

fontscripts

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Abstract

`fontscripts` provides variant font encodings, support metrics and Lua script fragments to automate the creation of $\text{T}_{\text{E}}\text{X}/\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X} 2_{\epsilon}$ font files for 8-bit engines using `l3build`. A template-based system enables the automatic generation of font tables and `l3build` tests.

The script fragments¹ make it possible to automate the generation of $\text{T}_{\text{E}}\text{X}$ font metrics, virtual fonts, map files etc. and the conversion of fonts and encodings. For tools which do not otherwise support it, such as `fontinst`, the scripts enable the automatic addition of variable scaling in font definition files. A semi-automatic system tries to ensure font encoding names are unique.

The script fragments are primarily designed for `fontinst`, but can easily be modified to work with other tools. The default configuration is intended to be cross-platform and requires only tools included in $\text{T}_{\text{E}}\text{X}$ Live, but the documentation includes a simple adaption for integration with FontForge and GNU make.

Contents

1	Lua Script Fragments	2
1.1	l3build Targets	3
1.2	Lua Functions	3
1.2.1	New Functions	3
1.2.2	Redefined Functions	4
1.3	Variables	4
2	Templates	7
2.1	Font Tables	7
2.2	Font Tests	7
3	Customisation	7
3.1	Examples	9

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

¹The main script fragments are written in *extremely elementary* Lua. This is the first thing I've ever attempted in Lua and I am not a programmer.

4	Implementation	9
4.1	Script Fragments	10
4.1.1	fontinst.lua	10
4.1.2	fnt-ctan.lua	26
4.1.3	tag.lua	28
4.2	Metrics	28
4.2.1	dotscbuild.mtx	28
4.2.2	newlatin-dotsc.mtx	32
4.2.3	dotscmisc.mtx	33
4.3	Encodings	35
4.3.1	dotoldstyle.etx	36
4.3.2	dotsc2.etx	36
4.3.3	dottaboldstyle.etx	36
4.3.4	lining.etx	36
4.3.5	oldstyle.etx	37
4.3.6	t1-cfr.etx	37
4.3.7	t1-dotalt-f_f.etx	61
4.3.8	t1-dotinf.etx	85
4.3.9	t1-dotinferior.etx	108
4.3.10	t1-dotsup.etx	132
4.3.11	t1-dotsuperior.etx	156
4.3.12	t1-f_f.etx	180
4.3.13	t1j-f_f.etx	204
4.3.14	ts1-dotinf.etx	204
4.3.15	ts1-dotsup.etx	217
4.3.16	ts1-euro.etx	230
4.3.17	ucdotalt.etx	243
	Change History	244
	Index	244

1 Lua Script Fragments

fontinst.lua provides two custom l3build targets and five new Lua functions. In addition,

it redefines three `l3build` functions (two of which do nothing by default). As well as those provided by `l3build`, a number of additional variables are used by these functions to determine what, where and how they should operate.

1.1 l3build Targets

`fnttarg (targ)` Runs `fontinst()`.

Builds traditional \TeX font files for 8-bit engines. The building is done in `unpackdir`. The results are copied to `keepdir` and the intermediate results to `keeptempdir`. Files in the former are copied back into the `builddir` when building documentation, running tests etc.

`uniquifyencs (targ) <encoding tag>`

Tries to ensure that the names of encoding files and font encodings are unique by editing font definition files and map file fragments in `keepdir`. `<encoding tag>` is optional. If no argument is given and `encodingtag` is empty, a suitable tag will be determined automatically².

1.2 Lua Functions

1.2.1 New Functions

`finst() (fn) finst(<patt>, <dir>, <mode>)`

Compile the second `fontinst` stage.

Called by `fontinst()`. There is usually no need to call this function directly.

`fontinst() (fn) fontinst(<dir>, <mode>)`

The main function called by `fnttarg`.

The function assumes `fontinst` is used but can be redefined to build files using alternative tools as appropriate.

The default definition calls `finst()`, `fntkeeper()` and `uniquify()` in addition to performing initial compilation. The process requires the usual `fontinst` setup i.e. a driver to generate the initial files and a second file to create map file fragments.

If a variable scaling factor is used, the font definition files will be edited to ensure this works, since `fontinst` apparently supports scaling only by a fixed factor. For a simple demonstration of how to set this up, see, for example, `baskervaldadf`'s driver which includes

```
\declaresize{}{<-> \string\ybv@@scale}
```

Shape declarations should then be written without scaling,

```
\installfont{ybvr8t}{ybvr8r,ybvr8sr,newlatin}{t1-baskervald}{T1}{ybv}{m}{n}{}
```

since scaling will be added after the font definition files are created,

²Hopefully.

```

\expandafter\ifx\csname ybv@scale\endcsname\relax
  \let\ybv@scale\@empty
\else
  \edef\ybv@scale{s*[\csname ybv@scale\endcsname]}%
\fi

\DeclareFontFamily{T1}{ybv}{}

\DeclareFontShape{T1}{ybv}{m}{n}{
  <-> \ybv@scale ybvr8t
}{}

```

to enable a suitable option in the `sty` file.

`fnt_test()` (*fn*) `fnt_test(<fntpkgname>, <fds>, <content>, <maps>, <fdsdir>)`

Auto-generates `lvt` files suitable for use with `l3build check` from a template.

`fntkeeper()` (*fn*) `fntkeeper()`

Copies generated files to `keepdir` and/or `keeptempdir` to prevent deletion by `l3build`. This function is called by `fontinst()` and may be useful if that function is redefined.

`uniquify()` (*fn*) `uniquify(<tag>)`

Tries to ensure the names of font encodings and encoding files are unique by editing font definition files and map file fragments.

This function is used by `fontinst()` or may be called directly using the `uniquifyencs` target.

1.2.2 Redefined Functions

`checkinit_hook()` (*fn*) `checkinit_hook()`

This is a standard `l3build` function which does nothing by default. `fontinst.lua` redefines it to automatically generate test files suitable for use with `l3build check` if a test template is available.

`copyctan()` (*fn*) `copyctan()`

This is extended to copy files from `keepdir` and to impose a single-layer of sub-directories of the kind required by [CTAN](#) for font distributions.

`docinit_hook()` (*fn*) `docinit_hook()`

This is a standard `l3build` function which does nothing by default. `fontinst.lua` redefines it to automatically generate font tables suitable for use with `l3build doc` from a template.

1.3 Variables

Defaults assigned by `fontinst.lua` to both `l3build` and `fontscripts` variables are listed in [table 1](#) and [table 2](#) respectively. At least some of these variables would need adjustment in order to use `fontscripts` for a different project, let alone in a different environment.

`autotestfds` (*var*) `autotestfds = {<globs>}`

Table 1: fontinst defaults for l3build variables.

Variable	Value
bakext	= ".bkup"
checkdeps	= {maindir .. "/nfssect-cfr", maindir .. "/fnt-tests"}
checkengines	= {"pdftex"}
checkformat	= "latex"
cleanfiles	= {keeptempfiles}
ctanreadme	= "README.md"
demofiles	= {"*-example.tex"}
flatten	= true
flattentds	= false
installfiles	= {"*.afm", "*.cls", "*.enc", "*.fd", "*.map", *.otf", "*.pfb", "*.sty", "*.tfm", "*.ttf", *.vf"}
manifestfile	= "manifest.txt"
nifergwall	= 0
ntarg	= "fnttarg"
packtdszip	= true
sourcefiledir	= sourcefiledir or "."
sourcefiles	= {"*.afm", "afm/*.afm", "*.pfb", "*.dtx", *.ins", "opentype/*.otf", "*.otf", "tfm/*.tfm", "truetype/*.ttf", "*.ttf", "type1/*.pfb"}
tagfiles	= {"*.dtx", "*.ins", "manifest.txt", "MANIFEST.txt", "README", "README.md"}
tdslocations	= { "fonts/afm/" .. vendor .. "/" .. module .. "/" .. "*.afm", "fonts/enc/dvips/" .. module .. "/" .. "*.enc", "fonts/map/dvips/" .. module .. "/" .. "*.map", "fonts/opentype/" .. vendor .. "/" .. module .. "/" .. "*.otf", "fonts/tfm/" .. vendor .. "/" .. module .. "/" .. "*.tfm", "fonts/truetype/" .. vendor .. "/" .. module .. "/" .. "*.ttf", "fonts/type1/" .. vendor .. "/" .. module .. "/" .. "*.pfb", "fonts/type1/" .. vendor .. "/" .. module .. "/" .. "*.pfm", "fonts/vf/" .. vendor .. "/" .. module .. "/" .. *.vf", "source/fonts/" .. module .. "/" .. *.etx", "source/fonts/" .. module .. "/" .. *.mtx", "source/fonts/" .. module .. "/" .. *-drv.tex", "source/fonts/" .. module .. "/" .. *-map.tex", "tex/latex/" .. module .. "/" .. *.fd", "tex/latex/" .. module .. "/" .. *.sty" }
typesetdeps	= {maindir .. "/nfssect-cfr"}
typesetexe	= "TEXMFDOTDIR=../../local: pdflatex"
typesetfiles	= typesetfiles or {"*.dtx", "*-tables.tex", *-example.tex"}
typesetsourcefiles	= {keepdir .. "/*", "nfssect-cfr*.sty"}
unpackexe	= "pdflatex"
unpackfiles	= {"*.ins"} ^{5 / 267} —
utarg	= "uniquifyencs"

Table 2: fontinst defaults for fontscript variables.

Variable	Value
autotestfds	= autotestfds or {}
binaryfiles	= {"*.pdf", "*.zip", "*.vf", "*.tfm", "*.pfb", "*.ttf", "*.otf", "*.tar.gz"}
binmakers	= {"*-pltotf.sh"}
familymakers	= {"*-drv.tex"}
fnttestfds	= fnttestfds or {}
keepdir	= keepdir or sourcefiledir .. "/keep"
keepfiles	= keepfiles or {"*.enc", "*.fd", "*.map", "*.tfm", "*.vf"}
keeptempdir	= keeptempdir or sourcefiledir .. "/keeptemp"
keeptempfiles	= keeptempfiles or {"*.mtx", "*.pl", "*-pltotf.sh", "*-rec.tex", "*.vpl", "*.zz"}
mapmakers	= {"*-map.tex"}
vendor	= vendor or "public"

See also `testfds`.

