

librisadf-build: Encodings

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Abstract

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

Contents

1	Supplementary (raw)	1
2	Reglyph	2
3	Encodings (output)	3
3.1	MTX	56

1 Supplementary (raw)

We need an additional ‘raw’ encoding to pick up characters otherwise missed. Many of these are here just because they are named differently, but this also covers fancy ligatures, alternate styles of digits etc.

Note that `etx` files may specify raw and/or output encodings. Those which are specific to LIBRIS-TC are described below and included in this file. Those which are not are included as separate sources unless provided by `fontinst`.

- `libris-supp.etx`

```
1 \relax
2 \encoding
```

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

```

3 \setslot{afi61352}\endsetslot
4 \setslot{c_t}\endsetslot
5 \setslot{longs_t}\endsetslot
6 \setslot{s_t}\endsetslot
7 \setslot{s_p}\endsetslot
8 \setslot{c_h}\endsetslot
9 \setslot{c_k}\endsetslot
10 \setslot{c_l}\endsetslot
11 \setslot{s_h}\endsetslot
12 \setslot{s_k}\endsetslot
13 \setslot{s_l}\endsetslot
14 \setslot{t_t}\endsetslot
15 \setslot{longs_i}\endsetslot
16 \setslot{longs_long_s_i}\endsetslot
17 \setslot{longs_long_s}\endsetslot
18 \setslot{K.alt}\endsetslot
19 \setslot{Q.alt}\endsetslot
20 \setslot{R.alt}\endsetslot
21 \setslot{X.alt}\endsetslot
22 \setslot{k.alt}\endsetslot
23 \setslot{f_j}\endsetslot
24 \setslot{f_f_j}\endsetslot
25 \setslot{f_f}\endsetslot
26 \setslot{f_f_i}\endsetslot
27 \setslot{f_f_l}\endsetslot
28 \endencoding

```

2 Reglyph

We need to rename characters whose names don't match our TeX font encodings.

- reglyph-yly.etx

```

29 \relax
30 \reglyphfonts
31 \renameglyph{numero}{afi61352}
32 \renameglyph{ff}{f_f}
33 \renameglyph{ffi}{f_f_i}
34 \renameglyph{ffl}{f_f_l}
35 \reglyphfont{ylyr8sr}{ylyr8s}
36 \reglyphfont{ylyb8sr}{ylyb8s}
37 \reglyphfont{ylyri8sr}{ylyri8s}
38 \reglyphfont{ylybi8sr}{ylybi8s}
39 \endreglyphfonts

```

3 Encodings (output)

These files define variant T1 and TS1 font encodings.

- `t1-libris.etx`
- `t1-librisswash.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 LibrisADF. They are, however, part of the package:

- `t1-cfr.etx`
- `ts1-euro.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.

```

40 \relax
41 \encoding
42
43 \needsfontinstversion{1.910}
44
45 \setcommand\lc#1#2{#2}
46 \setcommand\uc#1#2{#1}
47 \setcommand\lctop#1#2{#2}
48 \setcommand\uctop#1#2{#1}
49 \setcommand\clig#1#2{#2}
50 \ifisint{letterspacing}\then
51   \ifnumber{\int{letterspacing}}={0}\then \Else
52     \setcommand\uclig#1#2{#1spaced}
53     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
54       you can't see it as \verb|\setcommand| commands are invisible in
55       the typeset output.}
56   \Fi
57 \Fi
58 \setcommand\uclig#1#2{#1}
59 \setcommand\digit#1{#1}
60
61 \ifisint{monowidth}\then
62   \setint{ligaturing}{0}
63 \Else
64   % The following empty line is important to get the formatting
65   % right here (sigh)! (Remember that it is a \par token.)
66
```

```
67 \ifisint{letterspacing}\then
68 \ifnumber{\int{letterspacing}}={0}\then \Else
69 \setint{ligaturing}{0}
70 \Fi
71 \Fi
72 \setint{ligaturing}{1}
73 \Fi
74
75 \setint{italicslant}{0}
76 \setint{quad}{1000}
77 \setint{baselineskip}{1200}
78
79 \ifisglyph{x}\then
80 \setint{xheight}{\height{x}}
81 \Else
82 \setint{xheight}{500}
83 \Fi
84
85 \ifisglyph{space}\then
86 \setint{interword}{\width{space}}
87 \Else\ifisglyph{i}\then
88 \setint{interword}{\width{i}}
89 \Else
90 \setint{interword}{333}
91 \Fi\Fi
92
93 \ifisint{monowidth}\then
94 \setint{stretchword}{0}
95 \setint{shrinkword}{0}
96 \setint{extraspace}{\int{interword}}
97 \Else
98 \setint{stretchword}{\scale{\int{interword}}{600}}
99 \setint{shrinkword}{\scale{\int{interword}}{240}}
100 \setint{extraspace}{\scale{\int{interword}}{240}}
101 \Fi
102
103 \ifisglyph{X}\then
104 \setint{capheight}{\height{X}}
105 \Else
106 \setint{capheight}{750}
107 \Fi
108
109 \ifisglyph{d}\then
110 \setint{ascender}{\height{d}}
111 \Else\ifisint{capheight}\then
112 \setint{ascender}{\int{capheight}}
113 \Else
114 \setint{ascender}{750}
115 \Fi\Fi
```

```

116
117 \ifisglyph{Aring}\then
118   \setint{accapheight}{\height{Aring}}
119 \Else
120   \setint{accapheight}{999}
121 \Fi
122
123 \ifisint{descender_neg}\then
124   \setint{descender}{\neg{\int{descender_neg}}}
125 \Else\ifisglyph{p}\then
126   \setint{descender}{\depth{p}}
127 \Else
128   \setint{descender}{250}
129 \Fi\Fi
130
131 \ifisglyph{Aring}\then
132   \setint{maxheight}{\height{Aring}}
133 \Else
134   \setint{maxheight}{1000}
135 \Fi
136
137 \ifisint{maxdepth_neg}\then
138   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
139 \Else\ifisglyph{j}\then
140   \setint{maxdepth}{\depth{j}}
141 \Else
142   \setint{maxdepth}{250}
143 \Fi\Fi
144
145 \ifisglyph{six}\then
146   \setint{digitwidth}{\width{six}}
147 \Else
148   \setint{digitwidth}{500}
149 \Fi
150
151 \setint{capstem}{0} % not in AFM files
152
153 \setfontdimen{1}{italicslant} % italic slant
154 \setfontdimen{2}{interword} % interword space
155 \setfontdimen{3}{stretchword} % interword stretch
156 \setfontdimen{4}{shrinkword} % interword shrink
157 \setfontdimen{5}{xheight} % x-height
158 \setfontdimen{6}{quad} % quad
159 \setfontdimen{7}{extraspace} % extra space after .
160 \setfontdimen{8}{capheight} % cap height
161 \setfontdimen{9}{ascender} % ascender
162 \setfontdimen{10}{accapheight} % accented cap height
163 \setfontdimen{11}{descender} % descender's depth
164 \setfontdimen{12}{maxheight} % max height

```

```
165 \setfontdimen{13}{maxdepth} % max depth
166 \setfontdimen{14}{digitwidth} % digit width
167 \setfontdimen{15}{verticalstem} % dominant width of verical stems
168 \setfontdimen{16}{baselineskip} % baselineskip
169
170 \ifnumber{\int{ligaturing}}<{0}\then
171 \comment{In this case, the codingscheme can be different from the
172 default, and therefore we refrain from setting it.}
173 \Else
174 \setstr{codingscheme}{EXTENDED TEX ENC - LIBRIS}
175 \Fi
176
177 \setslot{\lc{Grave}{grave}}
178 \comment{The grave accent '\{'}'}
179 \endsetslot
180
181 \setslot{\lc{Acute}{acute}}
182 \comment{The acute accent '\{'}'}
183 \endsetslot
184
185 \setslot{\lc{Circumflex}{circumflex}}
186 \comment{The circumflex accent '\^{'}'}
187 \endsetslot
188
189 \setslot{\lc{Tilde}{tilde}}
190 \comment{The tilde accent '\~{'}'}
191 \endsetslot
192
193 \setslot{\lc{Dieresis}{dieresis}}
194 \comment{The umlaut or dieresis accent '\"{}'}
195 \endsetslot
196
197 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
198 \comment{The long Hungarian umlaut '\H{'}'}
199 \endsetslot
200
201 \setslot{\lc{Ring}{ring}}
202 \comment{The ring accent '\r{'}'}
203 \endsetslot
204
205 \setslot{\lc{Caron}{caron}}
206 \comment{The caron or h'a\v cek accent '\v{'}'}
207 \endsetslot
208
209 \setslot{\lc{Breve}{breve}}
210 \comment{The breve accent '\u{'}'}
211 \endsetslot
212
213 \setslot{\lc{Macron}{macron}}
```

```
214 \comment{The macron accent '\={}'}
215 \endsetslot
216
217 \setslot{\lc{Dotaccent}{dotaccent}}
218 \comment{The dot accent '\.{}'}
219 \endsetslot
220
221 \setslot{\lc{Cedilla}{cedilla}}
222 \comment{The cedilla accent '\c {}'}
223 \endsetslot
224
225 \setslot{\lc{Ogonek}{ogonek}}
226 \comment{The ogonek accent '\k {}'}
227 \endsetslot
228
229 \setslot{quotesinglbase}
230 \comment{A German single quote mark '\quotesinglbase' similar to a comma,
231 but with different sidebearings.}
232 \endsetslot
233
234 \setslot{guilsinglleft}
235 \comment{A French single opening quote mark '\guilsinglleft',
236 unavailable in \plain\ \TeX.}
237 \endsetslot
238
239 \setslot{guilsinglright}
240 \comment{A French single closing quote mark '\guilsinglright',
241 unavailable in \plain\ \TeX.}
242 \endsetslot
243
244 \setslot{quotedblleft}
245 \comment{The English opening quote mark '\,\textquotedblleft\,'}
246 \endsetslot
247
248 \setslot{quotedblright}
249 \comment{The English closing quote mark '\,\textquotedblright\,'}
250 \endsetslot
251
252 \setslot{quotedblbase}
253 \comment{A German double quote mark '\quotedblbase' similar to two commas,
254 but with tighter letterspacing and different sidebearings.}
255 \endsetslot
256
257 \setslot{guillemotleft}
258 \comment{A French double opening quote mark '\guillemotleft',
259 unavailable in \plain\ \TeX.}
260 \endsetslot
261
262 \setslot{guillemotright}
```

```

263 \comment{A French closing opening quote mark ‘\guillemotright’,
264     unavailable in \plain\ \TeX.}
265 \endsetslot
266
267 \setslot{endash}
268 \ligature{LIG}{hyphen}{emdash}
269 \comment{The number range dash ‘1--9’. This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be ca
    idth font, this
270     might be set as ‘\texttt{1{-}9}’.}
271 \endsetslot
272
273 \setslot{emdash}
274 \comment{The punctuation dash ‘Oh---boy.’ This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be ca
    idth font, this
275     might be set as ‘\texttt{Oh{-}{-}boy.’}
276 \endsetslot
277
278 \setslot{compwordmark}
279 \comment{An invisible glyph, with zero width and depth, but the
280     height of lowercase letters without ascenders.
281     It is used to stop ligaturing in words like ‘shelf{}ful’}
282 \endsetslot
283
284 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
285
286 \setslot{\lclig{TT}{t_t}}
287 \comment{The ligature ‘tt’. This slot is usually assigned to
288     the perthousandzero but that letter is unavailable in this font.}
289 \endsetslot
290
291 \Fi
292
293 \setslot{\lc{dotlessI}{dotlessi}}
294 \comment{A dotless i ‘i’, used to produce accented letters such as
295     ‘\=\i’}
296 \endsetslot
297
298 \setslot{\lc{dotlessJ}{dotlessj}}
299 \comment{A dotless j ‘j’, used to produce accented letters such as
300     ‘\=\j’. Most non-\TeX\ fonts do not have this glyph.}
301 \endsetslot
302
303 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
304
305 \setslot{\lclig{FF}{ff}}
306 \ifnumber{\int{ligaturing}}>{0}\then
307     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
308     \ligature{LIG}{\lc{J}{j}}{\lclig{FFJ}{f_f_j}}
309     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}

