33
1805     \expandafter\cjk@Cfrttw@
1806     \ifcase\count0
1807     {sy}{err}{-32}\or % 0
1808     {sy}{err}{68}\or % 1
1809     {roma}{err}{0}\or % 2
1810     {hira}{err}{-32}\or % 3
1811     {kata}{err}{-32}\or % 4
1812     {greek}{err}{-32}\or % 5
1813     {russian}{err}{-32}\or % 6
1814     {keisen}{err}{-32}\or % 7
1815     {err}{err}{128}\or % 8
1816     {err}{err}{128}\or % 9
1817     {err}{err}{128}\or % 10
1818     {err}{err}{128}\or % 11
1819     {err}{err}{128}\or % 12
1820     {err}{err}{128}\or % 13
1821     {err}{err}{128}\or % 14
1822     {ka}{err}{-33}\or % 15
1823     {ka}{err}{61}\or % 16
1824     {ka}{kb}{155}\or % 17
1825     {kb}{err}{-7}\or % 18
1826     {kb}{err}{87}\or % 19
1827     {kb}{kc}{181}\or % 20
1828     {kc}{err}{19}\or % 21
1829     {kc}{err}{113}\or % 22
1830     {kc}{kd}{207}\or % 23
1831     {kd}{err}{45}\or % 24
1832     {kd}{ke}{139}\or % 25
1833     {ke}{err}{-23}\or % 26
1834     {ke}{err}{71}\or % 27
1835     {ke}{kf}{165}\or % 28
1836     {kf}{err}{3}\or % 29
1837     {kf}{err}{97}\or % 30
1838     {kf}{kg}{191}\or % 31
1839     {kg}{err}{29}\or % 32
1840     {kg}{err}{123}\or % 33
1841     {kg}{kh}{217}\or % 34
1842     {kh}{err}{55}\or % 35

```

```

1843 {kh}{ki}{149}\or % 36
1844 {ki}{err}{-13}\or % 37
1845 {ki}{err}{81}\or % 38
1846 {ki}{kj}{175}\or % 39
1847 {kj}{err}{13}\or % 40
1848 {kj}{err}{107}\or % 41
1849 {kj}{kk}{201}\or % 42
1850 {kk}{err}{39}\or % 43
1851 {kk}{kl}{133}\or % 44
1852 {kl}{err}{-29}\or % 45
1853 {kl}{err}{65}\or % 46
1854 {km}{err}{-33}\or % 47
1855 {km}{err}{61}\or % 48
1856 {km}{kn}{155}\or % 49
1857 {kn}{err}{-7}\or % 50
1858 {kn}{err}{87}\or % 51
1859 {kn}{ko}{181}\or % 52
1860 {ko}{err}{19}\or % 53
1861 {ko}{err}{113}\or % 54
1862 {ko}{kp}{207}\or % 55
1863 {kp}{err}{45}\or % 56
1864 {kp}{kq}{139}\or % 57
1865 {kq}{err}{-23}\or % 58
1866 {kq}{err}{71}\or % 59
1867 {kq}{kr}{165}\or % 60
1868 {kr}{err}{3}\or % 61
1869 {kr}{err}{97}\or % 62
1870 {kr}{ks}{191}\or % 63
1871 {ks}{err}{29}\or % 64
1872 {ks}{err}{123}\or % 65
1873 {ks}{kt}{217}\or % 66
1874 {kt}{err}{55}\or % 67
1875 {kt}{ku}{149}\or % 68
1876 {ku}{err}{-13}\or % 69
1877 {ku}{err}{81}\or % 70
1878 {ku}{kv}{175}\or % 71
1879 {kv}{err}{13}\or % 72
1880 {kv}{err}{107}\or % 73
1881 {kv}{kw}{201}\or % 74
1882 {kw}{err}{39}\or % 75
1883 {kw}{kx}{133}\or % 76
1884 {kx}{err}{-29}\or % 77
1885 {kx}{err}{65}\or % 78
1886 {kx}{ky}{159}\or % 79
1887 {ky}{err}{-3}\or % 80
1888 {ky}{err}{91}\or % 81
1889 {ky}{kz}{185}\or % 82
1890 {kz}{err}{23}\else % 83
1891 ferr}{err}0\fi
1892 \edef\temp@b{\ifx\temp@a\CJK@plane\else
1893 \def\noexpand\CJK@plane{\temp@a}\noexpand\selectfont\fi
1894 \char\number\count\@ne\space}%
1895 %\typeout{C42: \meaning\temp@b}%
1896 \expandafter\temp@b%

```

```

1897 }%
1898 \DeclareTextCommand\jischar{C42}[1]{\CJK@Cfrttw#1}
1899 \DeclareTextCommandDefault\jischar[1]{\fontencoding{C42}%
1900 \let\CJK@plane\undefined\CJK@Cfrttw#1}}
1901 %
1902 %
1903 </c42enc.def>

```

4.7 File c61enc.def

```

1904 <*c61enc.def>
1905 \ProvidesFile{c61enc.def}[2001/10/11 Fontencoding C61 (KSC5601 hangul)]%
1906 \DeclareFontEncoding{C61}{-}{-}%
1907 \DeclareFontSubstitution{C61}{mj}{m}{n}%
1908 \input{cencmn.tex}%
1909 \expandafter\let\csname C61/mj/m/n\endcsname\undefined
1910 %
1911 </c61enc.def>

```

4.8 File lklenc.def

```

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

```



```

1946 \DeclareTextSymbol{\klingsonfour}{LKL}{‘\4}
1947 \DeclareTextSymbol{\klingsonfive}{LKL}{‘\5}
1948 \DeclareTextSymbol{\klingsonsix}{LKL}{‘\6}
1949 \DeclareTextSymbol{\klingsonseven}{LKL}{‘\7}
1950 \DeclareTextSymbol{\klingsoneight}{LKL}{‘\8}
1951 \DeclareTextSymbol{\klingsonnine}{LKL}{‘\9}
1952 %
1953 </klenc.def>

```

4.9 File lklkli.fd

```
1954 <*lklkli.fd>
```

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

```

1955 \ProvidesFile{lklkli.fd}[2001/10/11 Fontfamily kli for Fontencoding LKL]%
1956 \DeclareFontFamily{LKL}{kli}{}%
1957 \DeclareFontShape{LKL}{kli}{m}{n}{<-> pIq}{}%

```

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

```

1958 \DeclareFontShape{LKL}{kli}{m}{sc}{<-> pIq}{}%
1959 %
1960 </lklkli.fd>

```

4.10 File ldvenc.def

```

1961 <*ldvenc.def>
1962 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
1963 \ProvidesFile{ldvenc.def}[2004/10/17 Autogenerated encoding LDV]
1964 \DeclareFontEncoding{LDV}{-}{-}
1965 \DeclareFontSubstitution{LDV}{arial}{m}{n}
1966 \DeclareTextSymbol{\guillemotleft}{LDV}{19}
1967 \DeclareTextSymbol{\guillemotright}{LDV}{20}
1968 \DeclareTextSymbol{\guilsinglleft}{LDV}{14}
1969 \DeclareTextSymbol{\guilsinglright}{LDV}{15}
1970 \DeclareTextSymbol{\i}{LDV}{25}
1971 \DeclareTextSymbol{\quotedblbase}{LDV}{18}
1972 \DeclareTextSymbol{\quotesinglbase}{LDV}{13}
1973 \DeclareTextSymbol{\textasciicircum}{LDV}{‘~}
1974 \DeclareTextSymbol{\textasciitilde}{LDV}{‘~}
1975 \DeclareTextSymbol{\textbackslash}{LDV}{‘\}
1976 \DeclareTextSymbol{\textbar}{LDV}{‘|}
1977 \DeclareTextSymbol{\textbraceleft}{LDV}{‘{ }
1978 \DeclareTextSymbol{\textbraceright}{LDV}{‘} }
1979 \DeclareTextSymbol{\textdollar}{LDV}{‘$}
1980 \DeclareTextSymbol{\textemdash}{LDV}{22}
1981 \DeclareTextSymbol{\textendash}{LDV}{21}
1982 \DeclareTextSymbol{\textgreater}{LDV}{‘>}
1983 \DeclareTextSymbol{\textless}{LDV}{‘<}
1984 \DeclareTextSymbol{\textquotedblleft}{LDV}{16}
1985 \DeclareTextSymbol{\textquotedblright}{LDV}{17}
1986 \DeclareTextSymbol{\textquotedbl}{LDV}{‘" }
1987 \DeclareTextSymbol{\textquoteleft}{LDV}{‘‘ }
1988 \DeclareTextSymbol{\textquoteright}{LDV}{‘’ }

```

1989 \DeclareTextSymbol{\textunderscore}{LDV}{95}
1990 \DeclareTextCommand{\textdevanagariandrabindu}{LDV}[1]{#1\char129 }
1991 \DeclareTextCommand{\textdevanagarianusvara}{LDV}[1]{#1\char130 }
1992 \DeclareTextCommand{\textdevanagarivisarga}{LDV}[1]{#1\char131 }
1993 \DeclareTextSymbol{\textdevanagaria}{LDV}{133}
1994 \DeclareTextSymbol{\textdevanagariaa}{LDV}{134}
1995 \DeclareTextSymbol{\textdevanagarii}{LDV}{135}
1996 \DeclareTextSymbol{\textdevanagariiii}{LDV}{136}
1997 \DeclareTextSymbol{\textdevanagariiu}{LDV}{137}
1998 \DeclareTextSymbol{\textdevanagariuu}{LDV}{138}
1999 \DeclareTextSymbol{\textdevanagarivocalicr}{LDV}{139}
2000 \DeclareTextSymbol{\textdevanagarivocalicl}{LDV}{140}
2001 \DeclareTextSymbol{\textdevanagaricandrae}{LDV}{141}
2002 \DeclareTextSymbol{\textdevanagarishorte}{LDV}{142}
2003 \DeclareTextSymbol{\textdevanagarie}{LDV}{143}
2004 \DeclareTextSymbol{\textdevanagariai}{LDV}{144}
2005 \DeclareTextSymbol{\textdevanagaricandrao}{LDV}{145}
2006 \DeclareTextSymbol{\textdevanagarishorto}{LDV}{146}
2007 \DeclareTextSymbol{\textdevanagariao}{LDV}{147}
2008 \DeclareTextSymbol{\textdevanagariau}{LDV}{148}
2009 \DeclareTextSymbol{\textdevanagarika}{LDV}{149}
2010 \DeclareTextSymbol{\textdevanagarikha}{LDV}{150}
2011 \DeclareTextSymbol{\textdevanagariga}{LDV}{151}
2012 \DeclareTextSymbol{\textdevanagarigha}{LDV}{152}
2013 \DeclareTextSymbol{\textdevanagaringa}{LDV}{153}
2014 \DeclareTextSymbol{\textdevanagarica}{LDV}{154}
2015 \DeclareTextSymbol{\textdevanagaricha}{LDV}{155}
2016 \DeclareTextSymbol{\textdevanagarija}{LDV}{156}
2017 \DeclareTextSymbol{\textdevanagarijha}{LDV}{157}
2018 \DeclareTextSymbol{\textdevanagarinya}{LDV}{158}
2019 \DeclareTextSymbol{\textdevanagaritta}{LDV}{159}
2020 \DeclareTextSymbol{\textdevanagarittha}{LDV}{160}
2021 \DeclareTextSymbol{\textdevanagaridda}{LDV}{161}
2022 \DeclareTextSymbol{\textdevanagariddha}{LDV}{162}
2023 \DeclareTextSymbol{\textdevanagarinna}{LDV}{163}
2024 \DeclareTextSymbol{\textdevanagarita}{LDV}{164}
2025 \DeclareTextSymbol{\textdevanagaritha}{LDV}{165}
2026 \DeclareTextSymbol{\textdevanagarida}{LDV}{166}
2027 \DeclareTextSymbol{\textdevanagaridha}{LDV}{167}
2028 \DeclareTextSymbol{\textdevanagarina}{LDV}{168}
2029 \DeclareTextSymbol{\textdevanagarinnna}{LDV}{169}
2030 \DeclareTextSymbol{\textdevanagaripa}{LDV}{170}
2031 \DeclareTextSymbol{\textdevanagaripha}{LDV}{171}
2032 \DeclareTextSymbol{\textdevanagariba}{LDV}{172}
2033 \DeclareTextSymbol{\textdevanagaribha}{LDV}{173}
2034 \DeclareTextSymbol{\textdevanagarima}{LDV}{174}
2035 \DeclareTextSymbol{\textdevanagariya}{LDV}{175}
2036 \DeclareTextSymbol{\textdevanagarira}{LDV}{176}
2037 \DeclareTextSymbol{\textdevanagarirra}{LDV}{177}
2038 \DeclareTextSymbol{\textdevanagarila}{LDV}{178}
2039 \DeclareTextSymbol{\textdevanagarilla}{LDV}{179}
2040 \DeclareTextSymbol{\textdevanagarillla}{LDV}{180}
2041 \DeclareTextSymbol{\textdevanagariva}{LDV}{181}
2042 \DeclareTextSymbol{\textdevanagarisha}{LDV}{182}

```

2043 \DeclareTextSymbol{\textdevanagarissa}{LDV}{183}
2044 \DeclareTextSymbol{\textdevanagarisa}{LDV}{184}
2045 \DeclareTextSymbol{\textdevanagariha}{LDV}{185}
2046 \DeclareTextCommand{\textdevanagarinukta}{LDV}[1]{#1\char188 }
2047 \DeclareTextSymbol{\textdevanagariavagraha}{LDV}{189}
2048 \DeclareTextCommand{\textdevanagarivowelaa}{LDV}[1]{#1\char190 }
2049 \DeclareTextCommand{\textdevanagarivowelii}{LDV}[1]{\char191 #1}
2050 \DeclareTextCommand{\textdevanagarivoweliii}{LDV}[1]{#1\char192 }
2051 \DeclareTextCommand{\textdevanagarivoweluu}{LDV}[1]{#1\char193 }
2052 \DeclareTextCommand{\textdevanagarivoweluu}{LDV}[1]{#1\char194 }
2053 \DeclareTextCommand{\textdevanagarivowelvocalicr}{LDV}[1]{#1\char195 }
2054 \DeclareTextCommand{\textdevanagarivowelvocalicrr}{LDV}[1]{#1\char196 }
2055 \DeclareTextCommand{\textdevanagarivowelcandrae}{LDV}[1]{#1\char197 }
2056 \DeclareTextCommand{\textdevanagarivowelshorte}{LDV}[1]{#1\char198 }
2057 \DeclareTextCommand{\textdevanagarivowelee}{LDV}[1]{#1\char199 }
2058 \DeclareTextCommand{\textdevanagarivowelai}{LDV}[1]{#1\char200 }
2059 \DeclareTextCommand{\textdevanagarivowelcandrao}{LDV}[1]{#1\char201 }
2060 \DeclareTextCommand{\textdevanagarivowelshorto}{LDV}[1]{#1\char202 }
2061 \DeclareTextCommand{\textdevanagarivowelo}{LDV}[1]{#1\char203 }
2062 \DeclareTextCommand{\textdevanagarivowelau}{LDV}[1]{#1\char204 }
2063 \DeclareTextCommand{\textdevanagarivirama}{LDV}[1]{#1\char205 }
2064 \DeclareTextSymbol{\textdevanagariom}{LDV}{208}
2065 \DeclareTextCommand{\textdevanagariudatta}{LDV}[1]{#1\char209 }
2066 \DeclareTextCommand{\textdevanagarianudatta}{LDV}[1]{#1\char210 }
2067 \DeclareTextCommand{\`}{LDV}[1]{#1\char211 }
2068 \DeclareTextCommand{\'}{LDV}[1]{#1\char212 }
2069 \DeclareTextSymbol{\textdevanagariqa}{LDV}{216}
2070 \DeclareTextSymbol{\textdevanagarikhha}{LDV}{217}
2071 \DeclareTextSymbol{\textdevanagarighha}{LDV}{218}
2072 \DeclareTextSymbol{\textdevanagariza}{LDV}{219}
2073 \DeclareTextSymbol{\textdevanagariddha}{LDV}{220}
2074 \DeclareTextSymbol{\textdevanagarirha}{LDV}{221}
2075 \DeclareTextSymbol{\textdevanagarifa}{LDV}{222}
2076 \DeclareTextSymbol{\textdevanagariyya}{LDV}{223}
2077 \DeclareTextSymbol{\textdevanagarivocalicrr}{LDV}{224}
2078 \DeclareTextSymbol{\textdevanagarivocalicll}{LDV}{225}
2079 \DeclareTextCommand{\textdevanagarivowelvocalicl}{LDV}[1]{#1\char226 }
2080 \DeclareTextCommand{\textdevanagarivowelvocalicll}{LDV}[1]{#1\char227 }
2081 \DeclareTextSymbol{\textdevanagaridanda}{LDV}{228}
2082 \DeclareTextSymbol{\textdevanagaridoubledanda}{LDV}{229}
2083 \DeclareTextSymbol{\textdevanagarizero}{LDV}{230}
2084 \DeclareTextSymbol{\textdevanagarione}{LDV}{231}
2085 \DeclareTextSymbol{\textdevanagaritwo}{LDV}{232}
2086 \DeclareTextSymbol{\textdevanagarithree}{LDV}{233}
2087 \DeclareTextSymbol{\textdevanagarifour}{LDV}{234}
2088 \DeclareTextSymbol{\textdevanagarifive}{LDV}{235}
2089 \DeclareTextSymbol{\textdevanagarisix}{LDV}{236}
2090 \DeclareTextSymbol{\textdevanagariseven}{LDV}{237}
2091 \DeclareTextSymbol{\textdevanagarieight}{LDV}{238}
2092 \DeclareTextSymbol{\textdevanagarinine}{LDV}{239}
2093 \DeclareTextSymbol{\textdevanagariabbreviation}{LDV}{240}
2094 %
2095 </ldvenc.def>

```

4.11 File ldvarial.fd

```
2096 <*ldvarial.fd>
2097 \ProvidesFile{ldvarial.fd}[2004/10/17 Autogenerated .fd file for encoding LDV, family arial]
2098 \DeclareFontFamily{LDV}{arial}{}
2099 \DeclareFontShape{LDV}{arial}{m}{n}{<-> * arialuni090t}{}
2100 %
2101 </ldvarial.fd>
```

4.12 File ldvc2000.fd

```
2102 <*ldvc2000.fd>
2103 \ProvidesFile{ldvc2000.fd}[2004/10/17 Autogenerated .fd file for encoding LDV, family c2000]
2104 \DeclareFontFamily{LDV}{c2000}{}
2105 \DeclareFontShape{LDV}{c2000}{m}{n}{<-> * code2k090t}{}
2106 %
2107 </ldvc2000.fd>
```

4.13 File letenc.def

```
2108 <*letenc.def>
2109 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2110 \ProvidesFile{letenc.def}[2004/10/17 Autogenerated encodings LET, Let]
2111 \DeclareFontEncoding{LET}{}{}
2112 \DeclareFontSubstitution{LET}{gfm}{m}{n}
2113 \DeclareFontEncoding{Let}{}{}
2114 \DeclareFontSubstitution{Let}{gfm}{m}{n}
2115 \DeclareTextCommand{\textascii}{LET}[1]{\@textascii@switch{#1}}
2116 \DeclareTextCommand{\textascii}{Let}[1]{\@textascii@switch{#1}}
2117 \DeclareTextSymbol{\textethiopia}{LET}{0}
2118 \DeclareTextCommand{\textethiopia}{Let}{\fontencoding{LET}\selectfont\textethiopia}
2119 \DeclareTextSymbol{\textethiopiau}{LET}{1}
2120 \DeclareTextCommand{\textethiopiau}{Let}{\fontencoding{LET}\selectfont\textethiopiau}
2121 \DeclareTextSymbol{\textethiopiai}{LET}{2}
2122 \DeclareTextCommand{\textethiopiai}{Let}{\fontencoding{LET}\selectfont\textethiopiai}
2123 \DeclareTextSymbol{\textethiopiaaa}{LET}{3}
2124 \DeclareTextCommand{\textethiopiaaa}{Let}{\fontencoding{LET}\selectfont\textethiopiaaa}
2125 \DeclareTextSymbol{\textethiopiaee}{LET}{4}
2126 \DeclareTextCommand{\textethiopiaee}{Let}{\fontencoding{LET}\selectfont\textethiopiaee}
2127 \DeclareTextSymbol{\textethiopiae}{LET}{5}
2128 \DeclareTextCommand{\textethiopiae}{Let}{\fontencoding{LET}\selectfont\textethiopiae}
2129 \DeclareTextSymbol{\textethiopiao}{LET}{6}
2130 \DeclareTextCommand{\textethiopiao}{Let}{\fontencoding{LET}\selectfont\textethiopiao}
2131 \DeclareTextSymbol{\textethiopiacla}{LET}{8}
2132 \DeclareTextCommand{\textethiopiacla}{Let}{\fontencoding{LET}\selectfont\textethiopiacla}
2133 \DeclareTextSymbol{\textethiopiaclu}{LET}{9}
2134 \DeclareTextCommand{\textethiopiaclu}{Let}{\fontencoding{LET}\selectfont\textethiopiaclu}
2135 \DeclareTextSymbol{\textethiopicli}{LET}{10}
2136 \DeclareTextCommand{\textethiopicli}{Let}{\fontencoding{LET}\selectfont\textethiopicli}
2137 \DeclareTextSymbol{\textethiopiclaa}{LET}{11}
2138 \DeclareTextCommand{\textethiopiclaa}{Let}{\fontencoding{LET}\selectfont\textethiopiclaa}
2139 \DeclareTextSymbol{\textethiopiclee}{LET}{12}
2140 \DeclareTextCommand{\textethiopiclee}{Let}{\fontencoding{LET}\selectfont\textethiopiclee}
2141 \DeclareTextSymbol{\textethiopicle}{LET}{13}
2142 \DeclareTextCommand{\textethiopicle}{Let}{\fontencoding{LET}\selectfont\textethiopicle}
```