`binmakers (var) binmakers = {<globs>}`

Scripts to run to convert human-readable T_EX font metrics/virtual font metrics into binary T_EX font metrics and virtual fonts.

`familymakers (var) familymakers = {<globs>}`

Source files `fontinst()` should compile to generate T_EX support files.

For the default definition of `fontinst()` this variable should specify the driver or drivers to be compiled.

`fnttestfds (var) fnttestfds = {<globs>}`

Files to use when generating test files for `l3build`.

`keepdir (var) keepdir = "<dir>"`

Directory to store final products of font creation e.g. font definitions, map file fragments, T_EX font metrics, virtual fonts etc.

`keeptempdir (var) keeptempdir = "<dir>"`

Directory to store intermediat products of font creation e.g. human-readable T_EX font metrics, virtual font metrics etc.

`keepfiles (var) keepfiles = {<globs>}`

Files to copy to `keepdir`.

`keeptempfiles (var) keeptempfiles = {<globs>}`

Files to copy to `keeptempdir`.

`mapmakers (var) mapmakers = {<globs>}`

Source files `fontinst()` should compile to generate map file fragments etc.

`vendor (var) mapmakers = "<vendor>"`

Vendor directory for font installation such as `public` or `arkandis`.

2 Templates

By default, `fontinst.lua` is able to utilise two kinds of `tex` template. By default, it is assumed these templates are located in `maindir..'fnt-tests'`. In order for this to work, this directory must include a `build.lua` even though there is nothing to build. Otherwise, `l3build` cannot recognise the directory's contents as legitimate and fails to copy them correctly into the `build` directory.

```
module = "fnt-tests"
maindir = ".."
sourcefiles = {"*.tex"}
installfiles = {"*.tex"}
```

Font packages should then be located in subdirectories or sub-subdirectories of `maindir` with `build.lua` scripts configured appropriately.

2.1 Font Tables

A template for producing font tables as part of package documentation is provided. The template is used in `fontinst.lua`'s `doc_init()` hook to generate `tex` files populated with font information from font definition files. This is then compiled by `l3build doc` to produce font tables.

2.2 Font Tests

If a template is found in the font test directory, it will be used in `fontinst.lua`'s `check_init()` hook to generate `lvt` files populated with font information from font definition files. These tests are then compiled by `l3build check` as part of the test suite. Certain file patterns are excluded from testing. In particular, separate tests are not generated for `ts1 fd` files because these families are typically better tested along with their `t1` counterparts.

3 Customisation

As in the case of `l3build`, you can replace functions and targets at will, albeit on a much more limited scale. Although it would be better to just not use `fontinst.lua` at all if you want to redefine everything, it can make sense to redefine `fontinst()` if, say, you want to use different font creation tools but make use of the functions for stashing generated files, generating font tables, testing etc.

For example, `berenisadf` was built using a `build.lua` containing

```
autotcfd = { "ts1ybd2j.fd", "ts1ybd2.fd", "ts1ybdj.fd", "ts1ybd.fd" }
dofile(maindir .. "/fontinst.lua")
```

```

function fntmake (dir,mode)
  dir = dir or unpackdir
  mode = mode or "errorstopmode --halt-on-error"
  print("Unpacking ...\\n")
  local errorlevel = unpack()
  print("Running make. Please be patient ...\\n")
  errorlevel = run(dir, "chmod +x ff-ybd.pe")
  if errorlevel ~=0 then
    gwall("Attempt to make fontforge script executable ", unpackdir, errorlevel)
  else
    errorlevel = run(dir, "make -f Makefile.make all")
    if errorlevel ~= 0 then
      gwall("make ", unpackdir, errorlevel)
    end
    -- make ts1 swash families so tc commands pick up the characters in ly1
    for i, j in ipairs(autotcfd) do
      local jfam = string.gsub(j, "^ts1(.*)%.fd$", "%1")
      local jnewfam = jfam .. "w"
      local jnew = string.gsub(j, "(%.fd)$", "%w%1")
      local f = assert(io.open(unpackdir .. "/" .. j,"rb"))
      local content = f:read("*all")
      f:close()
      -- copied from l3build
      -- but I don't understand why the first subs is needed
      -- is it a problem if the file doesn't end with a newline?
      content = string.gsub(content .. (string.match(content, "\\n$") and "" or "\\n"), " "
      local new_content = string.gsub(content, "{" .. jfam .. "}", "{" .. jnewfam .. "
      new_content = string.gsub(new_content, "(ts1[~%.]*)("%.fd)", "%1w%2")
      new_content = string.gsub(new_content, "(TS1/ybd[a-z0-9]*)", "%1w")
      f = assert(io.open(unpackdir .. "/" .. jnew,"w"))
      -- this somehow removes the second value returned by string.gsub??
      f:write((string.gsub(new_content, "\\n", os_newline_cp)))
      f:close()
    end
    errorlevel = fntkeeper()
    if errorlevel ~= 0 then
      gwall("FONT KEEPER FAILED! DO NOT MAKE STANDARD TARGETS WITHOUT RESOLVING!! ", u
    end
  end
  return nifergwall
end
target_list[ntarg] = {
  func = fntmake,
  desc = "Creates TeX font files",
  pre = function(names)
    if names then
      print("fntmake does not need names\\n")
      help()
      exit(1)
    end
  end
}

```



```

    return 0
  end
}

```

That is, `berenisadf` doesn't use `fontinst()` at all, but `fntmake()`, which simply invokes `gnu make` and calls `fntkeeper()`³.

3.1 Examples

The latest versions of the following packages were developed using `fontscripts` and build using `l3build`⁴. Full details, including the use of templates and scaling are available on [CODEBERG](#) or [GITHUB](#).

- GUST:
 - `cfr-lm`
- ARKANDIS:
 - `baskervaldadf`
 - `berenisadf`
 - `electrumadf`
 - `librisadf`
 - `romandeadf`
 - `venturisadf`.

4 Implementation

`fnt-tables.tex` (*tpt*)

```

1 \pdftracingfonts=1
2 \RequirePackage{svn-prov}
3 \ProvidesFileSVN{$Id: fontscripts.dtx 10412 2024-09-27 15:10:34Z cfrees $}[v0.1
  \revinfo][\outFileName]
4 \DefineFileInfoSVN

5 \documentclass[10pt,a4paper]{article}
6 \usepackage{geometry}
7 \usepackage{fonttable}
8 \newcommand\sampletable[4]{%
9   #1/#2/#3/#4:\par\noindent
10  \xfonttable{#1}{#2}{#3}{#4}%
11  \clearpage
12 }
13 % vim: ts=2:sw=2:tw=80:nospell

```

³It does not ensure encoding names are unique, but it should.

⁴Note that it is in no sense a dependency; it contains nothing ever required in typesetting.

4.1 Script Fragments

These are not standalone scripts, but files to be read by `l3build` to provide additional and/or divergent functions. Note that several are based on LPPL files not on [CTAN](#), as the L^AT_EX Project does not package their build scripts.

These script fragments were not written for general use and will CERTAINLY FAIL if not adapted to your build environment.

4.1.1 fontinst.lua

`fontinst.lua` (*lua*) Use `dofile()` in `build.lua` to add to `l3build`.

```

12 os.setenv ("PATH", "/usr/local/texlive/bin:/usr/bin:")
13 os.setenv ("TEXMFHOME", ".")
14 os.setenv ("TEXMFLOCAL", ".")
15 os.setenv ("TEXMFARCH", ".")
16 -----
17 -- copy non-public things from l3build
18 local os_newline_cp = "\n"
19 if os.type == "windows" then
20   if tonumber(status.luatex_version) < 100 or
21     (tonumber(status.luatex_version) == 100
22     and tonumber(status.luatex_revision) < 4) then
23     os_newline_cp = "\r\n"
24   end
25 end
26 -----
27 nifergwall = 0

```

`fnttarg` (*targ*) Create fonts. Default assumes `fontinst`. Redefine element in target list for alternative tools. For example, `berenisadf`'s `build.lua` redefines it to use GNU `make`, `FONTFORGE` etc.

```

28 ntarg = "fnttarg"

```

`uniquifyencs` (*targ*) To ensure unique encodings without rebuilding fonts.

```

29 utarg = "uniquifyencs"

30 function gwall (msg,file,rtn)
31   file = file or "current file"
32   msg = msg or "Error: "
33   rtn = rtn or 0
34   if rtn ~= 0 then
35     nifergwall = nifergwall + rtn
36     print (msg .. file .. " failed (" .. rtn .. ")\n")
37   end
38 end

```

`finst()` (*fn*) Is to `finst` what `fontinst` is to `fontinst`.

```

39 end
40 function finst (patt,dir,mode)
41   dir = dir or "."
42   mode = mode or "nonstopmode"
43   local cmd = "pdftex --interaction=" .. mode
44   local targs = {}
45   -- https://lunarmodules.github.io/luafilesystem/examples.html (expl)
46   -- l3build-file-functions.lua (filelist fn)
47   targs = filelist(dir,patt)
48   for i,j in ipairs(targs) do
49     local errorlevel = tex(j,dir,cmd)
50     gwall("Compilation of ", j, errorlevel)
51   end
52 end

