

venturisadf: Implementation

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Abstract

This file contains the implementation of venturisadf with a smidgen of commentary. For user documentation, usage examples and changes, see `venturisadf.pdf`. You do not need to read the implementation or the documents referenced therein in order to install or use the fonts.

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*Bug tracker: codeberg.org/cfr/nfssexst/issues | Code: codeberg.org/cfr/nfssexst | Mirror: github.com/cfr42/nfssexst

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1 Introduction

This file (sparsely) documents code for the

- packages’;
- demonstration files;
- various file used to generate the T_EX fonts used by the packages.

Note that creating the font files, as opposed to just the package and documentation files, *requires* l3build and a set of custom lua scripts available on codeberg. More specifically, if you want to build the font definition files (.fd) yourself, you *must* use l3build fnttarg and this requires files available from the code repository, but not included in this package¹.

The reason for this is that fontinst provides no way² to enable variable scaling. While it is entirely possible to scale a font by any factor you please, it is not, as far as I can tell, possible to enable scaling by any factor a user later pleases. In particular, while it is possible to define shapes and families to use a variable factor, it is not possible to write a definition of that factor into the font definition file, which is the way variable scaling is usually configured.

In order to enable this functionality, lua is used to inject the relevant code into the .fd files after fontinst has generated them. If you simply process the relevant T_EX files by hand, you will create broken definition files, since the code produced by fontinst assumes the relevant lines have been injected.

¹They are not included because I understand that CTAN does not want development files such as Lua build scripts. If this is a problem — especially, but not only, if you repackage T_EX Live (or are Karl Berry) — please raise the issue on the bugtracker. If necessary, I can probably customise fontinst to do the same job, but it wasn’t immediately obvious quite how to do that, so I used Lua instead.

²Or no way I’ve yet discovered.

1.1 Packages

Three L^AT_EX packages:

- `venturis.sty`
- `venturis2.sty`
- `venturisold.sty`

The remaining files are not used directly, but are required to generate the files which allow T_EX and L^AT_EX to use the fonts. The sources use `fontinst` as explained in the (sparse) comments. While you can install these files into a T_EX tree, they are not required for typesetting.

1.2 Driver

These files do all the initial setup of the fonts. They organise the fonts into families, define shapes and reencode as required.

- `yvt-drv.tex`
- `yv1-drv.tex`
- `yv2-drv.tex`
- `yv3-drv.tex`
- `yvo-drv.tex`

1.3 Maps

These files are compiled to produce the map file fragments `updmap` needs to install the fonts. They use files recorded during compilation of the drivers.

- `yvt-map.tex`
- `yv1-map.tex`
- `yv2-map.tex`
- `yv3-map.tex`
- `yvo-map.tex`

1.4 Encodings (output)

These files define variant T1 and TS1 font encodings. Where required, the corresponding `.enc` is also included in the package.

- `t1-venturis.etx`
- `t1j-venturis.etx`
- `t1-venturisold.etx`
- `t1-venturisold-longs.etx`

In addition to these encodings, we use encoding files supplied by `fontinst` and some custom files not included in this package's `dtx` as they are not specific to MODULE-TC. They are, however, part of the package:

- `lining.etx`
- `oldstyle.etx`
- `t1-dotalt-f_f.etx` (and `t1-dotalt-f_f.enc`)
- `t1-f_f.etx` (and `t1-f_f.enc`)
- `t1j-f_f.etx`
- `ts1-euro.etx` (and `ts1-euro.enc`)
- `ucdotalt.etx`

The `etx` files are not used directly by \LaTeX or \TeX . Where needed, they are processed to produce `enc` files. In some cases, however, they are not themselves standalone encodings. Instead, they change how some other encoding is interpreted.

1.5 MTX

`mtx` files are used to build 'fake' glyphs where these are missing from the original fonts. We do not fake small-caps or bold, but only glyphs which can be constructed without altering the original design.

- `resetalt.mtx`

In addition to this file, we use `mtx` files supplied by `fontinst`.

venturisadf: venturis

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Abstract

This file is part of venturisadf. venturisadf.pdf constitutes the main documentation for the package.

2 Example

```
1
2 \documentclass[12pt]{article}
3 \title{\textvt{Venturis Example}}
4 \author{\swashstyle\altstyle\scshape Querulously quacked by Rapunzel, Rumpelstiltskin \& Xenop
5
6 \providecommand{\zeroslash}{}
7 \providecommand{\textsi}[1]{}
8 \newcommand{\alphaline}{ABCDEFGHIJKLMNOPQRSTUVWXYZ\abcdefghijklmnopqrstuvwxyz\0123456789\
9 f{}f ff f{}i fi f{}l fl f{}f{}i ffi f{}f{}l ffl \& \texteuro \texttrademark \textcopyright \
10 sphinx of black quartz, judge my vow}\textcelsius \textnumero \textservicemark}
11 \newcommand{\abc}{ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz}
12 \newcommand{\digits}{0123456789}
13 \newcommand{\alphatest}{%
14   \begin{flushleft}
15     \textup{upright:\\\alphaline}\\[\smallskipamount]
16     \textsc{small-caps:\\\alphaline}\\[\smallskipamount]
17     \textit{italics:\\\alphaline}\\[\smallskipamount]
18     \textsc{\itshape italic small-caps:\\\alphaline}\\[\smallskipamount]
19     % \textsi{} is deprecated on newer kernels.
20     \textsi{italic small-caps:\\\alphaline}\\
21   \end{flushleft}%
22 }
23
24 % alternates list: uc: K Q R X Z; sc: k q r x z germandbls
25 % swash endings: a n d o u h r e z l t g m
26
```

*Bug tracker: codeberg.org/cfr/nfssex/issues | Code: codeberg.org/cfr/nfssex | Mirror: github.com/cfr42/nfssex

```
27 \pdfmapfile{-yvt.map}
28 \pdfmapfile{+yvt.map}
29 \usepackage{venturis}
30 \usepackage{xcolor}
31
32 \begin{document}
33 \maketitle
34 \setlength{\parindent}{0pt}
35
36 \section*{family: yvtj}
37
38 This is a serif family with oldstyle figures and optical upright and italic small-caps.
39
40 \subsection*{Regular weight, regular width}
41
42 \alphatest
43
44 \subsection*{Bold weight, regular width (no extended available)}
45
46 \textbf{\alphatest}
47
48 \subsection*{Regular weight, condensed width}
49
50 \cdwidth
51 \alphatest
52 \regwidth
53
54 \subsection*{Bold weight, condensed width}
55
56 \cdwidth
57 \textbf{\alphatest}
58 \regwidth
59
60 \section*{family: yvtjw}
61
62 {\swashstyle
63   This is essentially the same family with the addition of swashes.
64   \medskip
65
66   \alphatest
67
68   \textbf{\alphatest}
69
70   \cdwidth\alphatest
71
72   \textbf{\alphatest}%
73 }
74
75 \section*{family: yvtajw}
```

```
76
77 {\swashstyle\altstyle
78 This is just like yvtjw except that the upright shape in regular weight features end-of-word
79 \medskip
80
81 \alphatest
82
83 academia doddered essence goggling hashish loll momentum nationalisation ontological indigo
84 \medskip
85
86 \textbf{\alphatest}
87
88 \cdwidth\alphatest
89
90 \textbf{\alphatest}%
91 }
92
93 \lstyle
94
95 \section*{family: yvt}
96
97 This is essentially the same family as yvtj but with lining figures. Additional weights are a
98
99 \subsection*{Regular weight, regular width}
100
101 \alphatest
102
103 \subsection*{Bold weight, regular width (no extended available)}
104
105 \textbf{\alphatest}
106
107 \subsection*{Heavy weight, regular width}
108
109 \texteb{\alphatest}
110
111 \subsection*{Regular and bold weights, condensed}
112
113 {\cdwidth
114 \alphatest
115
116 \textbf{\cdwidth \alphatest}%
117 }
118
119 \section*{family: yvtw}
120
121 {\swashstyle
122 This is essentially the same family with the addition of swashes.
123 \medskip
124
```



```

125 \alphatest
126
127 \textbf{\alphatest}
128
129 \cdwidth\alphatest
130
131 \textbf{\alphatest}%
132 }
133
134 \section*{family: yvtaw}
135
136 {\swashstyle\altstyle
137 This is just like yvtw except that the upright shape in regular weight features end-of-word
138 \medskip
139
140 \alphatest
141
142 academia doddered essence goggling hashish lolll momentum nationalisation ontological indigo
143 \medskip
144
145 \textbf{\alphatest}
146
147 \cdwidth\alphatest
148
149 \textbf{\alphatest}%
150 }
151
152 \section*{family:yvtd}
153
154 \textvt{\alphaline}
155 \smallskip
156
157 \textvtl{\alphaline}
158
159 \end{document}

```

3 Implementation

3.1 venturis.sty

venturis (*pkg*) This package uses font groups *venturis* and *venturissans*.

```

160 \NeedsTeXFormat{LaTeX2e}
161 \RequirePackage{svn-prov}
162 \ProvidesPackageSVN[\filebase.sty]{\Id: venturis.dtx 10366 2024-09-18 14:25:21Z cfrees $}[v2.
163 \DefineFileInfoSVN[venturis]
164 \RequirePackage[T1]{fontenc}
165 \RequirePackage{nfssexp-cfr}[2024/01/01]

```

nfssect-cfr provides `\ProcessKeyOptions`, `\IfFormatAtLeastTF` on older kernels.

```
166 \IfFormatAtLeastTF {2020-02-02}{%
```

To get the oldstyle numbers etc. used from TSI, we need to set the subset to 0 or 1. Unfortunately, this means characters missing from the fonts will not use default symbols as fallback, but this seems to be unavoidable.

```
167 \DeclareEncodingSubset{TS1}{yvt}{1}%
168 \DeclareEncodingSubset{TS1}{yvtj}{1}%
169 \DeclareEncodingSubset{TS1}{yvtw}{1}%
170 \DeclareEncodingSubset{TS1}{yvtaw}{1}%
171 \DeclareEncodingSubset{TS1}{yvtjw}{1}%
172 \DeclareEncodingSubset{TS1}{yvtajw}{1}%
173 \DeclareEncodingSubset{TS1}{yvtd}{1}%
174 \DeclareEncodingSubset{TS1}{yv1}{1}%
175 \DeclareEncodingSubset{TS1}{yv1d}{1}%
176 }{%
177 \RequirePackage{textcomp}}
178 \UndeclareTextCommand{\textperthousand}{T1}
179 \ExplSyntaxOn
```

The actual `sty` is ultra simple. Five options of which only three are actually needed. `osf/lf` set lining or oldstyle figures. `scale rm` and `scale sf` take factors by which to scale the fonts. These are empty by default, which is equivalent to 1, but more efficient. `scale` is a convenience wrapper which sets both `scale rm` and `scale sf` by a common factor.

```
180 \keys_define:n { venturis }
181 {
```

`lf (opt)` boolkeys for roman osf/lf

`osf (opt)`

```
enturis_osf_bool 182 lf .bool_set_inverse:N = \l__venturis_osf_bool,
183 lf .default:n = true,
184 osf .bool_set:N = \l__venturis_osf_bool,
185 osf .default:n = true,
186 osf .initial:n = true,
```

`scale (opt)` Options for scaling rm/sf or both

`scale rm (opt)`

`scale sf (opt)`

`\yvt@scale`

`\yvi@scale`

```
187 scale rm .tl_set:N = \yvt@scale,
188 scale rm .initial:V = \@empty,
189 scale sf .tl_set:N = \yvi@scale,
190 scale sf .initial:V = \@empty,
191 scale .code:n = {
192 \gdef\yvt@scale{#1}
193 \gdef\yvi@scale{#1}
194 },
```

```
195 }
```

```
196 \ProcessKeyOptions[venturis]
```

make Venturis default for roman text, implementing the relevant option

```
197 \bool_if:NTF \l__venturis_osf_bool
198 {
199   \cs_set:Npn \rmdefault { yvtj }
200 }{
201   \cs_set:Npn \rmdefault { yvt }
202 }
203 \ExplSyntaxOff
```

make Venturis Sans default for sans-serif text

```
204 \renewcommand{\sfdefault}{yv1}
```

`\vtstyle` introduce special titling commands

```
205 \DeclareRobustCommand{\vtstyle}[1][\relax]{%
206   \edef\vt@shape{#1}%
207   \def\tempo{ol}%
208   \def\temps{yv1}%
209   \def\tempr{yvt}%
210   \not@math@alphabet\vtstyle\relax
```

because the titling fonts have limited availability, don't use the `\tistyle` set-up, but choose the family explicitly in case we're currently using sans or typewriter note, though, that some are also called as small-caps commands in certain sans-serif variants (though the seriffed variant seems not to match anything...)

```
211 \ifx\vt@shape\tempo
212   \fontfamily{yvtd}\fontshape{ol}\selectfont
213 \else
214   \edef\tempf{\expandafter\exfs@get@base\f@family\@nil}%
215   \ifx\tempf\temps
216     \fontfamily{yv1d}\selectfont
217   \else
218     \ifx\tempf\tempr
219       \fontfamily{yvtd}\selectfont
220     \else
221       \PackageWarning{venturis.sty}{%
222         \tempf is unknown.
223         This command requires that yv1 or yvt be active in order to determine whether serif
224         I am going to guess that you want serif titling. If this is wrong, be sure to activate
225       }%
226     \fontfamily{yvtd}\selectfont
227   \fi
228 \fi
229 \fi
230 }
```

```

\textvt Text font commands
\textvtl
231 \DeclareTextFontCommand{\textvt}{\vtstyle}
232 \DeclareTextFontCommand{\textvtl}{\vtstyle[ol]}

233 %% end venturis.sty

```

The remaining files are not used directly, but are required to generate the files which allow T_EX and L^AT_EX to use the fonts. The sources use fontinst as explained in the (sparse) comments. While you can install these files into a T_EX tree, they are not required for typesetting.

3.2 Driver

The file does all the initial setup of the fonts. It organises the fonts into families, defines shapes and reencodes as required.

```

234 \input fontinst.sty
235 \needsfontinstversion{1.926}

```

Substitutions Bold for bold extended

```

236 \substitutesilent{bx}{b}
237 \substitutesilent{scit}{sc}
238 \substitutesilent{sctl}{scit}
239 \substitutesilent{si}{sctl}
240 \substitutesilent{sl}{it}
241 \substitutesilent{sc}{n}

```

Record transformations for later map file creation

```

242 \recordtransforms{yvt-rec.tex}

```

Allow fonts to be scaled via variable in fd files Also requires fontinst.lua fnttarg as no means to define variable in fontinst

```

243 \declaresize{}{<-> \string\yvt@@scale}

```

Transformations : reencode fonts

```

244 \transformfont{t1-yvtr}{\reencodefont{t1-f_f}{\fromafm{yvtr8a}}}
245 \transformfont{ts1-yvtr}{\reencodefont{ts1-euro}{\fromafm{yvtr8a}}}
246 \transformfont{vent-yvtr}{\reencodefont{t1-venturis}{\fromafm{yvtr8a}}}
247 \transformfont{t1-yvtri}{\reencodefont{t1-f_f}{\fromafm{yvtri8a}}}
248 \transformfont{t1-yvtb}{\reencodefont{t1-f_f}{\fromafm{yvtb8a}}}
249 \transformfont{t1-yvtbi}{\reencodefont{t1-f_f}{\fromafm{yvtbi8a}}}
250 \transformfont{ts1-yvtri}{\reencodefont{ts1-euro}{\fromafm{yvtri8a}}}
251 \transformfont{ts1-yvtb}{\reencodefont{ts1-euro}{\fromafm{yvtb8a}}}
252 \transformfont{ts1-yvtbi}{\reencodefont{ts1-euro}{\fromafm{yvtbi8a}}}
253 \transformfont{t1-yvtrc}{\reencodefont{t1-f_f}{\fromafm{yvtrc8a}}}

```

```

254 \transformfont{t1-yvtrci}{\reencodefont{t1-f_f}{\fromafm{yvtrci8a}}}
255 \transformfont{t1-yvtbc}{\reencodefont{t1-f_f}{\fromafm{yvtbc8a}}}
256 \transformfont{t1-yvtbci}{\reencodefont{t1-f_f}{\fromafm{yvtbci8a}}}
257 \transformfont{t1alt-yvtrc}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtrc8a}}}
258 \transformfont{t1alt-yvtrci}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtrci8a}}}
259 \transformfont{t1alt-yvtbc}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtbc8a}}}
260 \transformfont{t1alt-yvtbci}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtbci8a}}}
261 \transformfont{ts1-yvtrc}{\reencodefont{ts1-euro}{\fromafm{yvtrc8a}}}
262 \transformfont{ts1-yvtrci}{\reencodefont{ts1-euro}{\fromafm{yvtrci8a}}}
263 \transformfont{ts1-yvtbc}{\reencodefont{ts1-euro}{\fromafm{yvtbc8a}}}
264 \transformfont{ts1-yvtbci}{\reencodefont{ts1-euro}{\fromafm{yvtbci8a}}}

```

Transformations : reencode heavy weights

```

265 \transformfont{t1-yvth}{\reencodefont{t1-f_f}{\fromafm{yvth8a}}}
266 \transformfont{t1-yvthi}{\reencodefont{t1-f_f}{\fromafm{yvthi8a}}}
267 \transformfont{ts1-yvth}{\reencodefont{ts1-euro}{\fromafm{yvth8a}}}
268 \transformfont{ts1-yvthi}{\reencodefont{ts1-euro}{\fromafm{yvthi8a}}}

```

Transformations : reencode condensed widths

```

269 \transformfont{t1-yvtr-c}{\reencodefont{t1-f_f}{\fromafm{yvtr8ac}}}
270 \transformfont{t1-yvtri-c}{\reencodefont{t1-f_f}{\fromafm{yvtri8ac}}}
271 \transformfont{t1-yvtb-c}{\reencodefont{t1-f_f}{\fromafm{yvtb8ac}}}
272 \transformfont{t1-yvtbi-c}{\reencodefont{t1-f_f}{\fromafm{yvtbi8ac}}}
273 \transformfont{ts1-yvtr-c}{\reencodefont{ts1-euro}{\fromafm{yvtr8ac}}}
274 \transformfont{ts1-yvtri-c}{\reencodefont{ts1-euro}{\fromafm{yvtri8ac}}}
275 \transformfont{ts1-yvtb-c}{\reencodefont{ts1-euro}{\fromafm{yvtb8ac}}}
276 \transformfont{ts1-yvtbi-c}{\reencodefont{ts1-euro}{\fromafm{yvtbi8ac}}}
277 \transformfont{t1-yvtrc-c}{\reencodefont{t1-f_f}{\fromafm{yvtrc8ac}}}
278 \transformfont{t1-yvtrci-c}{\reencodefont{t1-f_f}{\fromafm{yvtrci8ac}}}
279 \transformfont{t1-yvtbc-c}{\reencodefont{t1-f_f}{\fromafm{yvtbc8ac}}}
280 \transformfont{t1-yvtbci-c}{\reencodefont{t1-f_f}{\fromafm{yvtbci8ac}}}
281 \transformfont{t1alt-yvtrc-c}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtrc8ac}}}
282 \transformfont{t1alt-yvtrci-c}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtrci8ac}}}
283 \transformfont{t1alt-yvtbc-c}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtbc8ac}}}
284 \transformfont{t1alt-yvtbci-c}{\reencodefont{t1-dotalt-f_f}{\fromafm{yvtbci8ac}}}
285 \transformfont{ts1-yvtrc-c}{\reencodefont{ts1-euro}{\fromafm{yvtrc8ac}}}
286 \transformfont{ts1-yvtrci-c}{\reencodefont{ts1-euro}{\fromafm{yvtrci8ac}}}
287 \transformfont{ts1-yvtbc-c}{\reencodefont{ts1-euro}{\fromafm{yvtbc8ac}}}
288 \transformfont{ts1-yvtbci-c}{\reencodefont{ts1-euro}{\fromafm{yvtbci8ac}}}

```

Transformations : reencode titling fonts

```

289 \transformfont{t1-yvtbd-c}{\reencodefont{t1-f_f}{\fromafm{yvtbd8ac}}}
290 \transformfont{t1-yvtrdl}{\reencodefont{t1-f_f}{\fromafm{yvtrdl8a}}}
291 \transformfont{ts1-yvtbd-c}{\reencodefont{ts1-euro}{\fromafm{yvtbd8ac}}}
292 \transformfont{ts1-yvtrdl}{\reencodefont{ts1-euro}{\fromafm{yvtrdl8a}}}

```

Installation: creation of virtual fonts

293 \installfonts

T1/yvt (*font fam.*) Venturis Tl

```

294 \installfamily{T1}{yvt}{}
295 \installfont{yvtr8t}{t1-yvtr,newlatin}{t1-f_f}{T1}{yvt}{m}{n}{}
296 \installfont{yvtrc8t}{t1-yvtrc,t1-yvtr suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{m}{s}{}
297 \installfont{yvtrci8t}{t1-yvtrci,t1-yvtri suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{m}{m}{}
298 \installfont{yvtri8t}{t1-yvtri,t1-yvtrci,newlatin}{t1-f_f}{T1}{yvt}{m}{it}{}

```

Installation: repeat for bold fonts

```

299 \installfont{yvtb8t}{t1-yvtb,t1-yvtbc,newlatin}{t1-f_f}{T1}{yvt}{b}{n}{}
300 \installfont{yvtbc8t}{t1-yvtbc,t1-yvtb suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{b}{s}{}
301 \installfont{yvtbci8t}{t1-yvtbci,t1-yvtbi suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{b}{m}{}
302 \installfont{yvtbi8t}{t1-yvtbi,t1-yvtbci,newlatin}{t1-f_f}{T1}{yvt}{b}{it}{}

```

Installation: heavy weights

```

303 \installfont{yvth8t}{t1-yvth,newlatin}{t1-f_f}{T1}{yvt}{eb}{n}{}
304 \installfont{yvthi8t}{t1-yvthi,newlatin}{t1-f_f}{T1}{yvt}{eb}{it}{}

```

Installation: condensed widths

```

305 \installfont{yvtr8tc}{t1-yvtr-c,newlatin}{t1-f_f}{T1}{yvt}{c}{n}{}
306 \installfont{yvtrc8tc}{t1-yvtrc-c,t1-yvtr-c suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{c}{s}{}
307 \installfont{yvtrci8tc}{t1-yvtrci-c,t1-yvtri-c suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{c}{m}{}
308 \installfont{yvtri8tc}{t1-yvtri-c,newlatin}{t1-f_f}{T1}{yvt}{c}{it}{}

```

Installation: bold condensed

```

309 \installfont{yvtb8tc}{t1-yvtb-c,newlatin}{t1-f_f}{T1}{yvt}{bc}{n}{}
310 \installfont{yvtbc8tc}{t1-yvtbc-c,t1-yvtb-c suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{bc}{s}{}
311 \installfont{yvtbci8tc}{t1-yvtbci-c,t1-yvtbi-c suffix lining,newlatin}{lining,t1-f_f}{T1}{yvt}{bc}{m}{}
312 \installfont{yvtbi8tc}{t1-yvtbi-c,newlatin}{t1-f_f}{T1}{yvt}{bc}{it}{}

```

T1/yvtd (*font fam.*) Titling Tl

Installation: titling HOW to do this??

```

313 \installfamily{T1}{yvtd}{}
314 \installfont{yvtbd8tc}{t1-yvtbd-c,newlatin}{t1-f_f}{T1}{yvtd}{bc}{sc}{}
315 \installfontas{yvtbd8tc}{T1}{yvtd}{c}{sc}{}
316 \installfontas{yvtbd8tc}{T1}{yvtd}{m}{sc}{}
317 \installfontas{yvtbd8tc}{T1}{yvtd}{b}{sc}{}
318 \installfontas{yvtbd8tc}{T1}{yvtd}{eb}{sc}{}
319 \installfont{yvtrdl8t}{t1-yvtrdl,newlatin}{t1-f_f}{T1}{yvtd}{m}{ol}{}
320 \installfontas{yvtrdl8t}{T1}{yvtd}{c}{ol}{}
321 \installfontas{yvtrdl8t}{T1}{yvtd}{bc}{ol}{}
322 \installfontas{yvtrdl8t}{T1}{yvtd}{b}{ol}{}
323 \installfontas{yvtrdl8t}{T1}{yvtd}{eb}{ol}{}

```

```

324 %substitute small caps for upright shape
325 \installfontas{yvtbd8tc}{T1}{yvtbd}{c}{n}{}
326 \installfontas{yvtbd8tc}{T1}{yvtbd}{m}{n}{}
327 \installfontas{yvtbd8tc}{T1}{yvtbd}{bc}{n}{}
328 \installfontas{yvtbd8tc}{T1}{yvtbd}{b}{n}{}
329 \installfontas{yvtbd8tc}{T1}{yvtbd}{eb}{n}{}

```

T1/yvtj (font fam.) Installation: OSF

```

330 \installfamily{T1}{yvtj}{}
331 \installfont{yvtrj8t}{t1-yvtr,t1-yvtrc suffix oldstyle,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}
332 \installfont{yvtrcj8t}{t1-yvtrc,newlatin}{t1-f_f}{T1}{yvtj}{m}{sc}{}
333 \installfont{yvtrcij8t}{t1-yvtrci,newlatin}{t1-f_f}{T1}{yvtj}{m}{scit}{}
334 \installfont{yvtrij8t}{t1-yvtri,t1-yvtrci suffix oldstyle,t1-yvtrci,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}
335 \installfont{yvtbj8t}{t1-yvtb,t1-yvtbc suffix oldstyle,t1-yvtbc,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}
336 \installfont{yvtbcj8t}{t1-yvtbc,newlatin}{t1-f_f}{T1}{yvtj}{b}{sc}{}
337 \installfont{yvtbcij8t}{t1-yvtbci,newlatin}{t1-f_f}{T1}{yvtj}{b}{scit}{}
338 \installfont{yvtbij8t}{t1-yvtbi,t1-yvtbci suffix oldstyle,t1-yvtbci,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}
339 \installfont{yvtrj8tc}{t1-yvtr-c,t1-yvtrc-c suffix oldstyle,t1-yvtrc,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}
340 \installfont{yvtrcj8tc}{t1-yvtrc-c,newlatin}{t1-f_f}{T1}{yvtj}{c}{sc}{}
341 \installfont{yvtrcij8tc}{t1-yvtrci-c,newlatin}{t1-f_f}{T1}{yvtj}{c}{scit}{}
342 \installfont{yvtrij8tc}{t1-yvtri-c,t1-yvtrci-c suffix oldstyle,t1-yvtrci-c,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}
343 \installfont{yvtbj8tc}{t1-yvtb-c,t1-yvtbc-c suffix oldstyle,t1-yvtbc-c,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}
344 \installfont{yvtbcj8tc}{t1-yvtbc-c,newlatin}{t1-f_f}{T1}{yvtj}{bc}{sc}{}
345 \installfont{yvtbcij8tc}{t1-yvtbci-c,newlatin}{t1-f_f}{T1}{yvtj}{bc}{scit}{}
346 \installfont{yvtbij8tc}{t1-yvtbi-c,t1-yvtbci-c suffix oldstyle,t1-yvtbci-c,newlatin}{t1j-f_f}{T1}{yvtj}{m}{n}{}

```

T1/yvtw (font fam.) swash

```

347 \installfamily{T1}{yvtw}{}
348 \installfont{yvtrw8t}{t1-yvtr,t1alt-yvtrc,t1-yvtr suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtr}{m}{n}{}
349 \installfont{yvtriw8t}{t1-yvtri,t1alt-yvtrci,t1-yvtri suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtri}{m}{n}{}
350 \installfont{yvtrcw8t}{t1alt-yvtrc,t1-yvtrc suffix .alt,t1-yvtr suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}
351 \installfont{yvtrciw8t}{t1alt-yvtrci,t1-yvtrci suffix .alt,t1-yvtri suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}
352 \installfont{yvtbw8t}{t1-yvtb,t1alt-yvtbc,t1-yvtb suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtb}{m}{n}{}
353 \installfont{yvtbiw8t}{t1-yvtbi,t1alt-yvtbci,t1-yvtbi suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtbi}{m}{n}{}
354 \installfont{yvtbcw8t}{t1alt-yvtbc,t1-yvtbc suffix .alt,t1-yvtb suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}
355 \installfont{yvtbciw8t}{t1alt-yvtbci,t1-yvtbci suffix .alt,t1-yvtbi suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}
356 \installfont{yvtrw8tc}{t1-yvtr-c,t1alt-yvtrc-c,t1-yvtr-c suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtr-c}{m}{n}{}
357 \installfont{yvtriw8tc}{t1-yvtri-c,t1alt-yvtrci-c,t1-yvtri-c suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtri-c}{m}{n}{}
358 \installfont{yvtrcw8tc}{t1alt-yvtrc-c,t1-yvtrc-c suffix .alt,t1-yvtr-c suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}
359 \installfont{yvtrciw8tc}{t1alt-yvtrci-c,t1-yvtrci-c suffix .alt,t1-yvtri-c suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}
360 \installfont{yvtbw8tc}{t1-yvtb-c,t1alt-yvtbc-c,t1-yvtb-c suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtb-c}{m}{n}{}
361 \installfont{yvtbiw8tc}{t1-yvtbi-c,t1alt-yvtbci-c,t1-yvtbi-c suffix .alt,resetalt,newlatin}{ucdotalt,t1-yvtbi-c}{m}{n}{}
362 \installfont{yvtbcw8tc}{t1alt-yvtbc-c,t1-yvtbc-c suffix .alt,t1-yvtb-c suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}
363 \installfont{yvtbciw8tc}{t1alt-yvtbci-c,t1-yvtbci-c suffix .alt,t1-yvtbi-c suffix lining,resetalt,newlatin}{t1j-f_f}{T1}{yvtw}{m}{n}{}

```

T1/yvtaw (font fam.) alternate swash

```

364 \installfamily{T1}{yvtaw}{}
365 \installfont{yvtraw8t}{vent-yvtr,t1alt-yvtrc,vent-yvtr suffix .alt,newlatin}{ucdotalt,t1-ven
366 \installfontas{yvtrcw8t}{T1}{yvtaw}{m}{sc}{}
367 \installfontas{yvtrciw8t}{T1}{yvtaw}{m}{scit}{}
368 \installfontas{yvtriw8t}{T1}{yvtaw}{m}{it}{}
369 \installfontas{yvtbw8t}{T1}{yvtaw}{b}{n}{}
370 \installfontas{yvtbcw8t}{T1}{yvtaw}{b}{sc}{}
371 \installfontas{yvtbciw8t}{T1}{yvtaw}{b}{scit}{}
372 \installfontas{yvtbiw8t}{T1}{yvtaw}{b}{it}{}
373 \installfontas{yvtrw8tc}{T1}{yvtaw}{c}{n}{}
374 \installfontas{yvtrcw8tc}{T1}{yvtaw}{c}{sc}{}
375 \installfontas{yvtrciw8tc}{T1}{yvtaw}{c}{scit}{}
376 \installfontas{yvtriw8tc}{T1}{yvtaw}{c}{it}{}
377 \installfontas{yvtbw8tc}{T1}{yvtaw}{bc}{n}{}
378 \installfontas{yvtbcw8tc}{T1}{yvtaw}{bc}{sc}{}
379 \installfontas{yvtbciw8tc}{T1}{yvtaw}{bc}{scit}{}
380 \installfontas{yvtbiw8tc}{T1}{yvtaw}{bc}{it}{}