```

2143 \DeclareTextSymbol{\textethiopiclo}{LET}{14}
2144 \DeclareTextCommand{\textethiopiclo}{Let}{\fontencoding{LET}\selectfont\textethiopiclo}
2145 \DeclareTextSymbol{\textethiopiclwa}{LET}{15}
2146 \DeclareTextCommand{\textethiopiclwa}{Let}{\fontencoding{LET}\selectfont\textethiopiclwa}
2147 \DeclareTextSymbol{\textethiopiclha}{LET}{16}
2148 \DeclareTextCommand{\textethiopiclha}{Let}{\fontencoding{LET}\selectfont\textethiopiclha}
2149 \DeclareTextSymbol{\textethiopiclhu}{LET}{17}
2150 \DeclareTextCommand{\textethiopiclhu}{Let}{\fontencoding{LET}\selectfont\textethiopiclhu}
2151 \DeclareTextSymbol{\textethiopiclhi}{LET}{18}
2152 \DeclareTextCommand{\textethiopiclhi}{Let}{\fontencoding{LET}\selectfont\textethiopiclhi}
2153 \DeclareTextSymbol{\textethiopiclhaa}{LET}{19}
2154 \DeclareTextCommand{\textethiopiclhaa}{Let}{\fontencoding{LET}\selectfont\textethiopiclhaa}
2155 \DeclareTextSymbol{\textethiopiclhee}{LET}{20}
2156 \DeclareTextCommand{\textethiopiclhee}{Let}{\fontencoding{LET}\selectfont\textethiopiclhee}
2157 \DeclareTextSymbol{\textethiopiclheh}{LET}{21}
2158 \DeclareTextCommand{\textethiopiclheh}{Let}{\fontencoding{LET}\selectfont\textethiopiclheh}
2159 \DeclareTextSymbol{\textethiopiclho}{LET}{22}
2160 \DeclareTextCommand{\textethiopiclho}{Let}{\fontencoding{LET}\selectfont\textethiopiclho}
2161 \DeclareTextSymbol{\textethiopiclhwa}{LET}{23}
2162 \DeclareTextCommand{\textethiopiclhwa}{Let}{\fontencoding{LET}\selectfont\textethiopiclhwa}
2163 \DeclareTextSymbol{\textethiopicma}{LET}{24}
2164 \DeclareTextCommand{\textethiopicma}{Let}{\fontencoding{LET}\selectfont\textethiopicma}
2165 \DeclareTextSymbol{\textethiopicmu}{LET}{25}
2166 \DeclareTextCommand{\textethiopicmu}{Let}{\fontencoding{LET}\selectfont\textethiopicmu}
2167 \DeclareTextSymbol{\textethiopicmi}{LET}{26}
2168 \DeclareTextCommand{\textethiopicmi}{Let}{\fontencoding{LET}\selectfont\textethiopicmi}
2169 \DeclareTextSymbol{\textethiopicmaa}{LET}{27}
2170 \DeclareTextCommand{\textethiopicmaa}{Let}{\fontencoding{LET}\selectfont\textethiopicmaa}
2171 \DeclareTextSymbol{\textethiopicmee}{LET}{28}
2172 \DeclareTextCommand{\textethiopicmee}{Let}{\fontencoding{LET}\selectfont\textethiopicmee}
2173 \DeclareTextSymbol{\textethiopicme}{LET}{29}
2174 \DeclareTextCommand{\textethiopicme}{Let}{\fontencoding{LET}\selectfont\textethiopicme}
2175 \DeclareTextSymbol{\textethiopicmo}{LET}{30}
2176 \DeclareTextCommand{\textethiopicmo}{Let}{\fontencoding{LET}\selectfont\textethiopicmo}
2177 \DeclareTextSymbol{\textethiopicmwa}{LET}{31}
2178 \DeclareTextCommand{\textethiopicmwa}{Let}{\fontencoding{LET}\selectfont\textethiopicmwa}
2179 \DeclareTextSymbol{\textethiopicsza}{LET}{32}
2180 \DeclareTextCommand{\textethiopicsza}{Let}{\fontencoding{LET}\selectfont\textethiopicsza}
2181 \DeclareTextSymbol{\textethiopicszu}{LET}{33}
2182 \DeclareTextCommand{\textethiopicszu}{Let}{\fontencoding{LET}\selectfont\textethiopicszu}
2183 \DeclareTextSymbol{\textethiopicszi}{LET}{34}
2184 \DeclareTextCommand{\textethiopicszi}{Let}{\fontencoding{LET}\selectfont\textethiopicszi}
2185 \DeclareTextSymbol{\textethiopicszaa}{LET}{35}
2186 \DeclareTextCommand{\textethiopicszaa}{Let}{\fontencoding{LET}\selectfont\textethiopicszaa}
2187 \DeclareTextSymbol{\textethiopicszee}{LET}{36}
2188 \DeclareTextCommand{\textethiopicszee}{Let}{\fontencoding{LET}\selectfont\textethiopicszee}
2189 \DeclareTextSymbol{\textethiopicsze}{LET}{37}
2190 \DeclareTextCommand{\textethiopicsze}{Let}{\fontencoding{LET}\selectfont\textethiopicsze}
2191 \DeclareTextSymbol{\textethiopicszo}{LET}{38}
2192 \DeclareTextCommand{\textethiopicszo}{Let}{\fontencoding{LET}\selectfont\textethiopicszo}
2193 \DeclareTextSymbol{\textethiopicszwa}{LET}{39}
2194 \DeclareTextCommand{\textethiopicszwa}{Let}{\fontencoding{LET}\selectfont\textethiopicszwa}
2195 \DeclareTextSymbol{\textethiopicra}{LET}{40}
2196 \DeclareTextCommand{\textethiopicra}{Let}{\fontencoding{LET}\selectfont\textethiopicra}

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2197 \DeclareTextSymbol{\textethiopicru}{LET}{41}
2198 \DeclareTextCommand{\textethiopicru}{Let}{\fontencoding{LET}\selectfont\textethiopicru}
2199 \DeclareTextSymbol{\textethiopicri}{LET}{42}
2200 \DeclareTextCommand{\textethiopicri}{Let}{\fontencoding{LET}\selectfont\textethiopicri}
2201 \DeclareTextSymbol{\textethiopicraa}{LET}{43}
2202 \DeclareTextCommand{\textethiopicraa}{Let}{\fontencoding{LET}\selectfont\textethiopicraa}
2203 \DeclareTextSymbol{\textethiopicree}{LET}{44}
2204 \DeclareTextCommand{\textethiopicree}{Let}{\fontencoding{LET}\selectfont\textethiopicree}
2205 \DeclareTextSymbol{\textethiopicre}{LET}{45}
2206 \DeclareTextCommand{\textethiopicre}{Let}{\fontencoding{LET}\selectfont\textethiopicre}
2207 \DeclareTextSymbol{\textethiopicro}{LET}{46}
2208 \DeclareTextCommand{\textethiopicro}{Let}{\fontencoding{LET}\selectfont\textethiopicro}
2209 \DeclareTextSymbol{\textethiopicrwa}{LET}{47}
2210 \DeclareTextCommand{\textethiopicrwa}{Let}{\fontencoding{LET}\selectfont\textethiopicrwa}
2211 \DeclareTextSymbol{\textethiopicsa}{LET}{48}
2212 \DeclareTextCommand{\textethiopicsa}{Let}{\fontencoding{LET}\selectfont\textethiopicsa}
2213 \DeclareTextSymbol{\textethiopicsu}{LET}{49}
2214 \DeclareTextCommand{\textethiopicsu}{Let}{\fontencoding{LET}\selectfont\textethiopicsu}
2215 \DeclareTextSymbol{\textethiopicsi}{LET}{50}
2216 \DeclareTextCommand{\textethiopicsi}{Let}{\fontencoding{LET}\selectfont\textethiopicsi}
2217 \DeclareTextSymbol{\textethiopicsaa}{LET}{51}
2218 \DeclareTextCommand{\textethiopicsaa}{Let}{\fontencoding{LET}\selectfont\textethiopicsaa}
2219 \DeclareTextSymbol{\textethiopicsee}{LET}{52}
2220 \DeclareTextCommand{\textethiopicsee}{Let}{\fontencoding{LET}\selectfont\textethiopicsee}
2221 \DeclareTextSymbol{\textethiopicse}{LET}{53}
2222 \DeclareTextCommand{\textethiopicse}{Let}{\fontencoding{LET}\selectfont\textethiopicse}
2223 \DeclareTextSymbol{\textethiopicso}{LET}{54}
2224 \DeclareTextCommand{\textethiopicso}{Let}{\fontencoding{LET}\selectfont\textethiopicso}
2225 \DeclareTextSymbol{\textethiopicswa}{LET}{55}
2226 \DeclareTextCommand{\textethiopicswa}{Let}{\fontencoding{LET}\selectfont\textethiopicswa}
2227 \DeclareTextSymbol{\textethiopicsha}{LET}{56}
2228 \DeclareTextCommand{\textethiopicsha}{Let}{\fontencoding{LET}\selectfont\textethiopicsha}
2229 \DeclareTextSymbol{\textethiopicshu}{LET}{57}
2230 \DeclareTextCommand{\textethiopicshu}{Let}{\fontencoding{LET}\selectfont\textethiopicshu}
2231 \DeclareTextSymbol{\textethiopicshi}{LET}{58}
2232 \DeclareTextCommand{\textethiopicshi}{Let}{\fontencoding{LET}\selectfont\textethiopicshi}
2233 \DeclareTextSymbol{\textethiopicshaa}{LET}{59}
2234 \DeclareTextCommand{\textethiopicshaa}{Let}{\fontencoding{LET}\selectfont\textethiopicshaa}
2235 \DeclareTextSymbol{\textethiopicshee}{LET}{60}
2236 \DeclareTextCommand{\textethiopicshee}{Let}{\fontencoding{LET}\selectfont\textethiopicshee}
2237 \DeclareTextSymbol{\textethiopicshe}{LET}{61}
2238 \DeclareTextCommand{\textethiopicshe}{Let}{\fontencoding{LET}\selectfont\textethiopicshe}
2239 \DeclareTextSymbol{\textethiopicsho}{LET}{62}
2240 \DeclareTextCommand{\textethiopicsho}{Let}{\fontencoding{LET}\selectfont\textethiopicsho}
2241 \DeclareTextSymbol{\textethiopicshwa}{LET}{63}
2242 \DeclareTextCommand{\textethiopicshwa}{Let}{\fontencoding{LET}\selectfont\textethiopicshwa}
2243 \DeclareTextSymbol{\textethiopicqa}{LET}{64}
2244 \DeclareTextCommand{\textethiopicqa}{Let}{\fontencoding{LET}\selectfont\textethiopicqa}
2245 \DeclareTextSymbol{\textethiopicqu}{LET}{65}
2246 \DeclareTextCommand{\textethiopicqu}{Let}{\fontencoding{LET}\selectfont\textethiopicqu}
2247 \DeclareTextSymbol{\textethiopicqi}{LET}{66}
2248 \DeclareTextCommand{\textethiopicqi}{Let}{\fontencoding{LET}\selectfont\textethiopicqi}
2249 \DeclareTextSymbol{\textethiopicqaa}{LET}{67}
2250 \DeclareTextCommand{\textethiopicqaa}{Let}{\fontencoding{LET}\selectfont\textethiopicqaa}

2251 \DeclareTextSymbol{\textethiopicqee}{LET}{68}
2252 \DeclareTextCommand{\textethiopicqee}{Let}{\fontencoding{LET}\selectfont\textethiopicqee}
2253 \DeclareTextSymbol{\textethiopicqe}{LET}{69}
2254 \DeclareTextCommand{\textethiopicqe}{Let}{\fontencoding{LET}\selectfont\textethiopicqe}
2255 \DeclareTextSymbol{\textethiopicqo}{LET}{70}
2256 \DeclareTextCommand{\textethiopicqo}{Let}{\fontencoding{LET}\selectfont\textethiopicqo}
2257 \DeclareTextSymbol{\textethiopicqwa}{LET}{72}
2258 \DeclareTextCommand{\textethiopicqwa}{Let}{\fontencoding{LET}\selectfont\textethiopicqwa}
2259 \DeclareTextSymbol{\textethiopicqwi}{LET}{74}
2260 \DeclareTextCommand{\textethiopicqwi}{Let}{\fontencoding{LET}\selectfont\textethiopicqwi}
2261 \DeclareTextSymbol{\textethiopicqaa}{LET}{75}
2262 \DeclareTextCommand{\textethiopicqaa}{Let}{\fontencoding{LET}\selectfont\textethiopicqaa}
2263 \DeclareTextSymbol{\textethiopicqwee}{LET}{76}
2264 \DeclareTextCommand{\textethiopicqwee}{Let}{\fontencoding{LET}\selectfont\textethiopicqwee}
2265 \DeclareTextSymbol{\textethiopicqwe}{LET}{77}
2266 \DeclareTextCommand{\textethiopicqwe}{Let}{\fontencoding{LET}\selectfont\textethiopicqwe}
2267 \DeclareTextSymbol{\textethiopicqha}{LET}{80}
2268 \DeclareTextCommand{\textethiopicqha}{Let}{\fontencoding{LET}\selectfont\textethiopicqha}
2269 \DeclareTextSymbol{\textethiopicqhu}{LET}{81}
2270 \DeclareTextCommand{\textethiopicqhu}{Let}{\fontencoding{LET}\selectfont\textethiopicqhu}
2271 \DeclareTextSymbol{\textethiopicqhi}{LET}{82}
2272 \DeclareTextCommand{\textethiopicqhi}{Let}{\fontencoding{LET}\selectfont\textethiopicqhi}
2273 \DeclareTextSymbol{\textethiopicqhaa}{LET}{83}
2274 \DeclareTextCommand{\textethiopicqhaa}{Let}{\fontencoding{LET}\selectfont\textethiopicqhaa}
2275 \DeclareTextSymbol{\textethiopicqhee}{LET}{84}
2276 \DeclareTextCommand{\textethiopicqhee}{Let}{\fontencoding{LET}\selectfont\textethiopicqhee}
2277 \DeclareTextSymbol{\textethiopicqhe}{LET}{85}
2278 \DeclareTextCommand{\textethiopicqhe}{Let}{\fontencoding{LET}\selectfont\textethiopicqhe}
2279 \DeclareTextSymbol{\textethiopicqho}{LET}{86}
2280 \DeclareTextCommand{\textethiopicqho}{Let}{\fontencoding{LET}\selectfont\textethiopicqho}
2281 \DeclareTextSymbol{\textethiopicqhwa}{LET}{88}
2282 \DeclareTextCommand{\textethiopicqhwa}{Let}{\fontencoding{LET}\selectfont\textethiopicqhwa}
2283 \DeclareTextSymbol{\textethiopicqhwi}{LET}{90}
2284 \DeclareTextCommand{\textethiopicqhwi}{Let}{\fontencoding{LET}\selectfont\textethiopicqhwi}
2285 \DeclareTextSymbol{\textethiopicqhwa}{LET}{91}
2286 \DeclareTextCommand{\textethiopicqhwa}{Let}{\fontencoding{LET}\selectfont\textethiopicqhwa}
2287 \DeclareTextSymbol{\textethiopicqhwee}{LET}{92}
2288 \DeclareTextCommand{\textethiopicqhwee}{Let}{\fontencoding{LET}\selectfont\textethiopicqhwee}
2289 \DeclareTextSymbol{\textethiopicqhwe}{LET}{93}
2290 \DeclareTextCommand{\textethiopicqhwe}{Let}{\fontencoding{LET}\selectfont\textethiopicqhwe}
2291 \DeclareTextSymbol{\textethiopicbba}{LET}{96}
2292 \DeclareTextCommand{\textethiopicbba}{Let}{\fontencoding{LET}\selectfont\textethiopicbba}
2293 \DeclareTextSymbol{\textethiopicbbu}{LET}{97}
2294 \DeclareTextCommand{\textethiopicbbu}{Let}{\fontencoding{LET}\selectfont\textethiopicbbu}
2295 \DeclareTextSymbol{\textethiopicbbi}{LET}{98}
2296 \DeclareTextCommand{\textethiopicbbi}{Let}{\fontencoding{LET}\selectfont\textethiopicbbi}
2297 \DeclareTextSymbol{\textethiopicbbaa}{LET}{99}
2298 \DeclareTextCommand{\textethiopicbbaa}{Let}{\fontencoding{LET}\selectfont\textethiopicbbaa}
2299 \DeclareTextSymbol{\textethiopicbbe}{LET}{100}
2300 \DeclareTextCommand{\textethiopicbbe}{Let}{\fontencoding{LET}\selectfont\textethiopicbbe}
2301 \DeclareTextSymbol{\textethiopicbbe}{LET}{101}
2302 \DeclareTextCommand{\textethiopicbbe}{Let}{\fontencoding{LET}\selectfont\textethiopicbbe}
2303 \DeclareTextSymbol{\textethiopicbbo}{LET}{102}
2304 \DeclareTextCommand{\textethiopicbbo}{Let}{\fontencoding{LET}\selectfont\textethiopicbbo}

2305 \DeclareTextSymbol{\textethiopicbwa}{LET}{103}
2306 \DeclareTextCommand{\textethiopicbwa}{Let}{\fontencoding{LET}\selectfont\textethiopicbwa}
2307 \DeclareTextSymbol{\textethiopicva}{LET}{104}
2308 \DeclareTextCommand{\textethiopicva}{Let}{\fontencoding{LET}\selectfont\textethiopicva}
2309 \DeclareTextSymbol{\textethiopicvu}{LET}{105}
2310 \DeclareTextCommand{\textethiopicvu}{Let}{\fontencoding{LET}\selectfont\textethiopicvu}
2311 \DeclareTextSymbol{\textethiopicvi}{LET}{106}
2312 \DeclareTextCommand{\textethiopicvi}{Let}{\fontencoding{LET}\selectfont\textethiopicvi}
2313 \DeclareTextSymbol{\textethiopicvaa}{LET}{107}
2314 \DeclareTextCommand{\textethiopicvaa}{Let}{\fontencoding{LET}\selectfont\textethiopicvaa}
2315 \DeclareTextSymbol{\textethiopicvee}{LET}{108}
2316 \DeclareTextCommand{\textethiopicvee}{Let}{\fontencoding{LET}\selectfont\textethiopicvee}
2317 \DeclareTextSymbol{\textethiopicve}{LET}{109}
2318 \DeclareTextCommand{\textethiopicve}{Let}{\fontencoding{LET}\selectfont\textethiopicve}
2319 \DeclareTextSymbol{\textethiopicvo}{LET}{110}
2320 \DeclareTextCommand{\textethiopicvo}{Let}{\fontencoding{LET}\selectfont\textethiopicvo}
2321 \DeclareTextSymbol{\textethiopicvwa}{LET}{111}
2322 \DeclareTextCommand{\textethiopicvwa}{Let}{\fontencoding{LET}\selectfont\textethiopicvwa}
2323 \DeclareTextSymbol{\textethiopicta}{LET}{112}
2324 \DeclareTextCommand{\textethiopicta}{Let}{\fontencoding{LET}\selectfont\textethiopicta}
2325 \DeclareTextSymbol{\textethiopictu}{LET}{113}
2326 \DeclareTextCommand{\textethiopictu}{Let}{\fontencoding{LET}\selectfont\textethiopictu}
2327 \DeclareTextSymbol{\textethiopiciti}{LET}{114}
2328 \DeclareTextCommand{\textethiopiciti}{Let}{\fontencoding{LET}\selectfont\textethiopiciti}
2329 \DeclareTextSymbol{\textethiopictaa}{LET}{115}
2330 \DeclareTextCommand{\textethiopictaa}{Let}{\fontencoding{LET}\selectfont\textethiopictaa}
2331 \DeclareTextSymbol{\textethiopictee}{LET}{116}
2332 \DeclareTextCommand{\textethiopictee}{Let}{\fontencoding{LET}\selectfont\textethiopictee}
2333 \DeclareTextSymbol{\textethiopicte}{LET}{117}
2334 \DeclareTextCommand{\textethiopicte}{Let}{\fontencoding{LET}\selectfont\textethiopicte}
2335 \DeclareTextSymbol{\textethiopiccto}{LET}{118}
2336 \DeclareTextCommand{\textethiopiccto}{Let}{\fontencoding{LET}\selectfont\textethiopiccto}
2337 \DeclareTextSymbol{\textethiopicywa}{LET}{119}
2338 \DeclareTextCommand{\textethiopicywa}{Let}{\fontencoding{LET}\selectfont\textethiopicywa}
2339 \DeclareTextSymbol{\textethiopicca}{LET}{120}
2340 \DeclareTextCommand{\textethiopicca}{Let}{\fontencoding{LET}\selectfont\textethiopicca}
2341 \DeclareTextSymbol{\textethiopiccu}{LET}{121}
2342 \DeclareTextCommand{\textethiopiccu}{Let}{\fontencoding{LET}\selectfont\textethiopiccu}
2343 \DeclareTextSymbol{\textethiopicci}{LET}{122}
2344 \DeclareTextCommand{\textethiopicci}{Let}{\fontencoding{LET}\selectfont\textethiopicci}
2345 \DeclareTextSymbol{\textethiopiccaa}{LET}{123}
2346 \DeclareTextCommand{\textethiopiccaa}{Let}{\fontencoding{LET}\selectfont\textethiopiccaa}
2347 \DeclareTextSymbol{\textethiopiccee}{LET}{124}
2348 \DeclareTextCommand{\textethiopiccee}{Let}{\fontencoding{LET}\selectfont\textethiopiccee}
2349 \DeclareTextSymbol{\textethiopicce}{LET}{125}
2350 \DeclareTextCommand{\textethiopicce}{Let}{\fontencoding{LET}\selectfont\textethiopicce}
2351 \DeclareTextSymbol{\textethiopicco}{LET}{126}
2352 \DeclareTextCommand{\textethiopicco}{Let}{\fontencoding{LET}\selectfont\textethiopicco}
2353 \DeclareTextSymbol{\textethiopiccwa}{LET}{127}
2354 \DeclareTextCommand{\textethiopiccwa}{Let}{\fontencoding{LET}\selectfont\textethiopiccwa}
2355 \DeclareTextSymbol{\textethiopicxa}{LET}{128}
2356 \DeclareTextCommand{\textethiopicxa}{Let}{\fontencoding{LET}\selectfont\textethiopicxa}
2357 \DeclareTextSymbol{\textethiopicxu}{LET}{129}
2358 \DeclareTextCommand{\textethiopicxu}{Let}{\fontencoding{LET}\selectfont\textethiopicxu}