```

`fntkeeper()` (*fn*) Keep fonts between l3build runs unless `fnttarg` explicitly called.

```

53 function fntkeeper ()
54   local dir = dir or unpackdir
55   local rtn = direxists(keepdir)
56   if not rtn then
57     local errorlevel = mkdir(keepdir)
58     if errorlevel ~= 0 then
59       print("DO NOT BUILD STANDARD TARGETS WITHOUT RESOLVING!!\n")
60       gwall("Attempt to create directory ", keepdir, errorlevel)
61     end
62   else
63     local errorlevel = cleandir(keepdir)
64     if errorlevel ~= 0 then
65       print("KEEP CONTAMINATED!\n")
66       gwall("Attempt to clean directory ",keepdir,errorlevel)
67     end
68   end
69   local keepdir = abspath(keepdir) -- abspath requires existence
70   if keepfiles ~= {} then
71     for i,j in ipairs(keepfiles) do
72       local rtn = cp(j, unpackdir, keepdir)
73       if rtn ~= 0 then
74         gwall("Copy ", j, errorlevel)
75         print("DO NOT BUILD STANDARD TARGETS WITHOUT RESOLVING!\n")
76       end
77     end
78   else
79     print("ARE YOU SURE YOU DON'T WANT TO KEEP THE FONTS??!!\n")
80   end
81   if keeptempfiles ~= {} then
82     rtn = direxists(keeptempdir)
83     if not rtn then
84       local errorlevel = mkdir(keeptempdir)
85       if errorlevel ~= 0 then

```

```

86     gwall("Attempt to create directory ", keeptempdir, errorlevel)
87     end
88     else
89         local errorlevel = cleandir(keeptempdir)
90         if errorlevel ~= 0 then
91             print("keeptemp contaminated!\n")
92             gwall("Attempt to clean directory ",keeptempdir,errorlevel)
93         end
94     end
95     for i,j in ipairs(keeptempfiles) do
96         local errorlevel = cp(j,unpackdir,keeptempdir)
97         if errorlevel ~= 0 then
98             gwall("Copy ", j, errorlevel)
99         end
100    end
101    end
102    return nifergwall
103 end

```

uniquify() (*fn*) Ensure encoding names are unique.

```

104 function uniquify (tag)
105     local dir = ""
106     tag = tag or encodingtag or ""
107     local pkgbase = pkgbase or ""
108     if standalone then
109         dir = keepdir
110         if pkgbase == "" then
111             print("pkgbase unspecified. Trying to guess ... ")
112             if ctanpkg ~= module and module ~= "" and module ~= nil then
113                 print("Guessing " .. module)
114                 pkgbase = module
115             else
116                 pkgbase = string.gsub(ctanpkg, "adf$", "")
117                 if pkgbase ~= "" then
118                     print("Guessing " .. pkgbase)
119                 end
120             end
121         end
122     else
123         dir = unpackdir
124         if pkgbase == "" then
125             local pkglist = filelist(dir,"*.sty")
126             if #pkglist ~= 0 then
127                 pkgbase = pkglist[1]
128             end
129         end
130     end
131     local encs = encs or filelist(dir,"*.enc")
132     local maps = maps or filelist(dir,"*.map")

```

```

133     if #encs == 0 then
134         return 0
135     else
136         if tag == "" then
137             if #maps ~= 0 then
138                 if #maps == 1 then
139                     tag = string.gsub(maps[1], "%map$", "")
140                 else
141                     local t = ""
142                     local tt = ""
143                     for i, j in ipairs(maps) do
144                         if tt == t then
145                             tt = string.gsub(j, "%w%.map$", "")
146                         else
147                             if t == "" then
148                                 t = string.gsub(j, "%w%.map$", "")
149                             end
150                         end
151                     end
152                     if t == tt then
153                         tag = tt
154                     else
155                         gwall("Attempt to find tag ", "", 1)
156                     end
157                 end
158             end
159         end
160         if tag ~= "" then
161             for i, j in ipairs(encs) do
162                 if string.match(j, "-" .. tag .. "%.enc$") or string.match(j, module) or string.match(j, "OK\n") then
163                     print(j .. " ... OK\n")
164                 else
165                     local targenc = (string.gsub(j, "%.enc$", "-" .. tag .. ".enc"))
166                     print("Target encoding is " .. targenc .. "\n")
167                     if fileexists(dir .. "/" .. targenc) then
168                         gwall("Target encoding exists !! ", targenc, 1)
169                         return 1
170                     else
171                         local f = assert(io.open(dir .. "/" .. j, "rb"))
172                         local content = f:read("*all")
173                         f:close()
174                         local new_content = (string.gsub(content, "(\\n%%%%BeginResource: encoding f", ""))
175                         if new_content ~= content then
176                             print("Writing unique encoding to " .. targenc)
177                             f = assert(io.open(dir .. "/" .. targenc, "w"))
178                             -- this somehow removes the second value returned by string.gsub??
179                             f:write((string.gsub(new_content, "\\n", os_newline_cp)))
180                             f:close()
181                             if fileexists(dir .. "/" .. targenc) then
182                                 local errorlevel = rm(dir, j)

```

```

183         if errorlevel ~= 0 then
184             gwall("Attempt to rm old encoding ",j,errorlevel)
185         end
186         if #maps ~= 0 then
187             local jpatt = string.gsub(j,"%-","%-")
188             jpatt = string.gsub(jpatt,"%.","%%.")
189             for k,m in ipairs(maps) do
190                 f = assert(io.open(dir .. "/" .. m,"rb"))
191                 local mcontent = f:read("*all")
192                 f:close()
193                 local new_mcontent = (string.gsub(mcontent,"%<[%?]" .. jpatt .. "
194                 if new_mcontent ~= mcontent then
195                     print("Writing adjusted map lines to " .. m)
196                     f = assert(io.open(dir .. "/" .. m,"w"))
197                     -- this somehow removes the second value returned by string.gsub
198                     f:write((string.gsub(new_mcontent,"\n",os_newline_cp)))
199                     f:close()
200                 else
201                     gwall("Amending map ",m,1)
202                 end
203             end
204         else
205             print("FOUND NO MAPS??\n")
206         end
207     else
208         gwall("Attempt to write ",targenc,1)
209     end
210 else
211     gwall("Attempt to uniquify " .. j .. " as ",targenc,1)
212 end
213 end
214 end
215 end
216 end
217 return nifergwall
218 end
219 print("Something weird happened.\n")
220 return 1
221 end

```

`fontinst()` (*fn*) Configured for fontinst.

```

222 function fontinst (dir,mode)
223     dir = dir or unpackdir
224     mode = mode or "errorstopmode --halt-on-error"
225     standalone = false
226     encodingtag = encodingtag or ""
227     -- if not direxists(dir) then
228     -- print("Missing directory. Unpacking first.\n")
229     print("Unpacking ... \n")

```

```
230     local errorlevel = unpack()
231     -- end
232     local tfmfiles = filelist(dir,"*.tfm")
233     for i,j in ipairs(tfmfiles) do
234         local pname = string.gsub(j, "%.tfm$", ".pl")
235         if fileexists(unpackdir .. "/" .. pname) then
236             print(pname .. " already exists!")
237             return 1
238         else
239             local cmd = "tftopl " .. j .. " " .. pname
240             local errorlevel = runcmd(cmd,dir)
241             gwall("Conversion to pl from tfm ",j,errorlevel)
242             -- remove tfm to reduce pollution of package later
243             rm(unpackdir,j)
244             gwall("Deletion of tfm ", j, errorlevel)
245         end
246     end
247     for i,j in ipairs(familymakers) do
248         local errorlevel = first(j,dir,mode)
249         gwall("Compilation of driver ", j, errorlevel)
250     end
251     if nifergwall ~= 0 then return nifergwall end
252     for i,j in ipairs(mapmakers) do
253         local errorlevel = first (j,dir,mode)
254         gwall("Compilation of map ", j, errorlevel)
255     end
256     if nifergwall ~= 0 then return nifergwall end
257     for i,j in ipairs(binmakers) do
258         local targs = filelist(dir,j)
259         -- https://www.lua.org/pil/21.1.html
260         for k,m in ipairs(targs) do
261             targ = dir .. "/" .. m
262             -- is this really the right way to do this?
263             -- surely it is not at all safe?
264             -- though presumably no worse than executing the script directly
265             for line in io.lines(targ) do
266                 if string.match(line,"~pltotf [a-zA-Z0-9-]+%.pl [a-zA-Z0-9-]+%.tfm$") then
267                     local errorlevel = runcmd(line,dir)
268                     gwall("Creation of TFM using " .. line .. " from ", j, errorlevel)
269                 else
270                     print("Ignoring unexpected line \"" .. line .. "\" in " .. j .. ".\n")
271                     nifergwall = nifergwall + 1
272                 end
273             end
274         end
275     end
276     if nifergwall ~= 0 then return nifergwall end
277     local targs = filelist(dir,"*.vpl")
278     for i,j in ipairs(targs) do
279         local cmd = "vptovf " .. j
```

```

280     local errorlevel = runcmd(cmd,dir)
281     gwall("Creation of virtual font from ", j, errorlevel)
282 end
283 -- edit the .fd files if a scale factor is declared because fontinst
284 -- doesn't allow us to do this and the last message to the mailing list
285 -- is from 2022 with no response from the maintainer
286 local fdfiles = filelist(unpackdir, "*.fd")
287 for i,j in ipairs(fdfiles) do
288     local f = assert(io.open(unpackdir .. "/" .. j,"rb"))
289     local content = f:read("*all")
290     f:close()
291     local new_content = content
292     local cssscaleaux = string.match(content, "%<-%> *\\([%a%d] [%a%d]*@@scale)")
293     if cssscaleaux ~= nil then
294         local cssscale = string.gsub(cssscaleaux, "@(@)", "%1")
295         if cssscale ~= nil then
296             new_content = string.gsub(content, "(\\DeclareFontFamily{)", "%% addaswyd o t1)
297         end
298     end
299     cssscaleaux = string.match(content, "\\DeclareFontFamily{[~]}*{[~]}*{[~]}*\\hyphenc")
300     if cssscaleaux ~= nil then
301         content = new_content
302         new_content = string.gsub(content, "(\\DeclareFontFamily{[~]}*{[~]}*{\\hyphenc")
303     end
304     if new_content ~= content then
305         local f = assert(io.open(unpackdir .. "/" .. j,"w"))
306         -- this somehow removes the second value returned by string.gsub??
307         f:write((string.gsub(new_content, "\n", os_newline_cp)))
308         f:close()
309     end
310 end
311 local errorlevel = uniquify(encodingtag)
312 if errorlevel ~= 0 then
313     gwall("Encodings not uniquified! Do not submit to CTAN! uniquify(" .. encodingtag
314 end
315 errorlevel = fntkeeper()
316 if errorlevel ~= 0 then
317     gwall("FONT KEEPER FAILED! DO NOT MAKE STANDARD TARGETS WITHOUT RESOLVING!! fntkee
318 end
319 return nifergwall
320 end

321 dofile(maindir .. "/tag.lua")
322 -- fnt_test