```



```
310 \Fi
311 \comment{The ‘ff’ ligature. It should be two characters wide in a
312 monowidth font.}
313 \endsetslot
314
315 \setslot{\lclig{FI}{fi}}
316 \comment{The ‘fi’ ligature. It should be two characters wide in a
317 monowidth font.}
318 \endsetslot
319
320 \setslot{\lclig{FL}{fl}}
321 \comment{The ‘fl’ ligature. It should be two characters wide in a
322 monowidth font.}
323 \endsetslot
324
325 \setslot{\lclig{FFI}{ffi}}
326 \comment{The ‘ffi’ ligature. It should be three characters wide in a
327 monowidth font.}
328 \endsetslot
329
330 \setslot{\lclig{FFL}{ffl}}
331 \comment{The ‘ffl’ ligature. It should be three characters wide in a
332 monowidth font.}
333 \endsetslot
334
335 \Fi
336
337 \setslot{visiblespace}
338 \comment{A visible space glyph ‘\textvisiblespace’.}
339 \endsetslot
340
341 \setslot{exclam}
342 \ligature{LIG}{quoteleft}{exclamdown}
343 \comment{The exclamation mark ‘!’.}
344 \endsetslot
345
346 \setslot{quotedbl}
347 \comment{The ‘neutral’ double quotation mark ‘\, \textquotedbl\’,
348 included for use in monowidth fonts, or for setting computer
349 programs. Note that the inclusion of this glyph in this slot
350 means that \TeX\ documents which used ‘{\tt\char“}’ as an
351 input character will no longer work.}
352 \endsetslot
353
354 \setslot{numbersign}
355 \comment{The hash sign ‘\#’.}
356 \endsetslot
357
358 \setslot{dollar}
```

```
359 \comment{The dollar sign '\$'.}
360 \endsetslot
361
362 \setslot{percent}
363 \comment{The percent sign '\%'.}
364 \endsetslot
365
366 \setslot{ampersand}
367 \comment{The ampersand sign '\&'.}
368 \endsetslot
369
370 \setslot{quoteright}
371 \ligature{LIG}{quoteright}{quotedblright}
372 \comment{The English closing single quote mark '\,\textquoteright\,'.}
373 \endsetslot
374
375 \setslot{parenleft}
376 \comment{The opening parenthesis '('}.}
377 \endsetslot
378
379 \setslot{parenright}
380 \comment{The closing parenthesis ')'}.}
381 \endsetslot
382
383 \setslot{asterisk}
384 \comment{The raised asterisk '*'.}
385 \endsetslot
386
387 \setslot{plus}
388 \comment{The addition sign '+'.}
389 \endsetslot
390
391 \setslot{comma}
392 \ligature{LIG}{comma}{quotedblbase}
393 \comment{The comma ','}.}
394 \endsetslot
395
396 \setslot{hyphen}
397 \ligature{LIG}{hyphen}{endash}
398 \ligature{LIG}{hyphenchar}{hyphenchar}
399 \comment{The hyphen '-'.}
400 \endsetslot
401
402 \setslot{period}
403 \comment{The period '.'}.}
404 \endsetslot
405
406 \setslot{slash}
407 \comment{The forward oblique '/'.}
```

```
408 \endsetslot
409
410 \setslot{\digit{zero}}
411 \comment{The number '0'. This (and all the other numerals) may be
412   old style or ranging digits.}
413 \endsetslot
414
415 \setslot{\digit{one}}
416 \comment{The number '1'.}
417 \endsetslot
418
419 \setslot{\digit{two}}
420 \comment{The number '2'.}
421 \endsetslot
422
423 \setslot{\digit{three}}
424 \comment{The number '3'.}
425 \endsetslot
426
427 \setslot{\digit{four}}
428 \comment{The number '4'.}
429 \endsetslot
430
431 \setslot{\digit{five}}
432 \comment{The number '5'.}
433 \endsetslot
434
435 \setslot{\digit{six}}
436 \comment{The number '6'.}
437 \endsetslot
438
439 \setslot{\digit{seven}}
440 \comment{The number '7'.}
441 \endsetslot
442
443 \setslot{\digit{eight}}
444 \comment{The number '8'.}
445 \endsetslot
446
447 \setslot{\digit{nine}}
448 \comment{The number '9'.}
449 \endsetslot
450
451 \setslot{colon}
452 \comment{The colon punctuation mark ':'}
453 \endsetslot
454
455 \setslot{semicolon}
456 \comment{The semi-colon punctuation mark ';'}
```

```
457 \endsetslot
458
459 \setslot{less}
460 \ligature{LIG}{less}{guillemotleft}
461 \comment{The less-than sign '\textless'.}
462 \endsetslot
463
464 \setslot{equal}
465 \comment{The equals sign '='.}
466 \endsetslot
467
468 \setslot{greater}
469 \ligature{LIG}{greater}{guillemotright}
470 \comment{The greater-than sign '\textgreater'.}
471 \endsetslot
472
473 \setslot{question}
474 \ligature{LIG}{quoteleft}{questiondown}
475 \comment{The question mark '?'.}
476 \endsetslot
477
478 \setslot{at}
479 \comment{The at sign '@'.}
480 \endsetslot
481
482 \setslot{\uc{A}{a}}
483 \comment{The letter '{A}'.}
484 \endsetslot
485
486 \setslot{\uc{B}{b}}
487 \comment{The letter '{B}'.}
488 \endsetslot
489
490 \setslot{\uc{C}{c}}
491 \comment{The letter '{C}'.}
492 \endsetslot
493
494 \setslot{\uc{D}{d}}
495 \comment{The letter '{D}'.}
496 \endsetslot
497
498 \setslot{\uc{E}{e}}
499 \comment{The letter '{E}'.}
500 \endsetslot
501
502 \setslot{\uc{F}{f}}
503 \comment{The letter '{F}'.}
504 \endsetslot
505
```

```
506 \setslot{\uc{G}{g}}
507 \comment{The letter '{G}'}
508 \endslot
509
510 \setslot{\uc{H}{h}}
511 \comment{The letter '{H}'}
512 \endslot
513
514 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
515
516 \setslot{\uc{I}{i}}
517 \comment{The letter '{I}'}
518 \endslot
519
520 \Fi
521
522 \setslot{\uc{J}{j}}
523 \comment{The letter '{J}'}
524 \endslot
525
526 \setslot{\uc{K}{k}}
527 \comment{The letter '{K}'}
528 \endslot
529
530 \setslot{\uc{L}{l}}
531 \comment{The letter '{L}'}
532 \endslot
533
534 \setslot{\uc{M}{m}}
535 \comment{The letter '{M}'}
536 \endslot
537
538 \setslot{\uc{N}{n}}
539 \comment{The letter '{N}'}
540 \endslot
541
542 \setslot{\uc{O}{o}}
543 \comment{The letter '{O}'}
544 \endslot
545
546 \setslot{\uc{P}{p}}
547 \comment{The letter '{P}'}
548 \endslot
549
550 \setslot{\uc{Q}{q}}
551 \comment{The letter '{Q}'}
552 \endslot
553
554 \setslot{\uc{R}{r}}
```

```
555 \comment{The letter ‘{R}’}
556 \endsetslot
557
558 \setslot{\uc{S}{s}}
559 \comment{The letter ‘{S}’}
560 \endsetslot
561
562 \setslot{\uc{T}{t}}
563 \comment{The letter ‘{T}’}
564 \endsetslot
565
566 \setslot{\uc{U}{u}}
567 \comment{The letter ‘{U}’}
568 \endsetslot
569
570 \setslot{\uc{V}{v}}
571 \comment{The letter ‘{V}’}
572 \endsetslot
573
574 \setslot{\uc{W}{w}}
575 \comment{The letter ‘{W}’}
576 \endsetslot
577
578 \setslot{\uc{X}{x}}
579 \comment{The letter ‘{X}’}
580 \endsetslot
581
582 \setslot{\uc{Y}{y}}
583 \comment{The letter ‘{Y}’}
584 \endsetslot
585
586 \setslot{\uc{Z}{z}}
587 \comment{The letter ‘{Z}’}
588 \endsetslot
589
590 \setslot{bracketleft}
591 \comment{The opening square bracket ‘{’}
592 \endsetslot
593
594 \setslot{backslash}
595 \comment{The backwards oblique ‘\textbackslash’}
596 \endsetslot
597
598 \setslot{bracketright}
599 \comment{The closing square bracket ‘}’}
600 \endsetslot
601
602 \setslot{asciicircum}
603 \comment{The ASCII upward-pointing arrow head ‘\textasciicircum’}
```

```

604   This is included for compatibility with typewriter fonts used
605   for computer listings.}
606 \endsetslot
607
608 \setslot{underscore}
609   \comment{The ASCII underline character '\textunderscore', usually
610   set on the baseline.
611   This is included for compatibility with typewriter fonts used
612   for computer listings.}
613 \endsetslot
614
615 \setslot{quoteleft}
616   \ligature{LIG}{quoteleft}{quotedblleft}
617   \comment{The English opening single quote mark '\,\textquoteleft\,'.}
618 \endsetslot
619
620 \setslot{\lc{A}{a}}
621   \comment{The letter '{a}'.}
622 \endsetslot
623
624 \setslot{\lc{B}{b}}
625   \comment{The letter '{b}'.}
626 \endsetslot
627
628 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
629
630   \setslot{\lc{C}{c}}
631     \comment{The letter '{c}'.}
632   \endsetslot
633
634 \Fi
635
636 \setslot{\lc{D}{d}}
637   \comment{The letter '{d}'.}
638 \endsetslot
639
640 \setslot{\lc{E}{e}}
641   \comment{The letter '{e}'.}
642 \endsetslot
643
644 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
645
646   \setslot{\lc{F}{f}}
647     \ifnumber{\int{ligaturing}}>{0}\then
648       \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
649       \ligature{LIG}{\lc{J}{j}}{\lclig{FJ}{f_j}}
650       \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
651       \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
652     \Fi

```

```
653   \comment{The letter '{f}'.}
654   \endsetslot
655
656 \Fi
657
658 \setslot{\lc{G}{g}}
659   \comment{The letter '{g}'.}
660 \endsetslot
661
662 \setslot{\lc{H}{h}}
663   \comment{The letter '{h}'.}
664 \endsetslot
665
666 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
667
668   \setslot{\lc{I}{i}}
669     \comment{The letter '{i}'.}
670   \endsetslot
671
672 \Fi
673
674 \setslot{\lc{J}{j}}
675   \comment{The letter '{j}'.}
676 \endsetslot
677
678 \setslot{\lc{K}{k}}
679   \comment{The letter '{k}'.}
680 \endsetslot
681
682 \setslot{\lc{L}{l}}
683   \comment{The letter '{l}'.}
684 \endsetslot
685
686 \setslot{\lc{M}{m}}
687   \comment{The letter '{m}'.}
688 \endsetslot
689
690 \setslot{\lc{N}{n}}
691   \comment{The letter '{n}'.}
692 \endsetslot
693
694 \setslot{\lc{O}{o}}
695   \comment{The letter '{o}'.}
696 \endsetslot
697
698 \setslot{\lc{P}{p}}
699   \comment{The letter '{p}'.}
700 \endsetslot
701
```



```

702 \setslot{\lc{Q}{q}}
703   \comment{The letter '{q}'.}
704 \endslot
705
706 \setslot{\lc{R}{r}}
707   \comment{The letter '{r}'.}
708 \endslot
709
710 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
711
712   \setslot{\lc{S}{s}}
713     \comment{The letter '{s}'.}
714   \endslot
715
716 \Fi
717
718 \setslot{\lc{T}{t}}
719   \ifnumber{\int{ligaturing}}>{0}\then
720     \ligature{LIG}{\lc{T}{t}}{\lclig{TT}{t_t}}
721 \Fi
722   \comment{The letter '{t}'.}
723 \endslot
724
725 \setslot{\lc{U}{u}}
726   \comment{The letter '{u}'.}
727 \endslot
728
729 \setslot{\lc{V}{v}}
730   \comment{The letter '{v}'.}
731 \endslot
732
733 \setslot{\lc{W}{w}}
734   \comment{The letter '{w}'.}
735 \endslot
736
737 \setslot{\lc{X}{x}}
738   \comment{The letter '{x}'.}
739 \endslot
740
741 \setslot{\lc{Y}{y}}
742   \comment{The letter '{y}'.}
743 \endslot
744
745 \setslot{\lc{Z}{z}}
746   \comment{The letter '{z}'.}
747 \endslot
748
749 \setslot{braceleft}
750   \comment{The opening curly brace '\textbraceleft'.}