2359 \DeclareTextSymbol{\textethiopicxi}{LET}{130}
2360 \DeclareTextCommand{\textethiopicxi}{Let}{\fontencoding{LET}\selectfont\textethiopicxi}
2361 \DeclareTextSymbol{\textethiopicxaa}{LET}{131}
2362 \DeclareTextCommand{\textethiopicxaa}{Let}{\fontencoding{LET}\selectfont\textethiopicxaa}
2363 \DeclareTextSymbol{\textethiopicxee}{LET}{132}
2364 \DeclareTextCommand{\textethiopicxee}{Let}{\fontencoding{LET}\selectfont\textethiopicxee}
2365 \DeclareTextSymbol{\textethiopicxe}{LET}{133}
2366 \DeclareTextCommand{\textethiopicxe}{Let}{\fontencoding{LET}\selectfont\textethiopicxe}
2367 \DeclareTextSymbol{\textethiopicxo}{LET}{134}
2368 \DeclareTextCommand{\textethiopicxo}{Let}{\fontencoding{LET}\selectfont\textethiopicxo}
2369 \DeclareTextSymbol{\textethiopicxwa}{LET}{136}
2370 \DeclareTextCommand{\textethiopicxwa}{Let}{\fontencoding{LET}\selectfont\textethiopicxwa}
2371 \DeclareTextSymbol{\textethiopicxwi}{LET}{138}
2372 \DeclareTextCommand{\textethiopicxwi}{Let}{\fontencoding{LET}\selectfont\textethiopicxwi}
2373 \DeclareTextSymbol{\textethiopicxwaa}{LET}{139}
2374 \DeclareTextCommand{\textethiopicxwaa}{Let}{\fontencoding{LET}\selectfont\textethiopicxwaa}
2375 \DeclareTextSymbol{\textethiopicxwee}{LET}{140}
2376 \DeclareTextCommand{\textethiopicxwee}{Let}{\fontencoding{LET}\selectfont\textethiopicxwee}
2377 \DeclareTextSymbol{\textethiopicxwe}{LET}{141}
2378 \DeclareTextCommand{\textethiopicxwe}{Let}{\fontencoding{LET}\selectfont\textethiopicxwe}
2379 \DeclareTextSymbol{\textethiopicna}{LET}{144}
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2680 \DeclareTextCommand{\textethiopicpho}{LET}{\fontencoding{Let}\selectfont\textethiopicpho}
2681 \DeclareTextSymbol{\textethiopicphwa}{Let}{55}
2682 \DeclareTextCommand{\textethiopicphwa}{LET}{\fontencoding{Let}\selectfont\textethiopicphwa}

```

```

2683 \DeclareTextSymbol{\textethiopictsa}{Let}{56}
2684 \DeclareTextCommand{\textethiopictsa}{LET}{\fontencoding{Let}\selectfont\textethiopictsa}
2685 \DeclareTextSymbol{\textethiopictsu}{Let}{57}
2686 \DeclareTextCommand{\textethiopictsu}{LET}{\fontencoding{Let}\selectfont\textethiopictsu}
2687 \DeclareTextSymbol{\textethiopictsi}{Let}{58}
2688 \DeclareTextCommand{\textethiopictsi}{LET}{\fontencoding{Let}\selectfont\textethiopictsi}
2689 \DeclareTextSymbol{\textethiopictsaa}{Let}{59}
2690 \DeclareTextCommand{\textethiopictsaa}{LET}{\fontencoding{Let}\selectfont\textethiopictsaa}
2691 \DeclareTextSymbol{\textethiopicsee}{Let}{60}
2692 \DeclareTextCommand{\textethiopicsee}{LET}{\fontencoding{Let}\selectfont\textethiopicsee}
2693 \DeclareTextSymbol{\textethiopiclse}{Let}{61}
2694 \DeclareTextCommand{\textethiopiclse}{LET}{\fontencoding{Let}\selectfont\textethiopiclse}
2695 \DeclareTextSymbol{\textethiopiclso}{Let}{62}
2696 \DeclareTextCommand{\textethiopiclso}{LET}{\fontencoding{Let}\selectfont\textethiopiclso}
2697 \DeclareTextSymbol{\textethiopicswa}{Let}{63}
2698 \DeclareTextCommand{\textethiopicswa}{LET}{\fontencoding{Let}\selectfont\textethiopicswa}
2699 \DeclareTextSymbol{\textethiopicza}{Let}{64}
2700 \DeclareTextCommand{\textethiopicza}{LET}{\fontencoding{Let}\selectfont\textethiopicza}
2701 \DeclareTextSymbol{\textethiopiczu}{Let}{65}
2702 \DeclareTextCommand{\textethiopiczu}{LET}{\fontencoding{Let}\selectfont\textethiopiczu}
2703 \DeclareTextSymbol{\textethiopiczi}{Let}{66}
2704 \DeclareTextCommand{\textethiopiczi}{LET}{\fontencoding{Let}\selectfont\textethiopiczi}
2705 \DeclareTextSymbol{\textethiopiczaa}{Let}{67}
2706 \DeclareTextCommand{\textethiopiczaa}{LET}{\fontencoding{Let}\selectfont\textethiopiczaa}
2707 \DeclareTextSymbol{\textethiopiczee}{Let}{68}
2708 \DeclareTextCommand{\textethiopiczee}{LET}{\fontencoding{Let}\selectfont\textethiopiczee}
2709 \DeclareTextSymbol{\textethiopicze}{Let}{69}
2710 \DeclareTextCommand{\textethiopicze}{LET}{\fontencoding{Let}\selectfont\textethiopicze}
2711 \DeclareTextSymbol{\textethiopiczo}{Let}{70}
2712 \DeclareTextCommand{\textethiopiczo}{LET}{\fontencoding{Let}\selectfont\textethiopiczo}
2713 \DeclareTextSymbol{\textethiopicfa}{Let}{72}
2714 \DeclareTextCommand{\textethiopicfa}{LET}{\fontencoding{Let}\selectfont\textethiopicfa}
2715 \DeclareTextSymbol{\textethiopicfu}{Let}{73}
2716 \DeclareTextCommand{\textethiopicfu}{LET}{\fontencoding{Let}\selectfont\textethiopicfu}
2717 \DeclareTextSymbol{\textethiopicfi}{Let}{74}
2718 \DeclareTextCommand{\textethiopicfi}{LET}{\fontencoding{Let}\selectfont\textethiopicfi}
2719 \DeclareTextSymbol{\textethiopicfaa}{Let}{75}
2720 \DeclareTextCommand{\textethiopicfaa}{LET}{\fontencoding{Let}\selectfont\textethiopicfaa}
2721 \DeclareTextSymbol{\textethiopicfee}{Let}{76}
2722 \DeclareTextCommand{\textethiopicfee}{LET}{\fontencoding{Let}\selectfont\textethiopicfee}
2723 \DeclareTextSymbol{\textethiopicfe}{Let}{77}
2724 \DeclareTextCommand{\textethiopicfe}{LET}{\fontencoding{Let}\selectfont\textethiopicfe}
2725 \DeclareTextSymbol{\textethiopicfo}{Let}{78}
2726 \DeclareTextCommand{\textethiopicfo}{LET}{\fontencoding{Let}\selectfont\textethiopicfo}
2727 \DeclareTextSymbol{\textethiopicfwa}{Let}{79}
2728 \DeclareTextCommand{\textethiopicfwa}{LET}{\fontencoding{Let}\selectfont\textethiopicfwa}
2729 \DeclareTextSymbol{\textethiopicpa}{Let}{80}
2730 \DeclareTextCommand{\textethiopicpa}{LET}{\fontencoding{Let}\selectfont\textethiopicpa}
2731 \DeclareTextSymbol{\textethiopicpu}{Let}{81}
2732 \DeclareTextCommand{\textethiopicpu}{LET}{\fontencoding{Let}\selectfont\textethiopicpu}
2733 \DeclareTextSymbol{\textethiopicpi}{Let}{82}
2734 \DeclareTextCommand{\textethiopicpi}{LET}{\fontencoding{Let}\selectfont\textethiopicpi}
2735 \DeclareTextSymbol{\textethiopicpaa}{Let}{83}
2736 \DeclareTextCommand{\textethiopicpaa}{LET}{\fontencoding{Let}\selectfont\textethiopicpaa}

```

```

2737 \DeclareTextSymbol{\textethiopicpee}{Let}{84}
2738 \DeclareTextCommand{\textethiopicpee}{LET}{\fontencoding{Let}\selectfont\textethiopicpee}
2739 \DeclareTextSymbol{\textethiopicpe}{Let}{85}
2740 \DeclareTextCommand{\textethiopicpe}{LET}{\fontencoding{Let}\selectfont\textethiopicpe}
2741 \DeclareTextSymbol{\textethiopicpo}{Let}{86}
2742 \DeclareTextCommand{\textethiopicpo}{LET}{\fontencoding{Let}\selectfont\textethiopicpo}
2743 \DeclareTextSymbol{\textethiopicpwa}{Let}{87}
2744 \DeclareTextCommand{\textethiopicpwa}{LET}{\fontencoding{Let}\selectfont\textethiopicpwa}
2745 \DeclareTextSymbol{\textethiopicrya}{Let}{88}
2746 \DeclareTextCommand{\textethiopicrya}{LET}{\fontencoding{Let}\selectfont\textethiopicrya}
2747 \DeclareTextSymbol{\textethiopicmya}{Let}{89}
2748 \DeclareTextCommand{\textethiopicmya}{LET}{\fontencoding{Let}\selectfont\textethiopicmya}
2749 \DeclareTextSymbol{\textethiopicfya}{Let}{90}
2750 \DeclareTextCommand{\textethiopicfya}{LET}{\fontencoding{Let}\selectfont\textethiopicfya}
2751 \DeclareTextSymbol{\textethiopicwordspace}{Let}{97}
2752 \DeclareTextCommand{\textethiopicwordspace}{LET}{\fontencoding{Let}\selectfont\textethiopicwordspace}
2753 \DeclareTextSymbol{\textethiopicfullstop}{Let}{98}
2754 \DeclareTextCommand{\textethiopicfullstop}{LET}{\fontencoding{Let}\selectfont\textethiopicfullstop}
2755 \DeclareTextSymbol{\textethiopiccomma}{Let}{99}
2756 \DeclareTextCommand{\textethiopiccomma}{LET}{\fontencoding{Let}\selectfont\textethiopiccomma}
2757 \DeclareTextSymbol{\textethiopicsemicolon}{Let}{100}
2758 \DeclareTextCommand{\textethiopicsemicolon}{LET}{\fontencoding{Let}\selectfont\textethiopicsemicolon}
2759 \DeclareTextSymbol{\textethiopiccolon}{Let}{101}
2760 \DeclareTextCommand{\textethiopiccolon}{LET}{\fontencoding{Let}\selectfont\textethiopiccolon}
2761 \DeclareTextSymbol{\textethiopicprefacecolon}{Let}{102}
2762 \DeclareTextCommand{\textethiopicprefacecolon}{LET}{\fontencoding{Let}\selectfont\textethiopicprefacecolon}
2763 \DeclareTextSymbol{\textethiopicquestionmark}{Let}{103}
2764 \DeclareTextCommand{\textethiopicquestionmark}{LET}{\fontencoding{Let}\selectfont\textethiopicquestionmark}
2765 \DeclareTextSymbol{\textethiopicparagraph}{Let}{104}
2766 \DeclareTextCommand{\textethiopicparagraph}{LET}{\fontencoding{Let}\selectfont\textethiopicparagraph}
2767 \DeclareTextSymbol{\textethiopicone}{Let}{105}
2768 \DeclareTextCommand{\textethiopicone}{LET}{\fontencoding{Let}\selectfont\textethiopicone}
2769 \DeclareTextSymbol{\textethiopictwo}{Let}{106}
2770 \DeclareTextCommand{\textethiopictwo}{LET}{\fontencoding{Let}\selectfont\textethiopictwo}
2771 \DeclareTextSymbol{\textethiopicthree}{Let}{107}
2772 \DeclareTextCommand{\textethiopicthree}{LET}{\fontencoding{Let}\selectfont\textethiopicthree}
2773 \DeclareTextSymbol{\textethiopicfour}{Let}{108}
2774 \DeclareTextCommand{\textethiopicfour}{LET}{\fontencoding{Let}\selectfont\textethiopicfour}
2775 \DeclareTextSymbol{\textethiopicfive}{Let}{109}
2776 \DeclareTextCommand{\textethiopicfive}{LET}{\fontencoding{Let}\selectfont\textethiopicfive}
2777 \DeclareTextSymbol{\textethiopicsix}{Let}{110}
2778 \DeclareTextCommand{\textethiopicsix}{LET}{\fontencoding{Let}\selectfont\textethiopicsix}
2779 \DeclareTextSymbol{\textethiopicseven}{Let}{111}
2780 \DeclareTextCommand{\textethiopicseven}{LET}{\fontencoding{Let}\selectfont\textethiopicseven}
2781 \DeclareTextSymbol{\textethiopiceight}{Let}{112}
2782 \DeclareTextCommand{\textethiopiceight}{LET}{\fontencoding{Let}\selectfont\textethiopiceight}
2783 \DeclareTextSymbol{\textethiopicnine}{Let}{113}
2784 \DeclareTextCommand{\textethiopicnine}{LET}{\fontencoding{Let}\selectfont\textethiopicnine}
2785 \DeclareTextSymbol{\textethiopicnten}{Let}{114}
2786 \DeclareTextCommand{\textethiopicnten}{LET}{\fontencoding{Let}\selectfont\textethiopicnten}
2787 \DeclareTextSymbol{\textethiopictwenty}{Let}{115}
2788 \DeclareTextCommand{\textethiopictwenty}{LET}{\fontencoding{Let}\selectfont\textethiopictwenty}
2789 \DeclareTextSymbol{\textethiopicthirty}{Let}{116}
2790 \DeclareTextCommand{\textethiopicthirty}{LET}{\fontencoding{Let}\selectfont\textethiopicthirty}

```



```

2791 \DeclareTextSymbol{\textethiopicforty}{Let}{117}
2792 \DeclareTextCommand{\textethiopicforty}{LET}{\fontencoding{Let}\selectfont\textethiopicforty}
2793 \DeclareTextSymbol{\textethiopicfifty}{Let}{118}
2794 \DeclareTextCommand{\textethiopicfifty}{LET}{\fontencoding{Let}\selectfont\textethiopicfifty}
2795 \DeclareTextSymbol{\textethiopicsixty}{Let}{119}
2796 \DeclareTextCommand{\textethiopicsixty}{LET}{\fontencoding{Let}\selectfont\textethiopicsixty}
2797 \DeclareTextSymbol{\textethiopicseventy}{Let}{120}
2798 \DeclareTextCommand{\textethiopicseventy}{LET}{\fontencoding{Let}\selectfont\textethiopicseventy}
2799 \DeclareTextSymbol{\textethiopicseventy}{Let}{121}
2800 \DeclareTextCommand{\textethiopicseventy}{LET}{\fontencoding{Let}\selectfont\textethiopicseventy}
2801 \DeclareTextSymbol{\textethiopicninety}{Let}{122}
2802 \DeclareTextCommand{\textethiopicninety}{LET}{\fontencoding{Let}\selectfont\textethiopicninety}
2803 \DeclareTextSymbol{\textethiopicshundred}{Let}{123}
2804 \DeclareTextCommand{\textethiopicshundred}{LET}{\fontencoding{Let}\selectfont\textethiopicshundred}
2805 \DeclareTextSymbol{\textethiopicstenthousand}{Let}{124}
2806 \DeclareTextCommand{\textethiopicstenthousand}{LET}{\fontencoding{Let}\selectfont\textethiopicstenthousand}
2807 %
2808 </letenc.def>

```

4.14 File letgfzem.fd

```

2809 <*letgfzem.fd>
2810 \ProvidesFile{letgfzem.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family]
2811 \DeclareFontFamily{LET}{gfzem}{}
2812 \DeclareFontFamily{Let}{gfzem}{}
2813 \DeclareFontShape{LET}{gfzem}{m}{n}{<-> * gfzemen12}{}
2814 \DeclareFontShape{Let}{gfzem}{m}{n}{<-> * gfzemen13}{}
2815 %
2816 </letgfzem.fd>

```

4.15 File letjiret.fd

```

2817 <*letjiret.fd>
2818 \ProvidesFile{letjiret.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family]
2819 \DeclareFontFamily{LET}{jiret}{}
2820 \DeclareFontFamily{Let}{jiret}{}
2821 \DeclareFontShape{LET}{jiret}{m}{n}{<-> * jiret12}{}
2822 \DeclareFontShape{Let}{jiret}{m}{n}{<-> * jiret13}{}
2823 %
2824 </letjiret.fd>

```

4.16 File letc2000.fd

```

2825 <*letc2000.fd>
2826 \ProvidesFile{letc2000.fd}[2004/10/17 Autogenerated .fd file for encodings LET, Let, family]
2827 \DeclareFontFamily{LET}{c2000}{}
2828 \DeclareFontFamily{Let}{c2000}{}
2829 \DeclareFontShape{LET}{c2000}{m}{n}{<-> * code2k12}{}
2830 \DeclareFontShape{Let}{c2000}{m}{n}{<-> * code2k13}{}
2831 %
2832 </letc2000.fd>

```

4.17 File ltaenc.def

```

2833 <*ltaenc.def>

```

```

2834 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2835 \ProvidesFile{ltaenc.def}[2004/10/17 Autogenerated encoding LTA]
2836 \DeclareFontEncoding{LTA}{}{}
2837 \DeclareFontSubstitution{LTA}{arial}{m}{n}
2838 \DeclareTextSymbol{\guillemotleft}{LTA}{19}
2839 \DeclareTextSymbol{\guillemotright}{LTA}{20}
2840 \DeclareTextSymbol{\guilsinglleft}{LTA}{14}
2841 \DeclareTextSymbol{\guilsinglright}{LTA}{15}
2842 \DeclareTextSymbol{\i}{LTA}{25}
2843 \DeclareTextSymbol{\quotedblbase}{LTA}{18}
2844 \DeclareTextSymbol{\quotesinglbase}{LTA}{13}
2845 \DeclareTextSymbol{\textasciicircum}{LTA}{'\^}
2846 \DeclareTextSymbol{\textasciitilde}{LTA}{'\~}
2847 \DeclareTextSymbol{\textbackslash}{LTA}{'\}
2848 \DeclareTextSymbol{\textbar}{LTA}{'|}
2849 \DeclareTextSymbol{\textbraceleft}{LTA}{'\{ }
2850 \DeclareTextSymbol{\textbraceright}{LTA}{'\} }
2851 \DeclareTextSymbol{\textdollar}{LTA}{'\$}
2852 \DeclareTextSymbol{\textemdash}{LTA}{22}
2853 \DeclareTextSymbol{\textendash}{LTA}{21}
2854 \DeclareTextSymbol{\textgreater}{LTA}{'\>}
2855 \DeclareTextSymbol{\textless}{LTA}{'\<}
2856 \DeclareTextSymbol{\textquotedblleft}{LTA}{16}
2857 \DeclareTextSymbol{\textquotedblright}{LTA}{17}
2858 \DeclareTextSymbol{\textquotedbl}{LTA}{'\"}
2859 \DeclareTextSymbol{\textquoteleft}{LTA}{'\'}
2860 \DeclareTextSymbol{\textquoteright}{LTA}{'\'}
2861 \DeclareTextSymbol{\textunderscore}{LTA}{95}
2862 \DeclareTextSymbol{\thaiKoKai}{LTA}{129}
2863 \DeclareTextSymbol{\thaiKhoKhai}{LTA}{130}
2864 \DeclareTextSymbol{\thaiKhoKhuat}{LTA}{131}
2865 \DeclareTextSymbol{\thaiKhoKhwai}{LTA}{132}
2866 \DeclareTextSymbol{\thaiKhoKhon}{LTA}{133}
2867 \DeclareTextSymbol{\thaiKhoRakhang}{LTA}{134}
2868 \DeclareTextSymbol{\thaiNgoNgu}{LTA}{135}
2869 \DeclareTextSymbol{\thaiChoChan}{LTA}{136}
2870 \DeclareTextSymbol{\thaiChoChing}{LTA}{137}
2871 \DeclareTextSymbol{\thaiChoChang}{LTA}{138}
2872 \DeclareTextSymbol{\thaiSoSo}{LTA}{139}
2873 \DeclareTextSymbol{\thaiChoChoe}{LTA}{140}
2874 \DeclareTextSymbol{\thaiYoYing}{LTA}{141}
2875 \DeclareTextSymbol{\thaiDoChada}{LTA}{142}
2876 \DeclareTextSymbol{\thaiToPatak}{LTA}{143}
2877 \DeclareTextSymbol{\thaiThoThan}{LTA}{144}
2878 \DeclareTextSymbol{\thaiThoNangmontho}{LTA}{145}
2879 \DeclareTextSymbol{\thaiThoPhuthao}{LTA}{146}
2880 \DeclareTextSymbol{\thaiNoNen}{LTA}{147}
2881 \DeclareTextSymbol{\thaiDoDek}{LTA}{148}
2882 \DeclareTextSymbol{\thaiToTao}{LTA}{149}
2883 \DeclareTextSymbol{\thaiThoThung}{LTA}{150}
2884 \DeclareTextSymbol{\thaiThoThahan}{LTA}{151}
2885 \DeclareTextSymbol{\thaiThoThong}{LTA}{152}
2886 \DeclareTextSymbol{\thaiNoNu}{LTA}{153}
2887 \DeclareTextSymbol{\thaiBoBaimai}{LTA}{154}

```

2888 \DeclareTextSymbol{\thaiPoPla}{LTA}{155}
2889 \DeclareTextSymbol{\thaiPhoPhung}{LTA}{156}
2890 \DeclareTextSymbol{\thaiFoFa}{LTA}{157}
2891 \DeclareTextSymbol{\thaiPhoPhan}{LTA}{158}
2892 \DeclareTextSymbol{\thaiFoFan}{LTA}{159}
2893 \DeclareTextSymbol{\thaiPhoSamphao}{LTA}{160}
2894 \DeclareTextSymbol{\thaiMoMa}{LTA}{161}
2895 \DeclareTextSymbol{\thaiYoYak}{LTA}{162}
2896 \DeclareTextSymbol{\thaiRoRua}{LTA}{163}
2897 \DeclareTextSymbol{\thaiRu}{LTA}{164}
2898 \DeclareTextSymbol{\thaiLoLing}{LTA}{165}
2899 \DeclareTextSymbol{\thaiLu}{LTA}{166}
2900 \DeclareTextSymbol{\thaiWoWae}{LTA}{167}
2901 \DeclareTextSymbol{\thaiSoSala}{LTA}{168}
2902 \DeclareTextSymbol{\thaiSoRusi}{LTA}{169}
2903 \DeclareTextSymbol{\thaiSoSua}{LTA}{170}
2904 \DeclareTextSymbol{\thaiHoHip}{LTA}{171}
2905 \DeclareTextSymbol{\thaiLoChula}{LTA}{172}
2906 \DeclareTextSymbol{\thaiOAng}{LTA}{173}
2907 \DeclareTextSymbol{\thaiHoNokhuk}{LTA}{174}
2908 \DeclareTextSymbol{\thaiPaiyanoi}{LTA}{175}
2909 \DeclareTextSymbol{\thaiSaraA}{LTA}{176}
2910 \DeclareTextSymbol{\thaiMaiHanakat}{LTA}{177}
2911 \DeclareTextSymbol{\thaiSaraAa}{LTA}{178}
2912 \DeclareTextSymbol{\thaiSaraAm}{LTA}{179}
2913 \DeclareTextSymbol{\thaiSaraI}{LTA}{180}
2914 \DeclareTextSymbol{\thaiSaraIi}{LTA}{181}
2915 \DeclareTextSymbol{\thaiSaraUe}{LTA}{182}
2916 \DeclareTextSymbol{\thaiSaraUee}{LTA}{183}
2917 \DeclareTextSymbol{\thaiSaraU}{LTA}{184}
2918 \DeclareTextSymbol{\thaiSaraUu}{LTA}{185}
2919 \DeclareTextSymbol{\thaiPhinthu}{LTA}{186}
2920 \DeclareTextSymbol{\textbaht}{LTA}{191}
2921 \DeclareTextSymbol{\thaiSaraE}{LTA}{192}
2922 \DeclareTextSymbol{\thaiSaraAe}{LTA}{193}
2923 \DeclareTextSymbol{\thaiSaraO}{LTA}{194}
2924 \DeclareTextSymbol{\thaiSaraAiMaimuan}{LTA}{195}
2925 \DeclareTextSymbol{\thaiSaraAiMaimalai}{LTA}{196}
2926 \DeclareTextSymbol{\thaiLakkhangyao}{LTA}{197}
2927 \DeclareTextSymbol{\thaiMaiyamok}{LTA}{198}
2928 \DeclareTextSymbol{\thaiMaitaikhu}{LTA}{199}
2929 \DeclareTextSymbol{\thaiMaiEk}{LTA}{200}
2930 \DeclareTextSymbol{\thaiMaiTho}{LTA}{201}
2931 \DeclareTextSymbol{\thaiMaiTri}{LTA}{202}
2932 \DeclareTextSymbol{\thaiMaiChattawa}{LTA}{203}
2933 \DeclareTextSymbol{\thaiThanthakhat}{LTA}{204}
2934 \DeclareTextSymbol{\thaiNikhahit}{LTA}{205}
2935 \DeclareTextSymbol{\thaiYamakkan}{LTA}{206}
2936 \DeclareTextSymbol{\thaiFongman}{LTA}{207}
2937 \DeclareTextSymbol{\thaizero}{LTA}{208}
2938 \DeclareTextSymbol{\thaione}{LTA}{209}
2939 \DeclareTextSymbol{\thaitwo}{LTA}{210}
2940 \DeclareTextSymbol{\thaithree}{LTA}{211}
2941 \DeclareTextSymbol{\thaifour}{LTA}{212}