```

fnt_test() (*fn*) Assumes a suitable template is available for testing.

```

323 function fnt_test (fntpkgname,fds,content,maps,fdsdir)
324     local coll = ""
325     -- suffix ly -> ly1 ; no suffix -> t1

```



```

326 local collly = ""
327 local targname = fntpkgname .. "-auto-test.lvt"
328 local targnamely = fntpkgname .. "-auto-test-ly1.lvt"
329 local targfile = unpackdir .. "/" .. targname
330 local targfilely = unpackdir .. "/" .. targnamely
331 -- ly1 boolean
332 local yy = 0
333 -- texnansi/ly1 fds
334 local lys = {}
335 -- ec/t1 fds
336 local ecs = {}
337 -- local mapsly = ""
338 print("Creating test file for " .. fntpkgname .. " with fds: ")
339 for i, j in ipairs(fds) do print("fd: " .. j) end
340 -- l3build-tagging.lua
341 for i, j in ipairs(fds) do
342   -- local errorlevel = cp(j, keepdir, unpackdir)
343   if string.match(j, "^ly1") then
344     yy = 1
345     table.insert(lys, j)
346   else
347     table.insert(ecs, j)
348   end
349   if fdsdir ~= unpackdir then
350     local errorlevel = cp(j, fdsdir, unpackdir)
351     if errorlevel ~= 0 then
352       gwall("Copy ", j, errorlevel)
353       return errorlevel
354     end
355   end
356 end
357 -- restart so we get the filtered list (hopefully)
358 for i, j in ipairs(ecs) do
359   j = unpackdir .. "/" .. j
360   for line in io.lines(j) do
361     -- it would be much better to filter the file list ...
362     if string.match(line, "^\\DeclareFontShape%{[^%]*}%{[^%]*}%{[^%]*}%{[^%]*}%{[^%]*}%{[^%]*}%")
363       coll = (coll .. string.gsub(string.gsub(line, "%{", "%%%"), "^\\DeclareFontShap
364     end
365   end
366 end
367 if yy == 1 then
368   for i, j in ipairs(lys) do
369     j = unpackdir .. "/" .. j
370     for line in io.lines(j) do
371       -- it would be much better to filter the file list ...
372       if string.match(line, "^\\DeclareFontShape%{[^%]*}%{[^%]*}%{[^%]*}%{[^%]*}%{[^%]*}%{[^%]*}%")
373         collly = (collly .. string.gsub(string.gsub(line, "%{", "%%%"), "^\\DeclareFo
374       end
375     end

```

```

376     end
377     coll = maps .. "\n\\usepackage[enc=t1]{ " .. fntpkgname .. "} \n\\begin{document} \n\\
378     collly = maps .. "\n\\usepackage[enc=ly1]{ " .. fntpkgname .. "} \n\\begin{document}
379 else
380     -- assume package doesn't have an encoding option and is t1/ts1 only
381     coll = maps .. "\n\\usepackage{ " .. fntpkgname .. "} \n\\begin{document} \n\\START \n
382 end
383 -- coll = maps .. "\n\\begin{document} \n\\START \n" .. coll .. "\n\\END \n\\end{docume
384 local new_content = "% Do not edit this file. It is generated by l3build and chang
385 local f = assert(io.open(targfile,"w"))
386 -- this somehow removes the second value returned by string.gsub??
387 f:write((string.gsub(new_content, "\n", os_newline_cp)))
388 f:close()
389 if yy == 1 then
390     new_content = "% Do not edit this file. It is generated by l3build and changes w
391     local f = assert(io.open(targfilely,"w"))
392     -- this somehow removes the second value returned by string.gsub??
393     f:write((string.gsub(new_content, "\n", os_newline_cp)))
394     f:close()
395 end
396 -- PAID Ã CHEISIO YR ISOD!!
397 -- cp(targname,unpackdir,testfiledir)
398 local errorlevel = cp(targname,unpackdir,testdir)
399 if errorlevel ~= 0 then
400     gwall("Attempt to copy ", targname, errorlevel)
401 end
402 errorlevel = cp(targnamely,unpackdir,testdir)
403 if errorlevel ~= 0 then
404     gwall("Attempt to copy ", targnamely, errorlevel)
405 end
406 return nifergwall
407 end

```

checkinit_hook() (*fn*) Redefinition of standard l3build function.

```

408 function checkinit_hook ()
409     local filename = "fnt-test.lvt"
410     local file = unpackdir .. "/" .. filename
411     local fnttestdir = maindir .. "/fnt-tests"
412     local maps = ""
413     local mapfiles=filelist(keepdir, "*.map")
414     local mapsdir = ""
415     local fdsdir = ""
416     if #mapfiles == 0 then
417         mapfiles=filelist(unpackdir, "*.map")
418         if #mapfiles == 0 then
419             gwall("Attempt to find map files ", ".map", 1)
420             return 1
421         else
422             print("Using maps from " .. unpackdir .. "\n")

```

```

423     mapsdire = unpackdir
424   end
425   else
426     mapsdire = keepdir
427     print("Using maps from " .. keepdir .. "\n")
428   end
429   local fntpkgnames = fntpkgnames or filelist(unpackdir,"*.sty")
430   for i, j in ipairs(fntpkgnames) do
431     fntpkgnames[i] = string.gsub(j,"%%.sty","")
432   end
433   -----
434   local autotestfdstmp = filelist(keepdir, "*.fd")
435   -- if they're not kept, they may be source (e.g. berenisadf)
436   if #autotestfdstmp == 0 then
437     autotestfdstmp = filelist(unpackdir, "*.fd")
438     if #autotestfdstmp == 0 then
439       gwall("Attempt to find fd files ", ".fd", 1)
440       return 1
441     else
442       fdsdir = unpackdir
443       print("Using fds from " .. unpackdir .. "\n")
444     end
445   else
446     fdsdir = keepdir
447     print("Using fds from " .. keepdir .. "\n")
448   end
449   if #autotestfdstmp == 0 then
450     print("Something is amiss - this code should never be executed!\n")
451     gwall("Attempt to locate fd files ", ".fd", 1)
452   else
453     if #autotestfdfs == 0 then
454       for i, j in ipairs(autotestfdstmp) do
455         if not string.match(j,"^ts1") then
456           table.insert (autotestfdfs, j)
457         end
458       end
459     end
460   end
461   -----
462   -- if fntestfdfs.<package name> has been specified, use that (should be a table)
463   -- o/w assign the autotestfdfs table to fntestfdfs.<package name>
464   -- but remember fntestfdfs may be pairs and/or ipairs ...
465   -- there must be a better way to do this ...
466   if #fntestfdfs == 0 then
467     for i,j in ipairs(fntpkgnames) do
468       if fntestfdfs[j] == nil then
469         print("Auto-assigning autotestfdfs to fntestfdfs[" .. j .. "].\n")
470         fntestfdfs[j] = {}
471         for a,b in ipairs(autotestfdfs) do
472           table.insert(fntestfdfs[j],b)

```

```

473         end
474     end
475 end
476 else
477     local testmes = {}
478     for i,j in ipairs(fnttestfds) do
479         table.insert(testmes,j)
480     end
481     for i, j in ipairs(fntpkgnames) do
482         -- I really don't understand tables (and I know this is very, very basic)
483         if fnttestfds[j] == nil then
484             fnttestfds[j] = {}
485             -- use only if fnttestfds isn't specified either as table of tables or table o
486             -- this doesn't seem very robust
487             for k, l in ipairs(testmes) do
488                 table.insert (fnttestfds[j], l)
489             end
490         end
491     end
492 end
493 -----
494 for i, j in ipairs(mapfiles) do
495     maps = maps .. "\n\pdfmapfile{" .. j .. "} \n\pdfmapfile{" .. j .. "}"
496 end
497 -- maps = maps .. "\n\pdfmapfile{+pdftex.map}"
498 if not fileexists(fnttestdir .. "/" .. filename) then
499     print("Skipping test creation.\n")
500 else
501     local errorlevel = cp(filename,fnttestdir,unpackdir)
502     -- local errorlevel = ren(unpackdir, filename, targname)
503     if errorlevel ~= 0 then
504         gwall("Copy ", filename, errorlevel)
505         return errorlevel
506     else
507         -- need to get content here
508         -- copy this from l3build-tagging.lua
509         local f = assert(io.open(file,"rb"))
510         local content = f:read("*all")
511         f:close()
512         -- ought to normalise line endings here
513         -- copied from l3build
514         -- but I don't understand why the first subs is needed
515         -- is it a problem if the file doesn't end with a newline?
516         content = string.gsub(content .. (string.match(content,"\n$") and "" or "\n"), "\n", "\r\n")
517         content = string.gsub(content, "\\RequirePackage%{svn%-prov%}\n\ProvidesFileSVN", "\n\ProvidesFileSVN")
518         for i, j in ipairs(fntpkgnames) do
519             -- create the test file for each package
520             -- errorlevel = fnt_test(j,fnttestfds[j],content,maps)
521             -- dyw fnttestfds.j ddim yn gweithio yma!!
522             errorlevel = fnt_test(j,fnttestfds[j],content,maps,fsdir)

```

```

523         if errorlevel ~= 0 then
524             gwall("Font test creation ", j, errorlevel)
525             return errorlevel
526         end
527     end
528     rm(unpackdir,filename)
529 end
530 end
531 return 0
532 end