```

T1/yvtjw (*font fam.*) OSF swash

```

381 \installfamily{T1}{yvtjw}{}
382 \installfont{yvtrjw8t}{t1-yvtr,t1-yvtrc suffix oldstyle,t1alt-yvtrc,t1-yvtr suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
383 \installfont{yvtrcjw8t}{t1alt-yvtrc,t1-yvtrc suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
384 \installfont{yvtrcijw8t}{t1alt-yvtrci,t1-yvtrci suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
385 \installfont{yvtrijw8t}{t1-yvtri,t1-yvtrci suffix oldstyle,t1alt-yvtrci,t1-yvtri suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
386 \installfont{yvtbjw8t}{t1-yvtb,t1-yvtbc suffix oldstyle,t1alt-yvtbc,t1-yvtb suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
387 \installfont{yvtbijw8t}{t1-yvtbi,t1-yvtbci suffix oldstyle,t1alt-yvtbci,t1-yvtbi suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
388 \installfont{yvtbcjw8t}{t1alt-yvtbc,t1-yvtbc suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
389 \installfont{yvtbcijw8t}{t1alt-yvtbci,t1-yvtbci suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
390 \installfont{yvtrjw8tc}{t1-yvtr-c,t1-yvtrc-c suffix oldstyle,t1alt-yvtrc-c,t1-yvtr-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
391 \installfont{yvtrcjw8tc}{t1alt-yvtrc-c,t1-yvtrc-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
392 \installfont{yvtrcijw8tc}{t1alt-yvtrci-c,t1-yvtrci-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
393 \installfont{yvtrijw8tc}{t1-yvtri-c,t1-yvtrci-c suffix oldstyle,t1alt-yvtrci-c,t1-yvtri-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
394 \installfont{yvtbjw8tc}{t1-yvtb-c,t1-yvtbc-c suffix oldstyle,t1alt-yvtbc-c,t1-yvtb-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
395 \installfont{yvtbijw8tc}{t1-yvtbi-c,t1-yvtbci-c suffix oldstyle,t1alt-yvtbci-c,t1-yvtbi-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
396 \installfont{yvtbcjw8tc}{t1alt-yvtbc-c,t1-yvtbc-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
397 \installfont{yvtbcijw8tc}{t1alt-yvtbci-c,t1-yvtbci-c suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{

```

T1/yvtajw (*font fam.*) OSF alternate swash

```

398 \installfamily{T1}{yvtajw}{}
399 \installfont{yvtrajw8t}{vent-yvtr,t1-yvtrc suffix oldstyle,t1alt-yvtrc,vent-yvtr suffix .alt,resetalt,newlatin}{t1-dotalt-f_f}{
400 \installfontas{yvtrijw8t}{T1}{yvtajw}{m}{it}{}
401 \installfontas{yvtrcjw8t}{T1}{yvtajw}{m}{sc}{}
402 \installfontas{yvtrcijw8t}{T1}{yvtajw}{m}{scit}{}
403 \installfontas{yvtbjw8t}{T1}{yvtajw}{b}{n}{}
404 \installfontas{yvtbijw8t}{T1}{yvtajw}{b}{it}{}
405 \installfontas{yvtbcjw8t}{T1}{yvtajw}{b}{sc}{}
406 \installfontas{yvtbcijw8t}{T1}{yvtajw}{b}{scit}{}

```



```

407 \installfontas{yvtrjw8tc}{T1}{yvtajw}{c}{n}{ }
408 \installfontas{yvtrijw8tc}{T1}{yvtajw}{c}{it}{ }
409 \installfontas{yvtrcjw8tc}{T1}{yvtajw}{c}{sc}{ }
410 \installfontas{yvtrcijw8tc}{T1}{yvtajw}{c}{scit}{ }
411 \installfontas{yvtbjw8tc}{T1}{yvtajw}{bc}{n}{ }
412 \installfontas{yvtbijw8tc}{T1}{yvtajw}{bc}{it}{ }
413 \installfontas{yvtbcjw8tc}{T1}{yvtajw}{bc}{sc}{ }
414 \installfontas{yvtbcijw8tc}{T1}{yvtajw}{bc}{scit}{ }

```

TS1/yvt (*font fam.*) Installation: install with TS1 encoding for extra glyphs through textcomp

```

415 \installfamily{TS1}{yvt}{ }
416 \installfont{yvtr8c}{t1-yvtr,ts1-yvtr,t1-yvtrc suffix oldstyle,textcomp}{ts1-euro}{TS1}{yvt}{ }
417 \installfont{yvtrc8c}{t1-yvtrc,t1-yvtrc suffix oldstyle,ts1-yvtrc,textcomp}{ts1-euro}{TS1}{yvt}{ }
418 \installfont{yvtri8c}{t1-yvtri,ts1-yvtri,t1-yvtrci suffix oldstyle,ts1-yvtrci,textcomp}{ts1-euro}{TS1}{yvt}{ }
419 \installfont{yvtrci8c}{t1-yvtrci,t1-yvtrci suffix oldstyle,ts1-yvtrci,textcomp}{ts1-euro}{TS1}{yvt}{ }

```

Installation: repeat for bold fonts

```

420 \installfont{yvtb8c}{t1-yvtb,ts1-yvtb,t1-yvtbc suffix oldstyle,ts1-yvtbc,textcomp}{ts1-euro}{TS1}{yvt}{ }
421 \installfont{yvtbc8c}{t1-yvtbc,t1-yvtbc suffix oldstyle,ts1-yvtbc,textcomp}{ts1-euro}{TS1}{yvt}{ }
422 \installfont{yvtbi8c}{t1-yvtbi,ts1-yvtbi,t1-yvtbci suffix oldstyle,ts1-yvtbci,textcomp}{ts1-euro}{TS1}{yvt}{ }
423 \installfont{yvtbci8c}{t1-yvtbci,t1-yvtbci suffix oldstyle,ts1-yvtbci,textcomp}{ts1-euro}{TS1}{yvt}{ }

```

Installation: and heavy weights

```

424 \installfont{yvth8c}{t1-yvth,ts1-yvth,textcomp}{ts1-euro}{TS1}{yvt}{eb}{n}{ }
425 \installfont{yvthi8c}{t1-yvthi,ts1-yvthi,textcomp}{ts1-euro}{TS1}{yvt}{eb}{it}{ }

```

Installation: and condensed widths

```

426 \installfont{yvtr8cc}{t1-yvtr,ts1-yvtr-c,t1-yvtrc-c suffix oldstyle,ts1-yvtrc-c,textcomp}{ts1-euro}{TS1}{yvt}{ }
427 \installfont{yvtrc8cc}{t1-yvtrc-c,t1-yvtrc-c suffix oldstyle,ts1-yvtrc-c,textcomp}{ts1-euro}{TS1}{yvt}{ }
428 \installfont{yvtri8cc}{t1-yvtri,ts1-yvtri-c,t1-yvtrci-c suffix oldstyle,ts1-yvtrci-c,textcomp}{ts1-euro}{TS1}{yvt}{ }
429 \installfont{yvtrci8cc}{t1-yvtrci-c,t1-yvtrci-c suffix oldstyle,ts1-yvtrci-c,textcomp}{ts1-euro}{TS1}{yvt}{ }

```

Installation: and bold condensed

```

430 \installfont{yvtb8cc}{t1-yvtb,ts1-yvtb-c,t1-yvtbc-c suffix oldstyle,ts1-yvtbc-c,textcomp}{ts1-euro}{TS1}{yvt}{ }
431 \installfont{yvtbc8cc}{t1-yvtbc-c,t1-yvtbc-c suffix oldstyle,ts1-yvtbc-c,textcomp}{ts1-euro}{TS1}{yvt}{ }
432 \installfont{yvtbi8cc}{t1-yvtbi,ts1-yvtbi-c,t1-yvtbci-c suffix oldstyle,ts1-yvtbci-c,textcomp}{ts1-euro}{TS1}{yvt}{ }
433 \installfont{yvtbci8cc}{t1-yvtbci-c,t1-yvtbci-c suffix oldstyle,ts1-yvtbci-c,textcomp}{ts1-euro}{TS1}{yvt}{ }

```

TS1/yvtj (*font fam.*) Installation: OSF

```

434 \installfamily{TS1}{yvtj}{ }
435 \installfontas{yvtr8c}{TS1}{yvtj}{m}{n}{ }
436 \installfontas{yvtrc8c}{TS1}{yvtj}{m}{sc}{ }
437 \installfontas{yvtri8c}{TS1}{yvtj}{m}{it}{ }
438 \installfontas{yvtrci8c}{TS1}{yvtj}{m}{scit}{ }
439 \installfontas{yvtb8c}{TS1}{yvtj}{b}{n}{ }

```

```

440 \installfontas{yvtbc8c}{TS1}{yvtj}{b}{sc}{}
441 \installfontas{yvtbi8c}{TS1}{yvtj}{b}{it}{}
442 \installfontas{yvtbci8c}{TS1}{yvtj}{b}{scit}{}
443 \installfontas{yvtr8cc}{TS1}{yvtj}{c}{n}{}
444 \installfontas{yvtrc8cc}{TS1}{yvtj}{c}{sc}{}
445 \installfontas{yvtri8cc}{TS1}{yvtj}{c}{it}{}
446 \installfontas{yvtrci8cc}{TS1}{yvtj}{c}{scit}{}
447 \installfontas{yvtb8cc}{TS1}{yvtj}{bc}{n}{}
448 \installfontas{yvtbc8cc}{TS1}{yvtj}{bc}{sc}{}
449 \installfontas{yvtbi8cc}{TS1}{yvtj}{bc}{it}{}
450 \installfontas{yvtbci8cc}{TS1}{yvtj}{bc}{scit}{}

```

TS1/yvtw (*font fam.*) swash

```

451 \installfamily{TS1}{yvtw}{}
452 \installfontas{yvtr8c}{TS1}{yvtw}{m}{n}{}
453 \installfontas{yvtrc8c}{TS1}{yvtw}{m}{sc}{}
454 \installfontas{yvtri8c}{TS1}{yvtw}{m}{it}{}
455 \installfontas{yvtrci8c}{TS1}{yvtw}{m}{scit}{}
456 \installfontas{yvtb8c}{TS1}{yvtw}{b}{n}{}
457 \installfontas{yvtbc8c}{TS1}{yvtw}{b}{sc}{}
458 \installfontas{yvtbi8c}{TS1}{yvtw}{b}{it}{}
459 \installfontas{yvtbci8c}{TS1}{yvtw}{b}{scit}{}
460 \installfontas{yvtr8cc}{TS1}{yvtw}{c}{n}{}
461 \installfontas{yvtrc8cc}{TS1}{yvtw}{c}{sc}{}
462 \installfontas{yvtri8cc}{TS1}{yvtw}{c}{it}{}
463 \installfontas{yvtrci8cc}{TS1}{yvtw}{c}{scit}{}
464 \installfontas{yvtb8cc}{TS1}{yvtw}{bc}{n}{}
465 \installfontas{yvtbc8cc}{TS1}{yvtw}{bc}{sc}{}
466 \installfontas{yvtbi8cc}{TS1}{yvtw}{bc}{it}{}
467 \installfontas{yvtbci8cc}{TS1}{yvtw}{bc}{scit}{}

```

S1/yvtaw (*font fam.*) alternate swash

```

468 \installfamily{TS1}{yvtaw}{}
469 \installfontas{yvtr8c}{TS1}{yvtaw}{m}{n}{}
470 \installfontas{yvtrc8c}{TS1}{yvtaw}{m}{sc}{}
471 \installfontas{yvtri8c}{TS1}{yvtaw}{m}{it}{}
472 \installfontas{yvtrci8c}{TS1}{yvtaw}{m}{scit}{}
473 \installfontas{yvtb8c}{TS1}{yvtaw}{b}{n}{}
474 \installfontas{yvtbc8c}{TS1}{yvtaw}{b}{sc}{}
475 \installfontas{yvtbi8c}{TS1}{yvtaw}{b}{it}{}
476 \installfontas{yvtbci8c}{TS1}{yvtaw}{b}{scit}{}
477 \installfontas{yvtr8cc}{TS1}{yvtaw}{c}{n}{}
478 \installfontas{yvtrc8cc}{TS1}{yvtaw}{c}{sc}{}
479 \installfontas{yvtri8cc}{TS1}{yvtaw}{c}{it}{}
480 \installfontas{yvtrci8cc}{TS1}{yvtaw}{c}{scit}{}
481 \installfontas{yvtb8cc}{TS1}{yvtaw}{bc}{n}{}
482 \installfontas{yvtbc8cc}{TS1}{yvtaw}{bc}{sc}{}

```

```

483 \installfontas{yvtbi8cc}{TS1}{yvtaw}{bc}{it}{}
484 \installfontas{yvtbci8cc}{TS1}{yvtaw}{bc}{scit}{}

```

S1/yvtjw (*font fam.*) OSF swash

```

485 \installfamily{TS1}{yvtjw}{}
486 \installfontas{yvtr8c}{TS1}{yvtjw}{m}{n}{}
487 \installfontas{yvtrc8c}{TS1}{yvtjw}{m}{sc}{}
488 \installfontas{yvtri8c}{TS1}{yvtjw}{m}{it}{}
489 \installfontas{yvtrci8c}{TS1}{yvtjw}{m}{scit}{}
490 \installfontas{yvtb8c}{TS1}{yvtjw}{b}{n}{}
491 \installfontas{yvtbc8c}{TS1}{yvtjw}{b}{sc}{}
492 \installfontas{yvtbi8c}{TS1}{yvtjw}{b}{it}{}
493 \installfontas{yvtbci8c}{TS1}{yvtjw}{b}{scit}{}
494 \installfontas{yvtr8cc}{TS1}{yvtjw}{c}{n}{}
495 \installfontas{yvtrc8cc}{TS1}{yvtjw}{c}{sc}{}
496 \installfontas{yvtri8cc}{TS1}{yvtjw}{c}{it}{}
497 \installfontas{yvtrci8cc}{TS1}{yvtjw}{c}{scit}{}
498 \installfontas{yvtb8cc}{TS1}{yvtjw}{bc}{n}{}
499 \installfontas{yvtbc8cc}{TS1}{yvtjw}{bc}{sc}{}
500 \installfontas{yvtbi8cc}{TS1}{yvtjw}{bc}{it}{}
501 \installfontas{yvtbci8cc}{TS1}{yvtjw}{bc}{scit}{}

```

1/yvtajw (*font fam.*) OSF alternate swash

```

502 \installfamily{TS1}{yvtajw}{}
503 \installfontas{yvtr8c}{TS1}{yvtajw}{m}{n}{}
504 \installfontas{yvtrc8c}{TS1}{yvtajw}{m}{sc}{}
505 \installfontas{yvtri8c}{TS1}{yvtajw}{m}{it}{}
506 \installfontas{yvtrci8c}{TS1}{yvtajw}{m}{scit}{}
507 \installfontas{yvtb8c}{TS1}{yvtajw}{b}{n}{}
508 \installfontas{yvtbc8c}{TS1}{yvtajw}{b}{sc}{}
509 \installfontas{yvtbi8c}{TS1}{yvtajw}{b}{it}{}
510 \installfontas{yvtbci8c}{TS1}{yvtajw}{b}{scit}{}
511 \installfontas{yvtr8cc}{TS1}{yvtajw}{c}{n}{}
512 \installfontas{yvtrc8cc}{TS1}{yvtajw}{c}{sc}{}
513 \installfontas{yvtri8cc}{TS1}{yvtajw}{c}{it}{}
514 \installfontas{yvtrci8cc}{TS1}{yvtajw}{c}{scit}{}
515 \installfontas{yvtb8cc}{TS1}{yvtajw}{bc}{n}{}
516 \installfontas{yvtbc8cc}{TS1}{yvtajw}{bc}{sc}{}
517 \installfontas{yvtbi8cc}{TS1}{yvtajw}{bc}{it}{}
518 \installfontas{yvtbci8cc}{TS1}{yvtajw}{bc}{scit}{}

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TS1/yvtd (*font fam.*) Installation: and titling HOW to do this??

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519 \installfamily{TS1}{yvtd}{}
520 \installfont{yvtbd8cc}{t1-yvtbd-c,ts1-yvtbd-c,textcomp}{ts1-euro}{TS1}{yvtd}{bc}{sc}{}
521 \installfontas{yvtbd8cc}{TS1}{yvtd}{m}{sc}{}
522 \installfontas{yvtbd8cc}{TS1}{yvtd}{c}{sc}{}

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523 \installfontas{yvtbd8cc}{TS1}{yvtbd}{b}{sc}{}
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532 \installfontas{yvtbd8cc}{TS1}{yvtbd}{b}{n}{}
533 \installfontas{yvtbd8cc}{TS1}{yvtbd}{eb}{n}{}

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Finish up

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534 \endinstallfonts
535 \endrecordtransforms
536 \bye

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3.3 Map

This file is compiled to produce the map file fragment updmap needs to install the fonts. It uses files recorded during compilation of the driver.

```

537 \input finstmisc.sty
538 \resetstr{PSfontsuffix}{.pfb}
539 \adddriver{dvips}{yvt.map}
540 \adddriver{pltotf}{yvt-pltotf.sh}
541 \input yvt-rec.tex
542 \donedrivers
543 \bye

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	<i>3627, 3661, 3690, 3706,</i>	<i>1567, 2818, 4098</i>
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4533, 4537, 4541, 4545,
4549, 4553, 4557, 4561,
4565, 4569, 4573, 4578,
4582, 4586, 4590, 4594,
4598, 4602, 4606,
4610, 4614, 4618, 4622,
4626, 4630, 4634, 4640,
4647, 4651, 4657, 4661,
4665, 4669, 4673, 4677,
4681, 4685, 4689, 4693,
4697, 4701, 4705, 4709,
4713, 4716, 4720, 4724,
4728, 4732, 4736, 4740,
4744, 4748, 4752, 4756,
4760, 4764, 4768, 4773,
4777, 4781, 4785, 4789,

2004, 2008, 2012, 2028,	4725, 4733, 4741, 4765	Y
2040, 2055, 2063, 2071,	venturis (pkg.) 160	\yvi@scale 634
2095, 2130, 2134, 2138,	venturis2 (pkg.) 836	\yvi@scale 187
2154, 2166, 2181, 2189,	venturisol d .sty (pkg.) . 1154	\yvii@scale 903
2197, 2221, 2672, 3257,	\vt@shape . 206, 211, 865, 870	\yvii@scale 851
3261, 3265, 3281, 3293,	\vtstyle 205 , 231 , 232 , 864 ,	\yviii@scale 1043
3310, 3318, 3326, 3350,	891 , 892 , 1177 , 1180 , 1181	\yviii@scale 851
3391, 3395, 3399, 3415,		\yvo@scale 1194
3427, 3442, 3450, 3458,	W	\yvo@scale 1171
3482, 3952, 4538, 4542,	\width 1302 ,	\yvt@scale 243
4546, 4562, 4574, 4591,	1304 , 1362 , 2552 , 2554 ,	\yvt@scale 187
4599, 4607, 4631, 4674,	2612 , 3832 , 3834 , 3892	Z
4678, 4682, 4698, 4710,		\zeroslash 6

venturisadf: venturissans

Clea F. Rees*

v2.0 (SVN Rev: 10263) 2024/08/20

Abstract

This file is part of venturisadf. venturisadf.pdf constitutes the main documentation for the package.

4 Example

```
544 \documentclass[12pt]{article}
545 \title{Venturis Sans Example}
546 \author{Spot}
547
548 \newcommand{\alphaline}{ABCDEFGHIJKLMNQPQRSTUVWXYZ\abcdefghijklmnopqrstuvwxyz\0123456789\
549 f{}f ff f{}i fi f{}l fl f{}f{}i ffi f{}f{}l ffl \& \texteuro \texttrademark \textcopyright \
550 sphinx of black quartz, judge my vow}%\textcelsius \textnumero \textservicemark}
551 \newcommand{\abc}{ABCDEFGHIJKLMNQPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz}
552 \newcommand{\digits}{0123456789}
553 \newcommand{\alphatest}{%
554   \begin{flushleft}
555     \textup{upright:\\\alphaline}\\[\smallskipamount]
556     \textit{italics/oblique:\\\alphaline}\\
557   \end{flushleft}%
558 }
559
560 \pdfmapfile{-yv1.map}
561 \pdfmapfile{+yv1.map}
562 \usepackage{venturis}
563
564 \begin{document}
565 \maketitle
566 \setlength{\parindent}{0pt}
567
568 \sffamily
569
```

*Bug tracker: codeberg.org/cfr/nfssex/issues | Code: codeberg.org/cfr/nfssex | Mirror: github.com/cfr42/nfssex

```
570 \section*{family: yv1}
571
572 \subsection*{Light weight, regular width}
573
574 \textlg{\alphatest}
575
576 \subsection*{Regular weight, regular width}
577
578 \alphatest
579
580 \subsection*{Demibold weight, regular width}
581
582 \textdb{\alphatest}
583
584 \subsection*{Bold series (i.e.\ bold weight, extended)}
585
586 \textbf{\alphatest}
587
588 \subsection*{Bold weight, regular width (selected directly)}
589
590 {\fontseries{b}\selectfont\alphatest}
591
592 \subsection*{Heavy weight, regular width}
593
594 \texteb{\alphatest}
595
596 \subsection*{Regular and bold weights, condensed}
597
598 {\cdwidth
599   \alphatest
600   \textbf{\cdwidth \alphatest}%
601 }
602 }
603
604 \subsection*{Regular and bold weights, extended}
605
606 {\etwidth
607   \alphatest
608   \textbf{\etwidth\alphatest}%
609 }
610 }
611
612 \section*{family: yv1d}
613
614 The fonts include uppercase, small-caps and lining figures.
615 \medskip
616
617 \textvt{\alphaline}
618 \medskip
```

```

619
620 \textbf{\textvt{\alphaline}}
621
622 \end{document}
623

```

5 Implementation

venturis.sty is included in venturis.dtx and listed in venturis.pdf. Consult those files for details of the package support.

The remaining files are not used directly, but are required to generate the files which allow T_EX and L^AT_EX to use the fonts. The sources use fontinst as explained in the (sparse) comments. While you can install these files into a T_EX tree, they are not required for typesetting.

5.1 Driver

The file does all the initial setup of the fonts. It organises the fonts into families, defines shapes and reencodes as required.

```

624 \input fontinst.sty
625 \needsfontinstversion{1.926}

```

Substitutions Bold for bold extended

```

626 \substitutesilent{dbuc}{db}
627 \substitutesilent{uc}{c}
628 \substitutesilent{sl}{it}
629 \substitutesilent{scit}{sc}
630 \substitutesilent{scsl}{scit}
631 \substitutesilent{si}{scsl}
632 \substitutesilent{sc}{n}

```

Record transformations for later map file creation

```

633 \recordtransforms{yv1-rec.tex}

```

Allow fonts to be scaled via variable in fd files Also requires fontinst.lua fnttarg as no means to define variable in fontinst

```

634 \declaresize{}{<-> \string\yvi@@scale}

```

Transformations : reencode fonts

```

635 \transformfont{t1-yv1r}{\reencodefont{t1-f_f}{\fromafm{yv1r8a}}}
636 \transformfont{t1-yv1ri}{\reencodefont{t1-f_f}{\fromafm{yv1ri8a}}}
637 \transformfont{t1-yv1b}{\reencodefont{t1-f_f}{\fromafm{yv1b8a}}}
638 \transformfont{t1-yv1bi}{\reencodefont{t1-f_f}{\fromafm{yv1bi8a}}}
639 \transformfont{t1-yv1h}{\reencodefont{t1-f_f}{\fromafm{yv1h8a}}}

```

```

640 \transformfont{t1-yv1ho}{\reencodefont{t1-f_f}{\fromafm{yv1ho8a}}}
641 \transformfont{ts1-yv1r}{\reencodefont{ts1-euro}{\fromafm{yv1r8a}}}
642 \transformfont{ts1-yv1ri}{\reencodefont{ts1-euro}{\fromafm{yv1ri8a}}}
643 \transformfont{ts1-yv1b}{\reencodefont{ts1-euro}{\fromafm{yv1b8a}}}
644 \transformfont{ts1-yv1bi}{\reencodefont{ts1-euro}{\fromafm{yv1bi8a}}}
645 \transformfont{ts1-yv1h}{\reencodefont{ts1-euro}{\fromafm{yv1h8a}}}
646 \transformfont{ts1-yv1ho}{\reencodefont{ts1-euro}{\fromafm{yv1ho8a}}}

```

Transformations : reencode condensed sans serifs

```

647 \transformfont{t1-yv1r-c}{\reencodefont{t1-f_f}{\fromafm{yv1r8ac}}}
648 \transformfont{t1-yv1ri-c}{\reencodefont{t1-f_f}{\fromafm{yv1ri8ac}}}
649 \transformfont{t1-yv1b-c}{\reencodefont{t1-f_f}{\fromafm{yv1b8ac}}}
650 \transformfont{t1-yv1bi-c}{\reencodefont{t1-f_f}{\fromafm{yv1bi8ac}}}
651 \transformfont{ts1-yv1r-c}{\reencodefont{ts1-euro}{\fromafm{yv1r8ac}}}
652 \transformfont{ts1-yv1ri-c}{\reencodefont{ts1-euro}{\fromafm{yv1ri8ac}}}
653 \transformfont{ts1-yv1b-c}{\reencodefont{ts1-euro}{\fromafm{yv1b8ac}}}
654 \transformfont{ts1-yv1bi-c}{\reencodefont{ts1-euro}{\fromafm{yv1bi8ac}}}

```

Transformations : reencode extended sans serif

```

655 \transformfont{t1-yv1r-x}{\reencodefont{t1-f_f}{\fromafm{yv1r8ax}}}
656 \transformfont{t1-yv1ri-x}{\reencodefont{t1-f_f}{\fromafm{yv1ri8ax}}}
657 \transformfont{t1-yv1b-x}{\reencodefont{t1-f_f}{\fromafm{yv1b8ax}}}
658 \transformfont{t1-yv1bi-x}{\reencodefont{t1-f_f}{\fromafm{yv1bi8ax}}}
659 \transformfont{ts1-yv1r-x}{\reencodefont{ts1-euro}{\fromafm{yv1r8ax}}}
660 \transformfont{ts1-yv1ri-x}{\reencodefont{ts1-euro}{\fromafm{yv1ri8ax}}}
661 \transformfont{ts1-yv1b-x}{\reencodefont{ts1-euro}{\fromafm{yv1b8ax}}}
662 \transformfont{ts1-yv1bi-x}{\reencodefont{ts1-euro}{\fromafm{yv1bi8ax}}}

```

Transformations : reencode light weights

```

663 \transformfont{t1-yv1l}{\reencodefont{t1-f_f}{\fromafm{yv1l8a}}}
664 \transformfont{t1-yv1li}{\reencodefont{t1-f_f}{\fromafm{yv1li8a}}}
665 \transformfont{t1-yv1d}{\reencodefont{t1-f_f}{\fromafm{yv1d8a}}}
666 \transformfont{t1-yv1di}{\reencodefont{t1-f_f}{\fromafm{yv1di8a}}}
667 \transformfont{ts1-yv1l}{\reencodefont{ts1-euro}{\fromafm{yv1l8a}}}
668 \transformfont{ts1-yv1li}{\reencodefont{ts1-euro}{\fromafm{yv1li8a}}}
669 \transformfont{ts1-yv1d}{\reencodefont{ts1-euro}{\fromafm{yv1d8a}}}
670 \transformfont{ts1-yv1di}{\reencodefont{ts1-euro}{\fromafm{yv1di8a}}}

```

Transformations : reencode titling

```

671 \transformfont{t1-yv1bd}{\reencodefont{t1-f_f}{\fromafm{yv1bd8a}}}
672 \transformfont{t1-yv1dd-u}{\reencodefont{t1-f_f}{\fromafm{yv1dd8au}}}
673 \transformfont{ts1-yv1bd}{\reencodefont{ts1-euro}{\fromafm{yv1bd8a}}}
674 \transformfont{ts1-yv1dd-u}{\reencodefont{ts1-euro}{\fromafm{yv1dd8au}}}

```

Installation: creation of virtual fonts

```

675 \installfonts

```

T1/yv1 (*font fam.*) venturissans

```
676 \installfamily{T1}{yv1}{}
677 \installfont{yv1r8t}{t1-yv1r,newlatin}{t1-f_f}{T1}{yv1}{m}{n}{}
678 \installfont{yv1ri8t}{t1-yv1ri,newlatin}{t1-f_f}{T1}{yv1}{m}{it}{}

```

Installation:repeat for bold sans fonts

```
679 \installfont{yv1b8t}{t1-yv1b,newlatin}{t1-f_f}{T1}{yv1}{b}{n}{}
680 \installfont{yv1bi8t}{t1-yv1bi,newlatin}{t1-f_f}{T1}{yv1}{b}{it}{}

```

Installation:heavy weights

```
681 \installfont{yv1h8t}{t1-yv1h,newlatin}{t1-f_f}{T1}{yv1}{eb}{n}{}
682 \installfont{yv1ho8t}{t1-yv1ho,newlatin}{t1-f_f}{T1}{yv1}{eb}{sl}{}
683 \installfontas{yv1ho8t}{T1}{yv1}{eb}{it}{}

```

Installation:and condensed widths sans

```
684 \installfont{yv1r8tc}{t1-yv1r-c,newlatin}{t1-f_f}{T1}{yv1}{c}{n}{}
685 \installfont{yv1ri8tc}{t1-yv1ri-c,newlatin}{t1-f_f}{T1}{yv1}{c}{it}{}

```

Installation:and bold condensed sans

```
686 \installfont{yv1b8tc}{t1-yv1b-c,newlatin}{t1-f_f}{T1}{yv1}{bc}{n}{}
687 \installfont{yv1bi8tc}{t1-yv1bi-c,newlatin}{t1-f_f}{T1}{yv1}{bc}{it}{}

```

Installation:and extended widths sans

```
688 \installfont{yv1r8tx}{t1-yv1r-x,newlatin}{t1-f_f}{T1}{yv1}{x}{n}{}
689 \installfont{yv1ri8tx}{t1-yv1ri-x,newlatin}{t1-f_f}{T1}{yv1}{x}{it}{}