```

2942 \DeclareTextSymbol{\thai five}{LTA}{213}
2943 \DeclareTextSymbol{\thai six}{LTA}{214}
2944 \DeclareTextSymbol{\thai seven}{LTA}{215}
2945 \DeclareTextSymbol{\thai eight}{LTA}{216}
2946 \DeclareTextSymbol{\thai nine}{LTA}{217}
2947 \DeclareTextSymbol{\thai Angkhankhu}{LTA}{218}
2948 \DeclareTextSymbol{\thai Khomut}{LTA}{219}
2949 %
2950 </ltaenc.def>

```

4.18 File ltaarial.fd

```

2951 <*ltaarial.fd>
2952 \ProvidesFile{ltaarial.fd}[2004/10/17 Autogenerated .fd file for encoding LTA, family arial]
2953 \DeclareFontFamily{LTA}{arial}{}
2954 \DeclareFontShape{LTA}{arial}{m}{n}{<-> * arialuni0e0t}{}
2955 %
2956 </ltaarial.fd>

```

4.19 File ltac2000.fd

```

2957 <*ltac2000.fd>
2958 \ProvidesFile{ltac2000.fd}[2004/10/17 Autogenerated .fd file for encoding LTA, family c2000]
2959 \DeclareFontFamily{LTA}{c2000}{}
2960 \DeclareFontShape{LTA}{c2000}{m}{n}{<-> * code2k0e0t}{}
2961 %
2962 </ltac2000.fd>

```

4.20 File ltgenc.def

```

2963 <*ltgenc.def>
2964 \NeedsTeXFormat{LaTeX2e}[1998/12/01]
2965 \ProvidesFile{ltgenc.def}[2004/10/17 Autogenerated encoding LTG]
2966 \DeclareFontEncoding{LTG}{}{}
2967 \DeclareFontSubstitution{LTG}{c2000}{m}{n}
2968 \DeclareTextCommand{\texttelugustart}{LTG}{}
2969 \DeclareTextCommand{\texttelugustop}{LTG}{}
2970 \DeclareTextSymbol{\guillemotleft}{LTG}{19}
2971 \DeclareTextSymbol{\guillemotright}{LTG}{20}
2972 \DeclareTextSymbol{\guilsinglleft}{LTG}{14}
2973 \DeclareTextSymbol{\guilsinglright}{LTG}{15}
2974 \DeclareTextSymbol{\i}{LTG}{25}
2975 \DeclareTextSymbol{\quotedblbase}{LTG}{18}
2976 \DeclareTextSymbol{\quotesinglbase}{LTG}{13}
2977 \DeclareTextSymbol{\textasciicircum}{LTG}{'\^}
2978 \DeclareTextSymbol{\textasciitilde}{LTG}{'\~}
2979 \DeclareTextSymbol{\textbackslash}{LTG}{'\}
2980 \DeclareTextSymbol{\textbar}{LTG}{'|}
2981 \DeclareTextSymbol{\textbraceleft}{LTG}{'\{ }
2982 \DeclareTextSymbol{\textbraceright}{LTG}{'\} }
2983 \DeclareTextSymbol{\textdollar}{LTG}{'\$}
2984 \DeclareTextSymbol{\textemdash}{LTG}{22}
2985 \DeclareTextSymbol{\textendash}{LTG}{21}
2986 \DeclareTextSymbol{\textgreater}{LTG}{'\>}
2987 \DeclareTextSymbol{\textless}{LTG}{'\<}

```

2988 \DeclareTextSymbol{\textquotedblleft}{LTG}{16}
2989 \DeclareTextSymbol{\textquotedblright}{LTG}{17}
2990 \DeclareTextSymbol{\textquotedbl}{LTG}{‘\”}
2991 \DeclareTextSymbol{\textquoteleft}{LTG}{‘\’}
2992 \DeclareTextSymbol{\textquoteright}{LTG}{‘\’}
2993 \DeclareTextSymbol{\textunderscore}{LTG}{95}
2994 \DeclareTextCommand{\texttelugucandrabindu}{LTG}[1]{#1\char129 }
2995 \DeclareTextCommand{\textteluguanusvara}{LTG}[1]{#1\char130 }
2996 \DeclareTextCommand{\textteluguvisarga}{LTG}[1]{#1\char131 }
2997 \DeclareTextSymbol{\texttelugua}{LTG}{133}
2998 \DeclareTextSymbol{\textteluguaa}{LTG}{134}
2999 \DeclareTextSymbol{\texttelugui}{LTG}{135}
3000 \DeclareTextSymbol{\textteluguii}{LTG}{136}
3001 \DeclareTextSymbol{\textteluguu}{LTG}{137}
3002 \DeclareTextSymbol{\textteluguuu}{LTG}{138}
3003 \DeclareTextSymbol{\textteluguvocalicr}{LTG}{139}
3004 \DeclareTextSymbol{\textteluguvocalicl}{LTG}{140}
3005 \DeclareTextSymbol{\texttelugue}{LTG}{142}
3006 \DeclareTextSymbol{\textteluguee}{LTG}{143}
3007 \DeclareTextSymbol{\textteluguai}{LTG}{144}
3008 \DeclareTextSymbol{\textteluguo}{LTG}{146}
3009 \DeclareTextSymbol{\textteluguoo}{LTG}{147}
3010 \DeclareTextSymbol{\textteluguau}{LTG}{148}
3011 \DeclareTextSymbol{\textteluguka}{LTG}{149}
3012 \DeclareTextSymbol{\texttelugukha}{LTG}{150}
3013 \DeclareTextSymbol{\textteluguga}{LTG}{151}
3014 \DeclareTextSymbol{\texttelugugha}{LTG}{152}
3015 \DeclareTextSymbol{\texttelugunga}{LTG}{153}
3016 \DeclareTextSymbol{\textteluguca}{LTG}{154}
3017 \DeclareTextSymbol{\texttelugucha}{LTG}{155}
3018 \DeclareTextSymbol{\textteluguja}{LTG}{156}
3019 \DeclareTextSymbol{\texttelugujha}{LTG}{157}
3020 \DeclareTextSymbol{\texttelugunya}{LTG}{158}
3021 \DeclareTextSymbol{\texttelugutta}{LTG}{159}
3022 \DeclareTextSymbol{\textteluguttha}{LTG}{160}
3023 \DeclareTextSymbol{\texttelugudda}{LTG}{161}
3024 \DeclareTextSymbol{\textteluguddha}{LTG}{162}
3025 \DeclareTextSymbol{\texttelugunna}{LTG}{163}
3026 \DeclareTextSymbol{\textteluguta}{LTG}{164}
3027 \DeclareTextSymbol{\texttelugutha}{LTG}{165}
3028 \DeclareTextSymbol{\textteluguda}{LTG}{166}
3029 \DeclareTextSymbol{\texttelugudha}{LTG}{167}
3030 \DeclareTextSymbol{\textteluguna}{LTG}{168}
3031 \DeclareTextSymbol{\texttelugupa}{LTG}{170}
3032 \DeclareTextSymbol{\texttelugupha}{LTG}{171}
3033 \DeclareTextSymbol{\textteluguba}{LTG}{172}
3034 \DeclareTextSymbol{\texttelugubha}{LTG}{173}
3035 \DeclareTextSymbol{\textteluguma}{LTG}{174}
3036 \DeclareTextSymbol{\textteluguya}{LTG}{175}
3037 \DeclareTextSymbol{\texttelugura}{LTG}{176}
3038 \DeclareTextSymbol{\texttelugurra}{LTG}{177}
3039 \DeclareTextSymbol{\texttelugula}{LTG}{178}
3040 \DeclareTextSymbol{\texttelugulla}{LTG}{179}
3041 \DeclareTextSymbol{\textteluguva}{LTG}{181}

```

3042 \DeclareTextSymbol{\texttelugusha}{LTG}{182}
3043 \DeclareTextSymbol{\texttelugussa}{LTG}{183}
3044 \DeclareTextSymbol{\texttelugusa}{LTG}{184}
3045 \DeclareTextSymbol{\textteluguha}{LTG}{185}
3046 \DeclareTextCommand{\textteluguvowelaa}{LTG}[1]{#1\char190 }
3047 \DeclareTextCommand{\textteluguvowelii}{LTG}[1]{#1\char191 }
3048 \DeclareTextCommand{\textteluguvoweliii}{LTG}[1]{#1\char192 }
3049 \DeclareTextCommand{\textteluguvoweluu}{LTG}[1]{#1\char193 }
3050 \DeclareTextCommand{\textteluguvoweluuu}{LTG}[1]{#1\char194 }
3051 \DeclareTextCommand{\textteluguvowelvocalicr}{LTG}[1]{#1\char195 }
3052 \DeclareTextCommand{\textteluguvowelvocalicrr}{LTG}[1]{#1\char196 }
3053 \DeclareTextCommand{\textteluguvowelee}{LTG}[1]{#1\char198 }
3054 \DeclareTextCommand{\textteluguvowelee}{LTG}[1]{#1\char199 }
3055 \DeclareTextCommand{\textteluguvowelai}{LTG}[1]{#1\char200 }
3056 \DeclareTextCommand{\textteluguvoweloo}{LTG}[1]{#1\char202 }
3057 \DeclareTextCommand{\textteluguvoweloo}{LTG}[1]{#1\char203 }
3058 \DeclareTextCommand{\textteluguvowelau}{LTG}[1]{#1\char204 }
3059 \DeclareTextCommand{\textteluguvirama}{LTG}[1]{#1\char205 }
3060 \DeclareTextCommand{\texttelugulengthmark}{LTG}[1]{#1\char213 }
3061 \DeclareTextCommand{\textteluguailengthmark}{LTG}[1]{#1\char214 }
3062 \DeclareTextSymbol{\textteluguvocalicrr}{LTG}{224}
3063 \DeclareTextSymbol{\textteluguvocalicll}{LTG}{225}
3064 \DeclareTextSymbol{\textteluguzero}{LTG}{230}
3065 \DeclareTextSymbol{\textteluguone}{LTG}{231}
3066 \DeclareTextSymbol{\texttelugutwo}{LTG}{232}
3067 \DeclareTextSymbol{\textteluguthree}{LTG}{233}
3068 \DeclareTextSymbol{\texttelugufour}{LTG}{234}
3069 \DeclareTextSymbol{\texttelugufive}{LTG}{235}
3070 \DeclareTextSymbol{\texttelugusix}{LTG}{236}
3071 \DeclareTextSymbol{\textteluguseven}{LTG}{237}
3072 \DeclareTextSymbol{\texttelugueight}{LTG}{238}
3073 \DeclareTextSymbol{\texttelugunine}{LTG}{239}
3074 %
3075 </ltgenc.def>

```

4.21 File ltgc2000.fd

```

3076 <*ltgc2000.fd>
3077 \ProvidesFile{ltgc2000.fd}[2004/10/17 Autogenerated .fd file for encoding LTG, family c2000]
3078 \DeclareFontFamily{LTG}{c2000}{}
3079 \DeclareFontShape{LTG}{c2000}{m}{n}{<-> * code2k0c0t}{}
3080 \DeclareFontShape{LTG}{c2000}{m}{n}{<-> * arialuni0c0t}{}
3081 %
3082 </ltgc2000.fd>

```

4.22 File ltlenc.def

```

3083 <*ltlenc.def>
3084 \DeclareFontEncoding{LTL}{}{}
3085 \DeclareFontSubstitution{LTL}{cmr}{m}{n}

```

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

```

3086 \let\uc@temp@a\@input
3087 \def\@input#1 {\def\@tempa{tlxlate}\def\@tempb{#1}\ifx\@tempb\@tempa\expandafter\@firstoftw

```

```

3088 \input tlyllable
3089 \let\@input\uc@temp@a
3090 %
3091 \let\l@state0
3092 \let\l@tlvoa\l@voa
3093 \DeclareTextCommand{\texttelugustart}{LTL}{\let\l@state1}
3094 \newcommand\l@vowel[2]{\let\l@tlvoa\empty#1\let\l@tlvoa\l@voa\ifx\l@state2\let\l@state1}
3095 \newcommand\l@cons[1]{\ifx\l@state2\let\l@state1\fi#1\l@tlvoa}
3096 \newcommand\l@ivowel[1]{\ifx\l@state2\let\l@state1\l@voX\fi#1}
3097 \newcommand\l@dcons[1]{\ifx\l@state1\let\l@state2\fi#1\ifx\l@state0\l@voX\fi}
3098 \DeclareTextCommand{\texttelugustop}{LTL}{\ifx\l@state2\l@voX\fi\let\l@state0}
3099 %
3100 % \newcommand\l@gencons[2]{%
3101 %   \expandafter\ifx\csname tlc#2\endcsname\relax
3102 %     \PackageError{tlenc.def}{\expandafter\string\csname tlc#2\endcsname\space
3103 %       undefined}{\fi}
3104 %   \edef\@tempa{%
3105 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname
3106 %       texttelugu#1\endcsname}{LTL}%
3107 %     {\noexpand\l@cons{\expandafter\noexpand\csname tlc#2\endcsname}}%
3108 %     \noexpand\DeclareTextCompositeCommand{\noexpand\textteluguvirama}{LTL}%
3109 %     {\expandafter\noexpand\csname texttelugu#1\endcsname}%
3110 %     {\noexpand\l@dcons{\expandafter\noexpand\csname tlc#2\endcsname}}}
3111 %   \toks255\expandafter{\@tempa}\typeout{\the\toks255}%
3112 %   \@tempa}
3113 % \newcommand\l@genvow[2]{%
3114 %   \expandafter\ifx\csname tlvo#2\endcsname\relax
3115 %     \PackageError{tlenc.def}{\expandafter\string\csname tlvo#2\endcsname\space
3116 %       undefined}{\fi}
3117 %   \edef\@tempa{%
3118 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname
3119 %       textteluguvowel#1\endcsname}{LTL}[1]%
3120 %     {\noexpand\l@vowel{###1}{\expandafter\noexpand\csname tlvo#2\endcsname}}%
3121 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname texttelugu#1\endcsname}{LTL}
3122 %     {\noexpand\l@ivowel{\expandafter\noexpand\csname tlvo#2\endcsname}}
3123 %     \toks255\expandafter{\@tempa}\typeout{\the\toks255}%
3124 %     \@tempa}
3125 % \newcommand\l@gensymb[2]{%
3126 %   \edef\@tempa{%
3127 %     \noexpand\DeclareTextCommand{\expandafter\noexpand\csname texttelugu#1\endcsname}{LTL}
3128 %     {\noexpand\l@ivowel{#2}}
3129 %     \toks255\expandafter{\@tempa}\typeout{\the\toks255}%
3130 %     \@tempa}
3131 %
3132 \DeclareTextCommand{\textascii}{LTL}[1]{\@textascii@switch{#1}}
3133 \DeclareTextCommand{\textteluguvirama}{LTL}[1]{\l@vowel{#1}{\l@voX}}
3134 %\DeclareTextCommand{\texttelugucandrabindu}{LTL}[1]{\l@vowel{#1}{\l@luaas}}
3135 %\DeclareTextCommand{\textteluguanusvara}{LTL}[1]{\l@vowel{#1}{\l@luas}}
3136 %\DeclareTextCommand{\textteluguisarga}{LTL}[1]{\l@vowel{#1}{\l@luavi}}
3137 \DeclareTextCommand{\texttelugucandrabindu}{LTL}[1]{#1\l@ivowel{\l@luaas}}
3138 \DeclareTextCommand{\textteluguanusvara}{LTL}[1]{#1\l@ivowel{\l@luas}}
3139 \DeclareTextCommand{\textteluguisarga}{LTL}[1]{#1\l@ivowel{\l@luavi}}
3140 %
3141 \DeclareTextCommand{\texttelugudda}{LTL}{\l@cons{\tlcbD}}

```

```

3142 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugudda}{\l1@l@cons{\tlcbD}}
3143 \DeclareTextCommand{\texttelugubha}{LTL}{\l1@l@cons{\tlcbbh}}
3144 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugubha}{\l1@l@cons{\tlcbbh}}
3145 \DeclareTextCommand{\texttelugunga}{LTL}{\l1@l@cons{\tlcbNG}}
3146 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugunga}{\l1@l@cons{\tlcbNG}}
3147 \DeclareTextCommand{\texttelugudha}{LTL}{\l1@l@cons{\tlcbdh}}
3148 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugudha}{\l1@l@cons{\tlcbdh}}
3149 \DeclareTextCommand{\textteluguka}{LTL}{\l1@l@cons{\tlcbk}}
3150 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguka}{\l1@l@cons{\tlcbk}}
3151 \DeclareTextCommand{\texttelugussa}{LTL}{\l1@l@cons{\tlcbSh}}
3152 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugussa}{\l1@l@cons{\tlcbSh}}
3153 \DeclareTextCommand{\textteluguma}{LTL}{\l1@l@cons{\tlcbm}}
3154 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguma}{\l1@l@cons{\tlcbm}}
3155 \DeclareTextCommand{\texttelugutta}{LTL}{\l1@l@cons{\tlcbT}}
3156 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugutta}{\l1@l@cons{\tlcbT}}
3157 \DeclareTextCommand{\texttelugusha}{LTL}{\l1@l@cons{\tlcbS}}
3158 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugusha}{\l1@l@cons{\tlcbS}}
3159 \DeclareTextCommand{\textteluguba}{LTL}{\l1@l@cons{\tlcbb}}
3160 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguba}{\l1@l@cons{\tlcbb}}
3161 \DeclareTextCommand{\texttelugusa}{LTL}{\l1@l@cons{\tlcbs}}
3162 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugusa}{\l1@l@cons{\tlcbs}}
3163 \DeclareTextCommand{\textteluguda}{LTL}{\l1@l@cons{\tlcbd}}
3164 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguda}{\l1@l@cons{\tlcbd}}
3165 \DeclareTextCommand{\texttelugujha}{LTL}{\l1@l@cons{\tlcbjh}}
3166 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugujha}{\l1@l@cons{\tlcbjh}}
3167 \DeclareTextCommand{\textteluguha}{LTL}{\l1@l@cons{\tlcbH}}
3168 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguha}{\l1@l@cons{\tlcbH}}
3169 \DeclareTextCommand{\textteluguttha}{LTL}{\l1@l@cons{\tlcbTh}}
3170 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguttha}{\l1@l@cons{\tlcbTh}}
3171 \DeclareTextCommand{\textteluguya}{LTL}{\l1@l@cons{\tlcbY}}
3172 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguya}{\l1@l@cons{\tlcbY}}
3173 \DeclareTextCommand{\texttelugucha}{LTL}{\l1@l@cons{\tlcbch}}
3174 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugucha}{\l1@l@cons{\tlcbch}}
3175 \DeclareTextCommand{\textteluguja}{LTL}{\l1@l@cons{\tlcbj}}
3176 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguja}{\l1@l@cons{\tlcbj}}
3177 \DeclareTextCommand{\texttelugunya}{LTL}{\l1@l@cons{\tlcbnx}}
3178 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugunya}{\l1@l@cons{\tlcbnx}}
3179 \DeclareTextCommand{\texttelugulla}{LTL}{\l1@l@cons{\tlcbL}}
3180 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugulla}{\l1@l@cons{\tlcbL}}
3181 \DeclareTextCommand{\texttelugupha}{LTL}{\l1@l@cons{\tlcbph}}
3182 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugupha}{\l1@l@cons{\tlcbph}}
3183 \DeclareTextCommand{\textteluguna}{LTL}{\l1@l@cons{\tlcbn}}
3184 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguna}{\l1@l@cons{\tlcbn}}
3185 \DeclareTextCommand{\texttelugugha}{LTL}{\l1@l@cons{\tlcbgh}}
3186 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugugha}{\l1@l@cons{\tlcbgh}}
3187 \DeclareTextCommand{\textteluguddha}{LTL}{\l1@l@cons{\tlcbDh}}
3188 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguddha}{\l1@l@cons{\tlcbDh}}
3189 \DeclareTextCommand{\texttelugunna}{LTL}{\l1@l@cons{\tlcbN}}
3190 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugunna}{\l1@l@cons{\tlcbN}}
3191 \DeclareTextCommand{\texttelugupa}{LTL}{\l1@l@cons{\tlcbp}}
3192 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugupa}{\l1@l@cons{\tlcbp}}
3193 \DeclareTextCommand{\texttelugura}{LTL}{\l1@l@cons{\tlcbr}}
3194 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugura}{\l1@l@cons{\tlcbr}}
3195 \DeclareTextCommand{\textteluguca}{LTL}{\l1@l@cons{\tlcbc}}

```