```

docinit_hook() (*fn*) Redefinition of standard l3build function.

```

533 function docinit_hook ()
534     -- local fdfiles = filelist(keepdir, "*.fd")
535     local fdfiles = filelist(unpackdir, "*.fd")
536     local filename = "fnt-tables.tex"
537     local targname = ctanpkg .. "-tables.tex"
538     local file = unpackdir .. "/" .. filename
539     local targfile = unpackdir .. "/" .. targname
540     local coll = ""
541     local fnttestdir = maindir .. "/fnt-tests"
542     local maps = ""
543     local mapfiles=filelist(unpackdir, "*.map")
544     local yy = 0
545     for i, j in ipairs(mapfiles) do
546         maps = maps .. "\n\pdfmapfile{-" .. j .. "}\n\pdfmapfile{+" .. j .. "}"
547     end
548     if not fileexists(fnttestdir .. "/" .. filename) then
549         print("Skipping font tables.\n")
550     else
551         local errorlevel = cp(filename,fnttestdir,unpackdir)
552         -- local errorlevel = ren(unpackdir, filename, targname)
553         if errorlevel ~= 0 then
554             gwall("Copy ", filename, errorlevel)
555             return errorlevel
556         else
557             -- need to get content here
558             -- copy this from l3build-tagging.lua
559             local f = assert(io.open(file,"rb"))
560             local content = f:read("*all")
561             f:close()
562             -- ought to normalise line endings here
563             -- copied from l3build
564             -- but I don't understand why the first subs is needed
565             -- is it a problem if the file doesn't end with a newline?
566             content = string.gsub(content .. (string.match(content,"\n$") and "" or "\n"), "\n", "\n")
567             content = string.gsub(content, "\\RequirePackage%{svn%-prov%}\n\ProvidesFileSVN", "\n\ProvidesFileSVN")
568             -- l3build-tagging.lua
569             for i, j in ipairs(fdfiles) do

```



```

613     print("Too many encoding tags specified; no more than one allowed")
614     help()
615     exit(1)
616     else
617         names = names or encodingtag or ""
618     end
619     return 0
620 end
621 }

```

autotestfds (*var*) fd files to use when auto-generating build tests.

```

622 autotestfds = autotestfds or {}

623 bakext = ".bkup"
624 binaryfiles = {"*.pdf", "*.zip", "*.vf", "*.tfm", "*.pfb", "*.pfm", "*.ttf", "*.otf",

```

binmakers (*var*) Scripts to create binary tfm and/or vf from pl and/or vpl.

```

625 binmakers = {"*-pltotf.sh"}

626 checkdeps = {maindir .. "/nfssect-cfr", maindir .. "/fnt-tests"}
627 checkengines = {"pdftex"}
628 checkformat = "latex"
629 -- checksupfiles = {""}
630 cleanfiles = {keptempfiles}
631 ctanreadme = "README.md"
632 demofiles = {"*-example.tex"}

```

familymakers (*var*) Files to compile to generate font definition files, human-readable metrics etc.

```

633 familymakers = {"*-drv.tex"}

634 flattentds = false

```

fnttestfds (*var*) Font definition files to use when auto-generating tests. May be either a table of globs or a table of tables of package names and lists of globs.

```

635 fnttestfds = fnttestfds or {}

636 installfiles = {"*.afm", "*.cls", "*.enc", "*.fd", "*.map", "*.otf", "*.pfb", "*.pfm",
637 -- match default as not yet existent
638 sourcefiledir = sourcefiledir or "."

```

keepdir (*var*) Directories to stash generated font files and intermediate build products. These should **not** be subdirectories of builddir.

```

639 keepdir = keepdir or sourcefiledir .. "/keep"
640 kepttempdir = kepttempdir or sourcefiledir .. "/keptemp"

```

`keepfiles` (*var*) Globs for generated font files and intermediate build products to stash in `keepdir` and `keptempfiles` (*var*) `keptempdir` respectively.

```
641 keepfiles = keepfiles or {"*.enc", "*.fd", "*.map", "*.tfm", "*.vf"}
642 keptempfiles = keptempfiles or {"*.mtx", "*.pl", "*-pltotf.sh", "*-rec.tex", "*.vpl"}

643 manifestfile = "manifest.txt"
```

`mapmakers` (*var*) Files to compile to generate map file fragments.

```
644 mapmakers = {"*-map.tex"}

645 packtdszip = false
646 -- need module test or default?
647 sourcefiles = {"*.afm", "afm/*.afm", "*.pfb", "*.pfm", "*.dtx", "*.ins", "opentype/*.o
648 tagfiles = {"*.dtx", "*.ins", "manifest.txt", "MANIFEST.txt", "README", "README.md"}
```

`vendor` (*var*) Vendor directory when installing.

```
649 -- vendor and module must be specified before tdslocations
650 vendor = vendor or "public"

651 tdslocations = {
652     "fonts/afm/" .. vendor .. "/" .. module .. "/" .. "*.afm",
653     "fonts/enc/dvips/" .. module .. "/" .. "*.enc",
654     "fonts/map/dvips/" .. module .. "/" .. "*.map",
655     "fonts/opentype/" .. vendor .. "/" .. module .. "/" .. "*.otf",
656     "fonts/tfm/" .. vendor .. "/" .. module .. "/" .. "*.tfm",
657     "fonts/truetype/" .. vendor .. "/" .. module .. "/" .. "*.ttf",
658     "fonts/type1/" .. vendor .. "/" .. module .. "/" .. "*.pfb",
659     "fonts/type1/" .. vendor .. "/" .. module .. "/" .. "*.pfm",
660     "fonts/vf/" .. vendor .. "/" .. module .. "/" .. "*.vf",
661     "source/fonts/" .. module .. "/" .. "*.etx",
662     "source/fonts/" .. module .. "/" .. "*.mtx",
663     "source/fonts/" .. module .. "/" .. "*-drv.tex",
664     "source/fonts/" .. module .. "/" .. "*-map.tex",
665     "tex/latex/" .. module .. "/" .. "*.fd",
666     "tex/latex/" .. module .. "/" .. "*.sty"
667 }
668 -- after maindir
669 typesetdeps = {maindir .. "/nfssect-cfr"}
670 -- enable l3build doc/check to find font files
671 -- cannot concatenate variables here as they don't (yet?) exist
672 typesetexe = "TEXMFDOTDIR=.../local: pdflatex"
673 typesetfiles = typesetfiles or {"*.dtx", "*-tables.tex", "*-example.tex"}
674 typesetsourcefiles = {keepdir .. "/*", "nfssect-cfr*.sty"}
675 unpackexe = "pdflatex"
676 unpackfiles = {"*.ins"}
677 -----
```



```

678 if fileexists(maindir .. "/fnt-ctan.lua") then
679     dofile(maindir .. "/fnt-ctan.lua")
680 end
681 -----
682 -- afmtotfm
683 -- only set this true for ultra simple symbol fonts!
684 afmtotfm = afmtotfm or false
685 -----
686 -- fnt_afmtotfm (dir,mode)
687 function fnt_afmtotfm (dir,mode)
688     dir = dir or unpackdir
689     mode = mode or "errorstopmode --halt-on-error"
690     local fntbasename = fntbasename or module
691     local map = mapfile or fntbasename .. ".map"
692     print("Unpacking ... \n")
693     local errorlevel = unpack()
694     print("Running afm2tfm. Please be patient ... \n")
695     local afms = filelist(unpackdir,"*.afm")
696     local content = ""
697     for i,j in ipairs(afms) do
698         local rtn = fileexists(unpackdir .. "/" .. string.gsub(j,"%afm",".enc"))
699         if not rtn then
700             errorlevel = run(dir, "afm2tfm " .. j .. " >> " .. dir .. "/" .. map .. ".tmp")
701         else
702             errorlevel = run(dir, "afm2tfm " .. j .. " -p " .. string.gsub(j,"%afm",".enc"))
703         end
704         if errorlevel ~= 0 then
705             gwall("afm2tfm (" .. j .. ") ",dir,errorlevel)
706         else
707             local g = assert(io.open(dir .. "/" .. map .. ".tmp","rb"))
708             local c = g:read("all")
709             g:close()
710             content = content .. string.gsub(c, "\n", " <" .. string.gsub(j,"%afm",".pfb"))
711             rm(dir, map .. ".tmp")
712         end
713     end
714     local f
715     f = assert(io.open(dir .. "/" .. map, "w"))
716     f:write((string.gsub(content,"\n",os_newline_cp)))
717     f:close()
718     errorlevel = fntkeeper()
719     if errorlevel ~= 0 then
720         gwall("FONT KEEPER FAILED! DO NOT MAKE STANDARD TARGETS WITHOUT RESOLVING!! ", unp
721     end
722     return nifergwall
723 end
724 -----
725 -- fnt_afmtotfm -> fnttarg
726 if afmtotfm then
727     target_list[ntarg] = {

```

```

728     func = fnt_afmtotfm,
729     desc = "Creates TeX font files",
730     pre = function(names)
731         if names then
732             print("fntmake does not need names\n")
733             help()
734             exit(1)
735         end
736         return 0
737     end
738 }
739 end
740 -----
741 -- vim: ts=2:sw=2:et:

```

4.1.2 fnt-ctan.lua

`fnt-ctan.lua` (*lua*) Included by `fontinst.lua` if it exists in `maindir`. Changes the way the `ctan` target builds the archive to match [CTAN](#) requirements for font distributions.

```

742 -----
743 local exts = {}
744 -----
745 -----
746 -- origcopyctan()
747 -- copy David Carlisle
748 origcopyctan = copyctan

```

`extname()` (*fn*) Get extension from filename.

```

749 function extname(filename)
750     local b = basename(filename)
751     ext = string.gsub(b, "[^%.]*%.", "")
752     if ext == nil then
753         gwall("Failed to get extension ",ext,1)
754     end
755     return ext
756 end
757 -----

```

`copysubctan()` (*fn*) Sub-directories for [CTAN](#).

```

758 function copysubctan(files,srcdir,targdir)
759     local errorlevel
760     local extdir
761     if not direxists(targdir) then
762         errorlevel = mkdir(targdir)
763         if errorlevel ~= 0 then return errorlevel end
764     end

```

```

765   for i,j in ipairs(files) do
766     local ext = extname(j)
767     if exts[ext] == nil then
768       extdir = ext
769       exts[ext] = ext
770     else
771       extdir = exts[ext]
772     end
773     if not direxists(targdir .. "/" .. extdir) then
774       errorlevel = mkdir(targdir .. "/" .. extdir)
775       if errorlevel ~= 0 then return errorlevel end
776     end
777     errorlevel = cp(j,srcdir,targdir .. "/" .. extdir)
778     if errorlevel ~= 0 then return errorlevel end
779   end
780   return 0
781 end
782 -----