```

Installation:and bold extended sans

```
690 \installfont{yv1b8tx}{t1-yv1b-x,newlatin}{t1-f_f}{T1}{yv1}{bx}{n}{}
691 \installfontas{yv1b8tx}{T1}{yv1}{bx}{sc}{}
692 \installfont{yv1bi8tx}{t1-yv1bi-x,newlatin}{t1-f_f}{T1}{yv1}{bx}{it}{}
693 \installfontas{yv1bi8tx}{T1}{yv1}{bx}{sl}{}
694 \installfontas{yv1b8tx}{T1}{yv1}{bx}{scit}{}

```

Installation:and the light weight sans

```
695 \installfont{yv1l8t}{t1-yv1l,newlatin}{t1-f_f}{T1}{yv1}{l}{n}{}
696 \installfont{yv1li8t}{t1-yv1li,newlatin}{t1-f_f}{T1}{yv1}{l}{it}{}

```

Installation:repeat for bold light sans fonts

```
697 \installfont{yv1d8t}{t1-yv1d,newlatin}{t1-f_f}{T1}{yv1}{db}{n}{}
698 \installfont{yv1di8t}{t1-yv1di,newlatin}{t1-f_f}{T1}{yv1}{db}{it}{}

```

T1/yv1d (*font fam.*) Installation:titling

```
699 \installfamily{T1}{yv1d}{}

```

```

700 \installfont{yv1bd8t}{t1-yv1bd,newlatin}{t1-f_f}{T1}{yv1d}{b}{sc}{}
701 \installfontas{yv1bd8t}{T1}{yv1d}{eb}{sc}{}
702 \installfontas{yv1bd8t}{T1}{yv1d}{bc}{sc}{}
703 \installfontas{yv1bd8t}{T1}{yv1d}{db}{sc}{}
704 \installfontas{yv1bd8t}{T1}{yv1d}{b}{n}{}
705 \installfontas{yv1bd8t}{T1}{yv1d}{eb}{n}{}
706 \installfontas{yv1bd8t}{T1}{yv1d}{bc}{n}{}
707 \installfontas{yv1bd8t}{T1}{yv1d}{db}{n}{}
708 \installfont{yv1dd8tu}{t1-yv1dd-u,newlatin}{t1-f_f}{T1}{yv1d}{dbuc}{sc}{}
709 \installfontas{yv1dd8tu}{T1}{yv1d}{x}{sc}{}
710 \installfontas{yv1dd8tu}{T1}{yv1d}{m}{sc}{}
711 \installfontas{yv1dd8tu}{T1}{yv1d}{c}{sc}{}
712 \installfontas{yv1dd8tu}{T1}{yv1d}{uc}{sc}{}
713 \installfontas{yv1dd8tu}{T1}{yv1d}{l}{sc}{}
714 \installfontas{yv1dd8tu}{T1}{yv1d}{dbuc}{n}{}
715 \installfontas{yv1dd8tu}{T1}{yv1d}{x}{n}{}
716 \installfontas{yv1dd8tu}{T1}{yv1d}{m}{n}{}
717 \installfontas{yv1dd8tu}{T1}{yv1d}{c}{n}{}
718 \installfontas{yv1dd8tu}{T1}{yv1d}{uc}{n}{}
719 \installfontas{yv1dd8tu}{T1}{yv1d}{l}{n}{}

```

TS1/yv1 (*font fam.*) Installation:install with TS1 encoding for extra glyphs through textcomp

```

720 \installfamily{TS1}{yv1}{}
721 \installfont{yv1r8c}{t1-yv1r,ts1-yv1r,textcomp}{ts1-euro}{TS1}{yv1}{m}{n}{}
722 \installfont{yv1ri8c}{t1-yv1ri,ts1-yv1ri,textcomp}{ts1-euro}{TS1}{yv1}{m}{it}{}

```

Installation:repeat for bold sans fonts

```

723 \installfont{yv1b8c}{t1-yv1b,ts1-yv1b,textcomp}{ts1-euro}{TS1}{yv1}{b}{n}{}
724 \installfont{yv1bi8c}{t1-yv1bi,ts1-yv1bi,textcomp}{ts1-euro}{TS1}{yv1}{b}{it}{}
725 \installfont{yv1h8c}{t1-yv1h,ts1-yv1h,textcomp}{ts1-euro}{TS1}{yv1}{eb}{n}{}
726 \installfont{yv1ho8c}{t1-yv1ho,ts1-yv1ho,textcomp}{ts1-euro}{TS1}{yv1}{eb}{sl}{}
727 \installfontas{yv1ho8c}{TS1}{yv1}{eb}{it}{}

```

Installation:and condensed widths sans

```

728 \installfont{yv1r8cc}{t1-yv1r-c,ts1-yv1r-c,textcomp}{ts1-euro}{TS1}{yv1}{c}{n}{}
729 \installfont{yv1ri8cc}{t1-yv1ri-c,ts1-yv1ri-c,textcomp}{ts1-euro}{TS1}{yv1}{c}{it}{}

```

Installation:and bold condensed sans

```

730 \installfont{yv1b8cc}{t1-yv1b-c,ts1-yv1b-c,textcomp}{ts1-euro}{TS1}{yv1}{bc}{n}{}
731 \installfont{yv1bi8cc}{t1-yv1bi-c,ts1-yv1bi-c,textcomp}{ts1-euro}{TS1}{yv1}{bc}{it}{}

```

Installation:and extended widths sans

```

732 \installfont{yv1r8cx}{t1-yv1r-x,ts1-yv1r-x,textcomp}{ts1-euro}{TS1}{yv1}{x}{n}{}
733 \installfont{yv1ri8cx}{t1-yv1ri-x,ts1-yv1ri-x,textcomp}{ts1-euro}{TS1}{yv1}{x}{it}{}

```

Installation:and bold extended sans

```

734 \installfont{yv1b8cx}{t1-yv1b-x,ts1-yv1b-x,textcomp}{ts1-euro}{TS1}{yv1}{bx}{n}{}
735 \installfont{yv1bi8cx}{t1-yv1bi-x,ts1-yv1bi-x,textcomp}{ts1-euro}{TS1}{yv1}{bx}{it}{}
736 \installfontas{yv1bi8cx}{TS1}{yv1}{bx}{sl}{}
737 \installfontas{yv1b8cx}{TS1}{yv1}{bx}{sc}{}
738 \installfontas{yv1b8cx}{TS1}{yv1}{bx}{scit}{}

```

Installation:and the light weight sans

```

739 \installfont{yv1l8c}{t1-yv1l,ts1-yv1l,textcomp}{ts1-euro}{TS1}{yv1}{l}{n}{}
740 \installfont{yv1li8c}{t1-yv1li,ts1-yv1li,textcomp}{ts1-euro}{TS1}{yv1}{l}{it}{}

```

Installation:repeat for bold light sans fonts

```

741 \installfont{yv1d8c}{t1-yv1d,ts1-yv1d,textcomp}{ts1-euro}{TS1}{yv1}{db}{n}{}
742 \installfont{yv1di8c}{t1-yv1di,ts1-yv1di,textcomp}{ts1-euro}{TS1}{yv1}{db}{it}{}

```

TS1/yv1d (*font fam.*) Installation:titling

```

743 \installfamily{TS1}{yv1d}{}
744 \installfont{yv1bd8c}{t1-yv1bd,ts1-yv1bd,textcomp}{ts1-euro}{TS1}{yv1d}{b}{sc}{}
745 \installfontas{yv1bd8c}{TS1}{yv1d}{eb}{sc}{}
746 \installfontas{yv1bd8c}{TS1}{yv1d}{bc}{sc}{}
747 \installfontas{yv1bd8c}{TS1}{yv1d}{db}{sc}{}
748 \installfontas{yv1bd8c}{TS1}{yv1d}{b}{n}{}
749 \installfontas{yv1bd8c}{TS1}{yv1d}{eb}{n}{}
750 \installfontas{yv1bd8c}{TS1}{yv1d}{bc}{n}{}
751 \installfontas{yv1bd8c}{TS1}{yv1d}{db}{n}{}
752 \installfont{yv1dd8cu}{t1-yv1dd-u,ts1-yv1dd-u,textcomp}{ts1-euro}{TS1}{yv1d}{dbuc}{sc}{}
753 \installfontas{yv1dd8cu}{TS1}{yv1d}{x}{sc}{}
754 \installfontas{yv1dd8cu}{TS1}{yv1d}{m}{sc}{}
755 \installfontas{yv1dd8cu}{TS1}{yv1d}{c}{sc}{}
756 \installfontas{yv1dd8cu}{TS1}{yv1d}{uc}{sc}{}
757 \installfontas{yv1dd8cu}{TS1}{yv1d}{l}{sc}{}
758 \installfontas{yv1dd8cu}{TS1}{yv1d}{dbuc}{n}{}
759 \installfontas{yv1dd8cu}{TS1}{yv1d}{x}{n}{}
760 \installfontas{yv1dd8cu}{TS1}{yv1d}{m}{n}{}
761 \installfontas{yv1dd8cu}{TS1}{yv1d}{c}{n}{}
762 \installfontas{yv1dd8cu}{TS1}{yv1d}{uc}{n}{}
763 \installfontas{yv1dd8cu}{TS1}{yv1d}{l}{n}{}

764 \endinstallfonts
765 \endrecordtransforms
766 \bye

```

5.2 Map

This file is compiled to produce the map file fragment updmap needs to install the fonts. It uses files recorded during compilation of the driver.

```
767 \input finstmsc.sty
768 \resetstr{PSfontsuffix}{.pfb}
769 \adddriver{dvips}{yv1.map}
770 \adddriver{pltotf}{yv1-pltotf.sh}
771 \input yv1-rec.tex
772 \donedrivers
773 \bye
```


venturisadf: venturis2

Clea F. Rees*

v2.0 (SVN Rev: 10263) 2024/08/20

Abstract

This file is part of venturisadf. venturisadf.pdf constitutes the main documentation for the package.

6 Example

```
774 \documentclass[12pt]{article}
775 \title{Venturis No2 Example}
776 \author{Cinderella}
777
778 \newcommand{\alphaline}{ABCDEFGHIJKLMNPOQRSTUVWXYZ\abcdefghijklmnopqrstuvwxyz\0123456789\
779 f{}f ff f{}i fi f{}l fl f{}f{}i ffi f{}f{}l ffl \& \texteuro \texttrademark \textcopyright \
780 sphinx of black quartz, judge my vow}%\textcelsius \textnumero \textservicemark}
781 \newcommand{\abc}{ABCDEFGHIJKLMNPOQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz}
782 \newcommand{\digits}{0123456789}
783 \newcommand{\alphatest}{%
784   \begin{flushleft}
785     \textup{upright:\\\alphaline}\\[\smallskipamount]
786     \textit{italics:\\\alphaline}\\
787   \end{flushleft}%
788 }
789
790 \pdfmapfile{-yv2.map}
791 \pdfmapfile{-yvt.map}
792 \pdfmapfile{+yv2.map}
793 \pdfmapfile{+yvt.map}
794 \usepackage{venturis2}
795
796 \begin{document}
797 \maketitle
798 \setlength{\parindent}{0pt}
799
```

*Bug tracker: codeberg.org/cfr/nfssex/issues | Code: codeberg.org/cfr/nfssex | Mirror: github.com/cfr42/nfssex

```

800 \section*{family: yv2}
801
802 This is a serif family with lining figures.
803
804 \subsection*{Regular weight, regular width}
805
806 \alphatest
807
808 \subsection*{Medium weight, regular width}
809
810 {\mbweight\alphatest}
811
812 \subsection*{Bold weight, regular width (no extended)}
813
814 \textbf{\alphatest}
815
816 \subsection*{Heavy weight, regular width}
817
818 {\ebweight\alphatest}
819
820 \subsection*{Regular weight, condensed}
821
822 {\cdwidth\alphatest}
823
824 \subsection*{Bold weight, condensed}
825
826 {\bfseries\cdwidth\alphatest}
827
828 \section*{family: yvtd}
829
830 \textvt{\alphaline}
831 \medskip
832
833 \textvtl{\alphaline}
834
835 \end{document}

```

7 Implementation

7.1 venturis2.sty

venturis2 (*pkg*) This package uses font groups *venturis2* and *venturissans2*.

```

836 \NeedsTeXFormat{LaTeX2e}
837 \RequirePackage{svn-prov}
838 \ProvidesPackageSVN[\filebase.sty]{\Id: venturis2.dtx 10366 2024-09-18 14:25:21Z cfrees $}[v2]
839 \DefineFileInfoSVN[venturisi]
840 \RequirePackage[T1]{fontenc}

```

```
841 \RequirePackage{nfssex-cfr}[2024/01/01]
```

nfssex-cfr provides `\ProcessKeyOptions`, `\IfFormatAtLeastTF` on older kernels.

```
842 \IfFormatAtLeastTF {2020-02-02}{%
```

To get the oldstyle numbers etc. used from TSI, we need to set the subset to 0 or 1. Unfortunately, this means characters missing from the fonts will not use default symbols as fallback, but this seems to be unavoidable.

```
843 \DeclareEncodingSubset{TS1}{yv2}{1}%
844 \DeclareEncodingSubset{TS1}{yv3}{1}%
845 }{%
846 \RequirePackage{textcomp}}
847 \UndeclareTextCommand{\textperthousand}{T1}
848 \ExplSyntaxOn
```

The actual `sty` is ultra simple. Three options of which only two are actually needed. `scale rm` and `scale sf` take factors by which to scale the fonts. These are empty by default, which is equivalent to 1, but more efficient. `scale` is a convenience wrapper which sets both `scale rm` and `scale sf` by a common factor.

```
849 \keys_define:nn { venturis ii }
850 {
```

`scale (opt)` Options for scaling `rm/sf` or both

```
scale rm (opt)
scale sf (opt)
\yvii@scale
\yviii@scale
851 scale rm .tl_set:N = \yvii@scale,
852 scale rm .initial:V = \@empty,
853 scale sf .tl_set:N = \yviii@scale,
854 scale sf .initial:V = \@empty,
855 scale .code:n = {
856 \gdef\yvii@scale{#1}
857 \gdef\yviii@scale{#1}
858 },
859 }
860 \ProcessKeyOptions[venturis ii]
861 \ExplSyntaxOff
```

Make Venturis No2 default for roman text

```
862 \renewcommand{\rmdefault}{yv2}
```

Make Venturis Sans No2 default for sans text

```
863 \renewcommand{\sfdefault}{yv3}
```

`\vtstyle` Introduce special titling commands

```

864 \DeclareRobustCommand{\vtstyle}[1][\relax]{%
865   \edef\vt@shape{#1}%
866   \def\tempo{ol}%
867   \def\temps{yv3}%
868   \def\tempr{yv2}%
869   \not@math@alphabet\vtstyle\relax

```

Because the titling fonts have limited availability, don't use the SET-UP WHICH WON'T WORK WITH VENTURIS2 IN ANY CASE, BUT CHOOSE THE FAMILY EXPLICITLY IN CASE WE'RE CURRENTLY USING SANS OR TYPEWRITER

```

870 \ifx\vt@shape\tempo
871   \fontfamily{yvtd}\fontshape{ol}\selectfont
872 \else
873   \edef\tempf{\expandafter\exfs@get@base\@family\@nil}%
874   \ifx\tempf\temps
875     \fontfamily{yv1d}\selectfont
876   \else
877     \ifx\tempf\tempr
878       \fontfamily{yvtd}\selectfont
879     \else
880       \PackageWarning{venturis.sty}{%
881         \tempf is unknown.
882         This command requires that yv2 or yv3 be active in order to determine whether serif
883         I am going to guess that you want serif titling.
884         If this is wrong, be sure to activate yv3 first or copy and adapt the styling command
885       }%
886       \fontfamily{yvtd}\selectfont
887     \fi
888   \fi
889 \fi
890 }

```

`\textvt` Text font commands

```

\textvtl
891 \DeclareTextFontCommand{\textvt}{\vtstyle}
892 \DeclareTextFontCommand{\textvtl}{\vtstyle[ol]}

893 %% end venturis2.sty

```

The remaining files are not used directly, but are required to generate the files which allow T_EX and L^AT_EX to use the fonts. The sources use fontinst as explained in the (sparse) comments. While you can install these files into a T_EX tree, they are not required for typesetting.

7.2 Driver

The file does all the initial setup of the fonts. It organises the fonts into families, defines shapes and reencodes as required.

```
894 \input fontinst.sty
895 \needsfontinstversion{1.926}
```

Substitutions Bold for bold extended

```
896 \substitutesilent{bx}{b}
897 \substitutesilent{sl}{it}
898 \substitutesilent{scit}{sc}
899 \substitutesilent{scsl}{scit}
900 \substitutesilent{si}{scsl}
901 \substitutesilent{sc}{n}
```

Record transformations for later map file creation

```
902 \recordtransforms{yv2-rec.tex}
```

Allow fonts to be scaled via variable in fd files Also requires fontinst.lua fnttarg as no means to define variable in fontinst

```
903 \declaresize{}{<-> \string\yvii@scale}
```

Transformations : reencode fonts

```
904 \transformfont{t1-yv2r}{\reencodefont{t1-f_f}{\fromafm{yv2r8a}}}
905 \transformfont{t1-yv2ri}{\reencodefont{t1-f_f}{\fromafm{yv2ri8a}}}
906 \transformfont{t1-yv2b}{\reencodefont{t1-f_f}{\fromafm{yv2b8a}}}
907 \transformfont{t1-yv2bi}{\reencodefont{t1-f_f}{\fromafm{yv2bi8a}}}
908 \transformfont{ts1-yv2r}{\reencodefont{ts1-euro}{\fromafm{yv2r8a}}}
909 \transformfont{ts1-yv2ri}{\reencodefont{ts1-euro}{\fromafm{yv2ri8a}}}
910 \transformfont{ts1-yv2b}{\reencodefont{ts1-euro}{\fromafm{yv2b8a}}}
911 \transformfont{ts1-yv2bi}{\reencodefont{ts1-euro}{\fromafm{yv2bi8a}}}
```

Transformations : reencode condensed widths

```
912 \transformfont{t1-yv2r-c}{\reencodefont{t1-f_f}{\fromafm{yv2r8ac}}}
913 \transformfont{t1-yv2ri-c}{\reencodefont{t1-f_f}{\fromafm{yv2ri8ac}}}
914 \transformfont{t1-yv2b-c}{\reencodefont{t1-f_f}{\fromafm{yv2b8ac}}}
915 \transformfont{t1-yv2bi-c}{\reencodefont{t1-f_f}{\fromafm{yv2bi8ac}}}
916 \transformfont{ts1-yv2r-c}{\reencodefont{ts1-euro}{\fromafm{yv2r8ac}}}
917 \transformfont{ts1-yv2ri-c}{\reencodefont{ts1-euro}{\fromafm{yv2ri8ac}}}
918 \transformfont{ts1-yv2b-c}{\reencodefont{ts1-euro}{\fromafm{yv2b8ac}}}
919 \transformfont{ts1-yv2bi-c}{\reencodefont{ts1-euro}{\fromafm{yv2bi8ac}}}
```

Transformations : reencode expanded widths

```
920 \transformfont{t1-yv2m}{\reencodefont{t1-f_f}{\fromafm{yv2m8a}}}
921 \transformfont{t1-yv2mi}{\reencodefont{t1-f_f}{\fromafm{yv2mi8a}}}
922 \transformfont{t1-yv2x}{\reencodefont{t1-f_f}{\fromafm{yv2x8a}}}
923 \transformfont{t1-yv2xi}{\reencodefont{t1-f_f}{\fromafm{yv2xi8a}}}
924 \transformfont{ts1-yv2m}{\reencodefont{ts1-euro}{\fromafm{yv2m8a}}}
925 \transformfont{ts1-yv2mi}{\reencodefont{ts1-euro}{\fromafm{yv2mi8a}}}
926 \transformfont{ts1-yv2x}{\reencodefont{ts1-euro}{\fromafm{yv2x8a}}}
```

```
927 \transformfont{ts1-yv2xi}{\reencodefont{ts1-euro}{\fromafm{yv2xi8a}}}
```

Installation: creation of virtual fonts

```
928 \installfont
```

T1/yv2 (*font fam.*) venturis2

```
929 \installfamily{T1}{yv2}{}
```

```
930 \installfont{yv2r8t}{t1-yv2r,newlatin}{t1-f_f}{T1}{yv2}{m}{n}{}
```

```
931 \installfont{yv2ri8t}{t1-yv2ri,newlatin}{t1-f_f}{T1}{yv2}{m}{it}{}
```

Installation: repeat for bold

```
932 \installfont{yv2b8t}{t1-yv2b,newlatin}{t1-f_f}{T1}{yv2}{b}{n}{}
```

```
933 \installfont{yv2bi8t}{t1-yv2bi,newlatin}{t1-f_f}{T1}{yv2}{b}{it}{}
```

Installation: and condensed widths

```
934 \installfont{yv2r8tc}{t1-yv2r-c,newlatin}{t1-f_f}{T1}{yv2}{c}{n}{}
```

```
935 \installfont{yv2ri8tc}{t1-yv2ri-c,newlatin}{t1-f_f}{T1}{yv2}{c}{it}{}
```

Installation: and bold condensed

```
936 \installfont{yv2b8tc}{t1-yv2b-c,newlatin}{t1-f_f}{T1}{yv2}{bc}{n}{}
```

```
937 \installfont{yv2bi8tc}{t1-yv2bi-c,newlatin}{t1-f_f}{T1}{yv2}{bc}{it}{}
```

Installation: semi-bold

```
938 \installfont{yv2m8t}{t1-yv2m,newlatin}{t1-f_f}{T1}{yv2}{sb}{n}{}
```

```
939 \installfont{yv2mi8t}{t1-yv2mi,newlatin}{t1-f_f}{T1}{yv2}{sb}{it}{}
```

Installation: and bold expanded

```
940 \installfont{yv2x8t}{t1-yv2x,newlatin}{t1-f_f}{T1}{yv2}{eb}{n}{}
```

```
941 \installfont{yv2xi8t}{t1-yv2xi,newlatin}{t1-f_f}{T1}{yv2}{eb}{it}{}
```

TS1/yv2 (*font fam.*) Installation: install with TS1 encoding for extra glyphs through textcomp

```
942 \installfamily{TS1}{yv2}{}
```

```
943 \installfont{yv2r8c}{t1-yv2r,ts1-yv2r,textcomp}{ts1-euro}{TS1}{yv2}{m}{n}{}
```

```
944 \installfont{yv2ri8c}{t1-yv2ri,ts1-yv2ri,textcomp}{ts1-euro}{TS1}{yv2}{m}{it}{}
```

Installation: repeat for bold fonts

```
945 \installfont{yv2b8c}{t1-yv2b,ts1-yv2b,textcomp}{ts1-euro}{TS1}{yv2}{b}{n}{}
```

```
946 \installfont{yv2bi8c}{t1-yv2bi,ts1-yv2bi,textcomp}{ts1-euro}{TS1}{yv2}{b}{it}{}
```

Installation: and condensed widths

```
947 \installfont{yv2r8cc}{t1-yv2r-c,ts1-yv2r-c,textcomp}{ts1-euro}{TS1}{yv2}{c}{n}{}
```

```
948 \installfont{yv2ri8cc}{t1-yv2ri-c,ts1-yv2ri-c,textcomp}{ts1-euro}{TS1}{yv2}{c}{it}{}
```

Installation: and bold condensed

```
949 \installfont{yv2b8cc}{t1-yv2b-c,ts1-yv2b-c,textcomp}{ts1-euro}{TS1}{yv2}{bc}{n}{}
950 \installfont{yv2bi8cc}{t1-yv2bi-c,ts1-yv2bi-c,textcomp}{ts1-euro}{TS1}{yv2}{bc}{it}{}
```

Installation: semi-bold

```
951 \installfont{yv2m8c}{t1-yv2m,ts1-yv2m,textcomp}{ts1-euro}{TS1}{yv2}{sb}{n}{}
952 \installfont{yv2mi8c}{t1-yv2mi,ts1-yv2mi,textcomp}{ts1-euro}{TS1}{yv2}{sb}{it}{}
```

Installation: and bold expanded

```
953 \installfont{yv2x8c}{t1-yv2x,ts1-yv2x,textcomp}{ts1-euro}{TS1}{yv2}{eb}{n}{}
954 \installfont{yv2xi8c}{t1-yv2xi,ts1-yv2xi,textcomp}{ts1-euro}{TS1}{yv2}{eb}{it}{}
```

Finish up

```
955 \endinstallfonts
956 \endrecordtransforms
957 \bye
```

7.3 Map

This file is compiled to produce the map file fragment updmap needs to install the fonts. It uses files recorded during compilation of the driver.

```
958 \input finstmsc.sty
959 \resetstr{PSfontsuffix}{.pfb}
960 \adddriver{dvips}{yv2.map}
961 \adddriver{pltotf}{yv2-pltotf.sh}
962 \input yv2-rec.tex
963 \donedrivers
964 \bye
```

venturisadf: venturissans2

Clea F. Rees*

v2.0 (SVN Rev: 10263) 2024/08/20

Abstract

This file is part of venturisadf. venturisadf.pdf constitutes the main documentation for the package.

8 Example

```
965 \documentclass[12pt]{article}
966 \title{Venturis Sans No2 Example}
967 \author{The Three Bears --- \textit{Claws Three}}
968
969 \newcommand{\alphaline}{ABCDEFGHIJKLMNOPQRSTUVWXYZ\abcdefghijklmnopqrstuvwxyz\0123456789\
970 f{}f ff f{}i fi f{}l fl f{}f{}i ffi f{}f{}l ffl \& \texteuro \texttrademark \textcopyright \
971 sphinx of black quartz, judge my vow}\textcelsius \textnumero \textservicemark}
972 \newcommand{\abc}{ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz}
973 \newcommand{\digits}{0123456789}
974 \newcommand{\alphatest}{%
975   \begin{flushleft}
976     \textup{upright:\\\alphaline}\\\[\smallskipamount]
977     \textit{italics:\\\alphaline}\\\
978   \end{flushleft}%
979 }
980
981 \pdfmapfile{-yv3.map}
982 \pdfmapfile{-yv2.map}
983 \pdfmapfile{-yv1.map}
984 \pdfmapfile{+yv3.map}
985 \pdfmapfile{+yv2.map}
986 \pdfmapfile{+yv1.map}
987 \usepackage{venturis2}
988
989 \begin{document}
990 \maketitle
```

*Bug tracker: codeberg.org/cfr/nfssex/issues | Code: codeberg.org/cfr/nfssex | Mirror: github.com/cfr42/nfssex


```
991 \setlength{\parindent}{0pt}
992
993 \sffamily
994
995 \section*{family: yv3}
996
997 This is a sans-serif font with lining figures.
998
999 \subsection*{Regular weight, regular width}
1000
1001 \alphatest
1002
1003 \subsection*{Bold series (bold weight, extended)}
1004
1005 \textbf{\alphatest}
1006
1007 \subsection*{Regular weight, condensed}
1008
1009 {\cdwidth\alphatest}
1010
1011 \subsection*{Bold weight, condensed}
1012
1013 {\bfseries\cdwidth\alphatest}
1014
1015 \subsection*{Regular weight, expanded}
1016
1017 {\etwidth\alphatest}
1018
1019 \subsection*{Bold weight, regular width (selected directly)}
1020
1021 {\fontseries{b}\selectfont\alphatest}
1022
1023 \section*{family: yv1d}
1024
1025 The fonts include uppercase, small-caps and lining figures.
1026 \medskip
1027
1028 \textvt{\alphaline}
1029 \medskip
1030
1031 \textbf{\textvt{\alphaline}}
1032
1033 \end{document}
1034
```

9 Implementation

venturis2.sty is included in venturis2.dtx and listed in venturis2.pdf. Consult those files for details of the package support.

The remaining files are not used directly, but are required to generate the files which allow T_EX and L_AT_EX to use the fonts. The sources use fontinst as explained in the (sparse) comments. While you can install these files into a T_EX tree, they are not required for typesetting.