```

3196 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguca}{\ltl@dcons{\tlcbc}}
3197 \DeclareTextCommand{\texttelugutha}{LTL}{\ltl@cons{\tlcbth}}
3198 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugutha}{\ltl@dcons{\tlcbth}}
3199 \DeclareTextCommand{\texttelugukha}{LTL}{\ltl@cons{\tlcbkh}}
3200 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugukha}{\ltl@dcons{\tlcbkh}}
3201 \DeclareTextCommand{\textteluguga}{LTL}{\ltl@cons{\tlcbg}}
3202 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguga}{\ltl@dcons{\tlcbg}}
3203 \DeclareTextCommand{\texttelugurra}{LTL}{\ltl@cons{\tlcbR}}
3204 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugurra}{\ltl@dcons{\tlcbR}}
3205 \DeclareTextCommand{\texttelugula}{LTL}{\ltl@cons{\tlcbl}}
3206 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugula}{\ltl@dcons{\tlcbl}}
3207 \DeclareTextCommand{\textteluguta}{LTL}{\ltl@cons{\tlcbt}}
3208 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguta}{\ltl@dcons{\tlcbt}}
3209 \DeclareTextCommand{\textteluguva}{LTL}{\ltl@cons{\tlcbv}}
3210 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguva}{\ltl@dcons{\tlcbv}}
3211 \DeclareTextCommand{\texttelugublackbox}{LTL}{\ltl@cons{\tlcbbb}}
3212 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\texttelugublackbox}{\ltl@dcons{\tlcbbb}}
3213 \DeclareTextCommand{\textteluguemptybox}{LTL}{\ltl@cons{\tlcbeb}}
3214 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguemptybox}{\ltl@dcons{\tlcbeb}}
3215 \DeclareTextCommand{\textteluguoutlinebox}{LTL}{\ltl@cons{\tlcbob}}
3216 \DeclareTextCompositeCommand{\textteluguvirama}{LTL}{\textteluguoutlinebox}{\ltl@dcons{\tlcbob}}
3217 % \ltl@gencons{dda}{D}
3218 % \ltl@gencons{bha}{bh}
3219 % \ltl@gencons{nga}{NG}
3220 % \ltl@gencons{dha}{dh}
3221 % \ltl@gencons{ka}{k}
3222 % \ltl@gencons{ssa}{Sh}
3223 % \ltl@gencons{ma}{m}
3224 % \ltl@gencons{tta}{T}
3225 % \ltl@gencons{sha}{S}
3226 % \ltl@gencons{ba}{b}
3227 % \ltl@gencons{sa}{s}
3228 % \ltl@gencons{da}{d}
3229 % \ltl@gencons{jha}{jh}
3230 % \ltl@gencons{ha}{H}
3231 % \ltl@gencons{ttha}{Th}
3232 % \ltl@gencons{ya}{Y}
3233 % \ltl@gencons{cha}{ch}
3234 % \ltl@gencons{ja}{j}
3235 % \ltl@gencons{nya}{nx}
3236 % \ltl@gencons{l1a}{L}
3237 % \ltl@gencons{pha}{ph}
3238 % \ltl@gencons{na}{n}
3239 % \ltl@gencons{gha}{gh}
3240 % \ltl@gencons{ddha}{Dh}
3241 % \ltl@gencons{nna}{N}
3242 % \ltl@gencons{pa}{p}
3243 % \ltl@gencons{ra}{r}
3244 % \ltl@gencons{ca}{c}
3245 % \ltl@gencons{tha}{th}
3246 % \ltl@gencons{kha}{kh}
3247 % \ltl@gencons{ga}{g}
3248 % \ltl@gencons{rra}{R}
3249 % \ltl@gencons{la}{l}

```

```

3250 % \l1@gencons{ta}{t}
3251 % \l1@gencons{va}{v}
3252 % \l1@gencons{blackbox}{bb}
3253 % \l1@gencons{emptybox}{eb}
3254 % \l1@gencons{outlinebox}{ob}
3255 %
3256 \DeclareTextCommand{\textteluguvowela}{LTL}[1]{\l1@vowel{#1}{\tlvoa}}
3257 \DeclareTextCommand{\texttelugua}{LTL}{\l1@ivowel{\tlvoa}}
3258 \DeclareTextCommand{\textteluguvowelaa}{LTL}[1]{\l1@vowel{#1}{\tlvoA}}
3259 \DeclareTextCommand{\textteluguaa}{LTL}{\l1@ivowel{\tlvoA}}
3260 \DeclareTextCommand{\textteluguvowelii}{LTL}[1]{\l1@vowel{#1}{\tlvoi}}
3261 \DeclareTextCommand{\texttelugui}{LTL}{\l1@ivowel{\tlvoi}}
3262 \DeclareTextCommand{\textteluguvoweliii}{LTL}[1]{\l1@vowel{#1}{\tlvoI}}
3263 \DeclareTextCommand{\textteluguiii}{LTL}{\l1@ivowel{\tlvoI}}
3264 \DeclareTextCommand{\textteluguvoweluu}{LTL}[1]{\l1@vowel{#1}{\tlvou}}
3265 \DeclareTextCommand{\textteluguu}{LTL}{\l1@ivowel{\tlvou}}
3266 \DeclareTextCommand{\textteluguvoweluuu}{LTL}[1]{\l1@vowel{#1}{\tlvoU}}
3267 \DeclareTextCommand{\textteluguuuu}{LTL}{\l1@ivowel{\tlvoU}}
3268 \DeclareTextCommand{\textteluguvowelvocalicr}{LTL}[1]{\l1@vowel{#1}{\tlvorx}}
3269 \DeclareTextCommand{\textteluguvocalicr}{LTL}{\l1@ivowel{\tlvorx}}
3270 \DeclareTextCommand{\textteluguvowelvocalicl}{LTL}[1]{\l1@vowel{#1}{\tlvolx}}
3271 \DeclareTextCommand{\textteluguvocalicl}{LTL}{\l1@ivowel{\tlvolx}}
3272 \DeclareTextCommand{\textteluguvowelvocalicrr}{LTL}[1]{\l1@vowel{#1}{\tlvoRx}}
3273 \DeclareTextCommand{\textteluguvocalicrr}{LTL}{\l1@ivowel{\tlvoRx}}
3274 \DeclareTextCommand{\textteluguvowelvocalicll}{LTL}[1]{\l1@vowel{#1}{\tlvoLx}}
3275 \DeclareTextCommand{\textteluguvocalicll}{LTL}{\l1@ivowel{\tlvoLx}}
3276 \DeclareTextCommand{\textteluguvowele}{LTL}[1]{\l1@vowel{#1}{\tlvoe}}
3277 \DeclareTextCommand{\texttelugue}{LTL}{\l1@ivowel{\tlvoe}}
3278 \DeclareTextCommand{\textteluguvoweleee}{LTL}[1]{\l1@vowel{#1}{\tlvoE}}
3279 \DeclareTextCommand{\textteluguee}{LTL}{\l1@ivowel{\tlvoE}}
3280 \DeclareTextCommand{\textteluguvowelai}{LTL}[1]{\l1@vowel{#1}{\tlvoy}}
3281 \DeclareTextCommand{\textteluguai}{LTL}{\l1@ivowel{\tlvoy}}
3282 \DeclareTextCommand{\textteluguvowelo}{LTL}[1]{\l1@vowel{#1}{\tlvoO}}
3283 \DeclareTextCommand{\textteluguo}{LTL}{\l1@ivowel{\tlvoO}}
3284 \DeclareTextCommand{\textteluguvoweloo}{LTL}[1]{\l1@vowel{#1}{\tlvo0}}
3285 \DeclareTextCommand{\textteluguoo}{LTL}{\l1@ivowel{\tlvo0}}
3286 \DeclareTextCommand{\textteluguvowelau}{LTL}[1]{\l1@vowel{#1}{\tlvoow}}
3287 \DeclareTextCommand{\textteluguau}{LTL}{\l1@ivowel{\tlvoow}}
3288 % \l1@genvow{a}{a}
3289 % \l1@genvow{aa}{A}
3290 % \l1@genvow{i}{i}
3291 % \l1@genvow{ii}{I}
3292 % \l1@genvow{u}{u}
3293 % \l1@genvow{uu}{U}
3294 % \l1@genvow{vocalicr}{rx}
3295 % \l1@genvow{vocalicl}{lx}
3296 % \l1@genvow{vocalicrr}{Rx}
3297 % \l1@genvow{vocalicll}{Lx}
3298 % \l1@genvow{e}{e}
3299 % \l1@genvow{ee}{E}
3300 % \l1@genvow{ai}{y}
3301 % \l1@genvow{o}{o}
3302 % \l1@genvow{oo}{O}
3303 % \l1@genvow{au}{ow}

```

```

3304 %
3305 \DeclareTextCommand{\textteluguzero}{LTL}{\ltl@ivowel{\char\dtzeroCODE}}
3306 \DeclareTextCommand{\textteluguone}{LTL}{\ltl@ivowel{\char\dtoneCODE}}
3307 \DeclareTextCommand{\texttelugutwo}{LTL}{\ltl@ivowel{\char\dttwoCODE}}
3308 \DeclareTextCommand{\textteluguthree}{LTL}{\ltl@ivowel{\char\dtthreeCODE}}
3309 \DeclareTextCommand{\texttelugufour}{LTL}{\ltl@ivowel{\char\dtfourCODE}}
3310 \DeclareTextCommand{\texttelugufive}{LTL}{\ltl@ivowel{\char\dtfiveCODE}}
3311 \DeclareTextCommand{\texttelugusix}{LTL}{\ltl@ivowel{\char\dtsixCODE}}
3312 \DeclareTextCommand{\textteluguseven}{LTL}{\ltl@ivowel{\char\dtsevenCODE}}
3313 \DeclareTextCommand{\texttelugueight}{LTL}{\ltl@ivowel{\char\dteightCODE}}
3314 \DeclareTextCommand{\texttelugunine}{LTL}{\ltl@ivowel{\char\dtnineCODE}}
3315 % \ltl@gensymb{zero}{\char\dtzeroCODE}%
3316 % \ltl@gensymb{one}{\char\dtoneCODE}%
3317 % \ltl@gensymb{two}{\char\dttwoCODE}%
3318 % \ltl@gensymb{three}{\char\dtthreeCODE}%
3319 % \ltl@gensymb{four}{\char\dtfourCODE}%
3320 % \ltl@gensymb{five}{\char\dtfiveCODE}%
3321 % \ltl@gensymb{six}{\char\dtsixCODE}%
3322 % \ltl@gensymb{seven}{\char\dtsevenCODE}%
3323 % \ltl@gensymb{eight}{\char\dteightCODE}%
3324 % \ltl@gensymb{nine}{\char\dtnineCODE}%
3325 %%% Local Variables:
3326 %%% mode: latex
3327 %%% coding: utf-8
3328 %%% TeX-master: "../test.tex"
3329 %%% End:
3330 %%% Local IspellDict: british
3331 %
3332 </ltlenc.def>

```

4.23 File ltlcmr.fd

```

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

```

```

3356 <20> tel20s
3357 <25> tel25s
3358 <30> tel30s
3359 <35> tel35s
3360 <40> tel40s
3361 <55> tel55s
3362 }{}%
3363 \DeclareFontShape{LTL}{cmr}{m}{it}{%
3364 <-> sub * cmr/m/sl }{}%
3365 \DeclareFontShape{LTL}{cmr}{nx}{n}{%
3366 <10> tel10nx
3367 <11> tel11nx
3368 <12> tel12nx
3369 }{}%
3370 \DeclareFontShape{LTL}{cmr}{ny}{n}{%
3371 <10> tel10ny
3372 <11> tel11ny
3373 <12> tel12ny
3374 }{}%
3375 \DeclareFontShape{LTL}{cmr}{nx}{sl}{%
3376 <-> sub * cmr/m/sl }{}%
3377 \DeclareFontShape{LTL}{cmr}{ny}{sl}{%
3378 <-> sub * cmr/m/sl }{}%
3379 \DeclareFontShape{LTL}{cmr}{nx}{it}{%
3380 <-> sub * cmr/m/sl }{}%
3381 \DeclareFontShape{LTL}{cmr}{ny}{it}{%
3382 <-> sub * cmr/m/sl }{}%
3383 %
3384 </ltxcmr.fd>

```

4.24 File ltwenc.def

```
3385 <*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.

```

3386 \ProvidesFile{ltwenc.def}[2001/10/17 Fontencoding LTW for Tengwar]
3387 \DeclareFontEncoding{LTW}{}{}
3388 \DeclareFontSubstitution{LTW}{dsque}{m}{n}

```

Tengwar (normal letters)

```

3389 \DeclareTextSymbol{\tengwarTinco}{LTW}{"00}
3390 \DeclareTextSymbol{\tengwarParma}{LTW}{"01}
3391 \DeclareTextSymbol{\tengwarCalma}{LTW}{"02}
3392 \DeclareTextSymbol{\tengwarQuesse}{LTW}{"03}
3393 \DeclareTextSymbol{\tengwarAndo}{LTW}{"04}
3394 \DeclareTextSymbol{\tengwarUmbar}{LTW}{"05}
3395 \DeclareTextSymbol{\tengwarAnga}{LTW}{"06}
3396 \DeclareTextSymbol{\tengwarUngwe}{LTW}{"07}
3397 \DeclareTextSymbol{\tengwarThuule}{LTW}{"08}
3398 \DeclareTextSymbol{\tengwarFormen}{LTW}{"09}

```

```

3399 \DeclareTextSymbol{\tengwarHarma}{LTW}{"0A}
3400 \DeclareTextSymbol{\tengwarHwesta}{LTW}{"0B}
3401 \DeclareTextSymbol{\tengwarAnto}{LTW}{"0C}
3402 \DeclareTextSymbol{\tengwarAmpa}{LTW}{"0D}
3403 \DeclareTextSymbol{\tengwarAnca}{LTW}{"0E}
3404 \DeclareTextSymbol{\tengwarUnque}{LTW}{"0F}
3405 \DeclareTextSymbol{\tengwarNuumen}{LTW}{"10}
3406 \DeclareTextSymbol{\tengwarMalta}{LTW}{"11}
3407 \DeclareTextSymbol{\tengwarNoldo}{LTW}{"12}
3408 \DeclareTextSymbol{\tengwarNwalme}{LTW}{"13}
3409 \DeclareTextSymbol{\tengwarOore}{LTW}{"14}
3410 \DeclareTextSymbol{\tengwarVala}{LTW}{"15}
3411 \DeclareTextSymbol{\tengwarAnna}{LTW}{"16}
3412 \DeclareTextSymbol{\tengwarVilya}{LTW}{"17}
3413 \DeclareTextSymbol{\tengwarRoomen}{LTW}{"18}
3414 \DeclareTextSymbol{\tengwarArda}{LTW}{"19}
3415 \DeclareTextSymbol{\tengwarLambe}{LTW}{"1A}
3416 \DeclareTextSymbol{\tengwarAlda}{LTW}{"1B}
3417 \DeclareTextSymbol{\tengwarSilme}{LTW}{"1C}
3418 \DeclareTextSymbol{\tengwarSilmeNuquerna}{LTW}{"1D}
3419 \DeclareTextSymbol{\tengwarAare}{LTW}{"1E}
3420 \DeclareTextSymbol{\tengwarAareNuquerna}{LTW}{"1F}
3421 \DeclareTextSymbol{\tengwarHyarmen}{LTW}{"20}
3422 \DeclareTextSymbol{\tengwarHwestaSindarinwa}{LTW}{"21}
3423 \DeclareTextSymbol{\tengwarYanta}{LTW}{"22}
3424 \DeclareTextSymbol{\tengwarUure}{LTW}{"23}
3425 \DeclareTextSymbol{\tengwarHalla}{LTW}{"24}
3426 \DeclareTextSymbol{\tengwarShortCarrier}{LTW}{"25}
3427 \DeclareTextSymbol{\tengwarLongCarrier}{LTW}{"26}
3428 \DeclareTextSymbol{\tengwarAnnaSindarinwa}{LTW}{"27}
3429 \DeclareTextSymbol{\tengwarExtThuule}{LTW}{"28}
3430 \DeclareTextSymbol{\tengwarExtFormen}{LTW}{"29}
3431 \DeclareTextSymbol{\tengwarExtHarma}{LTW}{"2A}
3432 \DeclareTextSymbol{\tengwarExtHwesta}{LTW}{"2B}
3433 \DeclareTextSymbol{\tengwarExtAnto}{LTW}{"2C}
3434 \DeclareTextSymbol{\tengwarExtAmpa}{LTW}{"2D}
3435 \DeclareTextSymbol{\tengwarExtAnca}{LTW}{"2E}
3436 \DeclareTextSymbol{\tengwarExtUnque}{LTW}{"2F}
3437 \DeclareTextSymbol{\tengwarStemlessOore}{LTW}{"30}
3438 \DeclareTextSymbol{\tengwarStemlessVala}{LTW}{"31}
3439 \DeclareTextSymbol{\tengwarStemlessAnna}{LTW}{"32}
3440 \DeclareTextSymbol{\tengwarStemlessVilya}{LTW}{"33}

```

Punctuation

```

3441 \DeclareTextSymbol{\tengwarPusta}{LTW}{"50}
3442 \DeclareTextSymbol{\tengwarDoublePusta}{LTW}{"51}
3443 \DeclareTextSymbol{\tengwarExclam}{LTW}{"52}
3444 \DeclareTextSymbol{\tengwarQuestion}{LTW}{"53}
3445 \DeclareTextSymbol{\tengwarSection}{LTW}{"54}
3446 \DeclareTextSymbol{\tengwarLongSection}{LTW}{"55}

```

Digits

```

3447 \ProvideTextCommandDefault{\tengwarZero}{\tengwarStemlessOore}
3448 \ProvideTextCommandDefault{\tengwarOne}{\tengwarStemlessVilya}

```

```

3449 \DeclareTextSymbol{\tengwarTwo}{LTW}{"62}
3450 \DeclareTextSymbol{\tengwarThree}{LTW}{"63}
3451 \DeclareTextSymbol{\tengwarFour}{LTW}{"64}
3452 \DeclareTextSymbol{\tengwarFive}{LTW}{"65}
3453 \DeclareTextSymbol{\tengwarSix}{LTW}{"66}
3454 \DeclareTextSymbol{\tengwarSeven}{LTW}{"67}
3455 \DeclareTextSymbol{\tengwarEight}{LTW}{"68}
3456 \DeclareTextSymbol{\tengwarNine}{LTW}{"69}
3457 \DeclareTextSymbol{\tengwarTen}{LTW}{"6A}
3458 \DeclareTextSymbol{\tengwarEleven}{LTW}{"6B}