```

copyctan() (*fn*) Redefine function used by ctan.

```

783 function copyctan()
784   local keepdir = keepdir or sourcefiledir .. "/keep"
785   local errorlevel
786   local targdir = ctandir .. "/" .. ctanpkg
787   keptfiles = {}
788   if #exts == 0 then exts = {"afm","dtx","enc","fd","ins","map","md","otf","pdf","pfb"}
789   if not exts["pfb"] then exts["pfb"] = "type1" end
790   if not exts["pfm"] then exts["pfm"] = "type1" end
791   if not exts["ttf"] then exts["ttf"] = "truetype" end
792   if not exts["otf"] then exts["otf"] = "opentype" end
793   if not exts["fd"] then exts["fd"] = "latex" end
794   if not exts["dtx"] then exts["dtx"] = "source" end
795   if not exts["ins"] then exts["ins"] = "source" end
796   if not exts["md"] then exts["md"] = "doc" end
797   if not exts["txt"] then exts["txt"] = "doc" end
798   if not exts["tex"] then exts["tex"] = "doc" end
799   if not exts["pdf"] then exts["pdf"] = "doc" end
800   for i,j in ipairs(filelist(keepdir,"*.*")) do
801     if j ~= "." and j ~= ".." then
802       table.insert(keptfiles,j)
803     end
804   end
805   copysubctan(keptfiles,keepdir,targdir)
806   origcopyctan()
807   local g = {}
808   for i,j in ipairs(exts) do
809     local f = filelist(targdir,"*." .. j)
810     if #f ~= 0 then
811       for m,n in ipairs(f) do

```

```

812         if n ~= "README.md" and n ~= "README" then
813             table.insert(g,n)
814         end
815     end
816 end
817 end
818 if #g ~= 0 then
819     errorlevel = copysubctan(g,targdir,targdir)
820     if errorlevel ~= 0 then return errorlevel end
821 end
822 for i,j in ipairs(exts) do
823     errorlevel = rm(targdir, "*" .. j)
824     if errorlevel ~= 0 then return errorlevel end
825 end
826 if fileexists(targdir .. "/COPYING") then
827     if not direxists(targdir .. "/doc") then mkdir(targdir .. "/doc") end
828     errorlevel = cp("COPYING",targdir,targdir .. "/doc")
829     if errorlevel ~= 0 then return errorlevel end
830     errorlevel = rm(targdir, "COPYING")
831     if errorlevel ~= 0 then return errorlevel end
832 end
833 -- this is horrible: ctan() copies all the files, we deal with them, and then it cop
834 textfiles = {"README","README.md"}
835 return 0
836 end

```

4.1.3 tag.lua

This is just a copy of the function from `l3build-tagging.lua`. It is here because `fontinst.lua` calls a file containing a custom `tag.lua` file locally⁵. For an example of how to do this, see the `build-config.lua` file for $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X} 2_{\epsilon}$.

`tag.lua` (*lua*)

```

14 function update_tag(filename,content,tagname,tagdate)
15     return content
16 end

```

4.2 Metrics

These files influence the characters which end up in the $\text{T}_{\text{E}}\text{X}$ fonts. For example, they may construct otherwise missing glyphs or adjust kerning pairs.

4.2.1 dotsbuild.mtx

`dotsbuild.mtx` (*mtx*)

⁵This file is on [GITHUB](#) for the morbidly curious, along with at least three attempts to create a `manifest.txt`.

```

17 \relax
18
19 \metrics
20
21 \needsfontinstversion{1.917}
22
23 \usemtxpackage{ltcmds}
24 \ProvidesMtxPackage{dotscbuild}
25
26 \begincomment
27 \section{Proper latin small capitals}
28
29 \subsection{Some utility commands}
30 \endcomment
31
32 \setcommand\setcsctopglyph#1#2#3#4{
33   \ifareglyphs{#2.sc,#3}\then
34     \setglyph{#1}
35     \topaccent{#2.sc}{#3}{#4}
36   \endsetglyph
37   \setleftrighthkerning{#1}{#2.sc}{1000}
38   \Fi
39 }
40 \setcommand\setcscbotglyph#1#2#3#4{
41   \ifareglyphs{#2.sc,#3}\then
42     \setglyph{#1}
43     \botaccent{#2.sc}{#3}{#4}
44   \endsetglyph
45   \setleftrighthkerning{#1}{#2.sc}{1000}
46   \Fi
47 }
48 \begincomment\medskip
49 A \textbf{Try: Set glyph} is an ordinary \textbf{Set glyph} which is
50 conditional on that a set of glyphs (those used to construct the
51 composite glyph) are available. It is technically e.g.
52 \begin{quotation}
53   \setcsctopglyph{\macroparameter{1}}{\macroparameter{2}}%
54   {\macroparameter{3}}{\macroparameter{4}}
55   \setcscbotglyph{\macroparameter{1}}{\macroparameter{2}}%
56   {\macroparameter{3}}{\macroparameter{4}}\par
57 \end{quotation}
58 (both of which are implemented in the code as simple four argument
59 commands), but in the list of commands below those two commands will
60 be typeset as
61 \resetcommand\setcsctopglyph#1#2#3#4{%
62   \Aheading{Try: Set glyph '\TypesetStringExpression{#1}'}
63   \topaccent{#2.sc}{#3}{#4}
64   \setleftrighthkerning{#1}{#2.sc}{1000}
65 }
66 \resetcommand\setcscbotglyph#1#2#3#4{%
67   \Aheading{Try: Set glyph '\TypesetStringExpression{#1}'}
68   \botaccent{#2.sc}{#3}{#4}
69   \setleftrighthkerning{#1}{#2.sc}{1000}
70 }

```

```

71 \begin{quotation}
72   \setcsctopglyph{\macroparameter{1}}{\macroparameter{2}}%
73     {\macroparameter{3}}{\macroparameter{4}}
74   \setcsbotglyph{\macroparameter{1}}{\macroparameter{2}}%
75     {\macroparameter{3}}{\macroparameter{4}}
76 \end{quotation}
77 \endcomment
78
79 \ifareglyphs{L,1.sc}\then
80   \setint{smallcapsscale}{
81     \div{\mul{1000}{\height{1.sc}}}{\height{L}}
82   }
83 \Else
84   \setint{smallcapsscale}{800}
85 \Fi
86
87
88 \setcsctopglyph{aacute.sc}{a}{acute}{500}
89 \setcsctopglyph{abreve.sc}{a}{breve}{500}
90 \setcsctopglyph{acircumflex.sc}{a}{circumflex}{500}
91 \setcsctopglyph{adieresis.sc}{a}{dieresis}{500}
92 \setcsctopglyph{agrave.sc}{a}{grave}{500}
93 \setcsbotglyph{aogonek.sc}{a}{ogonek}{900}
94 \setcsctopglyph{aring.sc}{a}{ring}{500}
95 \setcsctopglyph{atilde.sc}{a}{tilde}{500}
96
97 \setcsctopglyph{cacute.sc}{c}{acute}{500}
98 \setcsctopglyph{ccaron.sc}{c}{caron}{500}
99 \setcsctopglyph{ccedilla.sc}{c}{cedilla}{500}
100
101 \setcsctopglyph{dcaron.sc}{d}{caron}{500}
102
103 \setcsctopglyph{eacute.sc}{e}{acute}{500}
104 \setcsctopglyph{ecaron.sc}{e}{caron}{500}
105 \setcsctopglyph{ecircumflex.sc}{e}{circumflex}{500}
106 \setcsctopglyph{edieresis.sc}{e}{dieresis}{500}
107 \setcsctopglyph{egrave.sc}{e}{grave}{500}
108 \setcsbotglyph{eogonek.sc}{e}{ogonek}{850}
109
110 \setcsctopglyph{gbreve.sc}{g}{breve}{500}
111
112 \setcsctopglyph{iacute.sc}{i}{acute}{500}
113 \setcsctopglyph{icircumflex.sc}{i}{circumflex}{500}
114 \setcsctopglyph{idieresis.sc}{i}{dieresis}{500}
115 \setcsctopglyph{idotaccent.sc}{i}{dotaccent}{500}
116 \setcsctopglyph{igrave.sc}{i}{grave}{500}
117
118 \setcsctopglyph{lacute.sc}{l}{acute}{250}
119
120 \ifareglyphs{1.sc,quoteright}\then
121   \setglyph{lcaron.sc}
122     \glyph{1.sc}{1000}
123     \ifisint{monowidth}\then\Else \mover{-100} \Fi
124     \glyph{quoteright}{\int{smallcapsscale}}