```

```
751 \endsetslot
752
753 \setslot{bar}
754 \comment{The ASCII vertical bar '\textbar'.
755 This is included for compatibility with typewriter fonts used
756 for computer listings.}
757 \endsetslot
758
759 \setslot{braceright}
760 \comment{The closing curly brace '\textbraceright'.}
761 \endsetslot
762
763 \setslot{asciitilde}
764 \comment{The ASCII tilde '\textasciitilde'.
765 This is included for compatibility with typewriter fonts used
766 for computer listings.}
767 \endsetslot
768
769 \setslot{hyphenchar}
770 \comment{The glyph used for hyphenation in this font, which will
771 almost always be the same as 'hyphen'.}
772 \endsetslot
773
774 \setslot{\uctop{Abreve}{abreve}}
775 \comment{The letter '\u A'.}
776 \endsetslot
777
778 \setslot{\uc{Aogonek}{aogonek}}
779 \comment{The letter '\k A'.}
780 \endsetslot
781
782 \setslot{\uctop{Cacute}{cacute}}
783 \comment{The letter '\ C'.}
784 \endsetslot
785
786 \setslot{\uctop{Ccaron}{ccaron}}
787 \comment{The letter '\v C'.}
788 \endsetslot
789
790 \setslot{\uctop{Dcaron}{dcaron}}
791 \comment{The letter '\v D'.}
792 \endsetslot
793
794 \setslot{\uctop{Ecaron}{ecaron}}
795 \comment{The letter '\v E'.}
796 \endsetslot
797
798 \setslot{\uc{Eogonek}{eogonek}}
799 \comment{The letter '\k E'.
```

```

800 \endsetslot
801
802 \setslot{\uctop{Gbreve}{gbreve}}
803   \comment{The letter '\u G'.}
804 \endsetslot
805
806 \setslot{\uctop{Lacute}{lacute}}
807   \comment{The letter '\ L'.}
808 \endsetslot
809
810 \setslot{\uc{Lcaron}{lcaron}}
811   \comment{The letter '\v L'.}
812 \endsetslot
813
814 \setslot{\uc{Lslash}{lslash}}
815   \comment{The letter '\L'.}
816 \endsetslot
817
818 \setslot{\uctop{Nacute}{nacute}}
819   \comment{The letter '\ N'.}
820 \endsetslot
821
822 \setslot{\uctop{Ncaron}{ncaron}}
823   \comment{The letter '\v N'.}
824 \endsetslot
825
826 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
827
828 \setslot{\lclig{FJ}{f_j}}
829   \comment{The 'fj' ligature. It should be two characters wide in a
830     monowidth font. In standard T1 encoding this slot is used for Eng/Ng
831     but that character is unavailable in this font.}
832 \endsetslot
833
834 \Fi
835
836 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
837   \comment{The letter '\H O'.}
838 \endsetslot
839
840 \setslot{\uctop{Racute}{racute}}
841   \comment{The letter '\ R'.}
842 \endsetslot
843
844 \setslot{\uctop{Rcaron}{rcaron}}
845   \comment{The letter '\v R'.}
846 \endsetslot
847
848 \setslot{\uctop{Sacute}{sacute}}

```

```
849 \comment{The letter '\ S'.}
850 \endsetslot
851
852 \setslot{\uctop{Scaron}{scaron}}
853 \comment{The letter '\v S'.}
854 \endsetslot
855
856 \setslot{\uc{Scedilla}{scedilla}}
857 \comment{The letter '\c S'.}
858 \endsetslot
859
860 \setslot{\uctop{Tcaron}{tcaron}}
861 \comment{The letter '\v T'.}
862 \endsetslot
863
864 \setslot{\uc{Tcedilla}{tcedilla}}
865 \comment{The letter '\c T'.}
866 \endsetslot
867
868 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
869 \comment{The letter '\H U'.}
870 \endsetslot
871
872 \setslot{\uctop{Uring}{uring}}
873 \comment{The letter '\r U'.}
874 \endsetslot
875
876 \setslot{\uctop{Ydieresis}{ydieresis}}
877 \comment{The letter '\ " Y'.}
878 \endsetslot
879
880 \setslot{\uctop{Zacute}{zacute}}
881 \comment{The letter '\ ' Z'.}
882 \endsetslot
883
884 \setslot{\uctop{Zcaron}{zcaron}}
885 \comment{The letter '\v Z'.}
886 \endsetslot
887
888 \setslot{\uctop{Zdotaccent}{zdotaccent}}
889 \comment{The letter '\. Z'.}
890 \endsetslot
891
892 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
893
894 \setslot{\uclig{IJ}{ij}}
895 \comment{The letter 'IJ'. This is a single letter, and in a
896 monowidth font should ideally be one letter wide.}
897 \endsetslot
```

```
898
899 \Fi
900
901 \setslot{\uctop{Idotaccent}{idotaccent}}
902 \comment{The letter '\. I'.}
903 \endsetslot
904
905 \setslot{\lc{Dbar}{dbar}}
906 \comment{The letter '\dj'.}
907 \endsetslot
908
909 \setslot{section}
910 \comment{The section mark '\textsection'.}
911 \endsetslot
912
913 \setslot{\lctop{Abreve}{abreve}}
914 \comment{The letter '\u a'.}
915 \endsetslot
916
917 \setslot{\lc{Aogonek}{aogonek}}
918 \comment{The letter '\k a'.}
919 \endsetslot
920
921 \setslot{\lctop{Cacute}{cacute}}
922 \comment{The letter '\' c'.}
923 \endsetslot
924
925 \setslot{\lctop{Ccaron}{ccaron}}
926 \comment{The letter '\v c'.}
927 \endsetslot
928
929 \setslot{\lctop{Dcaron}{dcaron}}
930 \comment{The letter '\v d'.}
931 \endsetslot
932
933 \setslot{\lctop{Ecaron}{ecaron}}
934 \comment{The letter '\v e'.}
935 \endsetslot
936
937 \setslot{\lc{Eogonek}{eogonek}}
938 \comment{The letter '\k e'.}
939 \endsetslot
940
941 \setslot{\lctop{Gbreve}{gbreve}}
942 \comment{The letter '\u g'.}
943 \endsetslot
944
945 \setslot{\lctop{Lacute}{lacute}}
946 \comment{The letter '\' l'.}
```

```
947 \endsetslot
948
949 \setslot{\lc{Lcaron}{lcaron}}
950   \comment{The letter ‘\v l’}
951 \endsetslot
952
953 \setslot{\lc{Lslash}{lslash}}
954   \comment{The letter ‘\l’}
955 \endsetslot
956
957 \setslot{\lctop{Nacute}{nacute}}
958   \comment{The letter ‘\’ n’}
959 \endsetslot
960
961 \setslot{\lctop{Ncaron}{ncaron}}
962   \comment{The letter ‘\v n’}
963 \endsetslot
964
965 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
966
967 \setslot{\lclig{FFJ}{f_f_j}}
968   \comment{The ‘ffj’ ligature. It should be two characters wide in a
969     monowidth font. In standard T1 encoding this slot is used for eng/ng
970     but that character is unavailable in this font.}
971 \endsetslot
972
973 \Fi
974
975 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
976   \comment{The letter ‘\H o’}
977 \endsetslot
978
979 \setslot{\lctop{Racute}{racute}}
980   \comment{The letter ‘\’ r’}
981 \endsetslot
982
983 \setslot{\lctop{Rcaron}{rcaron}}
984   \comment{The letter ‘\v r’}
985 \endsetslot
986
987 \setslot{\lctop{Sacute}{sacute}}
988   \comment{The letter ‘\’ s’}
989 \endsetslot
990
991 \setslot{\lctop{Scaron}{scaron}}
992   \comment{The letter ‘\v s’}
993 \endsetslot
994
995 \setslot{\lc{Scedilla}{scedilla}}
```

```
996 \comment{The letter ‘\c s’}
997 \endsetslot
998
999 \setslot{\lctop{Tcaron}{tcaron}}
1000 \comment{The letter ‘\v t’}
1001 \endsetslot
1002
1003 \setslot{\lc{Tcedilla}{tcedilla}}
1004 \comment{The letter ‘\c t’}
1005 \endsetslot
1006
1007 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
1008 \comment{The letter ‘\H u’}
1009 \endsetslot
1010
1011 \setslot{\lctop{Uring}{uring}}
1012 \comment{The letter ‘\r u’}
1013 \endsetslot
1014
1015 \setslot{\lctop{Ydieresis}{ydieresis}}
1016 \comment{The letter ‘\ " y’}
1017 \endsetslot
1018
1019 \setslot{\lctop{Zacute}{zacute}}
1020 \comment{The letter ‘\ ’ z’}
1021 \endsetslot
1022
1023 \setslot{\lctop{Zcaron}{zcaron}}
1024 \comment{The letter ‘\v z’}
1025 \endsetslot
1026
1027 \setslot{\lctop{Zdotaccent}{zdotaccent}}
1028 \comment{The letter ‘\ . z’}
1029 \endsetslot
1030
1031 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
1032
1033 \setslot{\lclig{IJ}{ij}}
1034 \comment{The letter ‘ij’. This is a single letter, and in a
1035 monowidth font should ideally be one letter wide.}
1036 \endsetslot
1037
1038 \Fi
1039
1040 \setslot{exclamdown}
1041 \comment{The Spanish punctuation mark ‘!’}
1042 \endsetslot
1043
1044 \setslot{questiondown}
```

```
1045 \comment{The Spanish punctuation mark ‘?’}
1046 \endsetslot
1047
1048 \setslot{sterling}
1049 \comment{The British currency mark ‘\textsterling’.}
1050 \endsetslot
1051
1052 \setslot{\uctop{Agrave}{agrave}}
1053 \comment{The letter ‘\` A’}
1054 \endsetslot
1055
1056 \setslot{\uctop{Aacute}{aacute}}
1057 \comment{The letter ‘\` A’}
1058 \endsetslot
1059
1060 \setslot{\uctop{Acircumflex}{acircumflex}}
1061 \comment{The letter ‘\^ A’}
1062 \endsetslot
1063
1064 \setslot{\uctop{Atilde}{atilde}}
1065 \comment{The letter ‘\~ A’}
1066 \endsetslot
1067
1068 \setslot{\uctop{Adieresis}{adieresis}}
1069 \comment{The letter ‘\` A’}
1070 \endsetslot
1071
1072 \setslot{\uctop{Aring}{aring}}
1073 \comment{The letter ‘\r A’}
1074 \endsetslot
1075
1076 \setslot{\uc{AE}{ae}}
1077 \comment{The letter ‘\AE’. This is a single letter, and should not be
1078 faked with ‘AE’}
1079 \endsetslot
1080
1081 \setslot{\uc{Ccedilla}{ccedilla}}
1082 \comment{The letter ‘\c C’}
1083 \endsetslot
1084
1085 \setslot{\uctop{Egrave}{egrave}}
1086 \comment{The letter ‘\` E’}
1087 \endsetslot
1088
1089 \setslot{\uctop{Eacute}{eacute}}
1090 \comment{The letter ‘\` E’}
1091 \endsetslot
1092
1093 \setslot{\uctop{Ecircumflex}{ecircumflex}}
```



```
1094 \comment{The letter ‘ $\hat{E}$ ’}
1095 \endsetslot
1096
1097 \setslot{\uctop{Edieresis}{edieresis}}
1098 \comment{The letter ‘ $\text{¨E}$ ’}
1099 \endsetslot
1100
1101 \setslot{\uctop{Igrave}{igrave}}
1102 \comment{The letter ‘ $\grave{I}$ ’}
1103 \endsetslot
1104
1105 \setslot{\uctop{Iacute}{iacute}}
1106 \comment{The letter ‘ $\acute{I}$ ’}
1107 \endsetslot
1108
1109 \setslot{\uctop{Icircumflex}{icircumflex}}
1110 \comment{The letter ‘ $\hat{I}$ ’}
1111 \endsetslot
1112
1113 \setslot{\uctop{Idieresis}{idieresis}}
1114 \comment{The letter ‘ $\text{¨I}$ ’}
1115 \endsetslot
1116
1117 \setslot{\uc{Eth}{eth}}
1118 \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
1119 with a horizontal bar through the stem. It is unavailable
1120 in \plain\TeX.}
1121 \endsetslot
1122
1123 \setslot{\uctop{Ntilde}{ntilde}}
1124 \comment{The letter ‘ $\tilde{N}$ ’}
1125 \endsetslot
1126
1127 \setslot{\uctop{Ograve}{ograve}}
1128 \comment{The letter ‘ $\grave{O}$ ’}
1129 \endsetslot
1130
1131 \setslot{\uctop{Oacute}{oacute}}
1132 \comment{The letter ‘ $\acute{O}$ ’}
1133 \endsetslot
1134
1135 \setslot{\uctop{Ocircumflex}{ocircumflex}}
1136 \comment{The letter ‘ $\hat{O}$ ’}
1137 \endsetslot
1138
1139 \setslot{\uctop{Otilde}{otilde}}
1140 \comment{The letter ‘ $\tilde{O}$ ’}
1141 \endsetslot
1142
```

```
1143 \setslot{\uctop{Odieresis}{odieresis}}
1144 \comment{The letter '\ " O'.}
1145 \endsetslot
1146
1147 \setslot{\uc{OE}{oe}}
1148 \comment{The letter '\OE'. This is a single letter, and should not be
1149 faked with 'OE'.}
1150 \endsetslot
1151
1152 \setslot{\uc{Oslash}{oslash}}
1153 \comment{The letter '\O'.}
1154 \endsetslot
1155
1156 \setslot{\uctop{Ugrave}{ugrave}}
1157 \comment{The letter '\ ' U'.}
1158 \endsetslot
1159
1160 \setslot{\uctop{Uacute}{uacute}}
1161 \comment{The letter '\ ' U'.}
1162 \endsetslot
1163
1164 \setslot{\uctop{Ucircumflex}{ucircumflex}}
1165 \comment{The letter '\ ^ U'.}
1166 \endsetslot
1167
1168 \setslot{\uctop{Udieresis}{udieresis}}
1169 \comment{The letter '\ " U'.}
1170 \endsetslot
1171
1172 \setslot{\uctop{Yacute}{yacute}}
1173 \comment{The letter '\ ' Y'.}
1174 \endsetslot
1175
1176 \setslot{\uc{Thorn}{thorn}}
1177 \comment{The Icelandic capital letter Thorn, similar to a 'P'
1178 with the bowl moved down. It is unavailable in \plain\ \TeX.}
1179 \endsetslot
1180
1181 \setslot{\uclig{SS}{germandbls}}
1182 \comment{The ligature 'SS', used to give an upper case '\ss'.
1183 In a monowidth font it should be two letters wide.}
1184 \endsetslot
1185
1186 \setslot{\lctop{Agrave}{agrave}}
1187 \comment{The letter '\ ' a'.}
1188 \endsetslot
1189
1190 \setslot{\lctop{Aacute}{aacute}}
1191 \comment{The letter '\ ' a'.}
```

```
1192 \endsetslot
1193
1194 \setslot{\lctop{Acircumflex}{acircumflex}}
1195 \comment{The letter ‘ $\hat{a}$ ’}
1196 \endsetslot
1197
1198 \setslot{\lctop{Atilde}{atilde}}
1199 \comment{The letter ‘ $\tilde{a}$ ’}
1200 \endsetslot
1201
1202 \setslot{\lctop{Adieresis}{adieresis}}
1203 \comment{The letter ‘ $\ddot{a}$ ’}
1204 \endsetslot
1205
1206 \setslot{\lctop{Aring}{aring}}
1207 \comment{The letter ‘ $\text{\r a}$ ’}
1208 \endsetslot
1209
1210 \setslot{\lc{AE}{ae}}
1211 \comment{The letter ‘ $\text{\ae}$ ’. This is a single letter, and should not be
1212 faked with ‘ae’}
1213 \endsetslot
1214
1215 \setslot{\lc{Ccedilla}{ccedilla}}
1216 \comment{The letter ‘ $\text{\c c}$ ’}
1217 \endsetslot
1218
1219 \setslot{\lctop{Egrave}{egrave}}
1220 \comment{The letter ‘ $\grave{e}$ ’}
1221 \endsetslot
1222
1223 \setslot{\lctop{Eacute}{eacute}}
1224 \comment{The letter ‘ $\acute{e}$ ’}
1225 \endsetslot
1226
1227 \setslot{\lctop{Ecircumflex}{ecircumflex}}
1228 \comment{The letter ‘ $\hat{e}$ ’}
1229 \endsetslot
1230
1231 \setslot{\lctop{Edieresis}{edieresis}}
1232 \comment{The letter ‘ $\ddot{e}$ ’}
1233 \endsetslot
1234
1235 \setslot{\lctop{Igrave}{igrave}}
1236 \comment{The letter ‘ $\grave{i}$ ’}
1237 \endsetslot
1238
1239 \setslot{\lctop{Iacute}{iacute}}
1240 \comment{The letter ‘ $\acute{i}$ ’}
```

```
1241 \endsetslot
1242
1243 \setslot{\lctop{Icircumflex}{icircumflex}}
1244 \comment{The letter ‘ $\overset{\circ}{i}$ ’.}
1245 \endsetslot
1246
1247 \setslot{\lctop{Idieresis}{idieresis}}
1248 \comment{The letter ‘ $\overset{\circ}{i}$ ’.}
1249 \endsetslot
1250
1251 \setslot{\lc{Eth}{eth}}
1252 \comment{The Icelandic lowercase letter ‘eth’ similar to
1253 a ‘ $\partial$ ’ with an oblique bar through the stem.
1254 It is unavailable in \plain \TeX.}
1255 \endsetslot
1256
1257 \setslot{\lctop{Ntilde}{ntilde}}
1258 \comment{The letter ‘ $\tilde{n}$ ’.}
1259 \endsetslot
1260
1261 \setslot{\lctop{Ograve}{ograve}}
1262 \comment{The letter ‘ $\grave{o}$ ’.}
1263 \endsetslot
1264
1265 \setslot{\lctop{Oacute}{oacute}}
1266 \comment{The letter ‘ $\acute{o}$ ’.}
1267 \endsetslot
1268
1269 \setslot{\lctop{Ocircumflex}{ocircumflex}}
1270 \comment{The letter ‘ $\overset{\circ}{o}$ ’.}
1271 \endsetslot
1272
1273 \setslot{\lctop{Otilde}{otilde}}
1274 \comment{The letter ‘ $\tilde{o}$ ’.}
1275 \endsetslot
1276
1277 \setslot{\lctop{Odieresis}{odieresis}}
1278 \comment{The letter ‘ $\overset{\circ}{o}$ ’.}
1279 \endsetslot
1280
1281 \setslot{\lc{OE}{oe}}
1282 \comment{The letter ‘ $\text{\oe}$ ’. This is a single letter, and should not be
1283 faked with ‘oe’.)}
1284 \endsetslot
1285
1286 \setslot{\lc{Oslash}{oslash}}
1287 \comment{The letter ‘ $\text{\o}$ ’.}
1288 \endsetslot
1289
```

```

1290 \setslot{\lctop{Ugrave}{ugrave}}
1291   \comment{The letter ‘\’ u’}
1292 \endsetslot
1293
1294 \setslot{\lctop{Uacute}{uacute}}
1295   \comment{The letter ‘\’ u’}
1296 \endsetslot
1297
1298 \setslot{\lctop{Ucircumflex}{ucircumflex}}
1299   \comment{The letter ‘\^’ u’}
1300 \endsetslot
1301
1302 \setslot{\lctop{Udieresis}{udieresis}}
1303   \comment{The letter ‘\” u’}
1304 \endsetslot
1305
1306 \setslot{\lctop{Yacute}{yacute}}
1307   \comment{The letter ‘\’ y’}
1308 \endsetslot
1309
1310 \setslot{\lc{Thorn}{thorn}}
1311   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
1312     with an ascender rising from the stem. It is unavailable
1313     in \plain\ \TeX.}
1314 \endsetslot
1315
1316 \setslot{\lc{SS}{germandbls}}
1317   \comment{The letter ‘\ss’}
1318 \endsetslot
1319
1320 \endencoding

1321 \relax
1322 \encoding
1323
1324 \needsfontinstversion{1.910}
1325
1326 \setcommand\lc#1#2{#2}
1327 \setcommand\uc#1#2{#1}
1328 \setcommand\lctop#1#2{#2}
1329 \setcommand\uctop#1#2{#1}
1330 \setcommand\lclig#1#2{#2}
1331 \ifisint{letterspacing}\then
1332   \ifnumber{\int{letterspacing}}={0}\then \Else
1333     \setcommand\uclig#1#2{#1spaced}
1334     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
1335       you can’t see it as \verb|\setcommand| commands are invisible in
1336       the typeset output.}
1337   \Fi