```

Tehta (accents)

```

3459 \DeclareTextCommand{\tengwarThreeDotsAbove}{LTW}[1]{#1\char"40 }
3460 \DeclareTextCommand{\tengwarThreeDotsBelow}{LTW}[1]{#1\char"41 }
3461 \DeclareTextCommand{\tengwarTwoDotsAbove}{LTW}[1]{#1\char"42 }
3462 \DeclareTextCommand{\tengwarTwoDotsBelow}{LTW}[1]{#1\char"43 }
3463 \DeclareTextCommand{\tengwarAmaticse}{LTW}[1]{#1\char"44 }
3464 \DeclareTextCommand{\tengwarNunticse}{LTW}[1]{#1\char"45 }
3465 \DeclareTextCommand{\tengwarAcute}{LTW}[1]{#1\char"46 }
3466 \DeclareTextCommand{\tengwarDoubleAcute}{LTW}[1]{#1\char"47 }
3467 \DeclareTextCommand{\tengwarRightCurl}{LTW}[1]{#1\char"48 }
3468 \DeclareTextCommand{\tengwarDoubleRightCurl}{LTW}[1]{#1\char"49 }
3469 \DeclareTextCommand{\tengwarLeftCurl}{LTW}[1]{#1\char"4A }
3470 \DeclareTextCommand{\tengwarDoubleLeftCurl}{LTW}[1]{#1\char"4B }
3471 \DeclareTextCommand{\tengwarNasalizer}{LTW}[1]{#1\char"4C }
3472 \DeclareTextCommand{\tengwarDoubler}{LTW}[1]{#1\char"4D }
3473 \DeclareTextCommand{\tengwarTilde}{LTW}[1]{#1\char"4E }
3474 \DeclareTextCommand{\tengwarBreve}{LTW}[1]{#1\char"4F }
3475 \DeclareTextCommand{\tengwarLongCarrierBelow}{LTW}[1]{#1\char"56 }
3476 \DeclareTextCommand{\tengwarDoubleAcuteBelow}{LTW}[1]{#1\char"57 }
3477 \DeclareTextCommand{\tengwarRightCurlBelow}{LTW}[1]{#1\char"58 }
3478 \DeclareTextCommand{\tengwarLeftCurlBelow}{LTW}[1]{#1\char"59 }
3479
3480 %
3481 </ltwenc.def)

```

4.25 File ltwdsque.fd

```
3482 <*ltwdsque.fd)
```

This fontfamily loads the Quenya fonts from Dan Smith.

```

3483 \ProvidesFile{ltwdsque.fd}[2001/10/11 Fontfamily dsque for Fontencoding LTW]%
3484 \DeclareFontFamily{LTW}{dsque}{}
3485 \DeclareFontShape{LTW}{dsque}{m}{n}{<-> tengdsq}{}
3486 %
3487 </ltwdsque.fd)

```

4.26 File ltwdsnol.fd

```
3488 <*ltwdsnol.fd)
```

This fontfamily loads the Noldor fonts from Dan Smith.

```
3489 \ProvidesFile{ltwdsnol.fd}[2001/10/11 Fontfamily dsnol for Fontencoding LTW]%
```

```

3490 \DeclareFontFamily{LTW}{dsno1}{}
3491 \DeclareFontShape{LTW}{dsno1}{m}{n}{<-> tengdsn}{}
3492 %
3493 </ltwdsno1.fd>

```

4.27 File ltwdssin.fd

```
3494 <*ltwdssin.fd>
```

This fontfamily loads the Sindarin fonts from Dan Smith.

```

3495 \ProvidesFile{ltwdssin.fd}[2001/10/11 Fontfamily dssin for Fontencoding LTW]%
3496 \DeclareFontFamily{LTW}{dssin}{}
3497 \DeclareFontShape{LTW}{dssin}{m}{n}{<-> tengdss}{}
3498 %
3499 </ltwdssin.fd>

```

4.28 File lucenc.def

```

3500 <*lucenc.def>
3501 % Stuff working with TeX:
3502 \catcode'\@11
3503 \ifx\@tempcnta\undefined\csname newcount\endcsname\@tempcnta\fi
3504 \ifx\@tempcntb\undefined\csname newcount\endcsname\@tempcntb\fi
3505 \def\lucchar#1{%
3506   \begingroup
3507     \@tempcnta=#1\divide\@tempcnta by"1000
3508     \multiply\@tempcnta by-"1000\advance\@tempcnta by#1%
3509     \divide\@tempcnta by"100%
3510     \@tempcntb=#1\divide\@tempcntb by"10000
3511     \multiply\@tempcntb by-"10000\advance\@tempcntb by#1%
3512     \divide\@tempcntb by"1000%
3513     \xdef\LUC@plane@LUC{%
3514       \ifcase\@tempcntb0\or1\or2\or3\or4\or5\or6\or7\or
3515         8\or9\or a\or b\or c\or d\or e\or f\fi
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     \ifnum#1>"FFFF
3519       \@tempcnta=#1\divide\@tempcnta by"100000
3520       \multiply\@tempcnta by-"100000\advance\@tempcnta by#1%
3521       \divide\@tempcnta by"10000%
3522       \xdef\LUC@plane@LUC{%
3523         \ifcase\@tempcnta0\or1\or2\or3\or4\or5\or6\or7\or
3524           8\or9\or a\or b\or c\or d\or e\or f\fi
3525         \LUC@plane@LUC}%
3526       \ifnum#1>"FFFFF
3527         \@tempcnta=#1\divide\@tempcnta by"1000000
3528         \multiply\@tempcnta by-"1000000\advance\@tempcnta by#1%
3529         \divide\@tempcnta by"100000%
3530         \xdef\LUC@plane@LUC{%
3531           \ifcase\@tempcnta0\or1\or2\or3\or4\or5\or6\or7\or
3532             8\or9\or a\or b\or c\or d\or e\or f\fi
3533           \LUC@plane@LUC}%
3534       \fi
3535     \fi

```

```

3536 \@tempcnta=#1\divide\@tempcnta by"100
3537 \multiply\@tempcnta by-"100\advance\@tempcnta by#1%
3538 \relax
3539 %\typeout{Plane: \LUC@plane@LUC, Char: \number\@tempcnta}%
3540 \expandafter\endgroup
3541 \expandafter\luc@char\expandafter{\number\@tempcnta}%
3542 }
3543 \def\luc@loadfont{%
3544 \expandafter\ifx\csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname\relax
3545 \expandafter\font\csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname=%
3546 \LUCfont\LUC@plane@LUC\fi
3547 \csname LUC-font-\LUCfont\LUC@plane@LUC\endcsname}
3548 \def\luc@char#1{%
3549 \ifx\LUC@plane@LUC\LUC@plane@old\else
3550 \ifx\LUCfont\undefined\selectfont
3551 \else\luc@loadfont\fi
3552 \fi
3553 \char#1 }
3554 \ifx\NeedsTeXFormat\undefined\endinput\fi
3555
3556 % LaTeX-only stuff follows.
3557 \ProvidesFile{lucenc.def}[2002/02/20 Encoding for Unicode fonts]
3558 \DeclareFontEncoding{LUC}{-}{-}%
3559 \DeclareFontSubstitution{LUC}{arial}{m}{n}%
3560 %
3561 \providecommand\LUC@@empty[1]{%
3562 \edef\mandatory@arg{\mandatory@arg\csname LUC@plane@f@encoding\endcsname}%
3563 \empty@sfcnt#1%
3564 \edef\uc@temp@a{\csname LUC@plane@f@encoding\endcsname}%
3565 \xdef\font@name{\csname \curr@fontshape/\f@size/\uc@temp@a\endcsname}}
3566 \providecommand\LUC@@sub[1]{%
3567 \expandafter\ifx\csname LUC@\mandatory@arg/\f@size\endcsname\relax
3568 \expandafter\gdef\csname LUC@\mandatory@arg/\f@size\endcsname{}%
3569 \sub@sfcnt#1%
3570 \else
3571 \sub@sfcnt@gobble
3572 \fi}
3573 \DeclareSizeFunction{LUC}{\LUC@@empty@font@warning}
3574 \DeclareSizeFunction{LUCb}{\LUC@@empty@font@warning}
3575 \DeclareSizeFunction{sLUC}{\LUC@@empty@font@info}
3576 \DeclareSizeFunction{sLUCb}{\LUC@@empty@font@info}
3577 \DeclareSizeFunction{LUCsub}{\LUC@@sub@font@warning}
3578 \DeclareSizeFunction{LUCssub}{\LUC@@sub@font@info}
3579 %
3580 \gdef\LUC@plane@LUC{00}%
3581 \DeclareTextCommand{\textasciic}{\LastDeclaredEncoding}[1]{\textunicodechar{#1}}
3582 \DeclareTextCommand{\textunicodechar}{\LastDeclaredEncoding}[1]{\lucchar{#1}}
3583
3584 %%% Local Variables:
3585 %%% mode: latex
3586 %%% coding: utf-8
3587 %%% TeX-master: "../test.tex"
3588 %%% End:
3589 %%% Local IspellDict: british

```



```
3590 %
3591 </lucenc.def>
```

4.29 File lucarial.fd

```
3592 <*lucarial.fd>
3593 \ProvidesFile{lucarial.fd}[2002/02/17 .fd file for encoding LUC, family arial]
3594 \DeclareFontFamily{LUC}{arial}{}
3595 \DeclareFontShape{LUC}{arial}{m}{n}{<-> LUC * arialuni}{}
3596 %
3597 </lucarial.fd>
```

4.30 File lucc2000.fd

```
3598 <*lucc2000.fd>
3599 \ProvidesFile{lucc2000.fd}[2002/02/17 .fd file for encoding LUC, family c2000]
3600 \DeclareFontFamily{LUC}{c2000}{}
3601 \DeclareFontShape{LUC}{c2000}{m}{n}{<-> LUC * code2k}{}
3602 %
3603 </lucc2000.fd>
```

4.31 File mkrenc.def

```
3604 <*mkrenc.def>
3605 \ProvidesFile{mkrenc.def}[2003/11/29 Fontencoding MKR for use with package makor]
3606 \makeatletter
3607 %
3608 \AtBeginDocument{%
3609   \let\mkr@quote"
3610   \RequirePackage{makor}%
3611   \let"\mkr@quote
3612   \expandafter\ifx\csname !hdefaultfont\endcsname\relax
3613     \expandafter\def\csname !hdefaultfont\endcsname{NFSS}\fi
3614   }%
3615 \expandafter\g@addto@macro\csname selectfont \endcsname{\protect\@hfontadapt}
3616 %
3617 \begingroup
3618 \escapechar=-1
3619 \edef\temp@a{%
3620   \gdef\noexpand\@hfontadapt@
3621   \expandafter\string\csname select font \endcsname##1 ##2%
3622   \noexpand\@nil{%
3623     \edef\noexpand\temp@a{%
3624       \noexpand\noexpand\noexpand\hfontdef{\noexpand\mkr@font}{##1}{\noexpand\font@size pt}}\no
3625 \xdef\mkr@at{\expandafter\string\csname\space at \endcsname}%
3626 \endgroup
3627 %
3628 \def\@hfont@enc{MKR}
3629 \def\@hfontadapt{%
3630   \ifx\font@encoding\@hfont@enc%
3631     \edef\mkr@font{\mkr@\font@family\font@series\font@shape-\font@size}%
3632     %\typeout{HFONTADAPT: ID:\mkr@font, SIZE: \font@size}%
3633     \@ifundefined{\mkr@font}{}%
3634     %\typeout{Needs adapting. (\expandafter\meaning\the\font)}%
3635     \edef\temp@a{\noexpand\@hfontadapt@\expandafter\meaning\the\font\space\noexpand\@nil}
```

```

3636     }-}%
3637     \expandafter\hfont\expandafter{\mkr@font}%
3638     \fi
3639 }
3640 %
3641 %
3642 \DeclareFontEncoding{MKR}{-}{-}
3643 \DeclareFontSubstitution{MKR}{omega}{m}{n}
3644 %
3645 \DeclareTextCommand\hebalef{MKR}{‘}
3646 \DeclareTextCommand\hebbet{MKR}{v}
3647 \DeclareTextCommand\hebgimel{MKR}{g}
3648 \DeclareTextCommand\hebdalet{MKR}{d}
3649 \DeclareTextCommand\hebhe{MKR}{h}
3650 \DeclareTextCommand\hebvav{MKR}{w}
3651 \DeclareTextCommand\hebzayin{MKR}{z}
3652 \DeclareTextCommand\hebbet{MKR}{x}
3653 \DeclareTextCommand\hebtet{MKR}{t}
3654 \DeclareTextCommand\hebyod{MKR}{y}
3655 \DeclareTextCommand\hebfinalkaf{MKR}{K\char94 }
3656 \DeclareTextCommand\hebkaf{MKR}{K\NOBOUNDARY}
3657 \DeclareTextCommand\heblamed{MKR}{l}
3658 \DeclareTextCommand\hebfinalmem{MKR}{m\char94 }
3659 \DeclareTextCommand\hebmeme{MKR}{m\NOBOUNDARY}
3660 \DeclareTextCommand\hebfinalnun{MKR}{n\char94 }
3661 \DeclareTextCommand\hebnun{MKR}{n\NOBOUNDARY}
3662 \DeclareTextCommand\hebsamekh{MKR}{s}
3663 \DeclareTextCommand\hebayin{MKR}{‘ ‘}
3664 \DeclareTextCommand\hebfinalpe{MKR}{f\char94 }
3665 \DeclareTextCommand\hebpe{MKR}{f\NOBOUNDARY}
3666 \DeclareTextCommand\hebfinaltsadi{MKR}{ts\char94 }
3667 \DeclareTextCommand\hebtsadi{MKR}{ts\NOBOUNDARY}
3668 \DeclareTextCommand\hebqof{MKR}{q}
3669 \DeclareTextCommand\hebresh{MKR}{r}
3670 \DeclareTextCommand\hebshin{MKR}{sh}
3671 \DeclareTextCommand\hebtav{MKR}{s\char94 }
3672 \DeclareTextSymbol\doublevav{MKR}{"83}
3673 \DeclareTextSymbol\vavyod{MKR}{"84}
3674 \DeclareTextSymbol\doubleyod{MKR}{"81}
3675 \DeclareTextCommand\maqaf{MKR}{-{} }
3676 \DeclareTextCommand\sofpasuq{MKR}{:}
3677 \DeclareTextSymbol\geresh{MKR}{251}
3678 \DeclareTextSymbol\gershayim{MKR}{"22}
3679 \DeclareTextSymbol\hebaleflamed{MKR}{"A4}
3680 %
3681 \DeclareTextCommand\dagesh{MKR}[1]{#1*}
3682 \DeclareTextCommand\sheva{MKR}[1]{#1\vw1SHEVA}
3683 \DeclareTextCommand\hatafsegol{MKR}[1]{#1\vw1COLON\vw1E}
3684 \DeclareTextCommand\hatafpatah{MKR}[1]{#1\vw1COLON\vw1A}
3685 \DeclareTextCommand\hatafqamats{MKR}[1]{#1\vw1COLON\vw1PLUS}
3686 \DeclareTextCommand\hiriq{MKR}[1]{#1\vw1I}
3687 \DeclareTextCommand\tseres{MKR}[1]{#1\vw1E\vw1I}
3688 \DeclareTextCommand\segol{MKR}[1]{#1\vw1E}
3689 \DeclareTextCommand\patah{MKR}[1]{#1\vw1A}

```

```

3690 \DeclareTextCommand\qamats{MKR}[1]{#1\vw1PLUS}
3691 \DeclareTextCommand\qubuts{MKR}[1]{#1\vw1U}
3692 \DeclareTextCommand\meteg{MKR}[1]{#1\vw1VERT}
3693 \DeclareTextCommand\holam{MKR}[1]{#1o}
3694 \DeclareTextCommand\shindot{MKR}[1]{sh\char94 }% Only useful as \shindot\shin
3695 \DeclareTextCommand\sindot{MKR}[1]{\char94s}% Only useful as \sindot\shin
3696 %
3697 \DeclareTextCommand{\textascii}{MKR}[1]{\@textascii@switch{#1}}
3698 \DeclareTextComposite\patach{MKR}\doubleyod{"82}
3699 \DeclareTextCompositeCommand\dagesh{MKR}\finalkaf{K*\char94 }
3700 \DeclareTextCompositeCommand\dagesh{MKR}\kaf{K*\NOBOUNDARY}
3701 \DeclareTextCompositeCommand\dagesh{MKR}\finalmem{m*{}}
3702 \DeclareTextCompositeCommand\dagesh{MKR}\mem{m*\NOBOUNDARY}
3703 \DeclareTextCompositeCommand\dagesh{MKR}\finalnun{n*{}}
3704 \DeclareTextCompositeCommand\dagesh{MKR}\nun{n*\NOBOUNDARY}
3705 %\DeclareTextCompositeCommand\dagesh{MKR}\finalpe{f*\char94 }
3706 \DeclareTextCompositeCommand\dagesh{MKR}\pe{f*\NOBOUNDARY}
3707 %\DeclareTextCompositeCommand\dagesh{MKR}\finaltsadi{ts*\char94 }
3708 \DeclareTextCompositeCommand\dagesh{MKR}\tsadi{ts*\NOBOUNDARY}
3709 %
3710 %
3711 \mkreenc.def)

```

4.32 File mkrezra.fd

```

3712 (*mkrezra.fd)
3713 \ProvidesFile{mkrezra.fd}[2002/09/20 ezra family for encoding MKR]%
3714 \DeclareFontFamily{MKR}{ezra}{}
3715 \DeclareFontShape{MKR}{ezra}{m}{n}{<-> * ezramm}{}
3716 \DeclareFontShape{MKR}{ezra}{m}{it}{<-> * ezraimm}{}
3717 \DeclareFontShape{MKR}{ezra}{bx}{n}{<-> * ezrabmm}{}
3718 \DeclareFontShape{MKR}{ezra}{bx}{it}{<-> * ezrabimm}{}
3719 \DeclareFontShape{MKR}{ezra}{m}{o}{<-> * ezraomm}{}
3720 %
3721 %
3722 \mkrezra.fd)

```

4.33 File mkrhadas.fd

```

3723 (*mkrhadas.fd)
3724 \ProvidesFile{mkrhadas.fd}[2002/09/20 hadas family for encoding MKR]%
3725 \DeclareFontFamily{MKR}{hadas}{}
3726 \DeclareFontShape{MKR}{hadas}{m}{n}{<-> * hadassahmm}{}
3727 \DeclareFontShape{MKR}{hadas}{m}{it}{<-> * hadassaimm}{}
3728 \DeclareFontShape{MKR}{hadas}{bx}{n}{<-> * hadassabmm}{}
3729 \DeclareFontShape{MKR}{hadas}{bx}{it}{<-> * hadassbimm}{}
3730 %
3731 %
3732 \mkrhadas.fd)

```

4.34 File mkromega.fd

```

3733 (*mkromega.fd)
3734 \ProvidesFile{mkromega.fd}[2002/09/20 omega family for encoding MKR]%
3735 \DeclareFontFamily{MKR}{omega}{}

```

```

3736 \DeclareFontShape{MKR}{omega}{m}{n}{<-> * ohebrmm}{-}
3737 %
3738 %
3739 </mkromega.fd)

```

4.35 File mkrrashi.fd

```

3740 <*mkrrashi.fd)
3741 \ProvidesFile{mkrrashi.fd}[2002/09/20 rashi family for encoding MKR]%
3742 \DeclareFontFamily{MKR}{rashi}{-}
3743 \DeclareFontShape{MKR}{rashi}{m}{n}{<-> * rashimm}{-}
3744 \DeclareFontShape{MKR}{rashi}{bx}{n}{<-> * rashbmm}{-}
3745 %
3746 %
3747 </mkrrashi.fd)

```

4.36 File t2denc.def

```

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

```

3785 \DeclareTextSymbol\CYRP\LastDeclaredEncoding{"CF}%
3786 \DeclareTextSymbol\cyrp\LastDeclaredEncoding{"EF}%
3787 \DeclareTextSymbol\CYRR\LastDeclaredEncoding{"D0}%
3788 \DeclareTextSymbol\cyrr\LastDeclaredEncoding{"F0}%
3789 \DeclareTextSymbol\CYRS\LastDeclaredEncoding{"D1}%
3790 \DeclareTextSymbol\cyrs\LastDeclaredEncoding{"F1}%
3791 \DeclareTextSymbol\CYRT\LastDeclaredEncoding{"D2}%
3792 \DeclareTextSymbol\cyrt\LastDeclaredEncoding{"F2}%
3793 \DeclareTextSymbol\CYRU\LastDeclaredEncoding{"D3}%
3794 \DeclareTextSymbol\cyru\LastDeclaredEncoding{"F3}%
3795 \DeclareTextSymbol\CYRF\LastDeclaredEncoding{"D4}%
3796 \DeclareTextSymbol\cyrf\LastDeclaredEncoding{"F4}%
3797 \DeclareTextSymbol\CYRH\LastDeclaredEncoding{"D5}%
3798 \DeclareTextSymbol\cyrh\LastDeclaredEncoding{"F5}%
3799 \DeclareTextSymbol\CYRC\LastDeclaredEncoding{"D6}%
3800 \DeclareTextSymbol\cyrc\LastDeclaredEncoding{"F6}%
3801 \DeclareTextSymbol\CYRCH\LastDeclaredEncoding{"D7}%
3802 \DeclareTextSymbol\cyrch\LastDeclaredEncoding{"F7}%
3803 \DeclareTextSymbol\CYRSH\LastDeclaredEncoding{"D8}%
3804 \DeclareTextSymbol\cyrsh\LastDeclaredEncoding{"F8}%
3805 \DeclareTextSymbol\CYRSHCH\LastDeclaredEncoding{"D9}%
3806 \DeclareTextSymbol\cyrshch\LastDeclaredEncoding{"F9}%
3807 \DeclareTextSymbol\CYRHRDSN\LastDeclaredEncoding{"DA}%
3808 \DeclareTextSymbol\cyhrdsn\LastDeclaredEncoding{"FA}%
3809 \DeclareTextSymbol\CYRERY\LastDeclaredEncoding{"DB}%
3810 \DeclareTextSymbol\cyrery\LastDeclaredEncoding{"FB}%
3811 \DeclareTextSymbol\CYRSFTSN\LastDeclaredEncoding{"DC}%
3812 \DeclareTextSymbol\cyrsftsn\LastDeclaredEncoding{"FC}%
3813 \DeclareTextSymbol\CYREREV\LastDeclaredEncoding{"DD}%
3814 \DeclareTextSymbol\cyrerev\LastDeclaredEncoding{"FD}%
3815 \DeclareTextSymbol\CYRYU\LastDeclaredEncoding{"DE}%
3816 \DeclareTextSymbol\cyryu\LastDeclaredEncoding{"FE}%
3817 \DeclareTextSymbol\CYRYA\LastDeclaredEncoding{"DF}%
3818 \DeclareTextSymbol\cyrya\LastDeclaredEncoding{"FF}%
3819 \DeclareTextSymbol\CYRYO\LastDeclaredEncoding{"9C}%
3820 \DeclareTextSymbol\cyryo\LastDeclaredEncoding{"BC}%
3821 \DeclareTextSymbol\CYRDZE\LastDeclaredEncoding{"8F}%
3822 \DeclareTextSymbol\cyrdze\LastDeclaredEncoding{"AF}%
3823 \DeclareTextSymbol\CYRYAT\LastDeclaredEncoding{"93}%
3824 \DeclareTextSymbol\cyryat\LastDeclaredEncoding{"B3}%
3825 \DeclareTextSymbol\CYRBYUS\LastDeclaredEncoding{"97}%
3826 \DeclareTextSymbol\cyrbyus\LastDeclaredEncoding{"B7}%
3827 \DeclareTextSymbol\CYRIZH\LastDeclaredEncoding{"8A}%
3828 \DeclareTextSymbol\cyrizh\LastDeclaredEncoding{"AA}%
3829 \DeclareTextSymbol\CYRIE\LastDeclaredEncoding{"99}%
3830 \DeclareTextSymbol\cyrie\LastDeclaredEncoding{"B9}%
3831 \DeclareTextSymbol\CYREPS\LastDeclaredEncoding{"9B}%
3832 \DeclareTextSymbol\cyreps\LastDeclaredEncoding{"BB}%
3833 \DeclareTextSymbol\CYRAZ\LastDeclaredEncoding{"80}%
3834 \DeclareTextSymbol\cyraz\LastDeclaredEncoding{"A0}%
3835 \DeclareTextSymbol\CYRIAZ\LastDeclaredEncoding{"81}%
3836 \DeclareTextSymbol\cyriaz\LastDeclaredEncoding{"A1}%
3837 \DeclareTextSymbol\CYRLYUS\LastDeclaredEncoding{"82}%
3838 \DeclareTextSymbol\cyrlyus\LastDeclaredEncoding{"A2}%