```

```

125   \endsetglyph
126   \setleftkerning{lcaron.sc}{l.sc}{1000}
127 \Fi
128
129 \setcsctopglyph{nacute.sc}{n}{acute}{500}
130 \setcsctopglyph{nacaron.sc}{n}{caron}{500}
131 \setcsctopglyph{ntilde.sc}{n}{tilde}{500}
132
133 \setcsctopglyph{oacute.sc}{o}{acute}{500}
134 \setcsctopglyph{ocircumflex.sc}{o}{circumflex}{500}
135 \setcsctopglyph{odieresis.sc}{o}{dieresis}{500}
136 \setcsctopglyph{ograve.sc}{o}{grave}{500}
137 \setcsctopglyph{ohungarumlaut.sc}{o}{hungarumlaut}{500}
138 \setcsctopglyph{otilde.sc}{o}{tilde}{500}
139
140 \setcsctopglyph{racute.sc}{r}{acute}{500}
141 \setcsctopglyph{rcaron.sc}{r}{caron}{500}
142
143 \setcsctopglyph{sacute.sc}{s}{acute}{500}
144 \setcsctopglyph{scaron.sc}{s}{caron}{500}
145 \setcsctopglyph{scedilla.sc}{s}{cedilla}{500}
146
147 \setcsctopglyph{tcaron.sc}{t}{caron}{500}
148 \setcsctopglyph{tcedilla.sc}{t}{cedilla}{500}
149
150 \setcsctopglyph{uacute.sc}{u}{acute}{500}
151 \setcsctopglyph{ucircumflex.sc}{u}{circumflex}{500}
152 \setcsctopglyph{udieresis.sc}{u}{dieresis}{500}
153 \setcsctopglyph{ugrave.sc}{u}{grave}{500}
154 \setcsctopglyph{uhungarumlaut.sc}{u}{hungarumlaut}{500}
155 \setcsctopglyph{uring.sc}{u}{ring}{500}
156
157 \setcsctopglyph{yacute.sc}{y}{acute}{500}
158 \setcsctopglyph{ydieresis.sc}{y}{dieresis}{500}
159
160 \setcsctopglyph{zacute.sc}{z}{acute}{500}
161 \setcsctopglyph{zcaron.sc}{z}{caron}{500}
162 \setcsctopglyph{zdotaccent.sc}{z}{dotaccent}{500}
163
164
165 \begincomment
166 \subsection{Other glyphs that can be built}
167 \endcomment
168
169 \ifisglyph{dcroat.sc}\then
170   \setglyph{dbar.sc}
171   \glyph{dcroat.sc}{1000}
172   \endsetglyph
173   \setleftkerning{dbar.sc}{dcroat.sc}{1000}
174 \Else\ifisglyph{eth.sc}\then
175   \setglyph{dbar.sc}
176   \glyph{eth.sc}{1000}
177   \endsetglyph
178   \setleftkerning{dbar.sc}{eth.sc}{1000}

```

```

179 \Fi\Fi
180
181
182 \endmetrics

```

4.2.2 newlatin-dotsc.mtx

newlatin-dotsc.mtx (*mtx*) based on newlatin.mtx - because I couldn't figure out how to pass options...

```

183 \relax
184
185 \documentclass[twocolumn]{article}
186
187 \metrics
188
189 \needsfontinstversion{1.924}
190
191 \usemtxpackage{llbuild}
192
193 \usemtxpackage{lubuild}
194
195 \ifoption{nosc}\then \Else
196
197 \usemtxpackage{dotscbuild}
198 % \usemtxpackage{lfake}
199 \usemtxpackage{dotscmisc}
200
201 \Fi
202
203 \usemtxpackage{ltpunct}
204
205
206 \usemtxpackage{lcmds}
207
208 \unfakable{Gamma}
209 \unfakable{Delta}
210 \unfakable{Theta}
211 \unfakable{Lambda}
212 \unfakable{Xi}
213 \unfakable{Pi}
214 \unfakable{Sigma}
215 \unfakable{Upsilon}
216 \unfakable{Upsilon1}
217 \unfakable{Phi}
218 \unfakable{Psi}
219 \unfakable{Omega}
220
221 \foreach (accent) {grave,acute,circumflex,tilde,dieresis,hungarumlaut,%
222   ring,caron,breve,macron,dotaccent}
223   \ifisglyph{\str{accent}}\then
224     \resetglyph{\str{accent}}
225     \glyph{\str{accent}}{1000}
226     \resetdepth{0}

```



```

227     \endresetglyph
228     \Fi
229 \endfor(accent)
230
231
232 \setglyph{ringfitted}
233     \moveright{\half\sub{\width{A}}{\width{ring}}}{\width{ring}}
234     \glyph{ring}{1000}
235     \moveright{\otherhalf\sub{\width{A}}{\width{ring}}}{\width{ring}}
236 \endsetglyph
237
238
239
240 \setleftkerning{less}{guillemotleft}{1000}
241 \setleftkerning{greater}{guillemotright}{1000}
242
243
244 \endmetrics
245

```

4.2.3 dotscmisc.mtx

dotscmisc.mtx (*mtx*)

```

246 \relax
247
248 \metrics
249
250 \needsfontinstversion{1.917}
251
252 \ProvidesMtxPackage{dotscmisc}
253
254 \ifisglyph{i.sc}\then
255     \setglyph{dotlessi.sc}
256     \glyph{i.sc}{1000}
257     \setleftrighthkerning{dotlessi.sc}{i.sc}{1000}
258 \endsetglyph
259 \Fi
260
261 \ifisglyph{j.sc}\then
262     \setglyph{dotlessj.sc}
263     \glyph{j.sc}{1000}
264     \setleftrighthkerning{dotlessj.sc}{j.sc}{1000}
265 \endsetglyph
266 \Fi
267
268
269 \setint{smallcapsspacing}{0}
270
271 \ifisglyph{f.sc}\then
272
273 \setglyph{ff.sc}
274     \glyph{f.sc}{1000}

```

```
275     \moveright{\add{\kerning{f.sc}{f.sc}}{\int{smallcapsspacing}}}  
276     \glyph{f.sc}{1000}  
277 \endsetglyph  
278 \setrightkerning{ff.sc}{f.sc}{1000}  
279 \setglyph{f_f.sc}  
280     \glyph{ff.sc}{1000}  
281 \endsetglyph  
282 \setrightkerning{f_f.sc}{ff.sc}{1000}  
283  
284 \ifisglyph{i.sc}\then  
285     \setglyph{fi.sc}  
286         \glyph{f.sc}{1000}  
287         \moveright{\add{\kerning{f.sc}{i.sc}}{\int{smallcapsspacing}}}  
288         \glyph{i.sc}{1000}  
289     \endsetglyph  
290  
291 %     \setleftkerning{fi.sc}{f.sc}{1000}  
292     \setrightkerning{fi.sc}{i.sc}{1000}  
293  
294     \setglyph{f_i.sc}  
295     \glyph{fi.sc}{1000}  
296     \endsetglyph  
297     \setrightkerning{f_i.sc}{fi.sc}{1000}  
298  
299     \setglyph{ffi.sc}  
300         \glyph{ff.sc}{1000}  
301         \moveright{\add{\kerning{f.sc}{i.sc}}{\int{smallcapsspacing}}}  
302         \glyph{i.sc}{1000}  
303     \endsetglyph  
304  
305     \setglyph{f_f_i.sc}  
306     \glyph{ffi.sc}{1000}  
307     \endsetglyph  
308     \setrightkerning{f_f_i.sc}{ffi.sc}{1000}  
309  
310 %     \setleftkerning{ffi.sc}{f.sc}{1000}  
311     \setrightkerning{ffi.sc}{i.sc}{1000}  
312 \fi  
313  
314 \ifisglyph{l.sc}\then  
315     \setglyph{fl.sc}  
316         \glyph{f.sc}{1000}  
317         \moveright{\add{\kerning{f.sc}{l.sc}}{\int{smallcapsspacing}}}  
318         \glyph{l.sc}{1000}  
319     \endsetglyph  
320  
321 %     \setleftkerning{fl.sc}{f.sc}{1000}  
322     \setrightkerning{fl.sc}{l.sc}{1000}  
323  
324     \setglyph{f_l.sc}  
325     \glyph{fl.sc}{1000}  
326     \endsetglyph  
327     \setrightkerning{f_l.sc}{fl.sc}{1000}  
328
```

```

329 \setglyph{ffl.sc}
330 \glyph{ff.sc}{1000}
331 \movert{\add{\kerning{f.sc}{l.sc}}{\int{smallcapsspacing}}}
332 \glyph{l.sc}{1000}
333 \endsetglyph
334
335 % \setleftkerning{ffl.sc}{f.sc}{1000}
336 \setrightkerning{ffl.sc}{l.sc}{1000}
337
338 \setglyph{f_f_l.sc}
339 \glyph{ffl.sc}{1000}
340 \endsetglyph
341 \setrightkerning{f_f_l.sc}{ffl.sc}{1000}
342
343 \fi
344 \fi % ifisglyph{f.sc}
345
346
347 \ifareglyphs{i.sc,j.sc}\then
348 \setglyph{ij.sc}
349 \glyph{i.sc}{1000}
350 \movert{\add{\kerning{i.sc}{j.sc}}{\int{smallcapsspacing}}}
351 \glyph{j.sc}{1000}
352 \endsetglyph
353 % \setleftkerning{ij.sc}{i.sc}{1000}
354 \setrightkerning{ij.sc}{j.sc}{1000}
355 \fi
356
357 \ifisglyph{ss.sc}\then
358 \setglyph{germandbls.sc}
359 \glyph{ss.sc}{1000}
360 \endsetglyph
361 \setleftrighthkerning{germandbls.sc}{ss.sc}{1000}
362 \Else
363 \ifisglyph{s.sc}\then
364 \setglyph{germandbls.sc}
365 \glyph{s.sc}{1000}
366 \movert{\add{\kerning{s.sc}{s.sc}}{\int{smallcapsspacing}}}
367 \glyph{s.sc}{1000}
368 \endsetglyph
369 \setleftrighthkerning{germandbls.sc}{s.sc}{1000}
370 \Fi
371 \Fi
372
373 \endmetrics

```

4.3 Encodings

None of these files are actually used in typesetting. Rather, they are converted to `.enc` files, renamed and automatically edited to ensure unique encoding names. These names are then substituted into `.map` files.