```

```
1338 \Fi
1339 \setcommand\uclig#1#2{#1}
1340 \setcommand\digit#1{#1}
1341
1342 \ifsisint{monowidth}\then
1343   \setint{ligaturing}{0}
1344 \Else
1345   % The following empty line is important to get the formatting
1346   % right here (sigh)! (Remember that it is a \par token.)
1347
1348   \ifsisint{letterspacing}\then
1349     \ifnumber{\int{letterspacing}}={0}\then \Else
1350       \setint{ligaturing}{0}
1351     \Fi
1352   \Fi
1353   \setint{ligaturing}{1}
1354 \Fi
1355
1356 \setint{italicslant}{0}
1357 \setint{quad}{1000}
1358 \setint{baselineskip}{1200}
1359
1360 \ifisglyph{x}\then
1361   \setint{xheight}{\height{x}}
1362 \Else
1363   \setint{xheight}{500}
1364 \Fi
1365
1366 \ifisglyph{space}\then
1367   \setint{interword}{\width{space}}
1368 \Else\ifisglyph{i}\then
1369   \setint{interword}{\width{i}}
1370 \Else
1371   \setint{interword}{333}
1372 \Fi\Fi
1373
1374 \ifsisint{monowidth}\then
1375   \setint{stretchword}{0}
1376   \setint{shrinkword}{0}
1377   \setint{extraspace}{\int{interword}}
1378 \Else
1379   \setint{stretchword}{\scale{\int{interword}}{600}}
1380   \setint{shrinkword}{\scale{\int{interword}}{240}}
1381   \setint{extraspace}{\scale{\int{interword}}{240}}
1382 \Fi
1383
1384 \ifisglyph{X}\then
1385   \setint{capheight}{\height{X}}
1386 \Else
```

```
1387 \setint{capheight}{750}
1388 \Fi
1389
1390 \ifisglyph{d}\then
1391 \setint{ascender}{\height{d}}
1392 \Else\ifisint{capheight}\then
1393 \setint{ascender}{\int{capheight}}
1394 \Else
1395 \setint{ascender}{750}
1396 \Fi\Fi
1397
1398 \ifisglyph{Aring}\then
1399 \setint{accapheight}{\height{Aring}}
1400 \Else
1401 \setint{accapheight}{999}
1402 \Fi
1403
1404 \ifisint{descender_neg}\then
1405 \setint{descender}{\neg{\int{descender_neg}}}
1406 \Else\ifisglyph{p}\then
1407 \setint{descender}{\depth{p}}
1408 \Else
1409 \setint{descender}{250}
1410 \Fi\Fi
1411
1412 \ifisglyph{Aring}\then
1413 \setint{maxheight}{\height{Aring}}
1414 \Else
1415 \setint{maxheight}{1000}
1416 \Fi
1417
1418 \ifisint{maxdepth_neg}\then
1419 \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
1420 \Else\ifisglyph{j}\then
1421 \setint{maxdepth}{\depth{j}}
1422 \Else
1423 \setint{maxdepth}{250}
1424 \Fi\Fi
1425
1426 \ifisglyph{six}\then
1427 \setint{digitwidth}{\width{six}}
1428 \Else
1429 \setint{digitwidth}{500}
1430 \Fi
1431
1432 \setint{capstem}{0} % not in AFM files
1433
1434 \setfontdimen{1}{italicslant} % italic slant
1435 \setfontdimen{2}{interword} % interword space
```

```

1436 \setfontdimen{3}{stretchword} % interword stretch
1437 \setfontdimen{4}{shrinkword} % interword shrink
1438 \setfontdimen{5}{xheight} % x-height
1439 \setfontdimen{6}{quad} % quad
1440 \setfontdimen{7}{extraspace} % extra space after .
1441 \setfontdimen{8}{capheight} % cap height
1442 \setfontdimen{9}{ascender} % ascender
1443 \setfontdimen{10}{accapheight} % accented cap height
1444 \setfontdimen{11}{descender} % descender's depth
1445 \setfontdimen{12}{maxheight} % max height
1446 \setfontdimen{13}{maxdepth} % max depth
1447 \setfontdimen{14}{digitwidth} % digit width
1448 \setfontdimen{15}{verticalstem} % dominant width of verical stems
1449 \setfontdimen{16}{baselineskip} % baselineskip
1450
1451 \ifnumber{\int{ligaturing}}<{0}\then
1452 \comment{In this case, the codingscheme can be different from the
1453 default, and therefore we refrain from setting it.}
1454 \Else
1455 \setstr{codingscheme}{EXTENDED TEX ENC - LIBRIS SWASH}
1456 \Fi
1457
1458 \setslot{\lc{Grave}{grave}}
1459 \comment{The grave accent '\{'}'}
1460 \endsetslot
1461
1462 \setslot{\lc{Acute}{acute}}
1463 \comment{The acute accent '\{'}'}
1464 \endsetslot
1465
1466 \setslot{\lc{Circumflex}{circumflex}}
1467 \comment{The circumflex accent '\^{}'}
1468 \endsetslot
1469
1470 \setslot{\lc{Tilde}{tilde}}
1471 \comment{The tilde accent '\~{}'}
1472 \endsetslot
1473
1474 \setslot{\lc{Dieresis}{dieresis}}
1475 \comment{The umlaut or dieresis accent '\"{}'}
1476 \endsetslot
1477
1478 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
1479 \comment{The long Hungarian umlaut '\H{}'}
1480 \endsetslot
1481
1482 \setslot{\lc{Ring}{ring}}
1483 \comment{The ring accent '\r{}'}
1484 \endsetslot