9.1 Driver

The file does all the initial setup of the fonts. It organises the fonts into families, defines shapes and reencodes as required.

```
1035 \input fontinst.sty
1036 \needsfontinstversion{1.926}
```

Substitutions Bold for bold extended

```
1037 \substitutesilent{sl}{it}
1038 \substitutesilent{scit}{sc}
1039 \substitutesilent{scsl}{scit}
1040 \substitutesilent{si}{scsl}
1041 \substitutesilent{sc}{n}
```

Record transformations for later map file creation

```
1042 \recordtransforms{yv3-rec.tex}
```

Allow fonts to be scaled via variable in fd files Also requires fontinst.lua fnttarg as no means to define variable in fontinst

```
1043 \declaresize{}{<-> \string\yviii@scale}
```

Transformations : reencode fonts

```
1044 \transformfont{t1-yv3r}{\reencodefont{t1-f_f}{\fromafm{yv3r8a}}}
1045 \transformfont{t1-yv3ri}{\reencodefont{t1-f_f}{\fromafm{yv3ri8a}}}
1046 \transformfont{t1-yv3b}{\reencodefont{t1-f_f}{\fromafm{yv3b8a}}}
1047 \transformfont{t1-yv3bi}{\reencodefont{t1-f_f}{\fromafm{yv3bi8a}}}
1048 \transformfont{t1-yv3r-c}{\reencodefont{t1-f_f}{\fromafm{yv3r8ac}}}
1049 \transformfont{t1-yv3ri-c}{\reencodefont{t1-f_f}{\fromafm{yv3ri8ac}}}
1050 \transformfont{t1-yv3b-c}{\reencodefont{t1-f_f}{\fromafm{yv3b8ac}}}
1051 \transformfont{t1-yv3bi-c}{\reencodefont{t1-f_f}{\fromafm{yv3bi8ac}}}
1052 \transformfont{t1-yv3r-x}{\reencodefont{t1-f_f}{\fromafm{yv3r8ax}}}
1053 \transformfont{t1-yv3ri-x}{\reencodefont{t1-f_f}{\fromafm{yv3ri8ax}}}
1054 \transformfont{t1-yv3b-x}{\reencodefont{t1-f_f}{\fromafm{yv3b8ax}}}
1055 \transformfont{t1-yv3bi-x}{\reencodefont{t1-f_f}{\fromafm{yv3bi8ax}}}
1056 \transformfont{ts1-yv3r}{\reencodefont{ts1-euro}{\fromafm{yv3r8a}}}
```

```

1057 \transformfont{ts1-yv3ri}{\reencodefont{ts1-euro}{\fromafm{yv3ri8a}}}
1058 \transformfont{ts1-yv3b}{\reencodefont{ts1-euro}{\fromafm{yv3b8a}}}
1059 \transformfont{ts1-yv3bi}{\reencodefont{ts1-euro}{\fromafm{yv3bi8a}}}
1060 \transformfont{ts1-yv3r-c}{\reencodefont{ts1-euro}{\fromafm{yv3r8ac}}}
1061 \transformfont{ts1-yv3ri-c}{\reencodefont{ts1-euro}{\fromafm{yv3ri8ac}}}
1062 \transformfont{ts1-yv3b-c}{\reencodefont{ts1-euro}{\fromafm{yv3b8ac}}}
1063 \transformfont{ts1-yv3bi-c}{\reencodefont{ts1-euro}{\fromafm{yv3bi8ac}}}
1064 \transformfont{ts1-yv3r-x}{\reencodefont{ts1-euro}{\fromafm{yv3r8ax}}}
1065 \transformfont{ts1-yv3ri-x}{\reencodefont{ts1-euro}{\fromafm{yv3ri8ax}}}
1066 \transformfont{ts1-yv3b-x}{\reencodefont{ts1-euro}{\fromafm{yv3b8ax}}}
1067 \transformfont{ts1-yv3bi-x}{\reencodefont{ts1-euro}{\fromafm{yv3bi8ax}}}

```

Installation: creation of virtual fonts

```
1068 \installfonts
```

T1/yv3 (*font fam.*) venturissans2

```

1069 \installfamily{T1}{yv3}{}
1070 \installfont{yv3r8t}{t1-yv3r,newlatin}{t1-f_f}{T1}{yv3}{m}{n}{}
1071 \installfont{yv3ri8t}{t1-yv3ri,newlatin}{t1-f_f}{T1}{yv3}{m}{it}{}

```

Installation: repeat for bold

```

1072 \installfont{yv3b8t}{t1-yv3b,newlatin}{t1-f_f}{T1}{yv3}{b}{n}{}
1073 \installfont{yv3bi8t}{t1-yv3bi,newlatin}{t1-f_f}{T1}{yv3}{b}{it}{}

```

Installation: and condensed widths

```

1074 \installfont{yv3r8tc}{t1-yv3r-c,newlatin}{t1-f_f}{T1}{yv3}{c}{n}{}
1075 \installfont{yv3ri8tc}{t1-yv3ri-c,newlatin}{t1-f_f}{T1}{yv3}{c}{it}{}

```

Installation: extended widths

```

1076 \installfont{yv3r8tx}{t1-yv3r-x,newlatin}{t1-f_f}{T1}{yv3}{x}{n}{}
1077 \installfont{yv3ri8tx}{t1-yv3ri-x,newlatin}{t1-f_f}{T1}{yv3}{x}{it}{}

```

Installation: and bold condensed

```

1078 \installfont{yv3b8tc}{t1-yv3b-c,newlatin}{t1-f_f}{T1}{yv3}{bc}{n}{}
1079 \installfont{yv3bi8tc}{t1-yv3bi-c,newlatin}{t1-f_f}{T1}{yv3}{bc}{it}{}

```

Installation: and bold expanded

```

1080 \installfont{yv3b8tx}{t1-yv3b-x,newlatin}{t1-f_f}{T1}{yv3}{bx}{n}{}
1081 \installfont{yv3bi8tx}{t1-yv3bi-x,newlatin}{t1-f_f}{T1}{yv3}{bx}{it}{}

```

TS1/yv3 (*font fam.*) Installation: install with TS1 encoding for extra glyphs through textcomp

```

1082 \installfamily{TS1}{yv3}{}
1083 \installfont{yv3r8c}{t1-yv3r,ts1-yv3r,textcomp}{ts1-euro}{TS1}{yv3}{m}{n}{}
1084 \installfont{yv3ri8c}{t1-yv3ri,ts1-yv3ri,textcomp}{ts1-euro}{TS1}{yv3}{m}{it}{}

```

Installation: repeat for bold fonts

```
1085 \installfont{yv3b8c}{t1-yv3b,ts1-yv3b,textcomp}{ts1-euro}{TS1}{yv3}{b}{n}{}
1086 \installfont{yv3bi8c}{t1-yv3bi,ts1-yv3bi,textcomp}{ts1-euro}{TS1}{yv3}{b}{it}{}

```

Installation: and condensed widths

```
1087 \installfont{yv3r8c}{t1-yv3r-c,ts1-yv3r-c,textcomp}{ts1-euro}{TS1}{yv3}{c}{n}{}
1088 \installfont{yv3ri8c}{t1-yv3ri-c,ts1-yv3ri-c,textcomp}{ts1-euro}{TS1}{yv3}{c}{it}{}

```

Installation: and bold condensed

```
1089 \installfont{yv3b8cc}{t1-yv3b-c,ts1-yv3b-c,textcomp}{ts1-euro}{TS1}{yv3}{bc}{n}{}
1090 \installfont{yv3bi8cc}{t1-yv3bi-c,ts1-yv3bi-c,textcomp}{ts1-euro}{TS1}{yv3}{bc}{it}{}

```

Installation: expanded widths

```
1091 \installfont{yv3r8cx}{t1-yv3r-x,ts1-yv3r-x,textcomp}{ts1-euro}{TS1}{yv3}{x}{n}{}
1092 \installfont{yv3ri8cx}{t1-yv3ri-x,ts1-yv3ri-x,textcomp}{ts1-euro}{TS1}{yv3}{x}{it}{}

```

Installation: and bold expanded

```
1093 \installfont{yv3b8ccx}{t1-yv3b-x,ts1-yv3b-x,textcomp}{ts1-euro}{TS1}{yv3}{bx}{n}{}
1094 \installfont{yv3bi8ccx}{t1-yv3bi-x,ts1-yv3bi-x,textcomp}{ts1-euro}{TS1}{yv3}{bx}{it}{}

```

Finish up

```
1095 \endinstallfonts
1096 \endrecordtransforms
1097 \bye

```

9.2 Map

This file is compiled to produce the map file fragment updmap needs to install the fonts. It uses files recorded during compilation of the driver.

```
1098 \input finstmsc.sty
1099 \resetstr{PSfontsuffix}{.pfb}
1100 \adddriver{dvips}{yv3.map}
1101 \adddriver{pltotf}{yv3-pltotf.sh}
1102 \input yv3-rec.tex
1103 \donedrivers
1104 \bye

```

venturisadf: venturisold

Clea F. Rees*

v2.0 (SVN Rev: 10263) 2024/08/20

Abstract

This file is part of venturisadf. venturisadf.pdf constitutes the main documentation for the package.

10 Example

```
1105 \documentclass[12pt]{article}
1106 \title{Venturis Old Example}
1107 \author{Postman Pat (\textit{sans} black-and-white cat)}
1108
1109 \newcommand{\alphaline}{ABCDEFGHIJKLMNQPQRSTUVWXYZ\abcdefghijklmnopqrs{}tuvwxyz\0123456789\
1110 f{}f ff f{}i fi f{}l fl f{}f{}i ffi f{}f{}l ffl s{}t st \& \texteuro \texttrademark \textcopy
1111 d d* s s* s+ s+{}t s+t\
1112 sphinx of black quartz, judge my vow}% \textcelsius \textnumero \textservicemark}
1113 \newcommand{\abc}{ABCDEFGHIJKLMNQPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz}
1114 \newcommand{\digits}{0123456789}
1115 \newcommand{\alphatest}{%
1116   \begin{flushleft}
1117     \textup{upright shape:\\\alphaline}\\[\smallskipamount]
1118     \textit{italics:\\\alphaline}\\
1119   \end{flushleft}%
1120 }
1121
1122 \pdfmapfile{-yvo.map}
1123 \pdfmapfile{+yvo.map}
1124 \usepackage{venturisold}
1125
1126 \begin{document}
1127 \maketitle
1128 \setlength{\parindent}{0pt}
1129
1130 \section*{family: yvo}
```

*Bug tracker: codeberg.org/cfr/nfssex/issues | Code: codeberg.org/cfr/nfssex | Mirror: github.com/cfr42/nfssex

```

1131
1132 A serif family with oldstyle figures.
1133 \medskip
1134
1135 \alphatest
1136
1137 \textbf{\alphatest}
1138
1139 \section*{family: yvod}
1140
1141 \textvt{\alphaline}
1142
1143 \section*{family: yvoa}
1144
1145 \textalt{\alphatest}
1146
1147 \textalt{\textbf{\alphatest}}
1148
1149 \section*{family: yvoad}
1150
1151 \textalt{\textvt{\alphaline}}
1152
1153 \end{document}

```

11 Implementation

11.1 venturisold.sty

venturisold.sty (*pkg*) This package uses font group venturisold.

```

1154 \NeedsTeXFormat{LaTeX2e}
1155 \RequirePackage{svn-prov}
1156 \ProvidesPackageSVN[\filebase.sty]{$Id: venturisold.dtx 10366 2024-09-18 14:25:21Z cfrees $}[
1157 \DefineFileInfoSVN[venturisold]
1158 \RequirePackage[T1]{fontenc}
1159 \RequirePackage{nfssex-cfr}[2024/01/01]

```

nfssex-cfr provides \ProcessKeyOptions, \IfFormatAtLeastTF on older kernels.

```

1160 \IfFormatAtLeastTF {2020-02-02}{%

```

To get the oldstyle numbers etc. used from TSI, we need to set the subset to 0 or 1. Unfortunately, this means characters missing from the fonts will not use default symbols as fallback, but this seems to be unavoidable.

```

1161 \DeclareEncodingSubset{TS1}{yvo}{1}%
1162 \DeclareEncodingSubset{TS1}{yvoa}{1}%
1163 \DeclareEncodingSubset{TS1}{yvod}{1}%
1164 \DeclareEncodingSubset{TS1}{yvoad}{1}%

```

```

1165 }{%
1166   \RequirePackage{textcomp}}
1167 \UndeclareTextCommand{\textperthousand}{T1}
1168 \ExplSyntaxOn

```

The actual `sty` is ultra simple. `scale` takes a factor by which to scale the fonts. This is empty by default, which is equivalent to 1, but more efficient.

```

1169 \keys_define:nn { venturisol }
1170 {

```

`scale` (*opt*) Option for scaling

```

\yvo@scale
1171   scale .tl_set:N = \yvo@scale,
1172   scale .initial:V = \@empty,

1173 }
1174 \ProcessKeyOptions[venturisol]
1175 \ExplSyntaxOff

```

Make Venturis Old default for roman text

```

1176 \renewcommand{\rmdefault}{yvo}

```

`\vtstyle` Introduce special titling commands

```

1177 \DeclareRobustCommand{\vtstyle}[1][ ]{%

```

Allow an optional argument for consistency with `venturis.sty`

```

1178   \not@math@alphabet\vtstyle\relax
1179   \fontfamily{yvod}\selectfont}

```

`\textvt` Text font commands

```

\textvt1
1180 \DeclareTextFontCommand{\textvt}{\vtstyle}
1181 \DeclareTextFontCommand{\textvt1}{\vtstyle}

1182 %% end venturis.sty

```

The remaining files are not used directly, but are required to generate the files which allow \TeX and \LaTeX to use the fonts. The sources use `fontinst` as explained in the (sparse) comments. While you can install these files into a \TeX tree, they are not required for typesetting.

11.2 Driver

The file does all the initial setup of the fonts. It organises the fonts into families, defines shapes and reencodes as required.

```
1183 \input fontinst.sty
1184 \needsfontinstversion{1.926}
```

Substitutions Bold for bold extended

```
1185 \substitutesilent{b}{db}
1186 \substitutesilent{bx}{b}
1187 \substitutesilent{m}{bx}
1188 \substitutesilent{sl}{it}
1189 \substitutesilent{scit}{sc}
1190 \substitutesilent{scsl}{scit}
1191 \substitutesilent{si}{scsl}
1192 \substitutenoisy{sc}{n}
```

Record transformations for later map file creation

```
1193 \recordtransforms{yvo-rec.tex}
```

Allow fonts to be scaled via variable in fd files Also requires fontinst.lua fntarg as no means to define variable in fontinst

```
1194 \declaresize{}{<-> \string\yvo@@scale}
```

Transformations : reencode fonts

```
1195 \transformfont{t1-yvor}{\reencodefont{t1-venturisold-longs}{\fromafm{yvor8a}}}
```

Transformations : reencode osf

```
1196 \transformfont{t1-yvori}{\reencodefont{t1-venturisold-longs}{\fromafm{yvori8a}}}
```

Transformations : reencode bold

```
1197 \transformfont{t1-yvob}{\reencodefont{t1-venturisold-longs}{\fromafm{yvob8a}}}
```

Transformations : reencode osf

```
1198 \transformfont{t1-yvobi}{\reencodefont{t1-venturisold-longs}{\fromafm{yvobi8a}}}
```

Transformations : reencode titling

```
1199 \transformfont{t1-yvodd}{\reencodefont{t1-f_f}{\fromafm{yvodd8a}}}
```

Transformations : reencode textcomp

```
1200 \transformfont{ts1-yvor}{\reencodefont{ts1-euro}{\fromafm{yvor8a}}}
1201 \transformfont{ts1-yvori}{\reencodefont{ts1-euro}{\fromafm{yvori8a}}}
1202 \transformfont{ts1-yvob}{\reencodefont{ts1-euro}{\fromafm{yvob8a}}}
1203 \transformfont{ts1-yvobi}{\reencodefont{ts1-euro}{\fromafm{yvobi8a}}}
1204 \transformfont{ts1-yvodd}{\reencodefont{ts1-euro}{\fromafm{yvodd8a}}}
```

Installation: creation of virtual fonts

```
1205 \installfonts
```


T1/yvo (*font fam.*) venturisold

```
1206 \installfamily{T1}{yvo}{}
1207 \installfont{yvor8t}{t1-yvor,newlatin}{t1-venturisold}{T1}{yvo}{m}{n}{}
1208 \installfont{yvori8t}{t1-yvori,newlatin}{t1-venturisold}{T1}{yvo}{m}{it}{}
1209 \installfont{yvob8t}{t1-yvob,newlatin}{t1-venturisold}{T1}{yvo}{b}{n}{}
1210 \installfont{yvobi8t}{t1-yvobi,newlatin}{t1-venturisold}{T1}{yvo}{b}{it}{}

```

T1/yvoa (*font fam.*) Installation: alternates (T1)

```
1211 \installfamily{T1}{yvoa}{}
1212 \installfont{yvoar8t}{t1-yvor,newlatin}{t1-venturisold-longs}{T1}{yvoa}{m}{n}{}
1213 \installfont{yvoari8t}{t1-yvori,newlatin}{t1-venturisold-longs}{T1}{yvoa}{m}{it}{}
1214 \installfont{yvoab8t}{t1-yvob,newlatin}{t1-venturisold-longs}{T1}{yvoa}{b}{n}{}
1215 \installfont{yvoabi8t}{t1-yvobi,newlatin}{t1-venturisold-longs}{T1}{yvoa}{b}{it}{}

```

TS1/yvo (*font fam.*) Installation: install with TS1 encoding for extra glyphs through textcomp

```
1216 \installfamily{TS1}{yvo}{}
1217 \installfont{yvor8c}{t1-yvor,ts1-yvor,t1-yvor suffix oldstyle,textcomp}{ts1-euro}{TS1}{yvo}{}
1218 \installfont{yvori8c}{t1-yvori,ts1-yvori,t1-yvori suffix oldstyle,textcomp}{ts1-euro}{TS1}{yvo}{}
1219 \installfont{yvob8c}{t1-yvob,ts1-yvob,t1-yvob suffix oldstyle,textcomp}{ts1-euro}{TS1}{yvo}{}
1220 \installfont{yvobi8c}{t1-yvobi,ts1-yvobi,t1-yvobi suffix oldstyle,textcomp}{ts1-euro}{TS1}{yvo}{}

```

TS1/yvoa (*font fam.*) Installation: alternates (TS1)

```
1221 \installfamily{TS1}{yvoa}{}
1222 \installfontas{yvor8c}{TS1}{yvoa}{m}{n}{}
1223 \installfontas{yvori8c}{TS1}{yvoa}{m}{it}{}
1224 \installfontas{yvob8c}{TS1}{yvoa}{b}{n}{}
1225 \installfontas{yvobi8c}{TS1}{yvoa}{b}{it}{}

```

T1/yvod (*font fam.*) Installation: titling

```
1226 \installfamily{T1}{yvod}{}
1227 \installfont{yvodd8t}{t1-yvodd,newlatin}{t1-f_f}{T1}{yvod}{db}{sc}{}
1228 \installfontas{yvodd8t}{T1}{yvod}{db}{n}{}

```

T1/yvoad (*font fam.*) Installation: titling for alternate case

```
1229 \installfamily{T1}{yvoad}{}
1230 \installfontas{yvodd8t}{T1}{yvoad}{db}{sc}{}
1231 \installfontas{yvodd8t}{T1}{yvoad}{db}{n}{}

```

TS1/yvod (*font fam.*) Installation: install with TS1 encoding for extra glyphs through textcomp

```
1232 \installfamily{TS1}{yvod}{}
1233 \installfont{yvodd8c}{t1-yvodd,ts1-yvodd,textcomp}{ts1-euro}{TS1}{yvod}{db}{sc}{}
1234 \installfontas{yvodd8c}{TS1}{yvod}{db}{n}{}

```

S1/yvoad (*font fam.*) Installation: for alternate case

```
1235 \installfamily{TS1}{yvoad}{}  
1236 \installfontas{yvodd8c}{TS1}{yvoad}{db}{sc}{}  
1237 \installfontas{yvodd8c}{TS1}{yvoad}{db}{n}{}
```

Finish up

```
1238 \endinstallfonts  
1239 \endrecordtransforms  
1240 \bye
```

11.3 Map

This file is compiled to produce the map file fragment updmap needs to install the fonts. It uses files recorded during compilation of the driver.

```
1241 \input finstmsc.sty  
1242 \resetstr{PSfontsuffix}{.pfb}  
1243 \adddriver{dvips}{yvo.map}  
1244 \adddriver{pltotf}{yvo-pltotf.sh}  
1245 \input yvo-rec.tex  
1246 \donedrivers  
1247 \bye
```

venturisadf: Encodings

Clea F. Rees*

Abstract

This file contains listings for the encodings used by venturisadf. For commentary and documentation, see `venturisadf.pdf`.

12 Implementation

12.1 ETX

These files define variant Tl and TSl font encodings. They are included in `venturisadf-build.dtx`, itemized in `pkgname.pdf` and listed in `venturisadf-build.pdf`.

- `t1-venturis.etx`
- `t1j-venturis.etx`
- `t1-venturisolold.etx`
- `t1-venturisolold-longs.etx`

In addition to these encodings, we use encoding files supplied by `fontinst` and some custom files not included in this package's `dtx` as they are not specific to `venturisadf`. They are, however, part of the package and are itemized in `pkgname.pdf`.

We also use `mtx` files, as explained in section [12.4](#).

12.1.1 t1-venturis

```
1248 %% - Slots are reassigned to accommodate end-of-word swashes. For
1249 %% example, the following characters are missing from this encoding:
1250 %% perthousandzero, Ng and ng, the ligatures IJ and ij, Eth and eth,
1251 %% Thorn and thorn, AE and ae, OE and oe, and the lower-case german
1252 %% double-s. These slots accommodate a number of end-of-word swashes
```