3839 \DeclareTextSymbol\CYRIOTLYUS\LastDeclaredEncoding{"83}%
3840 \DeclareTextSymbol\cyriotlyus\LastDeclaredEncoding{"A3}%
3841 \DeclareTextSymbol\CYRGERV\LastDeclaredEncoding{"84}%
3842 \DeclareTextSymbol\cyrgerv\LastDeclaredEncoding{"A4}%
3843 \DeclareTextSymbol\CYRZEMLA\LastDeclaredEncoding{"86}%
3844 \DeclareTextSymbol\cyrzemla\LastDeclaredEncoding{"A6}%
3845 \DeclareTextSymbol\CYRKSI\LastDeclaredEncoding{"87}%
3846 \DeclareTextSymbol\cyrksi\LastDeclaredEncoding{"A7}%
3847 \DeclareTextSymbol\CYRVARIZHE\LastDeclaredEncoding{"88}%
3848 \DeclareTextSymbol\cyrvarizhe\LastDeclaredEncoding{"A8}%
3849 \DeclareTextSymbol\CYRIZHE\LastDeclaredEncoding{"89}%
3850 \DeclareTextSymbol\cyrizhe\LastDeclaredEncoding{"A9}%
3851 \DeclareTextSymbol\CYROMGA\LastDeclaredEncoding{"8B}%
3852 \DeclareTextSymbol\cyromga\LastDeclaredEncoding{"AB}%
3853 \DeclareTextSymbol\CYROMRND\LastDeclaredEncoding{"8C}%
3854 \DeclareTextSymbol\cyromrnd\LastDeclaredEncoding{"AC}%
3855 \DeclareTextSymbol\CYROT\LastDeclaredEncoding{"8D}%
3856 \DeclareTextSymbol\cyrot\LastDeclaredEncoding{"AD}%
3857 \DeclareTextSymbol\CYROMTLO\LastDeclaredEncoding{"8E}%
3858 \DeclareTextSymbol\cyromtlo\LastDeclaredEncoding{"AE}%
3859 \DeclareTextSymbol\CYRFITA\LastDeclaredEncoding{"90}%
3860 \DeclareTextSymbol\cyrfita\LastDeclaredEncoding{"B0}%
3861 \DeclareTextSymbol\CYRKOPPA\LastDeclaredEncoding{"91}%
3862 \DeclareTextSymbol\cyrkoppa\LastDeclaredEncoding{"B1}%
3863 \DeclareTextSymbol\CYRUK\LastDeclaredEncoding{"92}%
3864 \DeclareTextSymbol\cyruk\LastDeclaredEncoding{"B2}%
3865 \DeclareTextSymbol\CYRCHERV\LastDeclaredEncoding{"94}%
3866 \DeclareTextSymbol\cyrcherv\LastDeclaredEncoding{"B4}%
3867 \DeclareTextSymbol\CYRPSI\LastDeclaredEncoding{"95}%
3868 \DeclareTextSymbol\cyrpsi\LastDeclaredEncoding{"B5}%
3869 \DeclareTextSymbol\CYRSHTA\LastDeclaredEncoding{"96}%
3870 \DeclareTextSymbol\cyrshta\LastDeclaredEncoding{"B6}%
3871 \DeclareTextSymbol\CYRIOTBYUS\LastDeclaredEncoding{"98}%
3872 \DeclareTextSymbol\cyriotbyus\LastDeclaredEncoding{"B8}%
3873 \DeclareTextSymbol\CYRIOTEST\LastDeclaredEncoding{"9A}%
3874 \DeclareTextSymbol\cyriotest\LastDeclaredEncoding{"BA}%
3875 \DeclareTextSymbol\CYRNARROWE\LastDeclaredEncoding{"9B}%
3876 \DeclareTextSymbol\cyrnarowe\LastDeclaredEncoding{"BB}%
3877 \DeclareTextAccent` \LastDeclaredEncoding{"00}%
3878 \DeclareTextAccent` \LastDeclaredEncoding{"01}%
3879 \DeclareTextAccent` \LastDeclaredEncoding{"02}%
3880 \DeclareTextAccent` \LastDeclaredEncoding{"03}%
3881 \DeclareTextAccent` \LastDeclaredEncoding{"04}%
3882 \DeclareTextAccent` \LastDeclaredEncoding{"05}%
3883 \DeclareTextAccent` \LastDeclaredEncoding{"06}%
3884 \DeclareTextAccent` \LastDeclaredEncoding{"07}%
3885 \DeclareTextAccent` \LastDeclaredEncoding{"08}%
3886 \DeclareTextAccent` \LastDeclaredEncoding{"09}%
3887 \DeclareTextAccent` \LastDeclaredEncoding{"0A}%
3888 \DeclareTextSymbol\cyrlangle\LastDeclaredEncoding{"OE}%
3889 \DeclareTextSymbol\cyrrangle\LastDeclaredEncoding{"OF}%
3890 \DeclareTextAccent\F\LastDeclaredEncoding{"12}%
3891 \DeclareTextAccent\C\LastDeclaredEncoding{"13}%
3892 \DeclareTextAccent\U\LastDeclaredEncoding{"14}%

```

3893 \DeclareTextSymbol\cyrdash\LastDeclaredEncoding{"16}%
3894 \DeclareTextSymbol\perthousand\LastDeclaredEncoding{"18}%
3895 \DeclareTextSymbol\i\LastDeclaredEncoding{"19}%
3896 \DeclareTextSymbol\j\LastDeclaredEncoding{"1A}%
3897 \DeclareTextSymbol\CYRNo\LastDeclaredEncoding{"9D}%
3898 \DeclareTextSymbol\textsection\LastDeclaredEncoding{"9F}%
3899 \DeclareTextSymbol\quotedblbase\LastDeclaredEncoding{"BD}%
3900 \DeclareTextSymbol\guillemotleft\LastDeclaredEncoding{"BE}%
3901 \DeclareTextSymbol\guillemotright\LastDeclaredEncoding{"BF}%
3902 \DeclareTextAccent\CYRtitlo\LastDeclaredEncoding{"0B}%
3903 \DeclareTextAccent\CYRpalatal\LastDeclaredEncoding{"0C}%
3904 \DeclareTextAccent\CYRpaerok\LastDeclaredEncoding{"0D}%
3905 \DeclareTextAccent\CYRkamora\LastDeclaredEncoding{"17}%
3906 \DeclareTextAccent\CYRpsili\LastDeclaredEncoding{"1B}%
3907 \DeclareTextAccent\CYRdasia\LastDeclaredEncoding{"1C}%
3908 \DeclareTextAccent\CYRzvat\LastDeclaredEncoding{"1D}%
3909 \DeclareTextAccent\CYRpneuac\LastDeclaredEncoding{"1E}%
3910 \DeclareTextAccent\CYRpneugrav\LastDeclaredEncoding{"1F}%
3911 \DeclareTextAccent\CYRthousands\LastDeclaredEncoding{"9E}%
3912 \DeclareTextSymbol\CYRNASH\LastDeclaredEncoding{"85}%
3913 \DeclareTextSymbol\cyrnash\LastDeclaredEncoding{"A5}%
3914 %
3915 </t2denc.def>

```

4.37 File t2dcmr.fd

```

3916 <*t2dcmr.fd>
3917 \ProvidesFile{t2dcmr.fd}
3918 [Experimental T2D cmr]
3919 \providecommand{\EC@family}[5]{%
3920 \DeclareFontShape{#1}{#2}{#3}{#4}%
3921 {<5><6><7><8><9><10><10.95><12><14.4>%
3922 <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
3923 \DeclareFontFamily{T2D}{cmr}{}
3924 \EC@family{T2D}{cmr}{m}{n}{ldrm}
3925 \EC@family{T2D}{cmr}{m}{sl}{lds1}
3926 \EC@family{T2D}{cmr}{m}{it}{ldti}
3927 \EC@family{T2D}{cmr}{m}{sc}{ldcc}
3928 \EC@family{T2D}{cmr}{bx}{n}{ldbx}
3929 \EC@family{T2D}{cmr}{b}{n}{ldrb}
3930 \EC@family{T2D}{cmr}{bx}{it}{ldbi}
3931 \EC@family{T2D}{cmr}{bx}{sl}{ldbl}
3932 \EC@family{T2D}{cmr}{bx}{sc}{ldxc}
3933 \EC@family{T2D}{cmr}{m}{ui}{ldui}
3934 %
3935 </t2dcmr.fd>

```

4.38 File tengwarDS.enc

```

3936 <*tengwarDS.enc>
3937 %
3938 %
3939 % nomapping(anna_sindarinwa,h) % (in Quenya-A)
3940 % nomapping(stl_vala,???)
3941 %

```

3942 % nomapping(double_acute)
3943 % nomapping(double_right_curl)
3944 % nomapping(double_left_curl)
3945 % nomapping(tilde)
3946
3947 %
3948
3949 %
3950 %
3951 % ligature tinco three_above (one E) is OK.
3952 %
3953 % ligature anna three_above (h E) is OK.
3954 % ligature anna acute (h R) is OK.
3955 % ligature anna amaticse (h T) is OK.
3956 % ligature anna right_curl (h Y) is OK.
3957 % ligature anna chevron (h Ugrave) is OK.
3958 % ligature anna nasalizer (h bracketleft) is OK.
3959
3960 % ligature quesse three_above (z E) is OK.
3961 % ligature quesse acute (z R) is OK.
3962 % ligature quesse amaticse (z T) is OK.
3963 % ligature quesse right_curl (z Y) is OK.
3964 % ligature quesse chevron (z Ugrave) is OK.
3965 % ligature quesse nasalizer (z bracketleft) is OK.
3966
3967 % ligature lambe three_above (j E) is OK.
3968 % ligature lambe acute (j R) is OK.
3969 % ligature lambe amaticse (j T) is OK.
3970 % ligature lambe right_curl (j Y) is OK.
3971 % ligature lambe chevron (j Ugrave) is OK.
3972 % ligature lambe nasalizer (j bracketleft) is OK.
3973
3974 % ligature malta three_above:
3975 % LIGKERN t E |=:> numbersign
3976 % ligature malta acute:
3977 % LIGKERN t R |=:> dollar
3978 % ligature malta amaticse:
3979 % LIGKERN t T |=:> percent
3980 % ligature malta right_curl:
3981 % LIGKERN t Y |=:> asciicircum
3982 % ligature malta chevron:
3983 % LIGKERN t Ugrave |=:> Oslash
3984 % ligature malta nasalizer:
3985 % LIGKERN t bracketleft |=:> braceleft
3986
3987 % ligature nuumen three_above:
3988 % LIGKERN five E |=:> numbersign
3989 % ligature nuumen acute:
3990 % LIGKERN five R |=:> dollar
3991 % ligature nuumen amaticse:
3992 % LIGKERN five T |=:> percent
3993 % ligature nuumen right_curl:
3994 % LIGKERN five Y |=:> asciicircum
3995 % ligature nuumen chevron:

3996 % LIGKERN five Ugrave |=:> Oslash
3997 % ligature nuumen nasalizer:
3998 % LIGKERN five bracketleft |=:> braceleft
3999
4000 % ligature parma three_above (q E) is OK.
4001 % ligature parma acute (q R) is OK.
4002 % ligature parma amaticse (q T) is OK.
4003 % ligature parma right_curl (q Y) is OK.
4004 % ligature parma chevron (q Ugrave) is OK.
4005 % ligature parma nasalizer (q bracketleft) is OK.
4006
4007 % ligature silme_nuquerna three_above (i E) is OK.
4008 % ligature silme_nuquerna acute (i R) is OK.
4009 % ligature silme_nuquerna amaticse (i T) is OK.
4010 % ligature silme_nuquerna right_curl (i Y) is OK.
4011 % ligature silme_nuquerna chevron (i Ugrave) is OK.
4012 % ligature silme_nuquerna nasalizer (i bracketleft) is OK.
4013
4014 % ligature tinco three_above (one E) is OK.
4015 % ligature tinco acute (one R) is OK.
4016 % ligature tinco amaticse (one T) is OK.
4017 % ligature tinco right_curl (one Y) is OK.
4018 % ligature tinco chevron (one Ugrave) is OK.
4019 % ligature tinco nasalizer (one bracketleft) is OK.
4020
4021 % ligature vala three_above (y E) is OK.
4022 % ligature vala acute (y R) is OK.
4023 % ligature vala amaticse (y T) is OK.
4024 % ligature vala right_curl (y Y) is OK.
4025 % ligature vala chevron (y Ugrave) is OK.
4026 % ligature vala nasalizer (y bracketleft) is OK.
4027
4028 % ligature short_carrier three_above:
4029 % LIGKERN grave E |=:> C
4030 % ligature short_carrier acute:
4031 % LIGKERN grave R |=:> V
4032 % ligature short_carrier amaticse:
4033 % LIGKERN grave T |=:> B
4034 % ligature short_carrier right_curl:
4035 % LIGKERN grave Y |=:> N
4036 % ligature short_carrier chevron:
4037 % LIGKERN grave Ugrave |=:> Ucircumflex
4038 % ligature short_carrier nasalizer (grave bracketleft) is OK.
4039
4040 % ligature three_above nasalizer:
4041 % LIGKERN numbersign bracketleft |=:> braceleft
4042 % ligature acute nasalizer:
4043 % LIGKERN dollar bracketleft |=:> braceleft
4044 % ligature amaticse nasalizer:
4045 % LIGKERN percent bracketleft |=:> braceleft
4046 % ligature right_curl nasalizer:
4047 % LIGKERN asciicircum bracketleft |=:> braceleft
4048 % ligature chevron nasalizer:
4049 % LIGKERN Oslash bracketleft |=:> braceleft

```

4050
4051 % ligature nasalizer three_above:
4052 % LIGKERN braceleft E |=:> numbersign
4053 % ligature nasalizer acute:
4054 % LIGKERN braceleft R |=:> dollar
4055 % ligature nasalizer amaticse:
4056 % LIGKERN braceleft T |=:> percent
4057 % ligature nasalizer right_curl:
4058 % LIGKERN braceleft Y |=:> asciicircum
4059 % ligature nasalizer chevron:
4060 % LIGKERN braceleft Ugrave |=:> Oslash
4061 %
4062 %
4063 %
4064 /TengwarEncoding [
4065
4066 % 0x00
4067 /one /q /a /z
4068 /two /w /s /x
4069 /three /e /d /c
4070 /four /r /f /v
4071 % 0x10
4072 /five /t /g /b
4073 /six /y /h /n
4074 /seven /eight /j /m
4075 /eight /i /k /comma
4076 % 0x20
4077 /nine /o /l /period
4078 /onehalf /grave /asciitilde /.c0x7f
4079 /exclam /Q /A /Z
4080 /at /W /S /X
4081 % 0x30
4082 /.c240 /.c0x7f /bracketright /.c241
4083 /space /space /space /space % 4567
4084 /space /space /space /space % 89AB
4085 /space /space /space /space % CDEF
4086 % 0x40
4087 /E /.c209 /.c213 /.c205
4088 /T /.c201 /R /.c0x7f
4089 /Y /.c0x7f /.c225 /.c0x7f
4090 /bracketleft /quotesingle /.c0x7f /.c0x7f
4091 % 0x50
4092 /equal /hyphen /.c193 /.c192
4093 /backslash /.c194 /.c0x7f /.c0x7f
4094 /.c0x7f /space /.c0x7f /space
4095 /.c0x7f /.c0x7f /space /space
4096 % 0x60
4097 /space /space /.c242 /.c243
4098 /.c244 /.c245 /.c246 /.c247
4099 /.c248 /.c249 /.c250 /.c251
4100 /.c0x7f /.c0x7f /.c0x7f /space
4101 % 0x70
4102 /space /space /space /space % 0123
4103 /space /space /space /space % 4567

```

```

4104 /space /space /space /space % 89AB
4105 /space /space /space /space
4106
4107 % 0x80
4108 /numbersign /D /C /Oslash % 0123
4109 /Uacute /Ucircumflex /dollar /F % 4567
4110 /V /percent /G /B % 89AB
4111 /asciicircum /H /N /braceleft % CDEF
4112 % 0x90
4113 /quotedbl /question /.c212 /.c214 % 0123
4114 /.c215 /.c204 /.c206 /.c207 % 4567
4115 /.c208 /.c210 /.c211 /.c200 % 89AB
4116 /.c202 /.c203 /.c224 /.c226 % CDEF
4117 % 0xA0
4118 /.c227 /.notdef /.notdef /.notdef % 0123
4119 /.notdef /.notdef /.notdef /.notdef % 4567
4120 /.notdef /.notdef /.notdef /.notdef % 89AB
4121 /.notdef /.notdef /.notdef /.notdef % CDEF
4122 % 0xB0
4123 /.notdef /.notdef /.notdef /.notdef % 0123
4124 /.notdef /.notdef /.notdef /.notdef % 4567
4125 /.notdef /.notdef /.notdef /.notdef % 89AB
4126 /.notdef /.notdef /.notdef /.notdef % CDEF
4127 % 0xC0
4128 /.notdef /.notdef /.notdef /.notdef % 0123
4129 /.notdef /.notdef /.notdef /.notdef % 4567
4130 /.notdef /.notdef /.notdef /.notdef % 89AB
4131 /.notdef /.notdef /.notdef /.notdef % CDEF
4132 % 0xD0
4133 /.notdef /.notdef /.notdef /.notdef % 0123
4134 /.notdef /.notdef /.notdef /.notdef % 4567
4135 /.notdef /.notdef /.notdef /.notdef % 89AB
4136 /.notdef /.notdef /.notdef /.notdef % CDEF
4137 % 0xE0
4138 /.notdef /.notdef /.notdef /.notdef % 0123
4139 /.notdef /.notdef /.notdef /.notdef % 4567
4140 /.notdef /.notdef /.notdef /.notdef % 89AB
4141 /.notdef /.notdef /.notdef /.notdef % CDEF
4142 % 0xF0
4143 /.notdef /.notdef /.notdef /.notdef % 0123
4144 /.notdef /.notdef /.notdef /.notdef % 4567
4145 /.notdef /.notdef /.notdef /.notdef % 89AB
4146 /.notdef /.notdef /.notdef /.notdef % CDEF
4147 ] def
4148
4149
4150 % eof
4151 %
4152 </tengwarDS.enc)