```



```
1485
1486 \setslot{\lc{Caron}{caron}}
1487   \comment{The caron or h\`a\v cek accent ‘\v{.’}}
1488 \endsetslot
1489
1490 \setslot{\lc{Breve}{breve}}
1491   \comment{The breve accent ‘\u{.’}}
1492 \endsetslot
1493
1494 \setslot{\lc{Macron}{macron}}
1495   \comment{The macron accent ‘\={.’}}
1496 \endsetslot
1497
1498 \setslot{\lc{Dotaccent}{dotaccent}}
1499   \comment{The dot accent ‘\.{.’}}
1500 \endsetslot
1501
1502 \setslot{\lc{Cedilla}{cedilla}}
1503   \comment{The cedilla accent ‘\c {.’}}
1504 \endsetslot
1505
1506 \setslot{\lc{Ogonek}{ogonek}}
1507   \comment{The ogonek accent ‘\k {.’}}
1508 \endsetslot
1509
1510 \setslot{quotesinglbase}
1511   \comment{A German single quote mark ‘\quotesinglbase’ similar to a comma,
1512     but with different sidebearings.}
1513 \endsetslot
1514
1515 \setslot{guilsinglleft}
1516   \comment{A French single opening quote mark ‘\guilsinglleft’,
1517     unavailable in \plain\ \TeX.}
1518 \endsetslot
1519
1520 \setslot{guilsinglright}
1521   \comment{A French single closing quote mark ‘\guilsinglright’,
1522     unavailable in \plain\ \TeX.}
1523 \endsetslot
1524
1525 \setslot{quotedblleft}
1526   \comment{The English opening quote mark ‘\,\textquotedblleft\,’}
1527 \endsetslot
1528
1529 \setslot{quotedblright}
1530   \comment{The English closing quote mark ‘\,\textquotedblright\,’}
1531 \endsetslot
1532
1533 \setslot{quotedblbase}
```

```

1534 \comment{A German double quote mark ‘\quotedblbase’ similar to two commas,
1535     but with tighter letterspacing and different sidebearings.}
1536 \endsetslot
1537
1538 \setslot{guillemotleft}
1539 \comment{A French double opening quote mark ‘\guillemotleft’,
1540     unavailable in \plain\ \TeX.}
1541 \endsetslot
1542
1543 \setslot{guillemotright}
1544 \comment{A French closing opening quote mark ‘\guillemotright’,
1545     unavailable in \plain\ \TeX.}
1546 \endsetslot
1547
1548 \setslot{endash}
1549 \ligature{LIG}{hyphen}{emdash}
1550 \comment{The number range dash ‘1--9’. This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be ca
1551     idth font, this
1552     might be set as ‘\texttt{1{-}9}’;}
1552 \endsetslot
1553
1554 \setslot{emdash}
1555 \comment{The punctuation dash ‘Oh---boy.’ This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be ca
1556     idth font, this
1557     might be set as ‘\texttt{Oh{-}{-}boy.}’}
1557 \endsetslot
1558
1559 \setslot{compwordmark}
1560 \comment{An invisible glyph, with zero width and depth, but the
1561     height of lowercase letters without ascenders.
1562     It is used to stop ligaturing in words like ‘shelf{}ful’;}
1563 \endsetslot
1564
1565 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
1566
1567 \setslot{\lclig{TT}{t_t}}
1568 \comment{The ligature ‘tt’. This slot is usually assigned to
1569     the perthousandzero but that letter is unavailable in this font.}
1570 \endsetslot
1571
1572 \Fi
1573
1574 \setslot{\lc{dotlessI}{dotlessi}}
1575 \comment{A dotless i ‘i’, used to produce accented letters such as
1576     ‘\=\i’;}
1577 \endsetslot
1578
1579 \setslot{\lc{dotlessJ}{dotlessj}}
1580 \comment{A dotless j ‘j’, used to produce accented letters such as

```

```

1581   '\= \j'. Most non-\TeX\ fonts do not have this glyph.}
1582 \endsetslot
1583
1584 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
1585
1586 \setslot{\lclig{FF}{ff}}
1587   \ifnumber{\int{ligaturing}}>{0}\then
1588     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
1589     \ligature{LIG}{\lc{J}{j}}{\lclig{FFJ}{f_f_j}}
1590     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}
1591   \Fi
1592   \comment{The 'ff' ligature. It should be two characters wide in a
1593     monowidth font.}
1594 \endsetslot
1595
1596 \setslot{\lclig{FI}{fi}}
1597   \comment{The 'fi' ligature. It should be two characters wide in a
1598     monowidth font.}
1599 \endsetslot
1600
1601 \setslot{\lclig{FL}{fl}}
1602   \comment{The 'fl' ligature. It should be two characters wide in a
1603     monowidth font.}
1604 \endsetslot
1605
1606 \setslot{\lclig{FFI}{ffi}}
1607   \comment{The 'ffi' ligature. It should be three characters wide in a
1608     monowidth font.}
1609 \endsetslot
1610
1611 \setslot{\lclig{FFL}{ffl}}
1612   \comment{The 'ffl' ligature. It should be three characters wide in a
1613     monowidth font.}
1614 \endsetslot
1615
1616 \Fi
1617
1618 \setslot{visiblespace}
1619   \comment{A visible space glyph '\textvisiblespace'.}
1620 \endsetslot
1621
1622 \setslot{exclam}
1623   \ligature{LIG}{\quoteleft}{exclamdown}
1624   \comment{The exclamation mark '!'.}
1625 \endsetslot
1626
1627 \setslot{quotedbl}
1628   \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
1629     included for use in monowidth fonts, or for setting computer

```

```
1630   programs. Note that the inclusion of this glyph in this slot
1631   means that \TeX\ documents which used '{\tt\char\"}' as an
1632   input character will no longer work.}
1633 \endsetslot
1634
1635 \setslot{numbersign}
1636   \comment{The hash sign '\#'.}
1637 \endsetslot
1638
1639 \setslot{dollar}
1640   \comment{The dollar sign '\$'.}
1641 \endsetslot
1642
1643 \setslot{percent}
1644   \comment{The percent sign '\%'.}
1645 \endsetslot
1646
1647 \setslot{ampersand}
1648   \comment{The ampersand sign '\&'.}
1649 \endsetslot
1650
1651 \setslot{quoteright}
1652   \ligature{LIG}{quoteright}{quotedblright}
1653   \comment{The English closing single quote mark '\,\textquoteright\,'.}
1654 \endsetslot
1655
1656 \setslot{parenleft}
1657   \comment{The opening parenthesis '('.}
1658 \endsetslot
1659
1660 \setslot{parenright}
1661   \comment{The closing parenthesis ')'.}
1662 \endsetslot
1663
1664 \setslot{asterisk}
1665   \comment{The raised asterisk '*'.}
1666 \endsetslot
1667
1668 \setslot{plus}
1669   \comment{The addition sign '+'.}
1670 \endsetslot
1671
1672 \setslot{comma}
1673   \ligature{LIG}{comma}{quotedblbase}
1674   \comment{The comma ','.}
1675 \endsetslot
1676
1677 \setslot{hyphen}
1678   \ligature{LIG}{hyphen}{endash}
```

```
1679 \ligature{LIG}{hyphenchar}{hyphenchar}
1680 \comment{The hyphen '-'.}
1681 \endsetslot
1682
1683 \setslot{period}
1684 \comment{The period '.'.}
1685 \endsetslot
1686
1687 \setslot{slash}
1688 \comment{The forward oblique '/'.}
1689 \endsetslot
1690
1691 \setslot{\digit{zero}}
1692 \comment{The number '0'. This (and all the other numerals) may be
1693 old style or ranging digits.}
1694 \endsetslot
1695
1696 \setslot{\digit{one}}
1697 \comment{The number '1'.}
1698 \endsetslot
1699
1700 \setslot{\digit{two}}
1701 \comment{The number '2'.}
1702 \endsetslot
1703
1704 \setslot{\digit{three}}
1705 \comment{The number '3'.}
1706 \endsetslot
1707
1708 \setslot{\digit{four}}
1709 \comment{The number '4'.}
1710 \endsetslot
1711
1712 \setslot{\digit{five}}
1713 \comment{The number '5'.}
1714 \endsetslot
1715
1716 \setslot{\digit{six}}
1717 \comment{The number '6'.}
1718 \endsetslot
1719
1720 \setslot{\digit{seven}}
1721 \comment{The number '7'.}
1722 \endsetslot
1723
1724 \setslot{\digit{eight}}
1725 \comment{The number '8'.}
1726 \endsetslot
1727
```

```
1728 \setslot{\digit{nine}}
1729   \comment{The number '9'.}
1730 \endsetslot
1731
1732 \setslot{colon}
1733   \comment{The colon punctuation mark ':'}.}
1734 \endsetslot
1735
1736 \setslot{semicolon}
1737   \comment{The semi-colon punctuation mark ';'.}
1738 \endsetslot
1739
1740 \setslot{less}
1741   \ligature{LIG}{less}{guillemotleft}
1742   \comment{The less-than sign '\textless'}.}
1743 \endsetslot
1744
1745 \setslot{equal}
1746   \comment{The equals sign '='}.}
1747 \endsetslot
1748
1749 \setslot{greater}
1750   \ligature{LIG}{greater}{guillemotright}
1751   \comment{The greater-than sign '\textgreater'}.}
1752 \endsetslot
1753
1754 \setslot{question}
1755   \ligature{LIG}{quoteleft}{questiondown}
1756   \comment{The question mark '?'}.}
1757 \endsetslot
1758
1759 \setslot{at}
1760   \comment{The at sign '@'}.}
1761 \endsetslot
1762
1763 \setslot{\uc{A}{a}}
1764   \comment{The letter '{A}'.}
1765 \endsetslot
1766
1767 \setslot{\uc{B}{b}}
1768   \comment{The letter '{B}'.}
1769 \endsetslot
1770
1771 \setslot{\uc{C}{c}}
1772   \comment{The letter '{C}'.}
1773 \endsetslot
1774
1775 \setslot{\uc{D}{d}}
1776   \comment{The letter '{D}'.}
```

```
1777 \endsetslot
1778
1779 \setslot{\uc{E}{e}}
1780 \comment{The letter '{E}'}
1781 \endsetslot
1782
1783 \setslot{\uc{F}{f}}
1784 \comment{The letter '{F}'}
1785 \endsetslot
1786
1787 \setslot{\uc{G}{g}}
1788 \comment{The letter '{G}'}
1789 \endsetslot
1790
1791 \setslot{\uc{H}{h}}
1792 \comment{The letter '{H}'}
1793 \endsetslot
1794
1795 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1796
1797 \setslot{\uc{I}{i}}
1798 \comment{The letter '{I}'}
1799 \endsetslot
1800
1801 \Fi
1802
1803 \setslot{\uc{J}{j}}
1804 \comment{The letter '{J}'}
1805 \endsetslot
1806
1807 \setslot{\uc{K}{k}}
1808 \comment{The letter '{K}'}
1809 \endsetslot
1810
1811 \setslot{\uc{L}{l}}
1812 \comment{The letter '{L}'}
1813 \endsetslot
1814
1815 \setslot{\uc{M}{m}}
1816 \comment{The letter '{M}'}
1817 \endsetslot
1818
1819 \setslot{\uc{N}{n}}
1820 \comment{The letter '{N}'}
1821 \endsetslot
1822
1823 \setslot{\uc{O}{o}}
1824 \comment{The letter '{O}'}
1825 \endsetslot
```

```
1826
1827 \setslot{\uc{P}{p}}
1828   \comment{The letter '{P}'.}
1829 \endsetslot
1830
1831 \setslot{\uc{Q}{q}}
1832   \comment{The letter '{Q}'.}
1833 \endsetslot
1834
1835 \setslot{\uc{R}{r}}
1836   \comment{The letter '{R}'.}
1837 \endsetslot
1838
1839 \setslot{\uc{S}{s}}
1840   \comment{The letter '{S}'.}
1841 \endsetslot
1842
1843 \setslot{\uc{T}{t}}
1844   \comment{The letter '{T}'.}
1845 \endsetslot
1846
1847 \setslot{\uc{U}{u}}
1848   \comment{The letter '{U}'.}
1849 \endsetslot
1850
1851 \setslot{\uc{V}{v}}
1852   \comment{The letter '{V}'.}
1853 \endsetslot
1854
1855 \setslot{\uc{W}{w}}
1856   \comment{The letter '{W}'.}
1857 \endsetslot
1858
1859 \setslot{\uc{X}{x}}
1860   \comment{The letter '{X}'.}
1861 \endsetslot
1862
1863 \setslot{\uc{Y}{y}}
1864   \comment{The letter '{Y}'.}
1865 \endsetslot
1866
1867 \setslot{\uc{Z}{z}}
1868   \comment{The letter '{Z}'.}
1869 \endsetslot
1870
1871 \setslot{[}
1872   \comment{The opening square bracket '['.}
1873 \endsetslot
1874
```



```

1875 \setslot{backslash}
1876   \comment{The backwards oblique ‘\textbackslash’.}
1877 \endsetslot
1878
1879 \setslot{bracketright}
1880   \comment{The closing square bracket ‘}’.}
1881 \endsetslot
1882
1883 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
1884
1885   \setslot{\lclig{SP}{s_p}}
1886     \comment{The ligature ‘sp’. This slot is usually assigned to
1887     asciicircum.}
1888   \endsetslot
1889
1890 \Fi
1891
1892 \setslot{underscore}
1893   \comment{The ASCII underline character ‘\textunderscore’, usually
1894   set on the baseline.
1895   This is included for compatibility with typewriter fonts used
1896   for computer listings.}
1897 \endsetslot
1898
1899 \setslot{quoteleft}
1900   \ligature{LIG}{quoteleft}{quotedblleft}
1901   \comment{The English opening single quote mark ‘\,\textquoteleft\,’.}
1902 \endsetslot
1903
1904 \setslot{\lc{A}{a}}
1905   \comment{The letter ‘{a}’.}
1906 \endsetslot
1907
1908 \setslot{\lc{B}{b}}
1909   \comment{The letter ‘{b}’.}
1910 \endsetslot
1911
1912 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1913
1914   \setslot{\lc{C}{c}}
1915     \ifnumber{\int{ligaturing}}>{0}\then
1916       \ligature{LIG}{\lc{H}{h}}{\lclig{CH}{c_h}}
1917       \ligature{LIG}{\lc{K}{k}}{\lclig{CK}{c_k}}
1918       \ligature{LIG}{\lc{L}{l}}{\lclig{CL}{c_l}}
1919       \ligature{LIG}{\lc{T}{t}}{\lclig{CT}{c_t}}
1920 \Fi
1921   \comment{The letter ‘{c}’.}
1922 \endsetslot
1923