*Bug tracker: codeberg.org/cfr/nfssex/issues | Code: codeberg.org/cfr/nfssex | Mirror: github.com/cfr42/nfssex

```
1253 %% for lower case characters including: a, d, e, g, h, l, m, n, o, r,
1254 %% t, u, z.
1255 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1256 \relax
1257 \encoding
1258
1259 \needsfontinstversion{1.910}
1260
1261 \setcommand\lc#1#2{#2}
1262 \setcommand\uc#1#2{#1}
1263 \setcommand\lctop#1#2{#2}
1264 \setcommand\uctop#1#2{#1}
1265 \setcommand\lclig#1#2{#2}
1266 \ifisint{letterspacing}\then
1267   \ifnumber{\int{letterspacing}}={0}\then \Else
1268     \setcommand\uclig#1#2{#1spaced}
1269     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
1270       you can't see it as \verb|\setcommand| commands are invisible in
1271       the typeset output.}
1272   \Fi
1273 \Fi
1274 \setcommand\uclig#1#2{#1}
1275 \setcommand\digit#1{#1}
1276
1277 \ifisint{monowidth}\then
1278   \setint{ligaturing}{0}
1279 \Else
1280   % The following empty line is *important* to get the formatting
1281   % right here (sigh)! (Remember that it is a \par token.)
1282
1283   \ifisint{letterspacing}\then
1284     \ifnumber{\int{letterspacing}}={0}\then \Else
1285       \setint{ligaturing}{0}
1286     \Fi
1287   \Fi
1288   \setint{ligaturing}{1}
1289 \Fi
1290
1291 \setint{italicslant}{0}
1292 \setint{quad}{1000}
1293 \setint{baselineskip}{1200}
1294
1295 \ifisglyph{x}\then
1296   \setint{xheight}{\height{x}}
1297 \Else
1298   \setint{xheight}{500}
1299 \Fi
1300
1301 \ifisglyph{space}\then
```

```
1302 \setint{interword}{\width{space}}
1303 \Else\ifisglyph{i}\then
1304 \setint{interword}{\width{i}}
1305 \Else
1306 \setint{interword}{333}
1307 \Fi\Fi
1308
1309 \ifisint{monowidth}\then
1310 \setint{stretchword}{0}
1311 \setint{shrinkword}{0}
1312 \setint{extraspace}{\int{interword}}
1313 \Else
1314 \setint{stretchword}{\scale{\int{interword}}{600}}
1315 \setint{shrinkword}{\scale{\int{interword}}{240}}
1316 \setint{extraspace}{\scale{\int{interword}}{240}}
1317 \Fi
1318
1319 \ifisglyph{X}\then
1320 \setint{capheight}{\height{X}}
1321 \Else
1322 \setint{capheight}{750}
1323 \Fi
1324
1325 \ifisglyph{d}\then
1326 \setint{ascender}{\height{d}}
1327 \Else\ifisint{capheight}\then
1328 \setint{ascender}{\int{capheight}}
1329 \Else
1330 \setint{ascender}{750}
1331 \Fi\Fi
1332
1333 \ifisglyph{Aring}\then
1334 \setint{accapheight}{\height{Aring}}
1335 \Else
1336 \setint{accapheight}{999}
1337 \Fi
1338
1339 \ifisint{descender_neg}\then
1340 \setint{descender}{\neg{\int{descender_neg}}}
1341 \Else\ifisglyph{p}\then
1342 \setint{descender}{\depth{p}}
1343 \Else
1344 \setint{descender}{250}
1345 \Fi\Fi
1346
1347 \ifisglyph{Aring}\then
1348 \setint{maxheight}{\height{Aring}}
1349 \Else
1350 \setint{maxheight}{1000}
```

```
1351 \Fi
1352
1353 \ifisint{maxdepth_neg}\then
1354   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
1355 \Else\ifisglyph{j}\then
1356   \setint{maxdepth}{\depth{j}}
1357 \Else
1358   \setint{maxdepth}{250}
1359 \Fi\Fi
1360
1361 \ifisglyph{six}\then
1362   \setint{digitwidth}{\width{six}}
1363 \Else
1364   \setint{digitwidth}{500}
1365 \Fi
1366
1367 \setint{capstem}{0} % not in AFM files
1368
1369 \setfontdimen{1}{italicslant}      % italic slant
1370 \setfontdimen{2}{interword}      % interword space
1371 \setfontdimen{3}{stretchword}     % interword stretch
1372 \setfontdimen{4}{shrinkword}     % interword shrink
1373 \setfontdimen{5}{xheight}        % x-height
1374 \setfontdimen{6}{quad}           % quad
1375 \setfontdimen{7}{extraspace}     % extra space after .
1376 \setfontdimen{8}{capheight}      % cap height
1377 \setfontdimen{9}{ascender}       % ascender
1378 \setfontdimen{10}{accapheight}   % accented cap height
1379 \setfontdimen{11}{descender}     % descender's depth
1380 \setfontdimen{12}{maxheight}     % max height
1381 \setfontdimen{13}{maxdepth}      % max depth
1382 \setfontdimen{14}{digitwidth}    % digit width
1383 \setfontdimen{15}{verticalstem}  % dominant width of verical stems
1384 \setfontdimen{16}{baselineskip}  % baselineskip
1385
1386 \ifnumber{\int{ligaturing}}<{0}\then
1387   \comment{In this case, the codingscheme can be different from the
1388     default, and therefore we refrain from setting it.}
1389 \Else
1390   \setstr{codingscheme}{EXTENDED TEX ENC - VENTURIS END}
1391 \Fi
1392
1393 \setslot{\lc{Grave}{grave}}
1394   \comment{The grave accent '\{'}'.}
1395 \endsetslot
1396
1397 \setslot{\lc{Acute}{acute}}
1398   \comment{The acute accent '\{'}'.}
1399 \endsetslot
```

```
1400
1401 \setslot{\lc{Circumflex}{circumflex}}
1402   \comment{The circumflex accent '\^{}}'.}
1403 \endsetslot
1404
1405 \setslot{\lc{Tilde}{tilde}}
1406   \comment{The tilde accent '\~{}}'.}
1407 \endsetslot
1408
1409 \setslot{\lc{Dieresis}{dieresis}}
1410   \comment{The umlaut or dieresis accent '\"{}'}.}
1411 \endsetslot
1412
1413 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
1414   \comment{The long Hungarian umlaut '\H{}}'.}
1415 \endsetslot
1416
1417 \setslot{\lc{Ring}{ring}}
1418   \comment{The ring accent '\r{}}'.}
1419 \endsetslot
1420
1421 \setslot{\lc{Caron}{caron}}
1422   \comment{The caron or h\`a\ v cek accent '\v{}}'.}
1423 \endsetslot
1424
1425 \setslot{\lc{Breve}{breve}}
1426   \comment{The breve accent '\u{}}'.}
1427 \endsetslot
1428
1429 \setslot{\lc{Macron}{macron}}
1430   \comment{The macron accent '\={}}'.}
1431 \endsetslot
1432
1433 \setslot{\lc{Dotaccent}{dotaccent}}
1434   \comment{The dot accent '\.{}'}.}
1435 \endsetslot
1436
1437 \setslot{\lc{Cedilla}{cedilla}}
1438   \comment{The cedilla accent '\c {}'}.}
1439 \endsetslot
1440
1441 \setslot{\lc{Ogonek}{ogonek}}
1442   \comment{The ogonek accent '\k {}'}.}
1443 \endsetslot
1444
1445 \setslot{quotesinglbase}
1446   \comment{A German single quote mark '\quotesinglbase' similar to a comma,
1447     but with different sidebearings.}
1448 \endsetslot
```

```
1449
1450 \setslot{guilsinglleft}
1451   \comment{A French single opening quote mark ‘\guilsinglleft’,
1452           unavailable in \plain\ \TeX.}
1453 \endsetslot
1454
1455 \setslot{guilsinglright}
1456   \comment{A French single closing quote mark ‘\guilsinglright’,
1457           unavailable in \plain\ \TeX.}
1458 \endsetslot
1459
1460 \setslot{quotedblleft}
1461   \comment{The English opening quote mark ‘\, \textquotedblleft\,’.}
1462 \endsetslot
1463
1464 \setslot{quotedblright}
1465   \comment{The English closing quote mark ‘\, \textquotedblright\,’.}
1466 \endsetslot
1467
1468 \setslot{quotedblbase}
1469   \comment{A German double quote mark ‘\quotedblbase’ similar to two commas,
1470           but with tighter letterspacing and different sidebearings.}
1471 \endsetslot
1472
1473 \setslot{guillemotleft}
1474   \comment{A French double opening quote mark ‘\guillemotleft’,
1475           unavailable in \plain\ \TeX.}
1476 \endsetslot
1477
1478 \setslot{guillemotright}
1479   \comment{A French closing opening quote mark ‘\guillemotright’,
1480           unavailable in \plain\ \TeX.}
1481 \endsetslot
1482
1483 \setslot{endash}
1484   \ligature{LIG}{hyphen}{emdash}
1485   \comment{The number range dash ‘1--9’. This is called ‘rangedash’ by fontinst’s t1.etx, but
1486           might be set as ‘\texttt{1{-}9}’.}
1487 \endsetslot
1488
1489 \setslot{emdash}
1490   \comment{The punctuation dash ‘Oh---boy.’ This is calle ‘punctdash’ by fontinst’s t1.etx, but
1491           might be set as ‘\texttt{Oh{-}{-}boy.’}
1492 \endsetslot
1493
1494 \setslot{compwordmark}
1495   \comment{An invisible glyph, with zero width and depth, but the
1496           height of lowercase letters without ascenders.
1497           It is used to stop ligaturing in words like ‘shelf{}ful’.
```



```
1498 \endsetslot
1499
1500 \setrightboundary{bound}
1501
1502 \setslot{\lc{dotlessI}{dotlessi}}
1503   \comment{A dotless i ‘\i’, used to produce accented letters such as
1504     ‘\=\i’ .}
1505 \endsetslot
1506
1507 \setslot{\lc{dotlessJ}{dotlessj}}
1508   \comment{A dotless j ‘\j’, used to produce accented letters such as
1509     ‘\=\j’. Most non-TeX fonts do not have this glyph.}
1510 \endsetslot
1511
1512 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
1513
1514 \setslot{\lclig{FF}{f_f}}
1515   \ifnumber{\int{ligaturing}}>{0}\then
1516     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{f_f_i}}
1517     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{f_f_l}}
1518   \Fi
1519   \comment{The ‘ff’ ligature. It should be two characters wide in a
1520     monowidth font.}
1521 \endsetslot
1522
1523 \setslot{\lclig{FI}{fi}}
1524   \comment{The ‘fi’ ligature. It should be two characters wide in a
1525     monowidth font.}
1526 \endsetslot
1527
1528 \setslot{\lclig{FL}{fl}}
1529   \comment{The ‘fl’ ligature. It should be two characters wide in a
1530     monowidth font.}
1531 \endsetslot
1532
1533 \setslot{\lclig{FFI}{f_f_i}}
1534   \comment{The ‘ffi’ ligature. It should be three characters wide in a
1535     monowidth font.}
1536 \endsetslot
1537
1538 \setslot{\lclig{FFL}{f_f_l}}
1539   \comment{The ‘ffl’ ligature. It should be three characters wide in a
1540     monowidth font.}
1541 \endsetslot
1542
1543 \Fi
1544
1545 \setslot{visiblespace}
1546   \comment{A visible space glyph ‘\textvisiblespace’ .}
```

```
1547 \endsetslot
1548
1549 \setslot{exclam}
1550   \ligature[LIG]{quoteleft}{exclamdown}
1551   \comment{The exclamation mark '!'.}
1552 \endsetslot
1553
1554 \setslot{quotedbl}
1555   \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
1556           included for use in monowidth fonts, or for setting computer
1557           programs. Note that the inclusion of this glyph in this slot
1558           means that \TeX\ documents which used '{\tt\char"\}' as an
1559           input character will no longer work.}
1560 \endsetslot
1561
1562 \setslot{numbersign}
1563   \comment{The hash sign '\#'.}
1564 \endsetslot
1565
1566 \setslot{dollar}
1567   \comment{The dollar sign '\$'.}
1568 \endsetslot
1569
1570 \setslot{percent}
1571   \comment{The percent sign '\%'.}
1572 \endsetslot
1573
1574 \setslot{ampersand}
1575   \comment{The ampersand sign '\&'.}
1576 \endsetslot
1577
1578 \setslot{quoteright}
1579   \ligature[LIG]{quoteright}{quotedblright}
1580   \comment{The English closing single quote mark '\,\textquoteright\,'.}
1581 \endsetslot
1582
1583 \setslot{parenleft}
1584   \comment{The opening parenthesis '(''.}
1585 \endsetslot
1586
1587 \setslot{parenright}
1588   \comment{The closing parenthesis ')''.}
1589 \endsetslot
1590
1591 \setslot{asterisk}
1592   \comment{The raised asterisk '*'.}
1593 \endsetslot
1594
1595 \setslot{plus}
```

```
1596 \comment{The addition sign '+' .}
1597 \endsetslot
1598
1599 \setslot{comma}
1600 \ligature[LIG]{comma}{quotedblbase}
1601 \comment{The comma ',' .}
1602 \endsetslot
1603
1604 \setslot{hyphen}
1605 \ligature[LIG]{hyphen}{endash}
1606 \ligature[LIG]{hyphenchar}{hyphenchar}
1607 \comment{The hyphen '-' .}
1608 \endsetslot
1609
1610 \setslot{period}
1611 \comment{The period '.' .}
1612 \endsetslot
1613
1614 \setslot{slash}
1615 \comment{The forward oblique '/' .}
1616 \endsetslot
1617
1618 \setslot{\digit{zero}}
1619 \comment{The number '0'. This (and all the other numerals) may be
1620 old style or ranging digits .}
1621 \endsetslot
1622
1623 \setslot{\digit{one}}
1624 \comment{The number '1' .}
1625 \endsetslot
1626
1627 \setslot{\digit{two}}
1628 \comment{The number '2' .}
1629 \endsetslot
1630
1631 \setslot{\digit{three}}
1632 \comment{The number '3' .}
1633 \endsetslot
1634
1635 \setslot{\digit{four}}
1636 \comment{The number '4' .}
1637 \endsetslot
1638
1639 \setslot{\digit{five}}
1640 \comment{The number '5' .}
1641 \endsetslot
1642
1643 \setslot{\digit{six}}
1644 \comment{The number '6' .}
```

```
1645 \endsetslot
1646
1647 \setslot{\digit{seven}}
1648   \comment{The number '7'.}
1649 \endsetslot
1650
1651 \setslot{\digit{eight}}
1652   \comment{The number '8'.}
1653 \endsetslot
1654
1655 \setslot{\digit{nine}}
1656   \comment{The number '9'.}
1657 \endsetslot
1658
1659 \setslot{colon}
1660   \comment{The colon punctuation mark ':'}.}
1661 \endsetslot
1662
1663 \setslot{semicolon}
1664   \comment{The semi-colon punctuation mark ';'}.}
1665 \endsetslot
1666
1667 \setslot{less}
1668   \ligature{LIG}{less}{guillemotleft}
1669   \comment{The less-than sign '\textless'}.}
1670 \endsetslot
1671
1672 \setslot{equal}
1673   \comment{The equals sign '='}.}
1674 \endsetslot
1675
1676 \setslot{greater}
1677   \ligature{LIG}{greater}{guillemotright}
1678   \comment{The greater-than sign '\textgreater'}.}
1679 \endsetslot
1680
1681 \setslot{question}
1682   \ligature{LIG}{quoteleft}{questiondown}
1683   \comment{The question mark '?'}.}
1684 \endsetslot
1685
1686 \setslot{at}
1687   \comment{The at sign '@'}.}
1688 \endsetslot
1689
1690 \setslot{\uc{A}{a}}
1691   \comment{The letter '{A}'}.}
1692 \endsetslot
1693
```

```
1694 \setslot{\uc{B}{b}}
1695   \comment{The letter '{B}'.}
1696 \endsetslot
1697
1698 \setslot{\uc{C}{c}}
1699   \comment{The letter '{C}'.}
1700 \endsetslot
1701
1702 \setslot{\uc{D}{d}}
1703   \comment{The letter '{D}'.}
1704 \endsetslot
1705
1706 \setslot{\uc{E}{e}}
1707   \comment{The letter '{E}'.}
1708 \endsetslot
1709
1710 \setslot{\uc{F}{f}}
1711   \comment{The letter '{F}'.}
1712 \endsetslot
1713
1714 \setslot{\uc{G}{g}}
1715   \comment{The letter '{G}'.}
1716 \endsetslot
1717
1718 \setslot{\uc{H}{h}}
1719   \comment{The letter '{H}'.}
1720 \endsetslot
1721
1722 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1723
1724 \setslot{\uc{I}{i}}
1725   \comment{The letter '{I}'.}
1726 \endsetslot
1727
1728 \Fi
1729
1730 \setslot{\uc{J}{j}}
1731   \comment{The letter '{J}'.}
1732 \endsetslot
1733
1734 \setslot{\uc{K}{k}}
1735   \comment{The letter '{K}'.}
1736 \endsetslot
1737
1738 \setslot{\uc{L}{l}}
1739   \comment{The letter '{L}'.}
1740 \endsetslot
1741
1742 \setslot{\uc{M}{m}}
```

```
1743 \comment{The letter '{M}'.}
1744 \endsetslot
1745
1746 \setslot{\uc{N}{n}}
1747 \comment{The letter '{N}'.}
1748 \endsetslot
1749
1750 \setslot{\uc{O}{o}}
1751 \comment{The letter '{O}'.}
1752 \endsetslot
1753
1754 \setslot{\uc{P}{p}}
1755 \comment{The letter '{P}'.}
1756 \endsetslot
1757
1758 \setslot{\uc{Q}{q}}
1759 \comment{The letter '{Q}'.}
1760 \endsetslot
1761
1762 \setslot{\uc{R}{r}}
1763 \comment{The letter '{R}'.}
1764 \endsetslot
1765
1766 \setslot{\uc{S}{s}}
1767 \comment{The letter '{S}'.}
1768 \endsetslot
1769
1770 \setslot{\uc{T}{t}}
1771 \comment{The letter '{T}'.}
1772 \endsetslot
1773
1774 \setslot{\uc{U}{u}}
1775 \comment{The letter '{U}'.}
1776 \endsetslot
1777
1778 \setslot{\uc{V}{v}}
1779 \comment{The letter '{V}'.}
1780 \endsetslot
1781
1782 \setslot{\uc{W}{w}}
1783 \comment{The letter '{W}'.}
1784 \endsetslot
1785
1786 \setslot{\uc{X}{x}}
1787 \comment{The letter '{X}'.}
1788 \endsetslot
1789
1790 \setslot{\uc{Y}{y}}
1791 \comment{The letter '{Y}'.}
```

```
1792 \endsetslot
1793
1794 \setslot{\uc{Z}{z}}
1795   \comment{The letter '{Z}'.}
1796 \endsetslot
1797
1798 \setslot{bracketleft}
1799   \comment{The opening square bracket '['.}
1800 \endsetslot
1801
1802 \setslot{backslash}
1803   \comment{The backwards oblique '\textbackslash'.}
1804 \endsetslot
1805
1806 \setslot{bracketright}
1807   \comment{The closing square bracket ']'.}
1808 \endsetslot
1809
1810 \setslot{asciicircum}
1811   \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
1812           This is included for compatibility with typewriter fonts used
1813           for computer listings.}
1814 \endsetslot
1815
1816 \setslot{underscore}
1817   \comment{The ASCII underline character '\textunderscore', usually
1818           set on the baseline.
1819           This is included for compatibility with typewriter fonts used
1820           for computer listings.}
1821 \endsetslot
1822
1823 \setslot{quoteleft}
1824   \ligature{LIG}{quoteleft}{quotedblleft}
1825   \comment{The English opening single quote mark '\,\textquoteleft\,'.}
1826 \endsetslot
1827
1828 \setslot{\lc{A}{a}}
1829 \ligature{LIG}{bound}{\lc{A.end}{a.end}}
1830   \comment{The letter '{a}'.}
1831 \endsetslot
1832
1833 \setslot{\lc{B}{b}}
1834   \comment{The letter '{b}'.}
1835 \endsetslot
1836
1837 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1838
1839   \setslot{\lc{C}{c}}
1840     \comment{The letter '{c}'.}
```

```
1841 \endsetslot
1842
1843 \Fi
1844
1845 \setslot{\lc{D}{d}}
1846 \comment{The letter '{d}'.}
1847 \ligature{LIG}{bound}{\lc{D.end}{d.end}}
1848 \endsetslot
1849
1850 \setslot{\lc{E}{e}}
1851 \ligature{LIG}{bound}{\lc{E.end}{e.end}}
1852 \comment{The letter '{e}'.}
1853 \endsetslot
1854
1855 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1856
1857 \setslot{\lc{F}{f}}
1858 \ifnumber{\int{ligaturing}}>{0}\then
1859 \ligature{LIG}{\lc{I}{i}}{\lc{lig}{FI}{fi}}
1860 \ligature{LIG}{\lc{F}{f}}{\lc{lig}{FF}{f_f}}
1861 \ligature{LIG}{\lc{L}{l}}{\lc{lig}{FL}{fl}}
1862 \Fi
1863 \comment{The letter '{f}'.}
1864 \endsetslot
1865
1866 \Fi
1867
1868 \setslot{\lc{G}{g}}
1869 \ligature{LIG}{bound}{\lc{G.end}{g.end}}
1870 \comment{The letter '{g}'.}
1871 \endsetslot
1872
1873 \setslot{\lc{H}{h}}
1874 \ligature{LIG}{bound}{\lc{H.end}{h.end}}
1875 \comment{The letter '{h}'.}
1876 \endsetslot
1877
1878 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1879
1880 \setslot{\lc{I}{i}}
1881 \comment{The letter '{i}'.}
1882 \endsetslot
1883
1884 \Fi
1885
1886 \setslot{\lc{J}{j}}
1887 \comment{The letter '{j}'.}
1888 \endsetslot
1889
```



```
1890 \setslot{\lc{K}{k}}
1891   \comment{The letter '{k}'.}
1892 \endsetslot
1893
1894 \setslot{\lc{L}{l}}
1895 \ligature{LIG}{bound}{\lc{L.end}{l.end}}
1896   \comment{The letter '{l}'.}
1897 \endsetslot
1898
1899 \setslot{\lc{M}{m}}
1900 \ligature{LIG}{bound}{\lc{M.end}{m.end}}
1901   \comment{The letter '{m}'.}
1902 \endsetslot
1903
1904 \setslot{\lc{N}{n}}
1905 \ligature{LIG}{bound}{\lc{N.end}{n.end}}
1906   \comment{The letter '{n}'.}
1907 \endsetslot
1908
1909 \setslot{\lc{O}{o}}
1910 \ligature{LIG}{bound}{\lc{O.end}{o.end}}
1911   \comment{The letter '{o}'.}
1912 \endsetslot
1913
1914 \setslot{\lc{P}{p}}
1915   \comment{The letter '{p}'.}
1916 \endsetslot
1917
1918 \setslot{\lc{Q}{q}}
1919   \comment{The letter '{q}'.}
1920 \endsetslot
1921
1922 \setslot{\lc{R}{r}}
1923 \ligature{LIG}{bound}{\lc{R.end}{r.end}}
1924   \comment{The letter '{r}'.}
1925 \endsetslot
1926
1927 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1928
1929   \setslot{\lc{S}{s}}
1930     \comment{The letter '{s}'.}
1931   \endsetslot
1932
1933 \Fi
1934
1935 \setslot{\lc{T}{t}}
1936 \ligature{LIG}{bound}{\lc{T.end}{t.end}}
1937   \comment{The letter '{t}'.}
1938 \endsetslot
```

```
1939
1940 \setslot{\lc{U}{u}}
1941 \ligature{LIG}{bound}{\lc{U.end}{u.end}}
1942   \comment{The letter '{u}'.}
1943 \endsetslot
1944
1945 \setslot{\lc{V}{v}}
1946   \comment{The letter '{v}'.}
1947 \endsetslot
1948
1949 \setslot{\lc{W}{w}}
1950   \comment{The letter '{w}'.}
1951 \endsetslot
1952
1953 \setslot{\lc{X}{x}}
1954   \comment{The letter '{x}'.}
1955 \endsetslot
1956
1957 \setslot{\lc{Y}{y}}
1958   \comment{The letter '{y}'.}
1959 \endsetslot
1960
1961 \setslot{\lc{Z}{z}}
1962 \ligature{LIG}{bound}{\lc{Z.end}{z.end}}
1963   \comment{The letter '{z}'.}
1964 \endsetslot
1965
1966 \setslot{braceleft}
1967   \comment{The opening curly brace '\textbraceleft'.}
1968 \endsetslot
1969
1970 \setslot{bar}
1971   \comment{The ASCII vertical bar '\textbar'.
1972   This is included for compatibility with typewriter fonts used
1973   for computer listings.}
1974 \endsetslot
1975
1976 \setslot{braceright}
1977   \comment{The closing curly brace '\textbraceright'.}
1978 \endsetslot
1979
1980 \setslot{asciitilde}
1981   \comment{The ASCII tilde '\textasciitilde'.
1982   This is included for compatibility with typewriter fonts used
1983   for computer listings.}
1984 \endsetslot
1985
1986 \setslot{hyphenchar}
1987   \comment{The glyph used for hyphenation in this font, which will
```

```
1988     almost always be the same as 'hyphen'.}
1989 \endsetslot
1990
1991 \setslot{\uctop{Abreve}{abreve}}
1992     \comment{The letter '\u A'.}
1993 \endsetslot
1994
1995 \setslot{\uc{Aogonek}{aogonek}}
1996     \comment{The letter '\k A'.}
1997 \endsetslot
1998
1999 \setslot{\uctop{Cacute}{cacute}}
2000     \comment{The letter '\ ' C'.}
2001 \endsetslot
2002
2003 \setslot{\uctop{Ccaron}{ccaron}}
2004     \comment{The letter '\v C'.}
2005 \endsetslot
2006
2007 \setslot{\uctop{Dcaron}{dcaron}}
2008     \comment{The letter '\v D'.}
2009 \endsetslot
2010
2011 \setslot{\uctop{Ecaron}{ecaron}}
2012     \comment{The letter '\v E'.}
2013 \endsetslot
2014
2015 \setslot{\uc{Eogonek}{eogonek}}
2016     \comment{The letter '\k E'.}
2017 \endsetslot
2018
2019 \setslot{\uctop{Gbreve}{gbreve}}
2020     \comment{The letter '\u G'.}
2021 \endsetslot
2022
2023 \setslot{\uctop{Lacute}{lacute}}
2024     \comment{The letter '\ ' L'.}
2025 \endsetslot
2026
2027 \setslot{\uc{Lcaron}{lcaron}}
2028     \comment{The letter '\v L'.}
2029 \endsetslot
2030
2031 \setslot{\uc{Lslash}{lslash}}
2032     \comment{The letter '\L'.}
2033 \endsetslot
2034
2035 \setslot{\uctop{Nacute}{nacute}}
2036     \comment{The letter '\ ' N'.}
```

```
2037 \endsetslot
2038
2039 \setslot{\uctop{Ncaron}{ncaron}}
2040   \comment{The letter '\v N'.}
2041 \endsetslot
2042
2043 \setslot{\lc{A.end}{a.end}}
2044 \endsetslot
2045
2046 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
2047   \comment{The letter '\H O'.}
2048 \endsetslot
2049
2050 \setslot{\uctop{Racute}{racute}}
2051   \comment{The letter '\v R'.}
2052 \endsetslot
2053
2054 \setslot{\uctop{Rcaron}{rcaron}}
2055   \comment{The letter '\v R'.}
2056 \endsetslot
2057
2058 \setslot{\uctop{Sacute}{sacute}}
2059   \comment{The letter '\v S'.}
2060 \endsetslot
2061
2062 \setslot{\uctop{Scaron}{scaron}}
2063   \comment{The letter '\v S'.}
2064 \endsetslot
2065
2066 \setslot{\uc{Scedilla}{scedilla}}
2067   \comment{The letter '\c S'.}
2068 \endsetslot
2069
2070 \setslot{\uctop{Tcaron}{tcaron}}
2071   \comment{The letter '\v T'.}
2072 \endsetslot
2073
2074 \setslot{\uc{Tcedilla}{tcedilla}}
2075   \comment{The letter '\c T'.}
2076 \endsetslot
2077
2078 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
2079   \comment{The letter '\H U'.}
2080 \endsetslot
2081
2082 \setslot{\uctop{Uring}{uring}}
2083   \comment{The letter '\r U'.}
2084 \endsetslot
2085
```

```
2086 \setslot{\uctop{Ydieresis}{ydieresis}}
2087   \comment{The letter ‘\ " Y’ .}
2088 \endsetslot
2089
2090 \setslot{\uctop{Zacute}{zacute}}
2091   \comment{The letter ‘\ ’ Z’ .}
2092 \endsetslot
2093
2094 \setslot{\uctop{Zcaron}{zcaron}}
2095   \comment{The letter ‘\ v Z’ .}
2096 \endsetslot
2097
2098 \setslot{\uctop{Zdotaccent}{zdotaccent}}
2099   \comment{The letter ‘\ . Z’ .}
2100 \endsetslot
2101
2102 \setslot{\lc{N.end}{n.end}}
2103 \endsetslot
2104
2105 \setslot{\uctop{Idotaccent}{idotaccent}}
2106   \comment{The letter ‘\ . I’ .}
2107 \endsetslot
2108
2109 \setslot{\lc{Dbar}{dbar}}
2110   \comment{The letter ‘\ dj’ .}
2111 \endsetslot
2112
2113 \setslot{section}
2114   \comment{The section mark ‘\textsection’ .}
2115 \endsetslot
2116
2117 \setslot{\lctop{Abreve}{abreve}}
2118   \comment{The letter ‘\ u a’ .}
2119 \endsetslot
2120
2121 \setslot{\lc{Aogonek}{aogonek}}
2122   \comment{The letter ‘\ k a’ .}
2123 \endsetslot
2124
2125 \setslot{\lctop{Cacute}{cacute}}
2126   \comment{The letter ‘\ ’ c’ .}
2127 \endsetslot
2128
2129 \setslot{\lctop{Ccaron}{ccaron}}
2130   \comment{The letter ‘\ v c’ .}
2131 \endsetslot
2132
2133 \setslot{\lctop{Dcaron}{dcaron}}
2134   \comment{The letter ‘\ v d’ .}
```

```
2135 \endsetslot
2136
2137 \setslot{\lctop{Ecaron}{ecaron}}
2138   \comment{The letter ‘\v e’..}
2139 \endsetslot
2140
2141 \setslot{\lc{Eogonek}{eogonek}}
2142   \comment{The letter ‘\k e’..}
2143 \endsetslot
2144
2145 \setslot{\lctop{Gbreve}{gbreve}}
2146   \comment{The letter ‘\u g’..}
2147 \endsetslot
2148
2149 \setslot{\lctop{Lacute}{lacute}}
2150   \comment{The letter ‘\’ l’..}
2151 \endsetslot
2152
2153 \setslot{\lc{Lcaron}{lcaron}}
2154   \comment{The letter ‘\v l’..}
2155 \endsetslot
2156
2157 \setslot{\lc{Lslash}{lslash}}
2158   \comment{The letter ‘\l’..}
2159 \endsetslot
2160
2161 \setslot{\lctop{Nacute}{nacute}}
2162   \comment{The letter ‘\’ n’..}
2163 \endsetslot
2164
2165 \setslot{\lctop{Ncaron}{ncaron}}
2166   \comment{The letter ‘\v n’..}
2167 \endsetslot
2168
2169 \setslot{\lc{D.end}{d.end}}
2170 \endsetslot
2171
2172 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
2173   \comment{The letter ‘\H o’..}
2174 \endsetslot
2175
2176 \setslot{\lctop{Racute}{racute}}
2177   \comment{The letter ‘\’ r’..}
2178 \endsetslot
2179
2180 \setslot{\lctop{Rcaron}{rcaron}}
2181   \comment{The letter ‘\v r’..}
2182 \endsetslot
2183
```

```
2184 \setslot{\lctop{Sacute}{sacute}}
2185   \comment{The letter ‘\’ s’ .}
2186 \endsetslot
2187
2188 \setslot{\lctop{Scaron}{scaron}}
2189   \comment{The letter ‘\v s’ .}
2190 \endsetslot
2191
2192 \setslot{\lc{Scedilla}{scedilla}}
2193   \comment{The letter ‘\c s’ .}
2194 \endsetslot
2195
2196 \setslot{\lctop{Tcaron}{tcaron}}
2197   \comment{The letter ‘\v t’ .}
2198 \endsetslot
2199
2200 \setslot{\lc{Tcedilla}{tcedilla}}
2201   \comment{The letter ‘\c t’ .}
2202 \endsetslot
2203
2204 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
2205   \comment{The letter ‘\H u’ .}
2206 \endsetslot
2207
2208 \setslot{\lctop{Uring}{uring}}
2209   \comment{The letter ‘\r u’ .}
2210 \endsetslot
2211
2212 \setslot{\lctop{Ydieresis}{ydieresis}}
2213   \comment{The letter ‘\ " y’ .}
2214 \endsetslot
2215
2216 \setslot{\lctop{Zacute}{zacute}}
2217   \comment{The letter ‘\’ z’ .}
2218 \endsetslot
2219
2220 \setslot{\lctop{Zcaron}{zcaron}}
2221   \comment{The letter ‘\v z’ .}
2222 \endsetslot
2223
2224 \setslot{\lctop{Zdotaccent}{zdotaccent}}
2225   \comment{The letter ‘\ . z’ .}
2226 \endsetslot
2227
2228 \setslot{\lc{O.end}{o.end}}
2229 \endsetslot
2230
2231 \setslot{exclamdown}
2232   \comment{The Spanish punctuation mark ‘!’ .}
```

```
2233 \endsetslot
2234
2235 \setslot{questiondown}
2236   \comment{The Spanish punctuation mark ‘?’ .}
2237 \endsetslot
2238
2239 \setslot{sterling}
2240   \comment{The British currency mark ‘\textsterling’ .}
2241 \endsetslot
2242
2243 \setslot{\uctop{Agrave}{agrave}}
2244   \comment{The letter ‘\` A’ .}
2245 \endsetslot
2246
2247 \setslot{\uctop{Aacute}{aacute}}
2248   \comment{The letter ‘\’ A’ .}
2249 \endsetslot
2250
2251 \setslot{\uctop{Acircumflex}{acircumflex}}
2252   \comment{The letter ‘\^ A’ .}
2253 \endsetslot
2254
2255 \setslot{\uctop{Atilde}{atilde}}
2256   \comment{The letter ‘\~ A’ .}
2257 \endsetslot
2258
2259 \setslot{\uctop{Adieresis}{adieresis}}
2260   \comment{The letter ‘\ " A’ .}
2261 \endsetslot
2262
2263 \setslot{\uctop{Aring}{aring}}
2264   \comment{The letter ‘\r A’ .}
2265 \endsetslot
2266
2267 \setslot{\lc{U.end}{u.end}}
2268 \endsetslot
2269
2270 \setslot{\uc{Ccedilla}{ccedilla}}
2271   \comment{The letter ‘\c C’ .}
2272 \endsetslot
2273
2274 \setslot{\uctop{Egrave}{egrave}}
2275   \comment{The letter ‘\` E’ .}
2276 \endsetslot
2277
2278 \setslot{\uctop{Eacute}{eacute}}
2279   \comment{The letter ‘\’ E’ .}
2280 \endsetslot
2281
```



```
2282 \setslot{\uctop{Ecircumflex}{ecircumflex}}
2283   \comment{The letter ‘ $\hat{E}$ ’ .}
2284 \endsetslot
2285
2286 \setslot{\uctop{Edieresis}{edieresis}}
2287   \comment{The letter ‘ $\"E$ ’ .}
2288 \endsetslot
2289
2290 \setslot{\uctop{Igrave}{igrave}}
2291   \comment{The letter ‘ $\grave{I}$ ’ .}
2292 \endsetslot
2293
2294 \setslot{\uctop{Iacute}{iacute}}
2295   \comment{The letter ‘ $\acute{I}$ ’ .}
2296 \endsetslot
2297
2298 \setslot{\uctop{Icircumflex}{icircumflex}}
2299   \comment{The letter ‘ $\hat{I}$ ’ .}
2300 \endsetslot
2301
2302 \setslot{\uctop{Idieresis}{idieresis}}
2303   \comment{The letter ‘ $\"I$ ’ .}
2304 \endsetslot
2305
2306 \setslot{\lc{H.end}{h.end}}
2307 \endsetslot
2308
2309 \setslot{\uctop{Ntilde}{ntilde}}
2310   \comment{The letter ‘ $\tilde{N}$ ’ .}
2311 \endsetslot
2312
2313 \setslot{\uctop{Ograve}{ograve}}
2314   \comment{The letter ‘ $\grave{O}$ ’ .}
2315 \endsetslot
2316
2317 \setslot{\uctop{Oacute}{oacute}}
2318   \comment{The letter ‘ $\acute{O}$ ’ .}
2319 \endsetslot
2320
2321 \setslot{\uctop{Ocircumflex}{ocircumflex}}
2322   \comment{The letter ‘ $\hat{O}$ ’ .}
2323 \endsetslot
2324
2325 \setslot{\uctop{Otilde}{otilde}}
2326   \comment{The letter ‘ $\tilde{O}$ ’ .}
2327 \endsetslot
2328
2329 \setslot{\uctop{Odieresis}{odieresis}}
2330   \comment{The letter ‘ $\"O$ ’ .}
```

```
2331 \endsetslot
2332
2333 \setslot{\lc{R.end}{r.end}}
2334 \endsetslot
2335
2336 \setslot{\uc{Oslash}{oslash}}
2337   \comment{The letter ‘\O’ .}
2338 \endsetslot
2339
2340 \setslot{\uctop{Ugrave}{ugrave}}
2341   \comment{The letter ‘\‘ U’ .}
2342 \endsetslot
2343
2344 \setslot{\uctop{Uacute}{uacute}}
2345   \comment{The letter ‘\’ U’ .}
2346 \endsetslot
2347
2348 \setslot{\uctop{Ucircumflex}{ucircumflex}}
2349   \comment{The letter ‘\^ U’ .}
2350 \endsetslot
2351
2352 \setslot{\uctop{Udieresis}{udieresis}}
2353   \comment{The letter ‘\¨ U’ .}
2354 \endsetslot
2355
2356 \setslot{\uctop{Yacute}{yacute}}
2357   \comment{The letter ‘\’ Y’ .}
2358 \endsetslot
2359
2360 \setslot{\lc{E.end}{e.end}}
2361 \endsetslot
2362
2363 \setslot{\uclig{SS}{germandbls}}
2364   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’ .}
2365   In a monowidth font it should be two letters wide.}
2366 \endsetslot
2367
2368 \setslot{\lctop{Agrave}{agrave}}
2369   \comment{The letter ‘\‘ a’ .}
2370 \endsetslot
2371
2372 \setslot{\lctop{Aacute}{aacute}}
2373   \comment{The letter ‘\’ a’ .}
2374 \endsetslot
2375
2376 \setslot{\lctop{Acircumflex}{acircumflex}}
2377   \comment{The letter ‘\^ a’ .}
2378 \endsetslot
2379
```

```
2380 \setslot{\lctop{Atilde}{atilde}}
2381   \comment{The letter '~ a'.}
2382 \endsetslot
2383
2384 \setslot{\lctop{Adieresis}{adieresis}}
2385   \comment{The letter " a'.}
2386 \endsetslot
2387
2388 \setslot{\lctop{Aring}{aring}}
2389   \comment{The letter 'r a'.}
2390 \endsetslot
2391
2392 \setslot{\lc{Z.end}{z.end}}
2393 \endsetslot
2394
2395 \setslot{\lc{Ccedilla}{ccedilla}}
2396   \comment{The letter 'c c'.}
2397 \endsetslot
2398
2399 \setslot{\lctop{Egrave}{egrave}}
2400   \comment{The letter '\ e'.}
2401 \endsetslot
2402
2403 \setslot{\lctop{Eacute}{eacute}}
2404   \comment{The letter '\ e'.}
2405 \endsetslot
2406
2407 \setslot{\lctop{Ecircumflex}{ecircumflex}}
2408   \comment{The letter '~ e'.}
2409 \endsetslot
2410
2411 \setslot{\lctop{Edieresis}{edieresis}}
2412   \comment{The letter " e'.}
2413 \endsetslot
2414
2415 \setslot{\lctop{Igrave}{igrave}}
2416   \comment{The letter '\ i'.}
2417 \endsetslot
2418
2419 \setslot{\lctop{Iacute}{iacute}}
2420   \comment{The letter '\ i'.}
2421 \endsetslot
2422
2423 \setslot{\lctop{Icircumflex}{icircumflex}}
2424   \comment{The letter '~ i'.}
2425 \endsetslot
2426
2427 \setslot{\lctop{Idieresis}{idieresis}}
2428   \comment{The letter "\ i'.}
```

```
2429 \endsetslot
2430
2431 \setslot{\lc{L.end}{l.end}}
2432 \endsetslot
2433
2434 \setslot{\lctop{Ntilde}{ntilde}}
2435   \comment{The letter '~ n'.}
2436 \endsetslot
2437
2438 \setslot{\lctop{Ograve}{ograve}}
2439   \comment{The letter ` o'.}
2440 \endsetslot
2441
2442 \setslot{\lctop{Oacute}{oacute}}
2443   \comment{The letter ` o'.}
2444 \endsetslot
2445
2446 \setslot{\lctop{Ocircumflex}{ocircumflex}}
2447   \comment{The letter `^ o'.}
2448 \endsetslot
2449
2450 \setslot{\lctop{Otilde}{otilde}}
2451   \comment{The letter '~ o'.}
2452 \endsetslot
2453
2454 \setslot{\lctop{Odieresis}{odieresis}}
2455   \comment{The letter ` o'.}
2456 \endsetslot
2457
2458 \setslot{\lc{T.end}{t.end}}
2459 \endsetslot
2460
2461 \setslot{\lc{Oslash}{oslash}}
2462   \comment{The letter `o'.}
2463 \endsetslot
2464
2465 \setslot{\lctop{Ugrave}{ugrave}}
2466   \comment{The letter ` u'.}
2467 \endsetslot
2468
2469 \setslot{\lctop{Uacute}{uacute}}
2470   \comment{The letter ` u'.}
2471 \endsetslot
2472
2473 \setslot{\lctop{Ucircumflex}{ucircumflex}}
2474   \comment{The letter `^ u'.}
2475 \endsetslot
2476
2477 \setslot{\lctop{Udieresis}{udieresis}}
```

```
2478 \comment{The letter ‘\” u’ .}
2479 \endsetslot
2480
2481 \setslot{\lctop{Yacute}{yacute}}
2482 \comment{The letter ‘\’ y’ .}
2483 \endsetslot
2484
2485 \setslot{\lc{G.end}{g.end}}
2486 \endsetslot
2487
2488 \setslot{\lc{M.end}{m.end}}
2489 \endsetslot
2490
2491 \endencoding
```