```

4.39 File cp1252.enc

```

4153 <*cp1252.enc)
4154 /CP1252Encoding [

```

```

4155 /.c0x0000 /.c0x0001 /.c0x0002 /.c0x0003 /.c0x0004 /.c0x0005 /.c0x0006
4156 /.c0x0007 /.c0x0008 /.c0x0009 /.c0x000A /.c0x000B /.c0x000C /.c0x000D
4157 /.c0x000E /.c0x000F /.c0x0010 /.c0x0011 /.c0x0012 /.c0x0013 /.c0x0014
4158 /.c0x0015 /.c0x0016 /.c0x0017 /.c0x0018 /.c0x0019 /.c0x001A /.c0x001B
4159 /.c0x001C /.c0x001D /.c0x001E /.c0x001F /.c0x0020 /.c0x0021 /.c0x0022
4160 /.c0x0023 /.c0x0024 /.c0x0025 /.c0x0026 /.c0x0027 /.c0x0028 /.c0x0029
4161 /.c0x002A /.c0x002B /.c0x002C /.c0x002D /.c0x002E /.c0x002F /.c0x0030
4162 /.c0x0031 /.c0x0032 /.c0x0033 /.c0x0034 /.c0x0035 /.c0x0036 /.c0x0037
4163 /.c0x0038 /.c0x0039 /.c0x003A /.c0x003B /.c0x003C /.c0x003D /.c0x003E
4164 /.c0x003F /.c0x0040 /.c0x0041 /.c0x0042 /.c0x0043 /.c0x0044 /.c0x0045
4165 /.c0x0046 /.c0x0047 /.c0x0048 /.c0x0049 /.c0x004A /.c0x004B /.c0x004C
4166 /.c0x004D /.c0x004E /.c0x004F /.c0x0050 /.c0x0051 /.c0x0052 /.c0x0053
4167 /.c0x0054 /.c0x0055 /.c0x0056 /.c0x0057 /.c0x0058 /.c0x0059 /.c0x005A
4168 /.c0x005B /.c0x005C /.c0x005D /.c0x005E /.c0x005F /.c0x0060 /.c0x0061
4169 /.c0x0062 /.c0x0063 /.c0x0064 /.c0x0065 /.c0x0066 /.c0x0067 /.c0x0068
4170 /.c0x0069 /.c0x006A /.c0x006B /.c0x006C /.c0x006D /.c0x006E /.c0x006F
4171 /.c0x0070 /.c0x0071 /.c0x0072 /.c0x0073 /.c0x0074 /.c0x0075 /.c0x0076
4172 /.c0x0077 /.c0x0078 /.c0x0079 /.c0x007A /.c0x007B /.c0x007C /.c0x007D
4173 /.c0x007E /.c0x007F /.c0x20AC /.notdef /.c0x201A /.c0x0192 /.c0x201E
4174 /.c0x2026 /.c0x2020 /.c0x2021 /.c0x02C6 /.c0x2030 /.c0x0160 /.c0x2039
4175 /.c0x0152 /.notdef /.c0x017D /.notdef /.notdef /.c0x2018 /.c0x2019
4176 /.c0x201C /.c0x201D /.c0x2022 /.c0x2013 /.c0x2014 /.c0x02DC /.c0x2122
4177 /.c0x0161 /.c0x203A /.c0x0153 /.notdef /.c0x017E /.c0x0178 /.c0x00A0
4178 /.c0x00A1 /.c0x00A2 /.c0x00A3 /.c0x00A4 /.c0x00A5 /.c0x00A6 /.c0x00A7
4179 /.c0x00A8 /.c0x00A9 /.c0x00AA /.c0x00AB /.c0x00AC /.c0x00AD /.c0x00AE
4180 /.c0x00AF /.c0x00B0 /.c0x00B1 /.c0x00B2 /.c0x00B3 /.c0x00B4 /.c0x00B5
4181 /.c0x00B6 /.c0x00B7 /.c0x00B8 /.c0x00B9 /.c0x00BA /.c0x00BB /.c0x00BC
4182 /.c0x00BD /.c0x00BE /.c0x00BF /.c0x00C0 /.c0x00C1 /.c0x00C2 /.c0x00C3
4183 /.c0x00C4 /.c0x00C5 /.c0x00C6 /.c0x00C7 /.c0x00C8 /.c0x00C9 /.c0x00CA
4184 /.c0x00CB /.c0x00CC /.c0x00CD /.c0x00CE /.c0x00CF /.c0x00D0 /.c0x00D1
4185 /.c0x00D2 /.c0x00D3 /.c0x00D4 /.c0x00D5 /.c0x00D6 /.c0x00D7 /.c0x00D8
4186 /.c0x00D9 /.c0x00DA /.c0x00DB /.c0x00DC /.c0x00DD /.c0x00DE /.c0x00DF
4187 /.c0x00E0 /.c0x00E1 /.c0x00E2 /.c0x00E3 /.c0x00E4 /.c0x00E5 /.c0x00E6
4188 /.c0x00E7 /.c0x00E8 /.c0x00E9 /.c0x00EA /.c0x00EB /.c0x00EC /.c0x00ED
4189 /.c0x00EE /.c0x00EF /.c0x00F0 /.c0x00F1 /.c0x00F2 /.c0x00F3 /.c0x00F4
4190 /.c0x00F5 /.c0x00F6 /.c0x00F7 /.c0x00F8 /.c0x00F9 /.c0x00FA /.c0x00FB
4191 /.c0x00FC /.c0x00FD /.c0x00FE /.c0x00FF
4192 ] def
4193
4194 % eof
4195 %
4196 </cp1252.enc)

```

4.40 File xsenc.def

```

4197 <*xsenc.def)
4198 % This file is a hack. When a manually created xsenc.def
4199 % appears (e.g. contributed with the LH fonts), this hack should be deleted.
4200 \NeedsTeXFormat{LaTeX2e}[1998/12/01]%
4201 \ProvidesFile{xsenc.def}[Experimental XS]%
4202 \DeclareFontEncoding{XS}{-}{-}%
4203 \DeclareFontSubstitution{\LastDeclaredEncoding}{cmr}{m}{n}%
4204 \DeclareTextSymbol\CYRII\LastDeclaredEncoding{"41}%
4205 \DeclareTextSymbol\cyrii\LastDeclaredEncoding{"61}%

```

4206 \DeclareTextSymbol\CYRJE\LastDeclaredEncoding{"42}%
4207 \DeclareTextSymbol\cyrje\LastDeclaredEncoding{"62}%
4208 \DeclareTextSymbol\CYRDZE\LastDeclaredEncoding{"43}%
4209 \DeclareTextSymbol\cyrdze\LastDeclaredEncoding{"63}%
4210 \DeclareTextSymbol\CYRYAT\LastDeclaredEncoding{"44}%
4211 \DeclareTextSymbol\cyryat\LastDeclaredEncoding{"64}%
4212 \DeclareTextSymbol\CYRBYUS\LastDeclaredEncoding{"45}%
4213 \DeclareTextSymbol\cyrbyus\LastDeclaredEncoding{"65}%
4214 \DeclareTextSymbol\CYRIZH\LastDeclaredEncoding{"46}%
4215 \DeclareTextSymbol\cyrizh\LastDeclaredEncoding{"66}%
4216 \DeclareTextSymbol\CYRYI\LastDeclaredEncoding{"47}%
4217 \DeclareTextSymbol\cyryi\LastDeclaredEncoding{"67}%
4218 \DeclareTextSymbol\CYRNG\LastDeclaredEncoding{"48}%
4219 \DeclareTextSymbol\cyrng\LastDeclaredEncoding{"68}%
4220 \DeclareTextSymbol\CYRIE\LastDeclaredEncoding{"49}%
4221 \DeclareTextSymbol\cyrie\LastDeclaredEncoding{"69}%
4222 \DeclareTextSymbol\CYRAZ\LastDeclaredEncoding{"4A}%
4223 \DeclareTextSymbol\cyraz\LastDeclaredEncoding{"6A}%
4224 \DeclareTextSymbol\CYRIAZ\LastDeclaredEncoding{"4B}%
4225 \DeclareTextSymbol\cyriaz\LastDeclaredEncoding{"6B}%
4226 \DeclareTextSymbol\CYRLYUS\LastDeclaredEncoding{"4C}%
4227 \DeclareTextSymbol\cyrljus\LastDeclaredEncoding{"6C}%
4228 \DeclareTextSymbol\CYRIOTLYUS\LastDeclaredEncoding{"4D}%
4229 \DeclareTextSymbol\cyriotlyus\LastDeclaredEncoding{"6D}%
4230 \DeclareTextSymbol\CYRGERV\LastDeclaredEncoding{"4E}%
4231 \DeclareTextSymbol\cyrgerv\LastDeclaredEncoding{"6E}%
4232 \DeclareTextSymbol\CYRZEMLA\LastDeclaredEncoding{"50}%
4233 \DeclareTextSymbol\cyrzemla\LastDeclaredEncoding{"70}%
4234 \DeclareTextSymbol\CYRKSI\LastDeclaredEncoding{"51}%
4235 \DeclareTextSymbol\cyrksi\LastDeclaredEncoding{"71}%
4236 \DeclareTextSymbol\CYRVARIZHE\LastDeclaredEncoding{"52}%
4237 \DeclareTextSymbol\cyrvarizhe\LastDeclaredEncoding{"72}%
4238 \DeclareTextSymbol\CYRIZHE\LastDeclaredEncoding{"53}%
4239 \DeclareTextSymbol\cyrizhe\LastDeclaredEncoding{"73}%
4240 \DeclareTextSymbol\CYROMGA\LastDeclaredEncoding{"54}%
4241 \DeclareTextSymbol\cyromga\LastDeclaredEncoding{"74}%
4242 \DeclareTextSymbol\CYROMRND\LastDeclaredEncoding{"55}%
4243 \DeclareTextSymbol\cyromrnd\LastDeclaredEncoding{"75}%
4244 \DeclareTextSymbol\CYROT\LastDeclaredEncoding{"56}%
4245 \DeclareTextSymbol\cyrot\LastDeclaredEncoding{"76}%
4246 \DeclareTextSymbol\CYROMTLO\LastDeclaredEncoding{"57}%
4247 \DeclareTextSymbol\cyromtlo\LastDeclaredEncoding{"77}%
4248 \DeclareTextSymbol\CYRFITA\LastDeclaredEncoding{"58}%
4249 \DeclareTextSymbol\cyrfita\LastDeclaredEncoding{"78}%
4250 \DeclareTextSymbol\CYRKOPPA\LastDeclaredEncoding{"59}%
4251 \DeclareTextSymbol\cyrkoppa\LastDeclaredEncoding{"79}%
4252 \DeclareTextSymbol\CYRUK\LastDeclaredEncoding{"5A}%
4253 \DeclareTextSymbol\cyruk\LastDeclaredEncoding{"7A}%
4254 \DeclareTextSymbol\CYRCHERV\LastDeclaredEncoding{"80}%
4255 \DeclareTextSymbol\cyrcherv\LastDeclaredEncoding{"A0}%
4256 \DeclareTextSymbol\CYRPSI\LastDeclaredEncoding{"81}%
4257 \DeclareTextSymbol\cyrpsi\LastDeclaredEncoding{"A1}%
4258 \DeclareTextSymbol\CYRSHTA\LastDeclaredEncoding{"82}%
4259 \DeclareTextSymbol\cyrshhta\LastDeclaredEncoding{"A2}%

4260 \DeclareTextSymbol\CYRIOTBYUS\LastDeclaredEncoding{"83}%
4261 \DeclareTextSymbol\cyriotbyus\LastDeclaredEncoding{"A3}%
4262 \DeclareTextSymbol\CYRIOTEST\LastDeclaredEncoding{"84}%
4263 \DeclareTextSymbol\cyriotest\LastDeclaredEncoding{"A4}%
4264 \DeclareTextSymbol\CYRNARROWE\LastDeclaredEncoding{"85}%
4265 \DeclareTextSymbol\cyrnarowe\LastDeclaredEncoding{"A5}%
4266 \DeclareTextSymbol\CYRZELO\LastDeclaredEncoding{"86}%
4267 \DeclareTextSymbol\cyrzelo\LastDeclaredEncoding{"A6}%
4268 \DeclareTextSymbol\CYRVARUK\LastDeclaredEncoding{"87}%
4269 \DeclareTextSymbol\cyrvaruk\LastDeclaredEncoding{"A7}%
4270 \DeclareTextSymbol\CYRVIA\LastDeclaredEncoding{"88}%
4271 \DeclareTextSymbol\cyrvia\LastDeclaredEncoding{"A8}%
4272 \DeclareTextSymbol\CYRVLYUS\LastDeclaredEncoding{"89}%
4273 \DeclareTextSymbol\cyrvlyus\LastDeclaredEncoding{"A9}%
4274 \DeclareTextSymbol\CYRIZHDGR\LastDeclaredEncoding{"8A}%
4275 \DeclareTextSymbol\cyrizhdgr\LastDeclaredEncoding{"AA}%
4276 \DeclareTextSymbol\CYRIZHUML\LastDeclaredEncoding{"8B}%
4277 \DeclareTextSymbol\cyrizhuml\LastDeclaredEncoding{"AB}%
4278 \DeclareTextSymbol\CYROLG\LastDeclaredEncoding{"8C}%
4279 \DeclareTextSymbol\cyrolg\LastDeclaredEncoding{"AC}%
4280 \DeclareTextSymbol\CYROERY\LastDeclaredEncoding{"8D}%
4281 \DeclareTextSymbol\cyroery\LastDeclaredEncoding{"AD}%
4282 \DeclareTextSymbol\CYROHSN\LastDeclaredEncoding{"8E}%
4283 \DeclareTextSymbol\cyrohsn\LastDeclaredEncoding{"AE}%
4284 \DeclareTextSymbol\CYROOCDOT\LastDeclaredEncoding{"8F}%
4285 \DeclareTextSymbol\cyroocdot\LastDeclaredEncoding{"AF}%
4286 \DeclareTextSymbol\CYROOCDOT\LastDeclaredEncoding{"90}%
4287 \DeclareTextSymbol\cyroocddot\LastDeclaredEncoding{"B0}%
4288 \DeclareTextSymbol\CYRVIZH\LastDeclaredEncoding{"91}%
4289 \DeclareTextSymbol\cyrvizh\LastDeclaredEncoding{"B1}%
4290 \DeclareTextSymbol\CYRPPETER\LastDeclaredEncoding{"92}%
4291 \DeclareTextSymbol\cyrppeter\LastDeclaredEncoding{"B2}%
4292 \DeclareTextSymbol\CYRTPETER\LastDeclaredEncoding{"93}%
4293 \DeclareTextSymbol\cyrtpeter\LastDeclaredEncoding{"B3}%
4294 \DeclareTextSymbol\CYRZELOM\LastDeclaredEncoding{"94}%
4295 \DeclareTextSymbol\cyrzelom\LastDeclaredEncoding{"B4}%
4296 \DeclareTextAccent\F\LastDeclaredEncoding{"00}%
4297 \DeclareTextAccent\C\LastDeclaredEncoding{"01}%
4298 \DeclareTextAccent\U\LastDeclaredEncoding{"02}%
4299 \DeclareTextSymbol\cyrdash\LastDeclaredEncoding{"16}%
4300 \DeclareTextAccent\CYRtitlo\LastDeclaredEncoding{"05}%
4301 \DeclareTextAccent\CYRpalatal\LastDeclaredEncoding{"06}%
4302 \DeclareTextAccent\CYRpaerok\LastDeclaredEncoding{"07}%
4303 \DeclareTextAccent\CYRkamora\LastDeclaredEncoding{"17}%
4304 \DeclareTextAccent\CYRpsili\LastDeclaredEncoding{"1B}%
4305 \DeclareTextAccent\CYRdasia\LastDeclaredEncoding{"1C}%
4306 \DeclareTextAccent\CYRzvat\LastDeclaredEncoding{"1D}%
4307 \DeclareTextAccent\CYRpneuac\LastDeclaredEncoding{"1E}%
4308 \DeclareTextAccent\CYRpneugrav\LastDeclaredEncoding{"1F}%
4309 \DeclareTextAccent\CYRthousands\LastDeclaredEncoding{"9E}%
4310 \DeclareTextAccent\CYRaccte\LastDeclaredEncoding{"08}%
4311 \DeclareTextAccent\CYRtma\LastDeclaredEncoding{"09}%
4312 \DeclareTextAccent\CYRlegion\LastDeclaredEncoding{"0A}%
4313 \DeclareTextAccent\CYRleodr\LastDeclaredEncoding{"0B}%

```

4314 \DeclareTextAccent\CYRvran\LastDeclaredEncoding{"0C}%
4315 \DeclareTextAccent\CYRkoloda\LastDeclaredEncoding{"0E}%
4316 \DeclareTextAccent\CYRtmatem\LastDeclaredEncoding{"0F}%
4317 \DeclareTextAccent\CYRvzvat\LastDeclaredEncoding{"10}%
4318 \DeclareTextAccent\CYRvdasia\LastDeclaredEncoding{"11}%
4319 \DeclareTextAccent\CYRvpsili\LastDeclaredEncoding{"12}%
4320 \DeclareTextAccent\CYRvpneuac\LastDeclaredEncoding{"13}%
4321 \DeclareTextAccent\CYRvpneugrav\LastDeclaredEncoding{"14}%
4322 \DeclareTextSymbol\CYRNASH\LastDeclaredEncoding{"4F}%
4323 \DeclareTextSymbol\cyrnash\LastDeclaredEncoding{"6F}%
4324 %
4325 </xsenc.def>

```

4.41 File xscmr.fd

```

4326 <*xscmr.fd>
4327 \ProvidesFile{xscmr.fd}
4328 [Experimental XS cmr]
4329 \providecommand{\EC@family}[5]{%
4330 \DeclareFontShape{#1}{#2}{#3}{#4}%
4331 {<5><6><7><8><9><10><10.95><12><14.4>%
4332 <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
4333 \DeclareFontFamily{XS}{cmr}{}
4334 \EC@family{XS}{cmr}{m}{n}{rsrm}
4335 \EC@family{XS}{cmr}{m}{sl}{rssl}
4336 \EC@family{XS}{cmr}{m}{it}{rsti}
4337 \EC@family{XS}{cmr}{m}{sc}{rscc}
4338 \EC@family{XS}{cmr}{bx}{n}{rsbx}
4339 \EC@family{XS}{cmr}{b}{n}{rsrb}
4340 \EC@family{XS}{cmr}{bx}{it}{rsbi}
4341 \EC@family{XS}{cmr}{bx}{sl}{rsbl}
4342 \EC@family{XS}{cmr}{bx}{sc}{rsxc}
4343 \EC@family{XS}{cmr}{m}{ui}{rsui}
4344 %
4345 </xscmr.fd>

```

4.42 File ucshyper.sty

```

4346 <*ucshyper.sty>
4347 \ProvidesPackage{ucshyper}[2002/03/05
4348 UCS: Unicode in Hyperref's PDF bookmarks]%
4349 \ifx\pdfoutput\undefined
4350 \PackageWarning{ucshyper}{ucshyper needs to be run with
4351 pdflatex.\MessageBreak Disabling functionality}%
4352 \expandafter\endinput\fi
4353 \RequirePackage[pdftex,unicode]{hyperref}
4354 %
4355 \newif\ifucshyper@prerender\ucshyper@prerendertrue
4356 \newif\ifucshyper@direct\ucshyper@directtrue
4357 \DeclareOption{nodirect}{\ucshyper@directfalse}%
4358 \DeclareOption{direct}{\ucshyper@directtrue}%
4359 \DeclareOption{noprerender}{\ucshyper@prerenderfalse}%
4360 \DeclareOption{prerender}{\ucshyper@prerendertrue}%
4361 \ProcessOptions*%
4362 %

```

```

4363 \newcommand\UCSPU@tmp{}%
4364 \newcommand\UCSPU[1]{%
4365   \begingroup\let\UCSPU@tmp\relax\relax\ifx\UCSPU@tmp\relax
4366     \ifx\utf@viii@map\undefined\else
4367       \expandafter\utf@viii@map\expandafter{\number#1}\fi
4368     \ifnum#1>"FFFF
4369       \PackageError{ucshy}{UCSPU does not support codes greater than
4370         \number"FFFF}\fi
4371     \@tempcntb#1\divide\@tempcntb by'40000
4372     \edef\uc@temp@a{\@backslashchar\number\@tempcntb}%
4373     \multiply\@tempcntb by'40000 \@tempcnta#1\advance\@tempcnta by-\@tempcntb
4374     \@tempcntb\@tempcnta\divide\@tempcntb by'4000
4375     \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4376     \multiply\@tempcntb by'4000\advance\@tempcnta by-\@tempcntb
4377     \@tempcntb\@tempcnta\divide\@tempcntb by'400
4378     \edef\uc@temp@a{\uc@temp@a\number\@tempcntb\@backslashchar}%
4379     \multiply\@tempcntb by'400\advance\@tempcnta by-\@tempcntb
4380     \@tempcntb\@tempcnta\divide\@tempcntb by'100
4381     \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4382     \multiply\@tempcntb by'100\advance\@tempcnta by-\@tempcntb
4383     \@tempcntb\@tempcnta\divide\@tempcntb by'10
4384     \edef\uc@temp@a{\uc@temp@a\number\@tempcntb}%
4385     \multiply\@tempcntb by'10\advance\@tempcnta by-\@tempcntb
4386     \@tempcntb\@tempcnta
4387     \expandafter\xdef\csname UCS2PU\number#1\endcsname{%
4388       \uc@temp@a\number\@tempcntb}%
4389 % \typeout{UCS2PU: \number#1 -> \uc@temp@a\number\@tempcntb}%
4390 \fi\endgroup
4391 }
4392 \newcommand\ucspu@err[1]{%
4393   \csname[*** Insert \string\UCSPU{\number#1}
4394   into preamble ***]\endcsname}
4395 \@ifundefined{pdfstringdefPreHook}{\let\pdfstringdefPreHook\@empty}{%
4396 \g@addto@macro\pdfstringdefPreHook{%
4397   \ifucshyper@direct
4398     \let\old@unicar\unicar
4399     \def\unicar#1{%
4400       \expandafter\ifx\csname UCS2PU\number#1\endcsname\relax
4401         \ucspu@err{#1}\old@unicar{#1}\else
4402         \csname UCS2PU\number#1\endcsname\fi
4403       }%
4404     \fi
4405     \let\selectfont\empty
4406     \let\fontencoding\@gobble
4407     \let\selectlanguage\@gobble
4408     \let\foreignlanguage\@gobble
4409   }
4410 \let\ucshyper@old@pdfstringdef\pdfstringdef
4411 \def\pdfstringdef#1#2{%
4412   \ifucshyper@prerender
4413     \begingroup
4414       \let\old@unicar\unicar
4415       \let\uc@output\@gobbletwo
4416       \fontencoding{PU}\enc@update

```



```

4417     \def\unicar##1{\old@unicar{##1}\UCSPU{##1}}%
4418     \edef\0{\string\0}%
4419     \edef\1{\string\1}%
4420     \edef\2{\string\2}%
4421     \edef\3{\string\3}%
4422     \edef\8{\string\8}%
4423     \edef\9{\string\9}%
4424     \Hy@pdfstringtrue
4425     \PrerenderUnicode{#2}%
4426   \endgroup
4427   \fi
4428   \ucshyper@old@pdfstringdef{#1}{#2}}
4429 \newcommand\UCSPUrange[2]{%
4430   \count255=#1\relax
4431   \loop\ifnum\count255>#2\relax\else
4432     \UCSPU{\count255}%
4433     \advance\count255 by1\relax
4434   \repeat}
4435 \@onlypreamble\UCSPUrange
4436 %
4437 </ucshyper.sty>

```

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\"	712, 1146, 1151, 1242, 1413, 1417, 1434, 1438, 1986, 2858, 2990, 3609, 3611, 3881	\@eha 621, 623, 625, 627, 629, 631
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Change History

v1.99		<code>\show from ucsencs.def</code>	48
General: Last version by		Switched from <code>\mathbbm</code> to	
Dominique Unruh	1	<code>\mathbb</code> for double-struck	
v2.0		characters	1
General: Added <code>mathletters</code>		Switched to LPPL 1.3	1
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<code>\letter</code> in order to conform to		General: Fixed a bug related to	
the Unicode standard	1	the optional definition of	
Created makefile	1	<code>\@ifnextchar</code> (see http://tinyurl.com/dxncfn9)	1
Removed the redefinition of			