```

```

1924 \Fi
1925
1926 \setslot{\lc{D}{d}}
1927   \comment{The letter '{d}'.}
1928 \endsetslot
1929
1930 \setslot{\lc{E}{e}}
1931   \comment{The letter '{e}'.}
1932 \endsetslot
1933
1934 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1935
1936   \setslot{\lc{F}{f}}
1937     \ifnumber{\int{ligaturing}}>{0}\then
1938       \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
1939       \ligature{LIG}{\lc{J}{j}}{\lclig{FJ}{f_j}}
1940       \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
1941       \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
1942     \Fi
1943     \comment{The letter '{f}'.}
1944   \endsetslot
1945
1946 \Fi
1947
1948 \setslot{\lc{G}{g}}
1949   \comment{The letter '{g}'.}
1950 \endsetslot
1951
1952 \setslot{\lc{H}{h}}
1953   \comment{The letter '{h}'.}
1954 \endsetslot
1955
1956 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1957
1958   \setslot{\lc{I}{i}}
1959     \comment{The letter '{i}'.}
1960   \endsetslot
1961
1962 \Fi
1963
1964 \setslot{\lc{J}{j}}
1965   \comment{The letter '{j}'.}
1966 \endsetslot
1967
1968 \setslot{\lc{K}{k}}
1969   \comment{The letter '{k}'.}
1970 \endsetslot
1971
1972 \setslot{\lc{L}{l}}

```

```

1973 \comment{The letter '{l}'}
1974 \endsetslot
1975
1976 \setslot{\lc{M}{m}}
1977 \comment{The letter '{m}'}
1978 \endsetslot
1979
1980 \setslot{\lc{N}{n}}
1981 \comment{The letter '{n}'}
1982 \endsetslot
1983
1984 \setslot{\lc{O}{o}}
1985 \comment{The letter '{o}'}
1986 \endsetslot
1987
1988 \setslot{\lc{P}{p}}
1989 \comment{The letter '{p}'}
1990 \endsetslot
1991
1992 \setslot{\lc{Q}{q}}
1993 \comment{The letter '{q}'}
1994 \endsetslot
1995
1996 \setslot{\lc{R}{r}}
1997 \comment{The letter '{r}'}
1998 \endsetslot
1999
2000 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
2001
2002 \setslot{\lc{S}{s}}
2003 \ifnumber{\int{ligaturing}}>{0}\then
2004 \ligature{LIG}{\lc{H}{h}}{\lclig{SH}{s_h}}
2005 \ligature{LIG}{\lc{K}{k}}{\lclig{SK}{s_k}}
2006 \ligature{LIG}{\lc{L}{l}}{\lclig{SL}{s_l}}
2007 \ligature{LIG}{\lc{p}{p}}{\lclig{Sp}{s_p}}
2008 \ligature{LIG}{\lc{T}{t}}{\lclig{ST}{s_t}}
2009 \Fi
2010 \comment{The letter '{s}'}
2011 \endsetslot
2012
2013 \Fi
2014
2015 \setslot{\lc{T}{t}}
2016 \ifnumber{\int{ligaturing}}>{0}\then
2017 \ligature{LIG}{\lc{T}{t}}{\lclig{TT}{t_t}}
2018 \Fi
2019 \comment{The letter '{t}'}
2020 \endsetslot
2021