12.1.2 tlj-venturis

```
2492 \relax
2493
2494 \encoding
2495
2496 \setcommand\digit#1{#1oldstyle}
2497
2498 \inputetx{t1-venturis}
2499
2500 \endencoding
```

12.1.3 t1-venturisold

```
2501 %% - f_f, f_f_i and f_f_l replace ff, ffi and ffl.
2502 %% - slots for Eng, eng and perthousandzero, which are missing from the
2503 %% fonts and cannot be faked by fontinst, are reassigned.
2504 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2505
2506 \relax
2507 \encoding
2508
2509 \needsfontinstversion{1.910}
2510
2511 \setcommand\lc#1#2{#2}
2512 \setcommand\uc#1#2{#1}
2513 \setcommand\lctop#1#2{#2}
2514 \setcommand\uctop#1#2{#1}
2515 \setcommand\lclig#1#2{#2}
2516 \ifisint{letterspacing}\then
2517 \ifnumber{\int{letterspacing}}={0}\then \Else
2518 \setcommand\uclig#1#2{#1spaced}
2519 \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
2520 you can’t see it as \verb|\setcommand| commands are invisible in
2521 the typeset output.}
```

```
2522 \Fi
2523 \Fi
2524 \setcommand\uclig#1#2{#1}
2525 \setcommand\digit#1{#1}
2526
2527 \ifisint{monowidth}\then
2528 \setint{ligaturing}{0}
2529 \Else
2530 % The following empty line is *important* to get the formatting
2531 % right here (sigh)! (Remember that it is a \par token.)
2532
2533 \ifisint{letterspacing}\then
2534 \ifnumber{\int{letterspacing}}=0\then \Else
2535 \setint{ligaturing}{0}
2536 \Fi
2537 \Fi
2538 \setint{ligaturing}{1}
2539 \Fi
2540
2541 \setint{italicslant}{0}
2542 \setint{quad}{1000}
2543 \setint{baselineskip}{1200}
2544
2545 \ifisglyph{x}\then
2546 \setint{xheight}{\height{x}}
2547 \Else
2548 \setint{xheight}{500}
2549 \Fi
2550
2551 \ifisglyph{space}\then
2552 \setint{interword}{\width{space}}
2553 \Else\ifisglyph{i}\then
2554 \setint{interword}{\width{i}}
2555 \Else
2556 \setint{interword}{333}
2557 \Fi\Fi
2558
2559 \ifisint{monowidth}\then
2560 \setint{stretchword}{0}
2561 \setint{shrinkword}{0}
2562 \setint{extraspaces}{\int{interword}}
2563 \Else
2564 \setint{stretchword}{\scale{\int{interword}}{600}}
2565 \setint{shrinkword}{\scale{\int{interword}}{240}}
2566 \setint{extraspaces}{\scale{\int{interword}}{240}}
2567 \Fi
2568
2569 \ifisglyph{X}\then
2570 \setint{capheight}{\height{X}}
```

```
2571 \Else
2572   \setint{capheight}{750}
2573 \Fi
2574
2575 \ifisglyph{d}\then
2576   \setint{ascender}{\height{d}}
2577 \Else\ifisint{capheight}\then
2578   \setint{ascender}{\int{capheight}}
2579 \Else
2580   \setint{ascender}{750}
2581 \Fi\Fi
2582
2583 \ifisglyph{Aring}\then
2584   \setint{accapheight}{\height{Aring}}
2585 \Else
2586   \setint{accapheight}{999}
2587 \Fi
2588
2589 \ifisint{descender_neg}\then
2590   \setint{descender}{\neg{\int{descender_neg}}}
2591 \Else\ifisglyph{p}\then
2592   \setint{descender}{\depth{p}}
2593 \Else
2594   \setint{descender}{250}
2595 \Fi\Fi
2596
2597 \ifisglyph{Aring}\then
2598   \setint{maxheight}{\height{Aring}}
2599 \Else
2600   \setint{maxheight}{1000}
2601 \Fi
2602
2603 \ifisint{maxdepth_neg}\then
2604   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
2605 \Else\ifisglyph{j}\then
2606   \setint{maxdepth}{\depth{j}}
2607 \Else
2608   \setint{maxdepth}{250}
2609 \Fi\Fi
2610
2611 \ifisglyph{six}\then
2612   \setint{digitwidth}{\width{six}}
2613 \Else
2614   \setint{digitwidth}{500}
2615 \Fi
2616
2617 \setint{capstem}{0} % not in AFM files
2618
2619 \setfontdimen{1}{italicslant} % italic slant
```

```
2620 \setfontdimen{2}{interword}      % interword space
2621 \setfontdimen{3}{stretchword}    % interword stretch
2622 \setfontdimen{4}{shrinkword}     % interword shrink
2623 \setfontdimen{5}{xheight}        % x-height
2624 \setfontdimen{6}{quad}           % quad
2625 \setfontdimen{7}{extraspace}     % extra space after .
2626 \setfontdimen{8}{capheight}      % cap height
2627 \setfontdimen{9}{ascender}       % ascender
2628 \setfontdimen{10}{accapheight}   % accented cap height
2629 \setfontdimen{11}{descender}     % descender's depth
2630 \setfontdimen{12}{maxheight}     % max height
2631 \setfontdimen{13}{maxdepth}      % max depth
2632 \setfontdimen{14}{digitwidth}    % digit width
2633 \setfontdimen{15}{verticalstem}  % dominant width of verical stems
2634 \setfontdimen{16}{baselineskip}  % baselineskip
2635
2636 \ifnumber{\int{ligaturing}}<{0}\then
2637   \comment{In this case, the codingscheme can be different from the
2638     default, and therefore we refrain from setting it.}
2639 \Else
2640   \setstr{codingscheme}{EXTENDED TEX ENC - VENTURIS OLD}
2641 \Fi
2642
2643 \setslot{\lc{Grave}{grave}}
2644   \comment{The grave accent '\{'}'.}
2645 \endsetslot
2646
2647 \setslot{\lc{Acute}{acute}}
2648   \comment{The acute accent '\{'}'.}
2649 \endsetslot
2650
2651 \setslot{\lc{Circumflex}{circumflex}}
2652   \comment{The circumflex accent '\^{'}'.}
2653 \endsetslot
2654
2655 \setslot{\lc{Tilde}{tilde}}
2656   \comment{The tilde accent '\~{'}'.}
2657 \endsetslot
2658
2659 \setslot{\lc{Dieresis}{dieresis}}
2660   \comment{The umlaut or dieresis accent '\"{'}'.}
2661 \endsetslot
2662
2663 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
2664   \comment{The long Hungarian umlaut '\H{'}'.}
2665 \endsetslot
2666
2667 \setslot{\lc{Ring}{ring}}
2668   \comment{The ring accent '\r{'}'.}
```



```
2669 \endsetslot
2670
2671 \setslot{\lc{Caron}{caron}}
2672   \comment{The caron or h\`a\v cek accent '\v{}}'.}
2673 \endsetslot
2674
2675 \setslot{\lc{Breve}{breve}}
2676   \comment{The breve accent '\u{}}'.}
2677 \endsetslot
2678
2679 \setslot{\lc{Macron}{macron}}
2680   \comment{The macron accent '\={}}'.}
2681 \endsetslot
2682
2683 \setslot{\lc{Dotaccent}{dotaccent}}
2684   \comment{The dot accent '\.{}'}.}
2685 \endsetslot
2686
2687 \setslot{\lc{Cedilla}{cedilla}}
2688   \comment{The cedilla accent '\c {}'}.}
2689 \endsetslot
2690
2691 \setslot{\lc{Ogonek}{ogonek}}
2692   \comment{The ogonek accent '\k {}'}.}
2693 \endsetslot
2694
2695 \setslot{quotesinglbase}
2696   \comment{A German single quote mark '\quotesinglbase' similar to a comma,
2697     but with different sidebearings.}
2698 \endsetslot
2699
2700 \setslot{guilsinglleft}
2701   \comment{A French single opening quote mark '\guilsinglleft',
2702     unavailable in \plain\ \TeX.}
2703 \endsetslot
2704
2705 \setslot{guilsinglright}
2706   \comment{A French single closing quote mark '\guilsinglright',
2707     unavailable in \plain\ \TeX.}
2708 \endsetslot
2709
2710 \setslot{quotedblleft}
2711   \comment{The English opening quote mark '\,\textquotedblleft\,'}.}
2712 \endsetslot
2713
2714 \setslot{quotedblright}
2715   \comment{The English closing quote mark '\,\textquotedblright\,'}.}
2716 \endsetslot
2717
```

```
2718 \setslot{quotedblbase}
2719   \comment{A German double quote mark ‘\quotedblbase’ similar to two commas,
2720     but with tighter letterspacing and different sidebearings.}
2721 \endsetslot
2722
2723 \setslot{guillemotleft}
2724   \comment{A French double opening quote mark ‘\guillemotleft’,
2725     unavailable in \plain\ \TeX.}
2726 \endsetslot
2727
2728 \setslot{guillemotright}
2729   \comment{A French closing opening quote mark ‘\guillemotright’,
2730     unavailable in \plain\ \TeX.}
2731 \endsetslot
2732
2733 \setslot{endash}
2734   \ligature{LIG}{hyphen}{emdash}
2735   \comment{The number range dash ‘1--9’. This is called ‘rangedash’ by fontinst’s t1.etx, but
2736     might be set as ‘\texttt{1{-}9}’ .}
2737 \endsetslot
2738
2739 \setslot{emdash}
2740   \comment{The punctuation dash ‘Oh---boy.’ This is calle ‘punctdash’ by fontinst’s t1.etx, but
2741     might be set as ‘\texttt{Oh{-}{-}boy.}’}
2742 \endsetslot
2743
2744 \setslot{compwordmark}
2745   \comment{An invisible glyph, with zero width and depth, but the
2746     height of lowercase letters without ascenders.
2747     It is used to stop ligaturing in words like ‘shelf{}ful’ .}
2748 \endsetslot
2749
2750 \setslot{\lc{S.alt}{s.alt}}
2751 \endsetslot
2752
2753 \setslot{\lc{dotlessI}{dotlessi}}
2754   \comment{A dotless i ‘\i’, used to produce accented letters such as
2755     ‘\=\i’ .}
2756 \endsetslot
2757
2758 \setslot{\lc{dotlessJ}{dotlessj}}
2759   \comment{A dotless j ‘\j’, used to produce accented letters such as
2760     ‘\=\j’. Most non-\TeX\ fonts do not have this glyph.}
2761 \endsetslot
2762
2763 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
2764
2765 \setslot{\lclig{FF}{f_f}}
2766   \ifnumber{\int{ligaturing}}>{0}\then
```

```
2767     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{f_f_i}}
2768     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{f_f_l}}
2769     \Fi
2770     \comment{The 'ff' ligature. It should be two characters wide in a
2771         monowidth font.}
2772 \endsetslot
2773
2774 \setslot{\lclig{FI}{fi}}
2775     \comment{The 'fi' ligature. It should be two characters wide in a
2776         monowidth font.}
2777 \endsetslot
2778
2779 \setslot{\lclig{FL}{fl}}
2780     \comment{The 'fl' ligature. It should be two characters wide in a
2781         monowidth font.}
2782 \endsetslot
2783
2784 \setslot{\lclig{FFI}{f_f_i}}
2785     \comment{The 'ffi' ligature. It should be three characters wide in a
2786         monowidth font.}
2787 \endsetslot
2788
2789 \setslot{\lclig{FFL}{f_f_l}}
2790     \comment{The 'ffl' ligature. It should be three characters wide in a
2791         monowidth font.}
2792 \endsetslot
2793
2794 \Fi
2795
2796 \setslot{visiblespace}
2797     \comment{A visible space glyph '\textvisiblespace'.}
2798 \endsetslot
2799
2800 \setslot{exclam}
2801     \ligature{LIG}{quoteleft}{exclamdown}
2802     \comment{The exclamation mark '!'.}
2803 \endsetslot
2804
2805 \setslot{quotedbl}
2806     \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
2807         included for use in monowidth fonts, or for setting computer
2808         programs. Note that the inclusion of this glyph in this slot
2809         means that \TeX\ documents which used '{\tt\char'"'} as an
2810         input character will no longer work.}
2811 \endsetslot
2812
2813 \setslot{numbersign}
2814     \comment{The hash sign '\#'.}
2815 \endsetslot
```

```
2816
2817 \setslot{dollar}
2818   \comment{The dollar sign '\$'.}
2819 \endsetslot
2820
2821 \setslot{percent}
2822   \comment{The percent sign '\%'.}
2823 \endsetslot
2824
2825 \setslot{ampersand}
2826   \comment{The ampersand sign '\&'.}
2827 \endsetslot
2828
2829 \setslot{quoteright}
2830   \ligature{LIG}{quoteright}{quotedblright}
2831   \comment{The English closing single quote mark '\,\textquoteright\,'.}
2832 \endsetslot
2833
2834 \setslot{parenleft}
2835   \comment{The opening parenthesis '(''.}
2836 \endsetslot
2837
2838 \setslot{parenright}
2839   \comment{The closing parenthesis ')''.}
2840 \endsetslot
2841
2842 \setslot{asterisk}
2843   \comment{The raised asterisk '*'.}
2844 \endsetslot
2845
2846 \setslot{plus}
2847   \comment{The addition sign '+'.}
2848 \endsetslot
2849
2850 \setslot{comma}
2851   \ligature{LIG}{comma}{quotedblbase}
2852   \comment{The comma ',''.}
2853 \endsetslot
2854
2855 \setslot{hyphen}
2856   \ligature{LIG}{hyphen}{endash}
2857   \ligature{LIG}{hyphenchar}{hyphenchar}
2858   \comment{The hyphen '-'.}
2859 \endsetslot
2860
2861 \setslot{period}
2862   \comment{The period '.''.}
2863 \endsetslot
2864
```

```
2865 \setslot{slash}
2866   \comment{The forward oblique '/' .}
2867 \endsetslot
2868
2869 \setslot{\digit{zero}}
2870   \comment{The number '0'. This (and all the other numerals) may be
2871     old style or ranging digits.}
2872 \endsetslot
2873
2874 \setslot{\digit{one}}
2875   \comment{The number '1' .}
2876 \endsetslot
2877
2878 \setslot{\digit{two}}
2879   \comment{The number '2' .}
2880 \endsetslot
2881
2882 \setslot{\digit{three}}
2883   \comment{The number '3' .}
2884 \endsetslot
2885
2886 \setslot{\digit{four}}
2887   \comment{The number '4' .}
2888 \endsetslot
2889
2890 \setslot{\digit{five}}
2891   \comment{The number '5' .}
2892 \endsetslot
2893
2894 \setslot{\digit{six}}
2895   \comment{The number '6' .}
2896 \endsetslot
2897
2898 \setslot{\digit{seven}}
2899   \comment{The number '7' .}
2900 \endsetslot
2901
2902 \setslot{\digit{eight}}
2903   \comment{The number '8' .}
2904 \endsetslot
2905
2906 \setslot{\digit{nine}}
2907   \comment{The number '9' .}
2908 \endsetslot
2909
2910 \setslot{colon}
2911   \comment{The colon punctuation mark ':' .}
2912 \endsetslot
2913
```

```
2914 \setslot{semicolon}
2915   \comment{The semi-colon punctuation mark ‘;’.}
2916 \endslot
2917
2918 \setslot{less}
2919   \ligature{LIG}{less}{guillemotleft}
2920   \comment{The less-than sign ‘\textless’..}
2921 \endslot
2922
2923 \setslot{equal}
2924   \comment{The equals sign ‘=’..}
2925 \endslot
2926
2927 \setslot{greater}
2928   \ligature{LIG}{greater}{guillemotright}
2929   \comment{The greater-than sign ‘\textgreater’..}
2930 \endslot
2931
2932 \setslot{question}
2933   \ligature{LIG}{quoteleft}{questiondown}
2934   \comment{The question mark ‘?’..}
2935 \endslot
2936
2937 \setslot{at}
2938   \comment{The at sign ‘@’..}
2939 \endslot
2940
2941 \setslot{\uc{A}{a}}
2942   \comment{The letter ‘{A}’..}
2943 \endslot
2944
2945 \setslot{\uc{B}{b}}
2946   \comment{The letter ‘{B}’..}
2947 \endslot
2948
2949 \setslot{\uc{C}{c}}
2950   \comment{The letter ‘{C}’..}
2951 \endslot
2952
2953 \setslot{\uc{D}{d}}
2954   \comment{The letter ‘{D}’..}
2955 \endslot
2956
2957 \setslot{\uc{E}{e}}
2958   \comment{The letter ‘{E}’..}
2959 \endslot
2960
2961 \setslot{\uc{F}{f}}
2962   \comment{The letter ‘{F}’..}
```

```
2963 \endsetslot
2964
2965 \setslot{\uc{G}{g}}
2966   \comment{The letter '{G}'.}
2967 \endsetslot
2968
2969 \setslot{\uc{H}{h}}
2970   \comment{The letter '{H}'.}
2971 \endsetslot
2972
2973 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
2974
2975 \setslot{\uc{I}{i}}
2976   \comment{The letter '{I}'.}
2977 \endsetslot
2978
2979 \Fi
2980
2981 \setslot{\uc{J}{j}}
2982   \comment{The letter '{J}'.}
2983 \endsetslot
2984
2985 \setslot{\uc{K}{k}}
2986   \comment{The letter '{K}'.}
2987 \endsetslot
2988
2989 \setslot{\uc{L}{l}}
2990   \comment{The letter '{L}'.}
2991 \endsetslot
2992
2993 \setslot{\uc{M}{m}}
2994   \comment{The letter '{M}'.}
2995 \endsetslot
2996
2997 \setslot{\uc{N}{n}}
2998   \comment{The letter '{N}'.}
2999 \endsetslot
3000
3001 \setslot{\uc{O}{o}}
3002   \comment{The letter '{O}'.}
3003 \endsetslot
3004
3005 \setslot{\uc{P}{p}}
3006   \comment{The letter '{P}'.}
3007 \endsetslot
3008
3009 \setslot{\uc{Q}{q}}
3010   \comment{The letter '{Q}'.}
3011 \endsetslot
```

```
3012
3013 \setslot{\uc{R}{r}}
3014   \comment{The letter '{R}'.}
3015 \endsetslot
3016
3017 \setslot{\uc{S}{s}}
3018   \comment{The letter '{S}'.}
3019 \endsetslot
3020
3021 \setslot{\uc{T}{t}}
3022   \comment{The letter '{T}'.}
3023 \endsetslot
3024
3025 \setslot{\uc{U}{u}}
3026   \comment{The letter '{U}'.}
3027 \endsetslot
3028
3029 \setslot{\uc{V}{v}}
3030   \comment{The letter '{V}'.}
3031 \endsetslot
3032
3033 \setslot{\uc{W}{w}}
3034   \comment{The letter '{W}'.}
3035 \endsetslot
3036
3037 \setslot{\uc{X}{x}}
3038   \comment{The letter '{X}'.}
3039 \endsetslot
3040
3041 \setslot{\uc{Y}{y}}
3042   \comment{The letter '{Y}'.}
3043 \endsetslot
3044
3045 \setslot{\uc{Z}{z}}
3046   \comment{The letter '{Z}'.}
3047 \endsetslot
3048
3049 \setslot{bracketleft}
3050   \comment{The opening square bracket '['.}
3051 \endsetslot
3052
3053 \setslot{backslash}
3054   \comment{The backwards oblique '\textbackslash'.}
3055 \endsetslot
3056
3057 \setslot{bracketright}
3058   \comment{The closing square bracket ']'.}
3059 \endsetslot
3060
```



```
3061 \setslot{asciicircum}
3062   \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
3063     This is included for compatibility with typewriter fonts used
3064     for computer listings.}
3065 \endsetslot
3066
3067 \setslot{underscore}
3068   \comment{The ASCII underline character '\textunderscore', usually
3069     set on the baseline.
3070     This is included for compatibility with typewriter fonts used
3071     for computer listings.}
3072 \endsetslot
3073
3074 \setslot{quoteleft}
3075   \ligature{LIG}{quoteleft}{quotedblleft}
3076   \comment{The English opening single quote mark '\,\textquoteleft\,'.}
3077 \endsetslot
3078
3079 \setslot{\lc{A}{a}}
3080   \comment{The letter '{a}'.}
3081 \endsetslot
3082
3083 \setslot{\lc{B}{b}}
3084   \comment{The letter '{b}'.}
3085 \endsetslot
3086
3087 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3088
3089   \setslot{\lc{C}{c}}
3090     \comment{The letter '{c}'.}
3091   \endsetslot
3092
3093 \Fi
3094
3095 \setslot{\lc{D}{d}}
3096   \ifnumber{\int{ligaturing}}>{0}\then
3097   \ifisglyph{\lc{D.alt}{d.alt}}\then
3098     \ligature{LIG}{asterisk}{\lc{D.alt}{d.alt}}
3099   \Else
3100     \ligature{LIG}{asterisk}{\lc{D}{d}}
3101   \Fi
3102   \Fi
3103   \comment{The letter '{d}'.}
3104 \endsetslot
3105
3106 \setslot{\lc{E}{e}}
3107   \comment{The letter '{e}'.}
3108 \endsetslot
3109
```

```
3110 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3111
3112   \setslot{\lc{F}{f}}
3113     \ifnumber{\int{ligaturing}}>{0}\then
3114       \ligature{LIG}{\lc{I}{i}}{\lc{FI}{fi}}
3115       \ligature{LIG}{\lc{F}{f}}{\lc{FF}{f_f}}
3116       \ligature{LIG}{\lc{L}{l}}{\lc{FL}{fl}}
3117     \Fi
3118     \comment{The letter '{f}'.}
3119   \endsetslot
3120
3121 \Fi
3122
3123 \setslot{\lc{G}{g}}
3124   \comment{The letter '{g}'.}
3125 \endsetslot
3126
3127 \setslot{\lc{H}{h}}
3128   \comment{The letter '{h}'.}
3129 \endsetslot
3130
3131 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3132
3133   \setslot{\lc{I}{i}}
3134     \comment{The letter '{i}'.}
3135   \endsetslot
3136
3137 \Fi
3138
3139 \setslot{\lc{J}{j}}
3140   \comment{The letter '{j}'.}
3141 \endsetslot
3142
3143 \setslot{\lc{K}{k}}
3144   \comment{The letter '{k}'.}
3145 \endsetslot
3146
3147 \setslot{\lc{L}{l}}
3148   \comment{The letter '{l}'.}
3149 \endsetslot
3150
3151 \setslot{\lc{M}{m}}
3152   \comment{The letter '{m}'.}
3153 \endsetslot
3154
3155 \setslot{\lc{N}{n}}
3156   \comment{The letter '{n}'.}
3157 \endsetslot
3158
```

```
3159 \setslot{\lc{O}{o}}
3160   \comment{The letter '{o}'.}
3161 \endsetslot
3162
3163 \setslot{\lc{P}{p}}
3164   \comment{The letter '{p}'.}
3165 \endsetslot
3166
3167 \setslot{\lc{Q}{q}}
3168   \comment{The letter '{q}'.}
3169 \endsetslot
3170
3171 \setslot{\lc{R}{r}}
3172   \comment{The letter '{r}'.}
3173 \endsetslot
3174
3175 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3176
3177   \setslot{\lc{S}{s}}
3178     \ifnumber{\int{ligaturing}}>{0}\then
3179       \ifisglyph{\lc{S.alt}{s.alt}}\then
3180         \ligature{LIG}{asterisk}{\lc{S.alt}{s.alt}}
3181       \Else
3182         \ligature{LIG}{asterisk}{\lc{S}{s}}
3183     \Fi
3184     \ligature{LIG}{\lc{T}{t}}{\lclig{S_T}{s_t}}
3185     \Fi
3186     \comment{The letter '{s}'.}
3187   \endsetslot
3188
3189 \Fi
3190
3191 \setslot{\lc{T}{t}}
3192   \comment{The letter '{t}'.}
3193 \endsetslot
3194
3195 \setslot{\lc{U}{u}}
3196   \comment{The letter '{u}'.}
3197 \endsetslot
3198
3199 \setslot{\lc{V}{v}}
3200   \comment{The letter '{v}'.}
3201 \endsetslot
3202
3203 \setslot{\lc{W}{w}}
3204   \comment{The letter '{w}'.}
3205 \endsetslot
3206
3207 \setslot{\lc{X}{x}}
```

```
3208 \comment{The letter '{x}'.}
3209 \endsetslot
3210
3211 \setslot{\lc{Y}{y}}
3212 \comment{The letter '{y}'.}
3213 \endsetslot
3214
3215 \setslot{\lc{Z}{z}}
3216 \comment{The letter '{z}'.}
3217 \endsetslot
3218
3219 \setslot{braceleft}
3220 \comment{The opening curly brace '\textbraceleft'.}
3221 \endsetslot
3222
3223 \setslot{bar}
3224 \comment{The ASCII vertical bar '\textbar'.
3225 This is included for compatibility with typewriter fonts used
3226 for computer listings.}
3227 \endsetslot
3228
3229 \setslot{braceright}
3230 \comment{The closing curly brace '\textbraceright'.}
3231 \endsetslot
3232
3233 \setslot{asciitilde}
3234 \comment{The ASCII tilde '\textasciitilde'.
3235 This is included for compatibility with typewriter fonts used
3236 for computer listings.}
3237 \endsetslot
3238
3239 \setslot{hyphenchar}
3240 \comment{The glyph used for hyphenation in this font, which will
3241 almost always be the same as 'hyphen'.}
3242 \endsetslot
3243
3244 \setslot{\uctop{Abreve}{abreve}}
3245 \comment{The letter '\u A'.}
3246 \endsetslot
3247
3248 \setslot{\uc{Aogonek}{aogonek}}
3249 \comment{The letter '\k A'.}
3250 \endsetslot
3251
3252 \setslot{\uctop{Cacute}{cacute}}
3253 \comment{The letter '\ ' C'.}
3254 \endsetslot
3255
3256 \setslot{\uctop{Ccaron}{ccaron}}
```

```
3257 \comment{The letter ‘\v C’ .}
3258 \endsetslot
3259
3260 \setslot{\uctop{Dcaron}{dcaron}}
3261 \comment{The letter ‘\v D’ .}
3262 \endsetslot
3263
3264 \setslot{\uctop{Ecaron}{ecaron}}
3265 \comment{The letter ‘\v E’ .}
3266 \endsetslot
3267
3268 \setslot{\uc{Eogonek}{eogonek}}
3269 \comment{The letter ‘\k E’ .}
3270 \endsetslot
3271
3272 \setslot{\uctop{Gbreve}{gbreve}}
3273 \comment{The letter ‘\u G’ .}
3274 \endsetslot
3275
3276 \setslot{\uctop{Lacute}{lacute}}
3277 \comment{The letter ‘\’ L’ .}
3278 \endsetslot
3279
3280 \setslot{\uc{Lcaron}{lcaron}}
3281 \comment{The letter ‘\v L’ .}
3282 \endsetslot
3283
3284 \setslot{\uc{Lslash}{lslash}}
3285 \comment{The letter ‘\L’ .}
3286 \endsetslot
3287
3288 \setslot{\uctop{Nacute}{nacute}}
3289 \comment{The letter ‘\’ N’ .}
3290 \endsetslot
3291
3292 \setslot{\uctop{Ncaron}{ncaron}}
3293 \comment{The letter ‘\v N’ .}
3294 \endsetslot
3295
3296 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
3297 \setslot{\lclig{S_T}{s_t}}
3298 \endsetslot
3299 \Fi
3300
3301 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
3302 \comment{The letter ‘\H O’ .}
3303 \endsetslot
3304
3305 \setslot{\uctop{Racute}{racute}}
```

```
3306 \comment{The letter ‘\’ R’ .}
3307 \endsetslot
3308
3309 \setslot{\uctop{Rcaron}{rcaron}}
3310 \comment{The letter ‘\v R’ .}
3311 \endsetslot
3312
3313 \setslot{\uctop{Sacute}{sacute}}
3314 \comment{The letter ‘\’ S’ .}
3315 \endsetslot
3316
3317 \setslot{\uctop{Scaron}{scaron}}
3318 \comment{The letter ‘\v S’ .}
3319 \endsetslot
3320
3321 \setslot{\uc{Scedilla}{scedilla}}
3322 \comment{The letter ‘\c S’ .}
3323 \endsetslot
3324
3325 \setslot{\uctop{Tcaron}{tcaron}}
3326 \comment{The letter ‘\v T’ .}
3327 \endsetslot
3328
3329 \setslot{\uc{Tcedilla}{tcedilla}}
3330 \comment{The letter ‘\c T’ .}
3331 \endsetslot
3332
3333 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
3334 \comment{The letter ‘\H U’ .}
3335 \endsetslot
3336
3337 \setslot{\uctop{Uring}{uring}}
3338 \comment{The letter ‘\r U’ .}
3339 \endsetslot
3340
3341 \setslot{\uctop{Ydieresis}{ydieresis}}
3342 \comment{The letter ‘\ " Y’ .}
3343 \endsetslot
3344
3345 \setslot{\uctop{Zacute}{zacute}}
3346 \comment{The letter ‘\’ Z’ .}
3347 \endsetslot
3348
3349 \setslot{\uctop{Zcaron}{zcaron}}
3350 \comment{The letter ‘\v Z’ .}
3351 \endsetslot
3352
3353 \setslot{\uctop{Zdotaccent}{zdotaccent}}
3354 \comment{The letter ‘\ . Z’ .}
```

```
3355 \endsetslot
3356
3357 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
3358
3359   \setslot{\uclig{IJ}{ij}}
3360     \comment{The letter 'IJ'. This is a single letter, and in a
3361       monowidth font should ideally be one letter wide.}
3362   \endsetslot
3363
3364 \Fi
3365
3366 \setslot{\uctop{Idotaccent}{idotaccent}}
3367   \comment{The letter '\. I'.}
3368 \endsetslot
3369
3370 \setslot{\lc{Dbar}{dbar}}
3371   \comment{The letter '\dj'.}
3372 \endsetslot
3373
3374 \setslot{section}
3375   \comment{The section mark '\textsection'.}
3376 \endsetslot
3377
3378 \setslot{\lctop{Abreve}{abreve}}
3379   \comment{The letter '\u a'.}
3380 \endsetslot
3381
3382 \setslot{\lc{Aogonek}{aogonek}}
3383   \comment{The letter '\k a'.}
3384 \endsetslot
3385
3386 \setslot{\lctop{Cacute}{cacute}}
3387   \comment{The letter '\ c'.}
3388 \endsetslot
3389
3390 \setslot{\lctop{Ccaron}{ccaron}}
3391   \comment{The letter '\v c'.}
3392 \endsetslot
3393
3394 \setslot{\lctop{Dcaron}{dcaron}}
3395   \comment{The letter '\v d'.}
3396 \endsetslot
3397
3398 \setslot{\lctop{Ecaron}{ecaron}}
3399   \comment{The letter '\v e'.}
3400 \endsetslot
3401
3402 \setslot{\lc{Eogonek}{eogonek}}
3403   \comment{The letter '\k e'.}
```

```
3404 \endsetslot
3405
3406 \setslot{\lctop{Gbreve}{gbreve}}
3407   \comment{The letter ‘\u g’ .}
3408 \endsetslot
3409
3410 \setslot{\lctop{Lacute}{lacute}}
3411   \comment{The letter ‘\’ l’ .}
3412 \endsetslot
3413
3414 \setslot{\lc{Lcaron}{lcaron}}
3415   \comment{The letter ‘\v l’ .}
3416 \endsetslot
3417
3418 \setslot{\lc{Lslash}{lslash}}
3419   \comment{The letter ‘\l’ .}
3420 \endsetslot
3421
3422 \setslot{\lctop{Nacute}{nacute}}
3423   \comment{The letter ‘\’ n’ .}
3424 \endsetslot
3425
3426 \setslot{\lctop{Ncaron}{ncaron}}
3427   \comment{The letter ‘\v n’ .}
3428 \endsetslot
3429
3430 \setslot{\lc{D.alt}{d.alt}}
3431 \endsetslot
3432
3433 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
3434   \comment{The letter ‘\H o’ .}
3435 \endsetslot
3436
3437 \setslot{\lctop{Racute}{racute}}
3438   \comment{The letter ‘\’ r’ .}
3439 \endsetslot
3440
3441 \setslot{\lctop{Rcaron}{rcaron}}
3442   \comment{The letter ‘\v r’ .}
3443 \endsetslot
3444
3445 \setslot{\lctop{Sacute}{sacute}}
3446   \comment{The letter ‘\’ s’ .}
3447 \endsetslot
3448
3449 \setslot{\lctop{Scaron}{scaron}}
3450   \comment{The letter ‘\v s’ .}
3451 \endsetslot
3452
```



```
3453 \setslot{\lc{Scedilla}{scedilla}}
3454   \comment{The letter ‘c s’ .}
3455 \endsetslot
3456
3457 \setslot{\lctop{Tcaron}{tcaron}}
3458   \comment{The letter ‘v t’ .}
3459 \endsetslot
3460
3461 \setslot{\lc{Tcedilla}{tcedilla}}
3462   \comment{The letter ‘c t’ .}
3463 \endsetslot
3464
3465 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
3466   \comment{The letter ‘H u’ .}
3467 \endsetslot
3468
3469 \setslot{\lctop{Uring}{uring}}
3470   \comment{The letter ‘r u’ .}
3471 \endsetslot
3472
3473 \setslot{\lctop{Ydieresis}{ydieresis}}
3474   \comment{The letter ‘" y’ .}
3475 \endsetslot
3476
3477 \setslot{\lctop{Zacute}{zacute}}
3478   \comment{The letter ‘\’ z’ .}
3479 \endsetslot
3480
3481 \setslot{\lctop{Zcaron}{zcaron}}
3482   \comment{The letter ‘v z’ .}
3483 \endsetslot
3484
3485 \setslot{\lctop{Zdotaccent}{zdotaccent}}
3486   \comment{The letter ‘\ . z’ .}
3487 \endsetslot
3488
3489 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
3490
3491   \setslot{\lclig{IJ}{ij}}
3492     \comment{The letter ‘ij’. This is a single letter, and in a
3493       monowidth font should ideally be one letter wide.}
3494   \endsetslot
3495
3496 \Fi
3497
3498 \setslot{exclamdown}
3499   \comment{The Spanish punctuation mark ‘!’ .}
3500 \endsetslot
3501
```

```
3502 \setslot{questiondown}
3503   \comment{The Spanish punctuation mark ‘?’}
3504 \endsetslot
3505
3506 \setslot{sterling}
3507   \comment{The British currency mark ‘\textsterling’.}
3508 \endsetslot
3509
3510 \setslot{\uctop{Agrave}{agrave}}
3511   \comment{The letter ‘\` A’.}
3512 \endsetslot
3513
3514 \setslot{\uctop{Aacute}{aacute}}
3515   \comment{The letter ‘\’ A’.}
3516 \endsetslot
3517
3518 \setslot{\uctop{Acircumflex}{acircumflex}}
3519   \comment{The letter ‘\^ A’.}
3520 \endsetslot
3521
3522 \setslot{\uctop{Atilde}{atilde}}
3523   \comment{The letter ‘\~ A’.}
3524 \endsetslot
3525
3526 \setslot{\uctop{Adieresis}{adieresis}}
3527   \comment{The letter ‘\ " A’.}
3528 \endsetslot
3529
3530 \setslot{\uctop{Aring}{aring}}
3531   \comment{The letter ‘\r A’.}
3532 \endsetslot
3533
3534 \setslot{\uc{AE}{ae}}
3535   \comment{The letter ‘AE’. This is a single letter, and should not be
3536     faked with ‘AE’.}
3537 \endsetslot
3538
3539 \setslot{\uc{Ccedilla}{ccedilla}}
3540   \comment{The letter ‘\c C’.}
3541 \endsetslot
3542
3543 \setslot{\uctop{Egrave}{egrave}}
3544   \comment{The letter ‘\` E’.}
3545 \endsetslot
3546
3547 \setslot{\uctop{Eacute}{eacute}}
3548   \comment{The letter ‘\’ E’.}
3549 \endsetslot
3550
```

```
3551 \setslot{\uctop{Ecircumflex}{ecircumflex}}
3552   \comment{The letter ‘ $\hat{E}$ ’..}
3553 \endsetslot
3554
3555 \setslot{\uctop{Edieresis}{edieresis}}
3556   \comment{The letter ‘ $\"E$ ’..}
3557 \endsetslot
3558
3559 \setslot{\uctop{Igrave}{igrave}}
3560   \comment{The letter ‘ $\grave{I}$ ’..}
3561 \endsetslot
3562
3563 \setslot{\uctop{Iacute}{iacute}}
3564   \comment{The letter ‘ $\acute{I}$ ’..}
3565 \endsetslot
3566
3567 \setslot{\uctop{Icircumflex}{icircumflex}}
3568   \comment{The letter ‘ $\hat{I}$ ’..}
3569 \endsetslot
3570
3571 \setslot{\uctop{Idieresis}{idieresis}}
3572   \comment{The letter ‘ $\"I$ ’..}
3573 \endsetslot
3574
3575 \setslot{\uc{Eth}{eth}}
3576   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
3577     with a horizontal bar through the stem. It is unavailable
3578     in \plain\ \TeX.}
3579 \endsetslot
3580
3581 \setslot{\uctop{Ntilde}{ntilde}}
3582   \comment{The letter ‘ $\tilde{N}$ ’..}
3583 \endsetslot
3584
3585 \setslot{\uctop{Ograve}{ograve}}
3586   \comment{The letter ‘ $\grave{O}$ ’..}
3587 \endsetslot
3588
3589 \setslot{\uctop{Oacute}{oacute}}
3590   \comment{The letter ‘ $\acute{O}$ ’..}
3591 \endsetslot
3592
3593 \setslot{\uctop{Ocircumflex}{ocircumflex}}
3594   \comment{The letter ‘ $\hat{O}$ ’..}
3595 \endsetslot
3596
3597 \setslot{\uctop{Otilde}{otilde}}
3598   \comment{The letter ‘ $\tilde{O}$ ’..}
3599 \endsetslot
```

```
3600
3601 \setslot{\uctop{Odieresis}{odieresis}}
3602   \comment{The letter '\ " O'.}
3603 \endsetslot
3604
3605 \setslot{\uc{OE}{oe}}
3606   \comment{The letter '\OE'. This is a single letter, and should not be
3607     faked with 'OE'.}
3608 \endsetslot
3609
3610 \setslot{\uc{Oslash}{oslash}}
3611   \comment{The letter '\O'.}
3612 \endsetslot
3613
3614 \setslot{\uctop{Ugrave}{ugrave}}
3615   \comment{The letter '\ ' U'.}
3616 \endsetslot
3617
3618 \setslot{\uctop{Uacute}{uacute}}
3619   \comment{The letter '\ ' U'.}
3620 \endsetslot
3621
3622 \setslot{\uctop{Ucircumflex}{ucircumflex}}
3623   \comment{The letter '\ ^ U'.}
3624 \endsetslot
3625
3626 \setslot{\uctop{Udieresis}{udieresis}}
3627   \comment{The letter '\ " U'.}
3628 \endsetslot
3629
3630 \setslot{\uctop{Yacute}{yacute}}
3631   \comment{The letter '\ ' Y'.}
3632 \endsetslot
3633
3634 \setslot{\uc{Thorn}{thorn}}
3635   \comment{The Icelandic capital letter Thorn, similar to a 'P'
3636     with the bowl moved down. It is unavailable in \plain\ \TeX.}
3637 \endsetslot
3638
3639 \setslot{\uclig{SS}{germandbls}}
3640   \comment{The ligature 'SS', used to give an upper case '\ss'.
3641     In a monowidth font it should be two letters wide.}
3642 \endsetslot
3643
3644 \setslot{\lctop{Agrave}{agrave}}
3645   \comment{The letter '\ ' a'.}
3646 \endsetslot
3647
3648 \setslot{\lctop{Aacute}{aacute}}
```

```
3649 \comment{The letter '\ a'.}
3650 \endsetslot
3651
3652 \setslot{\lctop{Acircumflex}{acircumflex}}
3653 \comment{The letter '\^ a'.}
3654 \endsetslot
3655
3656 \setslot{\lctop{Atilde}{atilde}}
3657 \comment{The letter '\~ a'.}
3658 \endsetslot
3659
3660 \setslot{\lctop{Adieresis}{adieresis}}
3661 \comment{The letter '\ " a'.}
3662 \endsetslot
3663
3664 \setslot{\lctop{Aring}{aring}}
3665 \comment{The letter '\r a'.}
3666 \endsetslot
3667
3668 \setslot{\lc{AE}{ae}}
3669 \comment{The letter 'ae'. This is a single letter, and should not be
3670 faked with 'ae'.}
3671 \endsetslot
3672
3673 \setslot{\lc{Ccedilla}{ccedilla}}
3674 \comment{The letter '\c c'.}
3675 \endsetslot
3676
3677 \setslot{\lctop{Egrave}{egrave}}
3678 \comment{The letter '\ ' e'.}
3679 \endsetslot
3680
3681 \setslot{\lctop{Eacute}{eacute}}
3682 \comment{The letter '\ ' e'.}
3683 \endsetslot
3684
3685 \setslot{\lctop{Ecircumflex}{ecircumflex}}
3686 \comment{The letter '\^ e'.}
3687 \endsetslot
3688
3689 \setslot{\lctop{Edieresis}{edieresis}}
3690 \comment{The letter '\ " e'.}
3691 \endsetslot
3692
3693 \setslot{\lctop{Igrave}{igrave}}
3694 \comment{The letter '\ ' i'.}
3695 \endsetslot
3696
3697 \setslot{\lctop{Iacute}{iacute}}
```

```
3698 \comment{The letter ‘\’\i’..}
3699 \endsetslot
3700
3701 \setslot{\lctop{Icircumflex}{icircumflex}}
3702 \comment{The letter ‘\^i’..}
3703 \endsetslot
3704
3705 \setslot{\lctop{Idieresis}{idieresis}}
3706 \comment{The letter ‘\”i’..}
3707 \endsetslot
3708
3709 \setslot{\lc{Eth}{eth}}
3710 \comment{The Icelandic lowercase letter ‘eth’ similar to
3711 a ‘ $\partial$ ’ with an oblique bar through the stem.
3712 It is unavailable in \plain\TeX..}
3713 \endsetslot
3714
3715 \setslot{\lctop{Ntilde}{ntilde}}
3716 \comment{The letter ‘\~ n’..}
3717 \endsetslot
3718
3719 \setslot{\lctop{Ograve}{ograve}}
3720 \comment{The letter ‘\‘ o’..}
3721 \endsetslot
3722
3723 \setslot{\lctop{Oacute}{oacute}}
3724 \comment{The letter ‘\’ o’..}
3725 \endsetslot
3726
3727 \setslot{\lctop{Ocircumflex}{ocircumflex}}
3728 \comment{The letter ‘\^ o’..}
3729 \endsetslot
3730
3731 \setslot{\lctop{Otilde}{otilde}}
3732 \comment{The letter ‘\~ o’..}
3733 \endsetslot
3734
3735 \setslot{\lctop{Odieresis}{odieresis}}
3736 \comment{The letter ‘\” o’..}
3737 \endsetslot
3738
3739 \setslot{\lc{OE}{oe}}
3740 \comment{The letter ‘\oe’. This is a single letter, and should not be
3741 faked with ‘oe’..}
3742 \endsetslot
3743
3744 \setslot{\lc{Oslash}{oslash}}
3745 \comment{The letter ‘\o’..}
3746 \endsetslot
```

```
3747
3748 \setslot{\lctop{Ugrave}{ugrave}}
3749   \comment{The letter ‘\’ u’ .}
3750 \endsetslot
3751
3752 \setslot{\lctop{Uacute}{uacute}}
3753   \comment{The letter ‘\’ u’ .}
3754 \endsetslot
3755
3756 \setslot{\lctop{Ucircumflex}{ucircumflex}}
3757   \comment{The letter ‘\^ u’ .}
3758 \endsetslot
3759
3760 \setslot{\lctop{Udieresis}{udieresis}}
3761   \comment{The letter ‘\” u’ .}
3762 \endsetslot
3763
3764 \setslot{\lctop{Yacute}{yacute}}
3765   \comment{The letter ‘\’ y’ .}
3766 \endsetslot
3767
3768 \setslot{\lc{Thorn}{thorn}}
3769   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
3770     with an ascender rising from the stem. It is unavailable
3771     in \plain\ \TeX .}
3772 \endsetslot
3773
3774 \setslot{\lc{SS}{germandbls}}
3775   \comment{The letter ‘\ss’ .}
3776 \endsetslot
3777
3778 \endencoding
```

12.1.4 tl-venturisold-longs

```
3779 %% - f_f, f_f_i and f_f_l replace ff, ffi and ffl.
3780 %% - slots for Eng, eng and perthousandzero, which are missing from the
3781 %% fonts and cannot be faked by fontinst, are reassigned.
3782 %% - the slots for the character dbar and the ligature ij are reassigned to
3783 %% accommodate longs, longs_t.
3784 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
3785
3786 \relax
3787 \encoding
3788
3789 \needsfontinstversion{1.910}
3790
3791 \setcommand\lc#1#2{#2}
3792 \setcommand\uc#1#2{#1}
```

```
3793 \setcommand\lctop#1#2{#2}
3794 \setcommand\uctop#1#2{#1}
3795 \setcommand\lclig#1#2{#2}
3796 \ifisint{letterspacing}\then
3797   \ifnumber{\int{letterspacing}}={0}\then \Else
3798     \setcommand\uclig#1#2{#1spaced}
3799     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
3800     you can't see it as \verb|\setcommand| commands are invisible in
3801     the typeset output.}
3802   \Fi
3803 \Fi
3804 \setcommand\uclig#1#2{#1}
3805 \setcommand\digit#1{#1}
3806
3807 \ifisint{monowidth}\then
3808   \setint{ligaturing}{0}
3809 \Else
3810   % The following empty line is important to get the formatting
3811   % right here (sigh)! (Remember that it is a \par token.)
3812
3813   \ifisint{letterspacing}\then
3814     \ifnumber{\int{letterspacing}}={0}\then \Else
3815       \setint{ligaturing}{0}
3816     \Fi
3817   \Fi
3818   \setint{ligaturing}{1}
3819 \Fi
3820
3821 \setint{italicslant}{0}
3822 \setint{quad}{1000}
3823 \setint{baselineskip}{1200}
3824
3825 \ifisglyph{x}\then
3826   \setint{xheight}{\height{x}}
3827 \Else
3828   \setint{xheight}{500}
3829 \Fi
3830
3831 \ifisglyph{space}\then
3832   \setint{interword}{\width{space}}
3833 \Else\ifisglyph{i}\then
3834   \setint{interword}{\width{i}}
3835 \Else
3836   \setint{interword}{333}
3837 \Fi\Fi
3838
3839 \ifisint{monowidth}\then
3840   \setint{stretchword}{0}
3841   \setint{shrinkword}{0}
```



```
3842 \setint{extraspace}{\int{interword}}
3843 \Else
3844 \setint{stretchword}{\scale{\int{interword}}{600}}
3845 \setint{shrinkword}{\scale{\int{interword}}{240}}
3846 \setint{extraspace}{\scale{\int{interword}}{240}}
3847 \Fi
3848
3849 \ifisglyph{X}\then
3850 \setint{capheight}{\height{X}}
3851 \Else
3852 \setint{capheight}{750}
3853 \Fi
3854
3855 \ifisglyph{d}\then
3856 \setint{ascender}{\height{d}}
3857 \Else\ifisint{capheight}\then
3858 \setint{ascender}{\int{capheight}}
3859 \Else
3860 \setint{ascender}{750}
3861 \Fi\Fi
3862
3863 \ifisglyph{Aring}\then
3864 \setint{accapheight}{\height{Aring}}
3865 \Else
3866 \setint{accapheight}{999}
3867 \Fi
3868
3869 \ifisint{descender_neg}\then
3870 \setint{descender}{\neg{\int{descender_neg}}}
3871 \Else\ifisglyph{p}\then
3872 \setint{descender}{\depth{p}}
3873 \Else
3874 \setint{descender}{250}
3875 \Fi\Fi
3876
3877 \ifisglyph{Aring}\then
3878 \setint{maxheight}{\height{Aring}}
3879 \Else
3880 \setint{maxheight}{1000}
3881 \Fi
3882
3883 \ifisint{maxdepth_neg}\then
3884 \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
3885 \Else\ifisglyph{j}\then
3886 \setint{maxdepth}{\depth{j}}
3887 \Else
3888 \setint{maxdepth}{250}
3889 \Fi\Fi
3890
```

```
3891 \ifisglyph{six}\then
3892   \setint{digitwidth}{\width{six}}
3893 \Else
3894   \setint{digitwidth}{500}
3895 \Fi
3896
3897 \setint{capstem}{0} % not in AFM files
3898
3899 \setfontdimen{1}{italicslant} % italic slant
3900 \setfontdimen{2}{interword} % interword space
3901 \setfontdimen{3}{stretchword} % interword stretch
3902 \setfontdimen{4}{shrinkword} % interword shrink
3903 \setfontdimen{5}{xheight} % x-height
3904 \setfontdimen{6}{quad} % quad
3905 \setfontdimen{7}{extraspace} % extra space after .
3906 \setfontdimen{8}{capheight} % cap height
3907 \setfontdimen{9}{ascender} % ascender
3908 \setfontdimen{10}{accapheight} % accented cap height
3909 \setfontdimen{11}{descender} % descender's depth
3910 \setfontdimen{12}{maxheight} % max height
3911 \setfontdimen{13}{maxdepth} % max depth
3912 \setfontdimen{14}{digitwidth} % digit width
3913 \setfontdimen{15}{verticalstem} % dominant width of verical stems
3914 \setfontdimen{16}{baselineskip} % baselineskip
3915
3916 \ifnumber{\int{ligaturing}}<{0}\then
3917   \comment{In this case, the codingscheme can be different from the
3918     default, and therefore we refrain from setting it.}
3919 \Else
3920   \setstr{codingscheme}{EXTENDED TEX ENC - VENTURIS OLD LONGS}
3921 \Fi
3922
3923 \setslot{\lc{Grave}{grave}}
3924   \comment{The grave accent '\{'}'}
3925 \endsetslot
3926
3927 \setslot{\lc{Acute}{acute}}
3928   \comment{The acute accent '\{'}'}
3929 \endsetslot
3930
3931 \setslot{\lc{Circumflex}{circumflex}}
3932   \comment{The circumflex accent '\^{'}'}
3933 \endsetslot
3934
3935 \setslot{\lc{Tilde}{tilde}}
3936   \comment{The tilde accent '\~{'}'}
3937 \endsetslot
3938
3939 \setslot{\lc{Dieresis}{dieresis}}
```

```
3940 \comment{The umlaut or dieresis accent '\{'}'.}
3941 \endsetslot
3942
3943 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
3944 \comment{The long Hungarian umlaut '\H{'}'.}
3945 \endsetslot
3946
3947 \setslot{\lc{Ring}{ring}}
3948 \comment{The ring accent '\r{'}'.}
3949 \endsetslot
3950
3951 \setslot{\lc{Caron}{caron}}
3952 \comment{The caron or h\`a\v cek accent '\v{'}'.}
3953 \endsetslot
3954
3955 \setslot{\lc{Breve}{breve}}
3956 \comment{The breve accent '\u{'}'.}
3957 \endsetslot
3958
3959 \setslot{\lc{Macron}{macron}}
3960 \comment{The macron accent '\={}''.}
3961 \endsetslot
3962
3963 \setslot{\lc{Dotaccent}{dotaccent}}
3964 \comment{The dot accent '\.{'}''.}
3965 \endsetslot
3966
3967 \setslot{\lc{Cedilla}{cedilla}}
3968 \comment{The cedilla accent '\c {'}''.}
3969 \endsetslot
3970
3971 \setslot{\lc{Ogonek}{ogonek}}
3972 \comment{The ogonek accent '\k {'}''.}
3973 \endsetslot
3974
3975 \setslot{quotesinglbase}
3976 \comment{A German single quote mark '\quotesinglbase' similar to a comma,
3977 but with different sidebearings.}
3978 \endsetslot
3979
3980 \setslot{guilsinglleft}
3981 \comment{A French single opening quote mark '\guilsinglleft',
3982 unavailable in \plain\ \TeX.}
3983 \endsetslot
3984
3985 \setslot{guilsinglright}
3986 \comment{A French single closing quote mark '\guilsinglright',
3987 unavailable in \plain\ \TeX.}
3988 \endsetslot
```

```
3989
3990 \setslot{quotedblleft}
3991 \comment{The English opening quote mark ‘\,\textquotedblleft\,’.}
3992 \endsetslot
3993
3994 \setslot{quotedblright}
3995 \comment{The English closing quote mark ‘\,\textquotedblright\,’.}
3996 \endsetslot
3997
3998 \setslot{quotedblbase}
3999 \comment{A German double quote mark ‘\quotedblbase’ similar to two commas,
4000     but with tighter letterspacing and different sidebearings.}
4001 \endsetslot
4002
4003 \setslot{guillemotleft}
4004 \comment{A French double opening quote mark ‘\guillemotleft’,
4005     unavailable in \plain\ \TeX.}
4006 \endsetslot
4007
4008 \setslot{guillemotright}
4009 \comment{A French closing opening quote mark ‘\guillemotright’,
4010     unavailable in \plain\ \TeX.}
4011 \endsetslot
4012
4013 \setslot{endash}
4014 \ligature{LIG}{hyphen}{emdash}
4015 \comment{The number range dash ‘1--9’. This is called ‘rangedash’ by fontinst’s t1.etx, but
4016     might be set as ‘\texttt{1{-}9}’.}
4017 \endsetslot
4018
4019 \setslot{emdash}
4020 \comment{The punctuation dash ‘Oh---boy.’ This is called ‘punctdash’ by fontinst’s t1.etx, but
4021     might be set as ‘\texttt{Oh{-}{-}boy.’}
4022 \endsetslot
4023
4024 \setslot{compwordmark}
4025 \comment{An invisible glyph, with zero width and depth, but the
4026     height of lowercase letters without ascenders.
4027     It is used to stop ligaturing in words like ‘shelf{}ful’..}
4028 \endsetslot
4029
4030 \setslot{\lc{S.alt}{s.alt}}
4031 \endsetslot
4032
4033 \setslot{\lc{dotlessI}{dotlessi}}
4034 \comment{A dotless i ‘\i’, used to produce accented letters such as
4035     ‘\=\i’..}
4036 \endsetslot
4037
```

```
4038 \setslot{\lc{dotlessJ}{dotlessj}}
4039   \comment{A dotless j ‘\j’, used to produce accented letters such as
4040     ‘\=aj’. Most non-TeX fonts do not have this glyph.}
4041 \endsetslot
4042
4043 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
4044
4045 \setslot{\lclig{FF}{f_f}}
4046   \ifnumber{\int{ligaturing}}>{0}\then
4047     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{f_f_i}}
4048     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{f_f_l}}
4049   \Fi
4050   \comment{The ‘ff’ ligature. It should be two characters wide in a
4051     monowidth font.}
4052 \endsetslot
4053
4054 \setslot{\lclig{FI}{fi}}
4055   \comment{The ‘fi’ ligature. It should be two characters wide in a
4056     monowidth font.}
4057 \endsetslot
4058
4059 \setslot{\lclig{FL}{fl}}
4060   \comment{The ‘fl’ ligature. It should be two characters wide in a
4061     monowidth font.}
4062 \endsetslot
4063
4064 \setslot{\lclig{FFI}{f_f_i}}
4065   \comment{The ‘ffi’ ligature. It should be three characters wide in a
4066     monowidth font.}
4067 \endsetslot
4068
4069 \setslot{\lclig{FFL}{f_f_l}}
4070   \comment{The ‘ffl’ ligature. It should be three characters wide in a
4071     monowidth font.}
4072 \endsetslot
4073
4074 \Fi
4075
4076 \setslot{visiblespace}
4077   \comment{A visible space glyph ‘\textvisiblespace’}
4078 \endsetslot
4079
4080 \setslot{exclam}
4081   \ligature{LIG}{\quoteleft}{exclamdown}
4082   \comment{The exclamation mark ‘!’}
4083 \endsetslot
4084
4085 \setslot{quotedbl}
4086   \comment{The ‘neutral’ double quotation mark ‘\,\textquotedbl\,’}
```

```
4087     included for use in monowidth fonts, or for setting computer
4088     programs. Note that the inclusion of this glyph in this slot
4089     means that \TeX\ documents which used '{\tt\char"\}' as an
4090     input character will no longer work.}
4091 \endsetslot
4092
4093 \setslot{numbersign}
4094     \comment{The hash sign '\#'.}
4095 \endsetslot
4096
4097 \setslot{dollar}
4098     \comment{The dollar sign '\$'.}
4099 \endsetslot
4100
4101 \setslot{percent}
4102     \comment{The percent sign '\%'.}
4103 \endsetslot
4104
4105 \setslot{ampersand}
4106     \comment{The ampersand sign '\&'.}
4107 \endsetslot
4108
4109 \setslot{quoteright}
4110     \ligature{LIG}{quoteright}{quotedblright}
4111     \comment{The English closing single quote mark '\,\textquoteright\,'.}
4112 \endsetslot
4113
4114 \setslot{parenleft}
4115     \comment{The opening parenthesis '('.}
4116 \endsetslot
4117
4118 \setslot{parenright}
4119     \comment{The closing parenthesis ')'.}
4120 \endsetslot
4121
4122 \setslot{asterisk}
4123     \comment{The raised asterisk '*'.}
4124 \endsetslot
4125
4126 \setslot{plus}
4127     \comment{The addition sign '+'.}
4128 \endsetslot
4129
4130 \setslot{comma}
4131     \ligature{LIG}{comma}{quotedblbase}
4132     \comment{The comma ','.}
4133 \endsetslot
4134
4135 \setslot{hyphen}
```

```
4136 \ligature{LIG}{hyphen}{endash}
4137 \ligature{LIG}{hyphenchar}{hyphenchar}
4138 \comment{The hyphen '-' .}
4139 \endsetslot
4140
4141 \setslot{period}
4142 \comment{The period '.' .}
4143 \endsetslot
4144
4145 \setslot{slash}
4146 \comment{The forward oblique '/' .}
4147 \endsetslot
4148
4149 \setslot{\digit{zero}}
4150 \comment{The number '0'. This (and all the other numerals) may be
4151 old style or ranging digits.}
4152 \endsetslot
4153
4154 \setslot{\digit{one}}
4155 \comment{The number '1' .}
4156 \endsetslot
4157
4158 \setslot{\digit{two}}
4159 \comment{The number '2' .}
4160 \endsetslot
4161
4162 \setslot{\digit{three}}
4163 \comment{The number '3' .}
4164 \endsetslot
4165
4166 \setslot{\digit{four}}
4167 \comment{The number '4' .}
4168 \endsetslot
4169
4170 \setslot{\digit{five}}
4171 \comment{The number '5' .}
4172 \endsetslot
4173
4174 \setslot{\digit{six}}
4175 \comment{The number '6' .}
4176 \endsetslot
4177
4178 \setslot{\digit{seven}}
4179 \comment{The number '7' .}
4180 \endsetslot
4181
4182 \setslot{\digit{eight}}
4183 \comment{The number '8' .}
4184 \endsetslot
```

```
4185
4186 \setslot{\digit{nine}}
4187   \comment{The number '9'.}
4188 \endsetslot
4189
4190 \setslot{colon}
4191   \comment{The colon punctuation mark ':'}.}
4192 \endsetslot
4193
4194 \setslot{semicolon}
4195   \comment{The semi-colon punctuation mark ';'}.}
4196 \endsetslot
4197
4198 \setslot{less}
4199   \ligature{LIG}{less}{guillemotleft}
4200   \comment{The less-than sign '\textless'}.}
4201 \endsetslot
4202
4203 \setslot{equal}
4204   \comment{The equals sign '='}.}
4205 \endsetslot
4206
4207 \setslot{greater}
4208   \ligature{LIG}{greater}{guillemotright}
4209   \comment{The greater-than sign '\textgreater'}.}
4210 \endsetslot
4211
4212 \setslot{question}
4213   \ligature{LIG}{quoteleft}{questiondown}
4214   \comment{The question mark '?'}.}
4215 \endsetslot
4216
4217 \setslot{at}
4218   \comment{The at sign '@'}.}
4219 \endsetslot
4220
4221 \setslot{\uc{A}{a}}
4222   \comment{The letter '{A}'}.}
4223 \endsetslot
4224
4225 \setslot{\uc{B}{b}}
4226   \comment{The letter '{B}'}.}
4227 \endsetslot
4228
4229 \setslot{\uc{C}{c}}
4230   \comment{The letter '{C}'}.}
4231 \endsetslot
4232
4233 \setslot{\uc{D}{d}}
```



```
4234 \comment{The letter '{D}'.}
4235 \endsetslot
4236
4237 \setslot{\uc{E}{e}}
4238 \comment{The letter '{E}'.}
4239 \endsetslot
4240
4241 \setslot{\uc{F}{f}}
4242 \comment{The letter '{F}'.}
4243 \endsetslot
4244
4245 \setslot{\uc{G}{g}}
4246 \comment{The letter '{G}'.}
4247 \endsetslot
4248
4249 \setslot{\uc{H}{h}}
4250 \comment{The letter '{H}'.}
4251 \endsetslot
4252
4253 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4254
4255 \setslot{\uc{I}{i}}
4256 \comment{The letter '{I}'.}
4257 \endsetslot
4258
4259 \Fi
4260
4261 \setslot{\uc{J}{j}}
4262 \comment{The letter '{J}'.}
4263 \endsetslot
4264
4265 \setslot{\uc{K}{k}}
4266 \comment{The letter '{K}'.}
4267 \endsetslot
4268
4269 \setslot{\uc{L}{l}}
4270 \comment{The letter '{L}'.}
4271 \endsetslot
4272
4273 \setslot{\uc{M}{m}}
4274 \comment{The letter '{M}'.}
4275 \endsetslot
4276
4277 \setslot{\uc{N}{n}}
4278 \comment{The letter '{N}'.}
4279 \endsetslot
4280
4281 \setslot{\uc{O}{o}}
4282 \comment{The letter '{O}'.}
```

```
4283 \endsetslot
4284
4285 \setslot{\uc{P}{p}}
4286   \comment{The letter '{P}'.}
4287 \endsetslot
4288
4289 \setslot{\uc{Q}{q}}
4290   \comment{The letter '{Q}'.}
4291 \endsetslot
4292
4293 \setslot{\uc{R}{r}}
4294   \comment{The letter '{R}'.}
4295 \endsetslot
4296
4297 \setslot{\uc{S}{s}}
4298   \comment{The letter '{S}'.}
4299 \endsetslot
4300
4301 \setslot{\uc{T}{t}}
4302   \comment{The letter '{T}'.}
4303 \endsetslot
4304
4305 \setslot{\uc{U}{u}}
4306   \comment{The letter '{U}'.}
4307 \endsetslot
4308
4309 \setslot{\uc{V}{v}}
4310   \comment{The letter '{V}'.}
4311 \endsetslot
4312
4313 \setslot{\uc{W}{w}}
4314   \comment{The letter '{W}'.}
4315 \endsetslot
4316
4317 \setslot{\uc{X}{x}}
4318   \comment{The letter '{X}'.}
4319 \endsetslot
4320
4321 \setslot{\uc{Y}{y}}
4322   \comment{The letter '{Y}'.}
4323 \endsetslot
4324
4325 \setslot{\uc{Z}{z}}
4326   \comment{The letter '{Z}'.}
4327 \endsetslot
4328
4329 \setslot{bracketleft}
4330   \comment{The opening square bracket '['.}
4331 \endsetslot
```

```
4332
4333 \setslot{backslash}
4334   \comment{The backwards oblique ‘\textbackslash’}
4335 \endsetslot
4336
4337 \setslot{bracketright}
4338   \comment{The closing square bracket ‘}’}
4339 \endsetslot
4340
4341 \setslot{asciicircum}
4342   \comment{The ASCII upward-pointing arrow head ‘\textasciicircum’}
4343   This is included for compatibility with typewriter fonts used
4344   for computer listings.}
4345 \endsetslot
4346
4347 \setslot{underscore}
4348   \comment{The ASCII underline character ‘\textunderscore’, usually
4349   set on the baseline.
4350   This is included for compatibility with typewriter fonts used
4351   for computer listings.}
4352 \endsetslot
4353
4354 \setslot{quoteleft}
4355   \ligature{LIG}{quoteleft}{quotedblleft}
4356   \comment{The English opening single quote mark ‘\,\textquoteleft\,’}
4357 \endsetslot
4358
4359 \setslot{\lc{A}{a}}
4360   \comment{The letter ‘{a}’}
4361 \endsetslot
4362
4363 \setslot{\lc{B}{b}}
4364   \comment{The letter ‘{b}’}
4365 \endsetslot
4366
4367 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4368
4369   \setslot{\lc{C}{c}}
4370   \comment{The letter ‘{c}’}
4371   \endsetslot
4372
4373 \Fi
4374
4375 \setslot{\lc{D}{d}}
4376   \ifnumber{\int{ligaturing}}>{0}\then
4377   \ifisglyph{\lc{D.alt}{d.alt}}\then
4378     \ligature{LIG}{asterisk}{\lc{D.alt}{d.alt}}
4379   \Else
4380     \ligature{LIG}{asterisk}{\lc{D}{d}}
```

```
4381 \Fi
4382   \Fi
4383   \comment{The letter '{d}'.}
4384 \endsetslot
4385
4386 \setslot{\lc{E}{e}}
4387   \comment{The letter '{e}'.}
4388 \endsetslot
4389
4390 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4391
4392   \setslot{\lc{F}{f}}
4393     \ifnumber{\int{ligaturing}}>{0}\then
4394       \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
4395       \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{f_f}}
4396       \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
4397     \Fi
4398     \comment{The letter '{f}'.}
4399   \endsetslot
4400
4401 \Fi
4402
4403 \setslot{\lc{G}{g}}
4404   \comment{The letter '{g}'.}
4405 \endsetslot
4406
4407 \setslot{\lc{H}{h}}
4408   \comment{The letter '{h}'.}
4409 \endsetslot
4410
4411 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4412
4413   \setslot{\lc{I}{i}}
4414     \comment{The letter '{i}'.}
4415   \endsetslot
4416
4417 \Fi
4418
4419 \setslot{\lc{J}{j}}
4420   \comment{The letter '{j}'.}
4421 \endsetslot
4422
4423 \setslot{\lc{K}{k}}
4424   \comment{The letter '{k}'.}
4425 \endsetslot
4426
4427 \setslot{\lc{L}{l}}
4428   \comment{The letter '{l}'.}
4429 \endsetslot
```

```
4430
4431 \setslot{\lc{M}{m}}
4432   \comment{The letter '{m}'.}
4433 \endsetslot
4434
4435 \setslot{\lc{N}{n}}
4436   \comment{The letter '{n}'.}
4437 \endsetslot
4438
4439 \setslot{\lc{O}{o}}
4440   \comment{The letter '{o}'.}
4441 \endsetslot
4442
4443 \setslot{\lc{P}{p}}
4444   \comment{The letter '{p}'.}
4445 \endsetslot
4446
4447 \setslot{\lc{Q}{q}}
4448   \comment{The letter '{q}'.}
4449 \endsetslot
4450
4451 \setslot{\lc{R}{r}}
4452   \comment{The letter '{r}'.}
4453 \endsetslot
4454
4455 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4456
4457   \setslot{\lc{S}{s}}
4458     \ifnumber{\int{ligaturing}}>{0}\then
4459     \ifisglyph{\lc{S.alt}{s.alt}}\then
4460       \ligature{LIG}{asterisk}{\lc{S.alt}{s.alt}}
4461     \Else
4462       \ligature{LIG}{asterisk}{\lc{S}{s}}
4463   \Fi
4464     \ligature{LIG}{\lc{T}{t}}{\lclig{S_T}{s_t}}
4465     \ligature{LIG}{plus}{\lc{S}{longs}}
4466   \Fi
4467     \comment{The letter '{s}'.}
4468   \endsetslot
4469
4470 \Fi
4471
4472 \setslot{\lc{T}{t}}
4473   \comment{The letter '{t}'.}
4474 \endsetslot
4475
4476 \setslot{\lc{U}{u}}
4477   \comment{The letter '{u}'.}
4478 \endsetslot
```

```
4479
4480 \setslot{\lc{V}{v}}
4481   \comment{The letter '{v}'.}
4482 \endsetslot
4483
4484 \setslot{\lc{W}{w}}
4485   \comment{The letter '{w}'.}
4486 \endsetslot
4487
4488 \setslot{\lc{X}{x}}
4489   \comment{The letter '{x}'.}
4490 \endsetslot
4491
4492 \setslot{\lc{Y}{y}}
4493   \comment{The letter '{y}'.}
4494 \endsetslot
4495
4496 \setslot{\lc{Z}{z}}
4497   \comment{The letter '{z}'.}
4498 \endsetslot
4499
4500 \setslot{braceleft}
4501   \comment{The opening curly brace '\textbraceleft'.}
4502 \endsetslot
4503
4504 \setslot{bar}
4505   \comment{The ASCII vertical bar '\textbar'.
4506           This is included for compatibility with typewriter fonts used
4507           for computer listings.}
4508 \endsetslot
4509
4510 \setslot{braceright}
4511   \comment{The closing curly brace '\textbraceright'.}
4512 \endsetslot
4513
4514 \setslot{asciitilde}
4515   \comment{The ASCII tilde '\textasciitilde'.
4516           This is included for compatibility with typewriter fonts used
4517           for computer listings.}
4518 \endsetslot
4519
4520 \setslot{hyphenchar}
4521   \comment{The glyph used for hyphenation in this font, which will
4522           almost always be the same as 'hyphen'.}
4523 \endsetslot
4524
4525 \setslot{\uctop{Abreve}{abreve}}
4526   \comment{The letter '\u A'.}
4527 \endsetslot
```

```
4528
4529 \setslot{\uc{Aogonek}{aogonek}}
4530   \comment{The letter ‘\k A’..}
4531 \endsetslot
4532
4533 \setslot{\uctop{Cacute}{cacute}}
4534   \comment{The letter ‘\’ C’..}
4535 \endsetslot
4536
4537 \setslot{\uctop{Ccaron}{ccaron}}
4538   \comment{The letter ‘\v C’..}
4539 \endsetslot
4540
4541 \setslot{\uctop{Dcaron}{dcaron}}
4542   \comment{The letter ‘\v D’..}
4543 \endsetslot
4544
4545 \setslot{\uctop{Ecaron}{ecaron}}
4546   \comment{The letter ‘\v E’..}
4547 \endsetslot
4548
4549 \setslot{\uc{Eogonek}{eogonek}}
4550   \comment{The letter ‘\k E’..}
4551 \endsetslot
4552
4553 \setslot{\uctop{Gbreve}{gbreve}}
4554   \comment{The letter ‘\u G’..}
4555 \endsetslot
4556
4557 \setslot{\uctop{Lacute}{lacute}}
4558   \comment{The letter ‘\’ L’..}
4559 \endsetslot
4560
4561 \setslot{\uc{Lcaron}{lcaron}}
4562   \comment{The letter ‘\v L’..}
4563 \endsetslot
4564
4565 \setslot{\uc{Lslash}{lslash}}
4566   \comment{The letter ‘\L’..}
4567 \endsetslot
4568
4569 \setslot{\uctop{Nacute}{nacute}}
4570   \comment{The letter ‘\’ N’..}
4571 \endsetslot
4572
4573 \setslot{\uctop{Ncaron}{ncaron}}
4574   \comment{The letter ‘\v N’..}
4575 \endsetslot
4576
```

```
4577 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
4578 \setslot{\lclig{S_T}{s_t}}
4579 \endsetslot
4580 \Fi
4581
4582 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
4583   \comment{The letter ‘\H O’..}
4584 \endsetslot
4585
4586 \setslot{\uctop{Racute}{racute}}
4587   \comment{The letter ‘\’ R’..}
4588 \endsetslot
4589
4590 \setslot{\uctop{Rcaron}{rcaron}}
4591   \comment{The letter ‘\v R’..}
4592 \endsetslot
4593
4594 \setslot{\uctop{Sacute}{sacute}}
4595   \comment{The letter ‘\’ S’..}
4596 \endsetslot
4597
4598 \setslot{\uctop{Scaron}{scaron}}
4599   \comment{The letter ‘\v S’..}
4600 \endsetslot
4601
4602 \setslot{\uc{Scedilla}{scedilla}}
4603   \comment{The letter ‘\c S’..}
4604 \endsetslot
4605
4606 \setslot{\uctop{Tcaron}{tcaron}}
4607   \comment{The letter ‘\v T’..}
4608 \endsetslot
4609
4610 \setslot{\uc{Tcedilla}{tcedilla}}
4611   \comment{The letter ‘\c T’..}
4612 \endsetslot
4613
4614 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
4615   \comment{The letter ‘\H U’..}
4616 \endsetslot
4617
4618 \setslot{\uctop{Uring}{uring}}
4619   \comment{The letter ‘\r U’..}
4620 \endsetslot
4621
4622 \setslot{\uctop{Ydieresis}{ydieresis}}
4623   \comment{The letter ‘\ " Y’..}
4624 \endsetslot
4625
```



```
4626 \setslot{\uctop{Zacute}{zacute}}
4627   \comment{The letter '\ Z'.}
4628 \endsetslot
4629
4630 \setslot{\uctop{Zcaron}{zcaron}}
4631   \comment{The letter '\v Z'.}
4632 \endsetslot
4633
4634 \setslot{\uctop{Zdotaccent}{zdotaccent}}
4635   \comment{The letter '\. Z'.}
4636 \endsetslot
4637
4638 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
4639
4640   \setslot{\uclig{IJ}{ij}}
4641     \comment{The letter 'IJ'. This is a single letter, and in a
4642       monowidth font should ideally be one letter wide.}
4643   \endsetslot
4644
4645 \Fi
4646
4647 \setslot{\uctop{Idotaccent}{idotaccent}}
4648   \comment{The letter '\. I'.}
4649 \endsetslot
4650
4651 \setslot{\lc{S}{longs}}
4652   \ifnumber{\int{ligaturing}}>{0}\then
4653     \ligature{LIG}{\lc{T}{t}}{\lclig{S_T}{longs_t}}
4654   \Fi
4655 \endsetslot
4656
4657 \setslot{section}
4658   \comment{The section mark '\textsection'.}
4659 \endsetslot
4660
4661 \setslot{\lctop{Abreve}{abreve}}
4662   \comment{The letter '\u a'.}
4663 \endsetslot
4664
4665 \setslot{\lc{Aogonek}{aogonek}}
4666   \comment{The letter '\k a'.}
4667 \endsetslot
4668
4669 \setslot{\lctop{Cacute}{cacute}}
4670   \comment{The letter '\ c'.}
4671 \endsetslot
4672
4673 \setslot{\lctop{Ccaron}{ccaron}}
4674   \comment{The letter '\v c'.}
```

```
4675 \endsetslot
4676
4677 \setslot{\lctop{Dcaron}{dcaron}}
4678   \comment{The letter ‘\v d’..}
4679 \endsetslot
4680
4681 \setslot{\lctop{Ecaron}{ecaron}}
4682   \comment{The letter ‘\v e’..}
4683 \endsetslot
4684
4685 \setslot{\lc{Eogonek}{eogonek}}
4686   \comment{The letter ‘\k e’..}
4687 \endsetslot
4688
4689 \setslot{\lctop{Gbreve}{gbreve}}
4690   \comment{The letter ‘\u g’..}
4691 \endsetslot
4692
4693 \setslot{\lctop{Lacute}{lacute}}
4694   \comment{The letter ‘\’ l’..}
4695 \endsetslot
4696
4697 \setslot{\lc{Lcaron}{lcaron}}
4698   \comment{The letter ‘\v l’..}
4699 \endsetslot
4700
4701 \setslot{\lc{Lslash}{lslash}}
4702   \comment{The letter ‘\l’..}
4703 \endsetslot
4704
4705 \setslot{\lctop{Nacute}{nacute}}
4706   \comment{The letter ‘\’ n’..}
4707 \endsetslot
4708
4709 \setslot{\lctop{Ncaron}{ncaron}}
4710   \comment{The letter ‘\v n’..}
4711 \endsetslot
4712
4713 \setslot{\lc{D.alt}{d.alt}}
4714 \endsetslot
4715
4716 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
4717   \comment{The letter ‘\H o’..}
4718 \endsetslot
4719
4720 \setslot{\lctop{Racute}{racute}}
4721   \comment{The letter ‘\’ r’..}
4722 \endsetslot
4723
```

```
4724 \setslot{\lctop{Rcaron}{rcaron}}
4725   \comment{The letter ‘\v r’..}
4726 \endsetslot
4727
4728 \setslot{\lctop{Sacute}{sacute}}
4729   \comment{The letter ‘\’ s’..}
4730 \endsetslot
4731
4732 \setslot{\lctop{Scaron}{scaron}}
4733   \comment{The letter ‘\v s’..}
4734 \endsetslot
4735
4736 \setslot{\lc{Scedilla}{scedilla}}
4737   \comment{The letter ‘\c s’..}
4738 \endsetslot
4739
4740 \setslot{\lctop{Tcaron}{tcaron}}
4741   \comment{The letter ‘\v t’..}
4742 \endsetslot
4743
4744 \setslot{\lc{Tcedilla}{tcedilla}}
4745   \comment{The letter ‘\c t’..}
4746 \endsetslot
4747
4748 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
4749   \comment{The letter ‘\H u’..}
4750 \endsetslot
4751
4752 \setslot{\lctop{Uring}{uring}}
4753   \comment{The letter ‘\r u’..}
4754 \endsetslot
4755
4756 \setslot{\lctop{Ydieresis}{ydieresis}}
4757   \comment{The letter ‘\ " y’..}
4758 \endsetslot
4759
4760 \setslot{\lctop{Zacute}{zacute}}
4761   \comment{The letter ‘\’ z’..}
4762 \endsetslot
4763
4764 \setslot{\lctop{Zcaron}{zcaron}}
4765   \comment{The letter ‘\v z’..}
4766 \endsetslot
4767
4768 \setslot{\lctop{Zdotaccent}{zdotaccent}}
4769   \comment{The letter ‘\ . z’..}
4770 \endsetslot
4771
4772 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
```

```
4773 \setslot{\lclig{S_T}{longs_t}}
4774 \endsetslot
4775 \Fi
4776
4777 \setslot{exclamdown}
4778   \comment{The Spanish punctuation mark '!' .}
4779 \endsetslot
4780
4781 \setslot{questiondown}
4782   \comment{The Spanish punctuation mark '?' .}
4783 \endsetslot
4784
4785 \setslot{sterling}
4786   \comment{The British currency mark '\textsterling' .}
4787 \endsetslot
4788
4789 \setslot{\uctop{Agrave}{agrave}}
4790   \comment{The letter '\grave A' .}
4791 \endsetslot
4792
4793 \setslot{\uctop{Aacute}{aacute}}
4794   \comment{The letter '\acute A' .}
4795 \endsetslot
4796
4797 \setslot{\uctop{Acircumflex}{acircumflex}}
4798   \comment{The letter '\^ A' .}
4799 \endsetslot
4800
4801 \setslot{\uctop{Atilde}{atilde}}
4802   \comment{The letter '\~ A' .}
4803 \endsetslot
4804
4805 \setslot{\uctop{Adieresis}{adieresis}}
4806   \comment{The letter '\" A' .}
4807 \endsetslot
4808
4809 \setslot{\uctop{Aring}{aring}}
4810   \comment{The letter '\r A' .}
4811 \endsetslot
4812
4813 \setslot{\uc{AE}{ae}}
4814   \comment{The letter '\AE'. This is a single letter, and should not be
4815     faked with 'AE' .}
4816 \endsetslot
4817
4818 \setslot{\uc{Ccedilla}{ccedilla}}
4819   \comment{The letter '\c C' .}
4820 \endsetslot
4821
```

```
4822 \setslot{\uctop{Egrave}{egrave}}
4823   \comment{The letter ‘\` E’ .}
4824 \endsetslot
4825
4826 \setslot{\uctop{Eacute}{eacute}}
4827   \comment{The letter ‘\’ E’ .}
4828 \endsetslot
4829
4830 \setslot{\uctop{Ecircumflex}{ecircumflex}}
4831   \comment{The letter ‘\^ E’ .}
4832 \endsetslot
4833
4834 \setslot{\uctop{Edieresis}{edieresis}}
4835   \comment{The letter ‘\ " E’ .}
4836 \endsetslot
4837
4838 \setslot{\uctop{Igrave}{igrave}}
4839   \comment{The letter ‘\` I’ .}
4840 \endsetslot
4841
4842 \setslot{\uctop{Iacute}{iacute}}
4843   \comment{The letter ‘\’ I’ .}
4844 \endsetslot
4845
4846 \setslot{\uctop{Icircumflex}{icircumflex}}
4847   \comment{The letter ‘\^ I’ .}
4848 \endsetslot
4849
4850 \setslot{\uctop{Idieresis}{idieresis}}
4851   \comment{The letter ‘\ " I’ .}
4852 \endsetslot
4853
4854 \setslot{\uc{Eth}{eth}}
4855   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
4856     with a horizontal bar through the stem. It is unavailable
4857     in \plain\ \TeX .}
4858 \endsetslot
4859
4860 \setslot{\uctop{Ntilde}{ntilde}}
4861   \comment{The letter ‘\~ N’ .}
4862 \endsetslot
4863
4864 \setslot{\uctop{Ograve}{ograve}}
4865   \comment{The letter ‘\` O’ .}
4866 \endsetslot
4867
4868 \setslot{\uctop{Oacute}{oacute}}
4869   \comment{The letter ‘\’ O’ .}
4870 \endsetslot
```

```
4871
4872 \setslot{\uctop{Ocircumflex}{ocircumflex}}
4873   \comment{The letter ‘ $\overset{\circ}{O}$ ’}
4874 \endsetslot
4875
4876 \setslot{\uctop{Otilde}{otilde}}
4877   \comment{The letter ‘ $\overset{\sim}{O}$ ’}
4878 \endsetslot
4879
4880 \setslot{\uctop{Odieresis}{odieresis}}
4881   \comment{The letter ‘ $\overset{¨}{O}$ ’}
4882 \endsetslot
4883
4884 \setslot{\uc{OE}{oe}}
4885   \comment{The letter ‘OE’. This is a single letter, and should not be
4886     faked with ‘OE’}
4887 \endsetslot
4888
4889 \setslot{\uc{Oslash}{oslash}}
4890   \comment{The letter ‘ $\O$ ’}
4891 \endsetslot
4892
4893 \setslot{\uctop{Ugrave}{ugrave}}
4894   \comment{The letter ‘ $\grave{U}$ ’}
4895 \endsetslot
4896
4897 \setslot{\uctop{Uacute}{uacute}}
4898   \comment{The letter ‘ $\acute{U}$ ’}
4899 \endsetslot
4900
4901 \setslot{\uctop{Ucircumflex}{ucircumflex}}
4902   \comment{The letter ‘ $\overset{\circ}{U}$ ’}
4903 \endsetslot
4904
4905 \setslot{\uctop{Udieresis}{udieresis}}
4906   \comment{The letter ‘ $\overset{¨}{U}$ ’}
4907 \endsetslot
4908
4909 \setslot{\uctop{Yacute}{yacute}}
4910   \comment{The letter ‘ $\acute{Y}$ ’}
4911 \endsetslot
4912
4913 \setslot{\uc{Thorn}{thorn}}
4914   \comment{The Icelandic capital letter Thorn, similar to a ‘P’
4915     with the bowl moved down. It is unavailable in \plain\ \TeX.}
4916 \endsetslot
4917
4918 \setslot{\uclig{SS}{germandbls}}
4919   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’}.
```

```
4920     In a monowidth font it should be two letters wide.}
4921 \endsetslot
4922
4923 \setslot{\lctop{Agrave}{agrave}}
4924     \comment{The letter '\` a'.}
4925 \endsetslot
4926
4927 \setslot{\lctop{Aacute}{aacute}}
4928     \comment{The letter '\` a'.}
4929 \endsetslot
4930
4931 \setslot{\lctop{Acircumflex}{acircumflex}}
4932     \comment{The letter '\^ a'.}
4933 \endsetslot
4934
4935 \setslot{\lctop{Atilde}{atilde}}
4936     \comment{The letter '\~ a'.}
4937 \endsetslot
4938
4939 \setslot{\lctop{Adieresis}{adieresis}}
4940     \comment{The letter '\" a'.}
4941 \endsetslot
4942
4943 \setslot{\lctop{Aring}{aring}}
4944     \comment{The letter '\r a'.}
4945 \endsetslot
4946
4947 \setslot{\lc{AE}{ae}}
4948     \comment{The letter 'ae'. This is a single letter, and should not be
4949         faked with 'ae'.}
4950 \endsetslot
4951
4952 \setslot{\lc{Ccedilla}{ccedilla}}
4953     \comment{The letter '\c c'.}
4954 \endsetslot
4955
4956 \setslot{\lctop{Egrave}{egrave}}
4957     \comment{The letter '\` e'.}
4958 \endsetslot
4959
4960 \setslot{\lctop{Eacute}{eacute}}
4961     \comment{The letter '\` e'.}
4962 \endsetslot
4963
4964 \setslot{\lctop{Ecircumflex}{ecircumflex}}
4965     \comment{The letter '\^ e'.}
4966 \endsetslot
4967
4968 \setslot{\lctop{Edieresis}{edieresis}}
```

```
4969 \comment{The letter ‘\ " e’ .}
4970 \endsetslot
4971
4972 \setslot{\lctop{Igrave}{igrave}}
4973 \comment{The letter ‘\ ‘\i’ .}
4974 \endsetslot
4975
4976 \setslot{\lctop{Iacute}{iacute}}
4977 \comment{The letter ‘\ ‘\i’ .}
4978 \endsetslot
4979
4980 \setslot{\lctop{Icircumflex}{icircumflex}}
4981 \comment{The letter ‘\ ^\i’ .}
4982 \endsetslot
4983
4984 \setslot{\lctop{Idieresis}{idieresis}}
4985 \comment{The letter ‘\ "\i’ .}
4986 \endsetslot
4987
4988 \setslot{\lc{Eth}{eth}}
4989 \comment{The Icelandic lowercase letter ‘eth’ similar to
4990 a ‘\partial$’ with an oblique bar through the stem.
4991 It is unavailable in \plain\ \TeX .}
4992 \endsetslot
4993
4994 \setslot{\lctop{Ntilde}{ntilde}}
4995 \comment{The letter ‘\ ~ n’ .}
4996 \endsetslot
4997
4998 \setslot{\lctop{Ograve}{ograve}}
4999 \comment{The letter ‘\ ‘ o’ .}
5000 \endsetslot
5001
5002 \setslot{\lctop{Oacute}{oacute}}
5003 \comment{The letter ‘\ ‘ o’ .}
5004 \endsetslot
5005
5006 \setslot{\lctop{Ocircumflex}{ocircumflex}}
5007 \comment{The letter ‘\ ^ o’ .}
5008 \endsetslot
5009
5010 \setslot{\lctop{Otilde}{otilde}}
5011 \comment{The letter ‘\ ~ o’ .}
5012 \endsetslot
5013
5014 \setslot{\lctop{Odieresis}{odieresis}}
5015 \comment{The letter ‘\ " o’ .}
5016 \endsetslot
5017
```



```
5018 \setslot{\lc{OE}{oe}}
5019   \comment{The letter ‘\oe’. This is a single letter, and should not be
5020     faked with ‘oe’..}
5021 \endsetslot
5022
5023 \setslot{\lc{Oslash}{oslash}}
5024   \comment{The letter ‘\o’..}
5025 \endsetslot
5026
5027 \setslot{\lctop{Ugrave}{ugrave}}
5028   \comment{The letter ‘\’ u’..}
5029 \endsetslot
5030
5031 \setslot{\lctop{Uacute}{uacute}}
5032   \comment{The letter ‘\’ u’..}
5033 \endsetslot
5034
5035 \setslot{\lctop{Ucircumflex}{ucircumflex}}
5036   \comment{The letter ‘\^ u’..}
5037 \endsetslot
5038
5039 \setslot{\lctop{Udieresis}{udieresis}}
5040   \comment{The letter ‘\” u’..}
5041 \endsetslot
5042
5043 \setslot{\lctop{Yacute}{yacute}}
5044   \comment{The letter ‘\’ y’..}
5045 \endsetslot
5046
5047 \setslot{\lc{Thorn}{thorn}}
5048   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
5049     with an ascender rising from the stem. It is unavailable
5050     in \plain\ \TeX..}
5051 \endsetslot
5052
5053 \setslot{\lc{SS}{germandbls}}
5054   \comment{The letter ‘\ss’..}
5055 \endsetslot
5056
5057 \endencoding
```