```

```
2022 \setslot{\lc{U}{u}}
2023   \comment{The letter '{u}'.}
2024 \endsetslot
2025
2026 \setslot{\lc{V}{v}}
2027   \comment{The letter '{v}'.}
2028 \endsetslot
2029
2030 \setslot{\lc{W}{w}}
2031   \comment{The letter '{w}'.}
2032 \endsetslot
2033
2034 \setslot{\lc{X}{x}}
2035   \comment{The letter '{x}'.}
2036 \endsetslot
2037
2038 \setslot{\lc{Y}{y}}
2039   \comment{The letter '{y}'.}
2040 \endsetslot
2041
2042 \setslot{\lc{Z}{z}}
2043   \comment{The letter '{z}'.}
2044 \endsetslot
2045
2046 \setslot{braceleft}
2047   \comment{The opening curly brace '\textbraceleft'.}
2048 \endsetslot
2049
2050 \setslot{bar}
2051   \comment{The ASCII vertical bar '\textbar'.
2052     This is included for compatibility with typewriter fonts used
2053     for computer listings.}
2054 \endsetslot
2055
2056 \setslot{braceright}
2057   \comment{The closing curly brace '\textbraceright'.}
2058 \endsetslot
2059
2060 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2061
2062   \setslot{\lclig{SL}{s_1}}
2063     \comment{The ligature 'sl'. This slot is usually assigned to
2064       asciitilde.}
2065   \endsetslot
2066
2067 \Fi
2068
2069 \setslot{hyphenchar}
2070   \comment{The glyph used for hyphenation in this font, which will
```

```
2071     almost always be the same as 'hyphen'.}
2072 \endsetslot
2073
2074 \setslot{\uctop{Abreve}{abreve}}
2075   \comment{The letter '\u A'.}
2076 \endsetslot
2077
2078 \setslot{\uc{Aogonek}{aogonek}}
2079   \comment{The letter '\k A'.}
2080 \endsetslot
2081
2082 \setslot{\uctop{Cacute}{cacute}}
2083   \comment{The letter '\ ' C'.}
2084 \endsetslot
2085
2086 \setslot{\uctop{Ccaron}{ccaron}}
2087   \comment{The letter '\v C'.}
2088 \endsetslot
2089
2090 \setslot{\uctop{Dcaron}{dcaron}}
2091   \comment{The letter '\v D'.}
2092 \endsetslot
2093
2094 \setslot{\uctop{Ecaron}{ecaron}}
2095   \comment{The letter '\v E'.}
2096 \endsetslot
2097
2098 \setslot{\uc{Eogonek}{eogonek}}
2099   \comment{The letter '\k E'.}
2100 \endsetslot
2101
2102 \setslot{\uctop{Gbreve}{gbreve}}
2103   \comment{The letter '\u G'.}
2104 \endsetslot
2105
2106 \setslot{\uctop{Lacute}{lacute}}
2107   \comment{The letter '\ ' L'.}
2108 \endsetslot
2109
2110 \setslot{\uc{Lcaron}{lcaron}}
2111   \comment{The letter '\v L'.}
2112 \endsetslot
2113
2114 \setslot{\uc{Lslash}{lslash}}
2115   \comment{The letter '\L'.}
2116 \endsetslot
2117
2118 \setslot{\uctop{Nacute}{nacute}}
2119   \comment{The letter '\ ' N'.}
```

```
2120 \endsetslot
2121
2122 \setslot{\uctop{Ncaron}{ncaron}}
2123   \comment{The letter '\v N'.}
2124 \endsetslot
2125
2126 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2127
2128 \setslot{\lclig{FJ}{f_j}}
2129   \comment{The 'fj' ligature. It should be two characters wide in a
2130     monowidth font. In standard T1 encoding this slot is used for Eng/Ng
2131     but that character is unavailable in this font.}
2132 \endsetslot
2133
2134 \Fi
2135
2136 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
2137   \comment{The letter '\H O'.}
2138 \endsetslot
2139
2140 \setslot{\uctop{Racute}{racute}}
2141   \comment{The letter '\ R'.}
2142 \endsetslot
2143
2144 \setslot{\uctop{Rcaron}{rcaron}}
2145   \comment{The letter '\v R'.}
2146 \endsetslot
2147
2148 \setslot{\uctop{Sacute}{sacute}}
2149   \comment{The letter '\ S'.}
2150 \endsetslot
2151
2152 \setslot{\uctop{Scaron}{scaron}}
2153   \comment{The letter '\v S'.}
2154 \endsetslot
2155
2156 \setslot{\uc{Scedilla}{scedilla}}
2157   \comment{The letter '\c S'.}
2158 \endsetslot
2159
2160 \setslot{\uctop{Tcaron}{tcaron}}
2161   \comment{The letter '\v T'.}
2162 \endsetslot
2163
2164 \setslot{\uc{Tcedilla}{tcedilla}}
2165   \comment{The letter '\c T'.}
2166 \endsetslot
2167
2168 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
```

```
2169 \comment{The letter ‘\H U’}
2170 \endsetslot
2171
2172 \setslot{\uctop{Uring}{uring}}
2173 \comment{The letter ‘\r U’}
2174 \endsetslot
2175
2176 \setslot{\uctop{Ydieresis}{ydieresis}}
2177 \comment{The letter ‘\ " Y’}
2178 \endsetslot
2179
2180 \setslot{\uctop{Zacute}{zacute}}
2181 \comment{The letter ‘\ ’ Z’}
2182 \endsetslot
2183
2184 \setslot{\uctop{Zcaron}{zcaron}}
2185 \comment{The letter ‘\v Z’}
2186 \endsetslot
2187
2188 \setslot{\uctop{Zdotaccent}{zdotaccent}}
2189 \comment{The letter ‘\ . Z’}
2190 \endsetslot
2191
2192 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2193
2194 \setslot{\lclig{ST}{s_t}}
2195 \comment{The ligature ‘st’. This slot is usually assigned to
2196 IJ but that letter is unavailable in this font.}
2197 \endsetslot
2198
2199 \Fi
2200
2201 \setslot{\uctop{Idotaccent}{idotaccent}}
2202 \comment{The letter ‘\ . I’}
2203 \endsetslot
2204
2205 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2206
2207 \setslot{\lclig{CT}{c_t}}
2208 \comment{The ligature ‘ct’. This slot is usually assigned to
2209 the dbar but that letter is unavailable in this font.}
2210 \endsetslot
2211
2212 \Fi
2213
2214 \setslot{section}
2215 \comment{The section mark ‘\textsection’}
2216 \endsetslot
2217
```

```
2218 \setslot{\lctop{Abreve}{abreve}}
2219   \comment{The letter '\u a'.}
2220 \endsetslot
2221
2222 \setslot{\lc{Aogonek}{aogonek}}
2223   \comment{The letter '\k a'.}
2224 \endsetslot
2225
2226 \setslot{\lctop{Cacute}{cacute}}
2227   \comment{The letter '\ ' c'.}
2228 \endsetslot
2229
2230 \setslot{\lctop{Ccaron}{ccaron}}
2231   \comment{The letter '\v c'.}
2232 \endsetslot
2233
2234 \setslot{\lctop{Dcaron}{dcaron}}
2235   \comment{The letter '\v d'.}
2236 \endsetslot
2237
2238 \setslot{\lctop{Ecaron}{ecaron}}
2239   \comment{The letter '\v e'.}
2240 \endsetslot
2241
2242 \setslot{\lc{Eogonek}{eogonek}}
2243   \comment{The letter '\k e'.}
2244 \endsetslot
2245
2246 \setslot{\lctop{Gbreve}{gbreve}}
2247   \comment{The letter '\u g'.}
2248 \endsetslot
2249
2250 \setslot{\lctop{Lacute}{lacute}}
2251   \comment{The letter '\ ' l'.}
2252 \endsetslot
2253
2254 \setslot{\lc{Lcaron}{lcaron}}
2255   \comment{The letter '\v l'.}
2256 \endsetslot
2257
2258 \setslot{\lc{Lslash}{lslash}}
2259   \comment{The letter '\l'.}
2260 \endsetslot
2261
2262 \setslot{\lctop{Nacute}{nacute}}
2263   \comment{The letter '\ ' n'.}
2264 \endsetslot
2265
2266 \setslot{\lctop{Ncaron}{ncaron}}
```



```
2267 \comment{The letter '\v n'.}
2268 \endsetslot
2269
2270 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2271
2272 \setslot{\lclig{FFJ}{f_f_j}}
2273 \comment{The 'ffj' ligature. It should be two characters wide in a
2274 monowidth font. In standard T1 encoding this slot is used for eng/ng
2275 but that character is unavailable in this font.}
2276 \endsetslot
2277
2278 \Fi
2279
2280 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
2281 \comment{The letter '\H o'.}
2282 \endsetslot
2283
2284 \setslot{\lctop{Racute}{racute}}
2285 \comment{The letter '\ r'.}
2286 \endsetslot
2287
2288 \setslot{\lctop{Rcaron}{rcaron}}
2289 \comment{The letter '\v r'.}
2290 \endsetslot
2291
2292 \setslot{\lctop{Sacute}{sacute}}
2293 \comment{The letter '\ s'.}
2294 \endsetslot
2295
2296 \setslot{\lctop{Scaron}{scaron}}
2297 \comment{The letter '\v s'.}
2298 \endsetslot
2299
2300 \setslot{\lc{Scedilla}{scedilla}}
2301 \comment{The letter '\c s'.}
2302 \endsetslot
2303
2304 \setslot{\lctop{Tcaron}{tcaron}}
2305 \comment{The letter '\v t'.}
2306 \endsetslot
2307
2308 \setslot{\lc{Tcedilla}{tcedilla}}
2309 \comment{The letter '\c t'.}
2310 \endsetslot
2311
2312 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
2313 \comment{The letter '\H u'.}
2314 \endsetslot
2315
```

```
2316 \setslot{\lctop{Uring}{uring}}
2317 \comment{The letter ‘\r u’}
2318 \endsetslot
2319
2320 \setslot{\lctop{Ydieresis}{ydieresis}}
2321 \comment{The letter ‘\ " y’}
2322 \endsetslot
2323
2324 \setslot{\lctop{Zacute}{zacute}}
2325 \comment{The letter ‘\ ’ z’}
2326 \endsetslot
2327
2328 \setslot{\lctop{Zcaron}{zcaron}}
2329 \comment{The letter ‘\v z’}
2330 \endsetslot
2331
2332 \setslot{\lctop{Zdotaccent}{zdotaccent}}
2333 \comment{The letter ‘\ . z’}
2334 \endsetslot
2335
2336 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2337
2338 \setslot{\lclig{CH}{c_h}}
2339 \comment{The ligature ‘ch’. This slot is usually assigned to
2340 ij but that letter is unavailable in this font.}
2341 \endsetslot
2342
2343 \Fi
2344
2345 \setslot{exclamdown}
2346 \comment{The Spanish punctuation mark ‘!’}
2347 \endsetslot
2348
2349 \setslot{questiondown}
2350 \comment{The Spanish punctuation mark ‘?’}
2351 \endsetslot
2352
2353 \setslot{sterling}
2354 \comment{The British currency mark ‘\textsterling’}
2355 \endsetslot
2356
2357 \setslot{\uctop{Agrave}{agrave}}
2358 \comment{The letter ‘\ ‘ A’}
2359 \endsetslot
2360
2361 \setslot{\uctop{Aacute}{aacute}}
2362 \comment{The letter ‘\ ’ A’}
2363 \endsetslot
2364
```

```
2365 \setslot{\uctop{Acircumflex}{acircumflex}}
2366   \comment{The letter ‘ $\hat{A}$ ’}
2367 \endsetslot
2368
2369 \setslot{\uctop{Atilde}{atilde}}
2370   \comment{The letter ‘ $\tilde{A}$ ’}
2371 \endsetslot
2372
2373 \setslot{\uctop{Adieresis}{adieresis}}
2374   \comment{The letter ‘ $\ddot{A}$ ’}
2375 \endsetslot
2376
2377 \setslot{\uctop{Aring}{aring}}
2378   \comment{The letter ‘ $\text{\r A}$ ’}
2379 \endsetslot
2380
2381 \setslot{\uc{AE}{ae}}
2382   \comment{The letter ‘ $\text{\AE}$ ’. This is a single letter, and should not be
2383     faked with ‘ $\text{\AE}$ ’}
2384 \endsetslot
2385
2386 \setslot{\uc{Ccedilla}{ccedilla}}
2387   \comment{The letter ‘ $\text{\c C}$ ’}
2388 \endsetslot
2389
2390 \setslot{\uctop{Egrave}{egrave}}
2391   \comment{The letter ‘ $\grave{E}$ ’}
2392 \endsetslot
2393
2394 \setslot{\uctop{Eacute}{eacute}}
2395   \comment{The letter ‘ $\acute{E}$ ’}
2396 \endsetslot
2397
2398 \setslot{\uctop{Ecircumflex}{ecircumflex}}
2399   \comment{The letter ‘ $\hat{E}$ ’}
2400 \endsetslot
2401
2402 \setslot{\uctop{Edieresis}{edieresis}}
2403   \comment{The letter ‘ $\ddot{E}$ ’}
2404 \endsetslot
2405
2406 \setslot{\uctop{Igrave}{igrave}}
2407   \comment{The letter ‘ $\grave{I}$ ’}
2408 \endsetslot
2409
2410 \setslot{\uctop{Iacute}{iacute}}
2411   \comment{The letter ‘ $\acute{I}$ ’}
2412 \endsetslot
2413
```

```
2414 \setslot{\uctop{Icircumflex}{icircumflex}}
2415   \comment{The letter ‘ $\hat{I}$ ’}
2416 \endsetslot
2417
2418 \setslot{\uctop{Idieresis}{idieresis}}
2419   \comment{The letter ‘ $\ddot{I}$ ’}
2420 \endsetslot
2421
2422 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2423
2424   \setslot{\lclig{CK}{c_k}}
2425     \comment{The ligature ‘ck’. This slot is usually assigned to
2426       Eth.}
2427   \endsetslot
2428
2429 \Fi
2430
2431 \setslot{\uctop{Ntilde}{ntilde}}
2432   \comment{The letter ‘ $\tilde{N}$ ’}
2433 \endsetslot
2434
2435 \setslot{\uctop{Ograve}{ograve}}
2436   \comment{The letter ‘ $\grave{O}$ ’}
2437 \endsetslot
2438
2439 \setslot{\uctop{Oacute}{oacute}}
2440   \comment{The letter ‘ $\acute{O}$ ’}
2441 \endsetslot
2442
2443 \setslot{\uctop{Ocircumflex}{ocircumflex}}
2444   \comment{The letter ‘ $\hat{O}$ ’}
2445 \endsetslot
2446
2447 \setslot{\uctop{Otilde}{otilde}}
2448   \comment{The letter ‘ $\tilde{O}$ ’}
2449 \endsetslot
2450
2451 \setslot{\uctop{Odieresis}{odieresis}}
2452   \comment{The letter ‘ $\ddot{O}$ ’}
2453 \endsetslot
2454
2455 \setslot{\uc{OE}{oe}}
2456   \comment{The letter ‘OE’. This is a single letter, and should not be
2457     faked with ‘OE’}
2458 \endsetslot
2459
2460 \setslot{\uc{Oslash}{oslash}}
2461   \comment{The letter ‘ $\text{\O}$ ’}
2462 \endsetslot
```

```
2463
2464 \setslot{\uctop{Ugrave}{ugrave}}
2465   \comment{The letter ‘\’ U’}
2466 \endsetslot
2467
2468 \setslot{\uctop{Uacute}{uacute}}
2469   \comment{The letter ‘\’ U’}
2470 \endsetslot
2471
2472 \setslot{\uctop{Ucircumflex}{ucircumflex}}
2473   \comment{The letter ‘\^ U’}
2474 \endsetslot
2475
2476 \setslot{\uctop{Udieresis}{udieresis}}
2477   \comment{The letter ‘\” U’}
2478 \endsetslot
2479
2480 \setslot{\uctop{Yacute}{yacute}}
2481   \comment{The letter ‘\’ Y’}
2482 \endsetslot
2483
2484 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2485
2486   \setslot{\lclig{SK}{s_k}}
2487     \comment{The ligature ‘sk’. This slot is usually assigned to
2488       Thorn.}
2489   \endsetslot
2490
2491 \Fi
2492
2493 \setslot{\uclig{SS}{germandbls}}
2494   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’.
2495     In a monowidth font it should be two letters wide.}
2496 \endsetslot
2497
2498 \setslot{\lctop{Agrave}{agrave}}
2499   \comment{The letter ‘\’ a’}
2500 \endsetslot
2501
2502 \setslot{\lctop{Aacute}{aacute}}
2503   \comment{The letter ‘\’ a’}
2504 \endsetslot
2505
2506 \setslot{\lctop{Acircumflex}{acircumflex}}
2507   \comment{The letter ‘\^ a’}
2508 \endsetslot
2509
2510 \setslot{\lctop{Atilde}{atilde}}
2511   \comment{The letter ‘\~ a’}
```

```
2512 \endsetslot
2513
2514 \setslot{\lctop{Adieresis}{adieresis}}
2515   \comment{The letter '\ " a'.}
2516 \endsetslot
2517
2518 \setslot{\lctop{Aring}{aring}}
2519   \comment{The letter '\r a'.}
2520 \endsetslot
2521
2522 \setslot{\lc{AE}{ae}}
2523   \comment{The letter '\ae'. This is a single letter, and should not be
2524     faked with 'ae'.}
2525 \endsetslot
2526
2527 \setslot{\lc{Ccedilla}{ccedilla}}
2528   \comment{The letter '\c c'.}
2529 \endsetslot
2530
2531 \setslot{\lctop{Egrave}{egrave}}
2532   \comment{The letter '\ ' e'.}
2533 \endsetslot
2534
2535 \setslot{\lctop{Eacute}{eacute}}
2536   \comment{The letter '\ ' e'.}
2537 \endsetslot
2538
2539 \setslot{\lctop{Ecircumflex}{ecircumflex}}
2540   \comment{The letter '\ ^ e'.}
2541 \endsetslot
2542
2543 \setslot{\lctop{Edieresis}{edieresis}}
2544   \comment{The letter '\ " e'.}
2545 \endsetslot
2546
2547 \setslot{\lctop{Igrave}{igrave}}
2548   \comment{The letter '\ \i'.}
2549 \endsetslot
2550
2551 \setslot{\lctop{Iacute}{iacute}}
2552   \comment{The letter '\ \i'.}
2553 \endsetslot
2554
2555 \setslot{\lctop{Icircumflex}{icircumflex}}
2556   \comment{The letter '\ ^ \i'.}
2557 \endsetslot
2558
2559 \setslot{\lctop{Idieresis}{idieresis}}
2560   \comment{The letter '\ " \i'.}
```

```
2561 \endsetslot
2562
2563 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2564
2565 \setslot{\lclig{CL}{c_1}}
2566 \comment{The ligature 'cl'. This slot is usually assigned to
2567 eth.}
2568 \endsetslot
2569
2570 \Fi
2571
2572 \setslot{\lctop{Ntilde}{ntilde}}
2573 \comment{The letter '\~ n'.}
2574 \endsetslot
2575
2576 \setslot{\lctop{Ograve}{ograve}}
2577 \comment{The letter '\` o'.}
2578 \endsetslot
2579
2580 \setslot{\lctop{Oacute}{oacute}}
2581 \comment{The letter '\' o'.}
2582 \endsetslot
2583
2584 \setslot{\lctop{Ocircumflex}{ocircumflex}}
2585 \comment{The letter '\^ o'.}
2586 \endsetslot
2587
2588 \setslot{\lctop{Otilde}{otilde}}
2589 \comment{The letter '\~ o'.}
2590 \endsetslot
2591
2592 \setslot{\lctop{Odieresis}{odieresis}}
2593 \comment{The letter '\" o'.}
2594 \endsetslot
2595
2596 \setslot{\lc{OE}{oe}}
2597 \comment{The letter '\oe'. This is a single letter, and should not be
2598 faked with 'oe'.}
2599 \endsetslot
2600
2601 \setslot{\lc{Oslash}{oslash}}
2602 \comment{The letter '\o'.}
2603 \endsetslot
2604
2605 \setslot{\lctop{Ugrave}{ugrave}}
2606 \comment{The letter '\` u'.}
2607 \endsetslot
2608
2609 \setslot{\lctop{Uacute}{uacute}}
```

```

2610 \comment{The letter ‘\’ u’}
2611 \endsetslot
2612
2613 \setslot{\lctop{Ucircumflex}{ucircumflex}}
2614 \comment{The letter ‘^ u’}
2615 \endsetslot
2616
2617 \setslot{\lctop{Udieresis}{udieresis}}
2618 \comment{The letter ‘" u’}
2619 \endsetslot
2620
2621 \setslot{\lctop{Yacute}{yacute}}
2622 \comment{The letter ‘\’ y’}
2623 \endsetslot
2624
2625 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2626
2627 \setslot{\lclig{SH}{s_h}}
2628 \comment{The ligature ‘sh’. This slot is usually assigned to
2629 thorn.}
2630 \endsetslot
2631
2632 \Fi
2633
2634 \setslot{\lc{SS}{germandbls}}
2635 \comment{The letter ‘\ss’}
2636 \endsetslot
2637
2638 \endencoding