12.2 Supplementary (raw)

The initial encoding for Venturis ADF is straightforward and no supplementary encoding is needed to pick up misnamed or additional glyphs. Instead, we just let our encodings do double duty for input/raw as well as output.

Note that etx files may specify raw and/or output encodings. Those which are specific to venturisadf are included in venturisadf-build.dtx. Those which are not are included as

separate sources unless provided by `fontinst`.

12.3 Reglyph

No reglyphing is required for the Venturis ADF collection — yay!

12.4 MTX

`mtx` files are used to build ‘fake’ glyphs where these are missing from the original fonts. We do not fake small-caps or bold, but only glyphs which can be constructed without altering the original design. They are also used to ‘reset’ or adjust glyphs and kerning pairs, for example.

`venturis` is the only subset of fonts supported by `venturisadf` to require a custom `.mtx` file, `resetalt.mtx`.

In addition to this file, we use `mtx` files supplied by `fontinst` and some custom files not included in this package’s `dtx` as they are not specific to `venturisadf`. The latter are, however, part of the package and are itemized in `venturisadf-build.pdf`.

12.4.1 `resetalt.mtx`

```
5058 \relax
5059 \metrics
5060 \resetglyph{f}
5061 \glyph{f.alt}{1000}
5062 \endsetglyph
5063 \setleftrighthkerning{f}{f.alt}{1000}
5064 \resetglyph{l}
5065 \glyph{l.alt}{1000}
5066 \endsetglyph
5067 \setleftrighthkerning{l}{l.alt}{1000}
5068 \resetglyph{i}
5069 \glyph{i.alt}{1000}
5070 \endsetglyph
5071 \setleftrighthkerning{i}{i.alt}{1000}
5072 \resetglyph{I}
5073 \glyph{I.alt}{1000}
5074 \endsetglyph
5075 \setleftrighthkerning{I}{I.alt}{1000}
5076 \resetglyph{J}
5077 \glyph{J.alt}{1000}
5078 \endsetglyph
5079 \setleftrighthkerning{J}{J.alt}{1000}
5080 \resetglyph{j}
5081 \glyph{j.alt}{1000}
5082 \endsetglyph
5083 \setleftrighthkerning{j}{j.alt}{1000}
```

```
5084 \resetglyph{S}
5085 \glyph{S.alt}{1000}
5086 \endsetglyph
5087 \setleftrighthkerning{S}{S.alt}{1000}
5088 \endmetrics
```