```

3.1 MTX

`mtx` files can be 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. We use `mtx` files supplied by `fontinst` for this purpose.

`mtx` files can also be used to set or alter the kerning of glyphs. For LibrisADF, we use an `mtx` file to set the kerning of alternate characters equal to that of their standard counterparts.

- `resetalt.mtx`

```

2639 \relax
2640 \metrics
2641 \resetglyph{K}
2642 \glyph{K.alt}{1000}
2643 \endsetglyph
2644 \setleftrightkerning{K}{K.alt}{1000}

```



```

2645 \resetglyph{Q}
2646 \glyph{Q.alt}{1000}
2647 \endsetglyph
2648 \setleftrighthkerning{Q}{Q.alt}{1000}
2649 \resetglyph{R}
2650 \glyph{R.alt}{1000}
2651 \endsetglyph
2652 \setleftrighthkerning{R}{R.alt}{1000}
2653 \resetglyph{X}
2654 \glyph{X.alt}{1000}
2655 \endsetglyph
2656 \setleftrighthkerning{X}{X.alt}{1000}
2657 \resetglyph{k}
2658 \glyph{k.alt}{1000}
2659 \endsetglyph
2660 \setleftrighthkerning{k}{k.alt}{1000}
2661 \endmetrics

```

Index

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

	Symbols	2119, 2141, 2149,	2366, 2399, 2415,
\"	..... 194, 350, 877,	2181, 2227, 2251,	2444, 2473, 2507,
	1016, 1069, 1098,	2263, 2285, 2293,	2540, 2556, 2585, 2614
	1114, 1144, 1169,	2325, 2362, 2395,	\' 178, 1053, 1086,
	1203, 1232, 1248,	2411, 2440, 2469,	1102, 1128, 1157,
	1278, 1303, 1475,	2481, 2503, 2536,	1187, 1220, 1236,
	1631, 2177, 2321,	2552, 2581, 2610, 2622	1262, 1291, 1459,
	2374, 2403, 2419,	\, 245, 249,	2358, 2391, 2407,
	2452, 2477, 2515,	347, 372, 617, 1526,	2436, 2465, 2499,
	2544, 2560, 2593, 2618	1530, 1628, 1653, 1901	2532, 2548, 2577, 2606
\\#	..... 355, 1636	\. 218, 889, 902, 1028,	\~ 190, 1065, 1124, 1140,
\\$	..... 359, 1640	1499, 2189, 2202, 2333	1199, 1258, 1274,
\%	..... 363, 1644	\= 214, 295,	1471, 2370, 2432,
\&	..... 367, 1648	300, 1495, 1576, 1581	2448, 2511, 2573, 2589
\'	..... 182, 206, 783,	_ 236, 241,	
	807, 819, 841, 849,	259, 264, 300, 350,	A
	881, 922, 946, 958,	1120, 1178, 1254,	\AE 1077, 2382
	980, 988, 1020, 1057,	1313, 1517, 1522,	\ae 1211, 2523
	1090, 1106, 1132,	1540, 1545, 1581, 1631	
	1161, 1173, 1191,	\^ 186, 1061, 1094,	C
	1224, 1240, 1266,	1110, 1136, 1165,	\c .. 222, 857, 865, 996,
	1295, 1307, 1463,	1195, 1228, 1244,	1004, 1082, 1216,
	1487, 2083, 2107,	1270, 1299, 1467,	1503, 2157, 2165,

	2301, 2309, 2387, 2528	1012, 1016, 1020,	1792, 1798, 1804,
\char	350, 1631	1024, 1028, 1034,	1808, 1812, 1816,
\comment	53, 171,	1041, 1045, 1049,	1820, 1824, 1828,
	178, 182, 186, 190,	1053, 1057, 1061,	1832, 1836, 1840,
	194, 198, 202, 206,	1065, 1069, 1073,	1844, 1848, 1852,
	210, 214, 218, 222,	1077, 1082, 1086,	1856, 1860, 1864,
	226, 230, 235, 240,	1090, 1094, 1098,	1868, 1872, 1876,
	245, 249, 253, 258,	1102, 1106, 1110,	1880, 1886, 1893,
	263, 269, 274, 279,	1114, 1118, 1124,	1901, 1905, 1909,
	287, 294, 299, 311,	1128, 1132, 1136,	1921, 1927, 1931,
	316, 321, 326, 331,	1140, 1144, 1148,	1943, 1949, 1953,
	338, 343, 347, 355,	1153, 1157, 1161,	1959, 1965, 1969,
	359, 363, 367, 372,	1165, 1169, 1173,	1973, 1977, 1981,
	376, 380, 384, 388,	1177, 1182, 1187,	1985, 1989, 1993,
	393, 399, 403, 407,	1191, 1195, 1199,	1997, 2010, 2019,
	411, 416, 420, 424,	1203, 1207, 1211,	2023, 2027, 2031,
	428, 432, 436, 440,	1216, 1220, 1224,	2035, 2039, 2043,
	444, 448, 452, 456,	1228, 1232, 1236,	2047, 2051, 2057,
	461, 465, 470, 475,	1240, 1244, 1248,	2063, 2070, 2075,
	479, 483, 487, 491,	1252, 1258, 1262,	2079, 2083, 2087,
	495, 499, 503, 507,	1266, 1270, 1274,	2091, 2095, 2099,
	511, 517, 523, 527,	1278, 1282, 1287,	2103, 2107, 2111,
	531, 535, 539, 543,	1291, 1295, 1299,	2115, 2119, 2123,
	547, 551, 555, 559,	1303, 1307, 1311,	2129, 2137, 2141,
	563, 567, 571, 575,	1317, 1334, 1452,	2145, 2149, 2153,
	579, 583, 587, 591,	1459, 1463, 1467,	2157, 2161, 2165,
	595, 599, 603, 609,	1471, 1475, 1479,	2169, 2173, 2177,
	617, 621, 625, 631,	1483, 1487, 1491,	2181, 2185, 2189,
	637, 641, 653, 659,	1495, 1499, 1503,	2195, 2202, 2208,
	663, 669, 675, 679,	1507, 1511, 1516,	2215, 2219, 2223,
	683, 687, 691, 695,	1521, 1526, 1530,	2227, 2231, 2235,
	699, 703, 707, 713,	1534, 1539, 1544,	2239, 2243, 2247,
	722, 726, 730, 734,	1550, 1555, 1560,	2251, 2255, 2259,
	738, 742, 746, 750,	1568, 1575, 1580,	2263, 2267, 2273,
	754, 760, 764, 770,	1592, 1597, 1602,	2281, 2285, 2289,
	775, 779, 783, 787,	1607, 1612, 1619,	2293, 2297, 2301,
	791, 795, 799, 803,	1624, 1628, 1636,	2305, 2309, 2313,
	807, 811, 815, 819,	1640, 1644, 1648,	2317, 2321, 2325,
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2369, 2373, 2377,	<code>\textquotedbl</code> . . 347, 1628	1771, 1775, 1779,
2381, 2386, 2390,	<code>\textquotedblleft</code> 245, 1526	1783, 1787, 1791,
2394, 2398, 2402,	<code>\textquotedblright</code> 249, 1530	1797, 1803, 1807,
2406, 2410, 2414,	<code>\textquotelleft</code> . . 617, 1901	1811, 1815, 1819,
2418, 2424, 2431,	<code>\textquoteright</code> . 372, 1653	1823, 1827, 1831,
2435, 2439, 2443,	<code>\textsection</code> 910, 2215	1835, 1839, 1843,
2447, 2451, 2455,	<code>\textsterling</code> . . 1049, 2354	1847, 1851, 1855,
2460, 2464, 2468,	<code>\texttt</code> 270, 275, 1551, 1556	1859, 1863, 1867,
2472, 2476, 2480,	<code>\textunderscore</code> . 609, 1893	2078, 2098, 2110,
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2502, 2506, 2510,	<code>\then</code> . 50, 51, 61, 67, 68,	2381, 2386, 2455, 2460
2514, 2518, 2522,	79, 85, 87, 93, 103,	<code>\uclig</code> 52, 53, 58, 894, 1181,
2527, 2531, 2535,	109, 111, 117, 123,	1333, 1334, 1339, 2493
2539, 2543, 2547,	125, 131, 137, 139,	<code>\uctop</code> 48, 774, 782,
2551, 2555, 2559,	145, 170, 284, 303,	786, 790, 794, 802,
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2592, 2596, 2601,	826, 892, 965, 1031,	860, 868, 872, 876,
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2617, 2621, 2627, 2634	1348, 1349, 1360,	1052, 1056, 1060,
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1109, 1113, 1123,	2369, 2373, 2377,	984, 992, 1000, 1024,
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2094, 2102, 2106,	2468, 2472, 2476, 2480	2289, 2297, 2305, 2329
2118, 2122, 2136,		
2140, 2144, 2148,	V	W
2152, 2160, 2168,	\v 206, 787, 791,	\width 86, 88,
2172, 2176, 2180,	795, 811, 823, 845,	146, 1367, 1369, 1427