4.3.1 dotoldstyle.etx

dotoldstyle.etx (*etx*)

```
374 \relax
375 \encoding
376 \setcommand\digit#1{#1.oldstyle}
377 \endencoding
```

4.3.2 dotsc2.etx

dotsc2.etx (*etx*)

```
378 \relax
379
380 \encoding
381
382 \setcommand\lc#1#2{#2.sc}
383 \setcommand\uc#1#2{#1}
384 \setcommand\lctop#1#2{#2.sc}
385 \setcommand\uctop#1#2{#1}
386 \setcommand\lclig#1#2{#2.sc}
387 \setcommand\uclig#1#2{#1spaced}
388
389
390 \ifisint{capspacing}\then
391   \setint{letterspacing}{\int{capspacing}}
392 \fi
393
394 \endencoding
```

4.3.3 dottaboldstyle.etx

dottaboldstyle.etx (*etx*)

```
395 \relax
396 \encoding
397 \setcommand\digit#1{#1.taboldstyle}
398 \endencoding
```

4.3.4 lining.etx

lining.etx (*etx*)

```
399 \relax
400 \encoding
401 \setcommand\digit#1{#1lining}
402 \endencoding
```

4.3.5 oldstyle.etx

oldstyle.etx (*etx*)

```

403 \relax
404 \encoding
405 \setcommand\digit#1{#1oldstyle}
406 \endencoding

```

4.3.6 t1-cfr.etx

t1-cfr.etx (*etx*)

```

407 %%
408 %% - The commentary in the original is deleted in this version. For
409 %% information about the T1 etc., typeset the original t1.etx
410 %% included with fontinst.
411 %% - Slots are altered to accommodate characters which are named
412 %% differently. For example, this encoding uses "endash" and "emdash"
413 %% whereas t1.etx called for "rangedash" and "punctdash".
414 %% - The original notices at the top of that file concerning authors,
415 %% maintenance etc. are replaced by this notice.
416 %% - The file is renamed.
417 %% - The encoding name is modified.
418 %%
419 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
420 \relax
421 \encoding
422
423 \needsfontinstversion{1.910}
424
425 \setcommand\lc#1#2{#2}
426 \setcommand\uc#1#2{#1}
427 \setcommand\lctop#1#2{#2}
428 \setcommand\uctop#1#2{#1}
429 \setcommand\lclig#1#2{#2}
430 \ifisint{letterspacing}\then
431   \ifnumber{\int{letterspacing}}={0}\then \Else
432     \setcommand\uclig#1#2{#1spaced}
433     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
434     you can't see it as \verb|\setcommand| commands are invisible in
435     the typeset output.}
436   \Fi
437 \Fi
438 \setcommand\uclig#1#2{#1}
439 \setcommand\digit#1{#1}
440
441 \ifisint{monowidth}\then
442   \setint{ligaturing}{0}
443 \Else
444   % The following empty line is important to get the formatting
445   % right here (sigh)! (Remember that it is a \par token.)
446
447   \ifisint{letterspacing}\then

```

```
448     \ifnumber{\int{letterspacing}}={0}\then \Else
449         \setint{ligaturing}{0}
450     \Fi
451     \Fi
452     \setint{ligaturing}{1}
453 \Fi
454
455 \setint{italicslant}{0}
456 \setint{quad}{1000}
457 \setint{baselineskip}{1200}
458
459 \ifisglyph{x}\then
460     \setint{xheight}{\height{x}}
461 \Else
462     \setint{xheight}{500}
463 \Fi
464
465 \ifisglyph{space}\then
466     \setint{interword}{\width{space}}
467 \Else\ifisglyph{i}\then
468     \setint{interword}{\width{i}}
469 \Else
470     \setint{interword}{333}
471 \Fi\Fi
472
473 \ifisint{monowidth}\then
474     \setint{stretchword}{0}
475     \setint{shrinkword}{0}
476     \setint{extraspace}{\int{interword}}
477 \Else
478     \setint{stretchword}{\scale{\int{interword}}{600}}
479     \setint{shrinkword}{\scale{\int{interword}}{240}}
480     \setint{extraspace}{\scale{\int{interword}}{240}}
481 \Fi
482
483 \ifisglyph{X}\then
484     \setint{capheight}{\height{X}}
485 \Else
486     \setint{capheight}{750}
487 \Fi
488
489 \ifisglyph{d}\then
490     \setint{ascender}{\height{d}}
491 \Else\ifisint{capheight}\then
492     \setint{ascender}{\int{capheight}}
493 \Else
494     \setint{ascender}{750}
495 \Fi\Fi
496
497 \ifisglyph{Aring}\then
498     \setint{accapheight}{\height{Aring}}
499 \Else
500     \setint{accapheight}{999}
501 \Fi
```

```

502
503 \ifisint{descender_neg}\then
504   \setint{descender}{\neg{\int{descender_neg}}}
505 \Else\ifisglyph{p}\then
506   \setint{descender}{\depth{p}}
507 \Else
508   \setint{descender}{250}
509 \Fi\Fi
510
511 \ifisglyph{Aring}\then
512   \setint{maxheight}{\height{Aring}}
513 \Else
514   \setint{maxheight}{1000}
515 \Fi
516
517 \ifisint{maxdepth_neg}\then
518   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
519 \Else\ifisglyph{j}\then
520   \setint{maxdepth}{\depth{j}}
521 \Else
522   \setint{maxdepth}{250}
523 \Fi\Fi
524
525 \ifisglyph{six}\then
526   \setint{digitwidth}{\width{six}}
527 \Else
528   \setint{digitwidth}{500}
529 \Fi
530
531 \setint{capstem}{0} % not in AFM files
532
533 \setfontdimen{1}{italicslant}      % italic slant
534 \setfontdimen{2}{interword}       % interword space
535 \setfontdimen{3}{stretchword}     % interword stretch
536 \setfontdimen{4}{shrinkword}     % interword shrink
537 \setfontdimen{5}{xheight}        % x-height
538 \setfontdimen{6}{quad}           % quad
539 \setfontdimen{7}{extraspace}     % extra space after .
540 \setfontdimen{8}{capheight}      % cap height
541 \setfontdimen{9}{ascender}       % ascender
542 \setfontdimen{10}{accapheight}    % accented cap height
543 \setfontdimen{11}{descender}     % descender's depth
544 \setfontdimen{12}{maxheight}     % max height
545 \setfontdimen{13}{maxdepth}     % max depth
546 \setfontdimen{14}{digitwidth}    % digit width
547 \setfontdimen{15}{verticalstem}  % dominant width of verical stems
548 \setfontdimen{16}{baselineskip}  % baselineskip
549
550 \ifnumber{\int{ligaturing}}<{0}\then
551   \comment{In this case, the codingscheme can be different from the
552     default, and therefore we refrain from setting it.}
553 \Else
554   \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - LATIN CFR}
555 \Fi

```

```
556 \setslot{\lc{Grave}{grave}}
557   \comment{The grave accent '\{'}
558 \endsetslot
559
560
561 \setslot{\lc{Acute}{acute}}
562   \comment{The acute accent '\{'}
563 \endsetslot
564
565 \setslot{\lc{Circumflex}{circumflex}}
566   \comment{The circumflex accent '\^{'}
567 \endsetslot
568
569 \setslot{\lc{Tilde}{tilde}}
570   \comment{The tilde accent '\~{'}
571 \endsetslot
572
573 \setslot{\lc{Dieresis}{dieresis}}
574   \comment{The umlaut or dieresis accent '\ \"{'}
575 \endsetslot
576
577 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
578   \comment{The long Hungarian umlaut '\H{'}
579 \endsetslot
580
581 \setslot{\lc{Ring}{ring}}
582   \comment{The ring accent '\r{'}
583 \endsetslot
584
585 \setslot{\lc{Caron}{caron}}
586   \comment{The caron or h'a\v cek accent '\v{'}
587 \endsetslot
588
589 \setslot{\lc{Breve}{breve}}
590   \comment{The breve accent '\u{'}
591 \endsetslot
592
593 \setslot{\lc{Macron}{macron}}
594   \comment{The macron accent '\={'}
595 \endsetslot
596
597 \setslot{\lc{Dotaccent}{dotaccent}}
598   \comment{The dot accent '\.{'}}
599 \endsetslot
600
601 \setslot{\lc{Cedilla}{cedilla}}
602   \comment{The cedilla accent '\c {'}}
603 \endsetslot
604
605 \setslot{\lc{Ogonek}{ogonek}}
606   \comment{The ogonek accent '\k {'}}
607 \endsetslot
608
609 \setslot{quotesinglbase}
```



```

610 \comment{A German single quote mark ‘\quotesinglbase’ similar to a comma,
611       but with different sidebearings.}
612 \endsetslot
613
614 \setslot{guilsinglleft}
615 \comment{A French single opening quote mark ‘\guilsinglleft’,
616       unavailable in \plain\ \TeX.}
617 \endsetslot
618
619 \setslot{guilsinglright}
620 \comment{A French single closing quote mark ‘\guilsinglright’,
621       unavailable in \plain\ \TeX.}
622 \endsetslot
623
624 \setslot{quotedblleft}
625 \comment{The English opening quote mark ‘\, \textquotedblleft\,.’}
626 \endsetslot
627
628 \setslot{quotedblright}
629 \comment{The English closing quote mark ‘\, \textquotedblright\,.’}
630 \endsetslot
631
632 \setslot{quotedblbase}
633 \comment{A German double quote mark ‘\quotedblbase’ similar to two commas,
634       but with tighter letterspacing and different sidebearings.}
635 \endsetslot
636
637 \setslot{guillemotleft}
638 \comment{A French double opening quote mark ‘\guillemotleft’,
639       unavailable in \plain\ \TeX.}
640 \endsetslot
641
642 \setslot{guillemotright}
643 \comment{A French closing opening quote mark ‘\guillemotright’,
644       unavailable in \plain\ \TeX.}
645 \endsetslot
646
647 \setslot{endash}
648 \ligature{LIG}{hyphen}{emdash}
649 \comment{The number range dash ‘1--9’. This is called ‘rangedash’ by
650       fontinst’s t1.etx, but it needs to be called ‘endash’ to work right. The
651       ‘\textendash’. In a monowidth font, this might be set as
652       ‘\texttt{1{-}9}’.}
653 \endsetslot
654
655 \setslot{emdash}
656 \comment{The punctuation dash ‘Oh---boy.’ This is calle ‘punctdash’ by
657       fontinst’s t1.etx, but needs to be called ‘emdash’ to work right. The
658       ‘\textendash’. In a monowidth font, this might be set as
659       ‘\texttt{Oh{-}{-}boy.’}
660 \endsetslot
661
662 \setslot{compwordmark}
663 \comment{An invisible glyph, with zero width and depth, but the

```

```
664     height of lowercase letters without ascenders.
665     It is used to stop ligaturing in words like ‘shelf{}ful’.)
666 \endsetslot
667
668 \setslot{perthousandzero}
669   \comment{A glyph which is placed after ‘\%’ to produce a
670     ‘per-thousand’, or twice to produce ‘per-ten-thousand’.
671     Your guess is as good as mine as to what this glyph should look
672     like in a monowidth font.}
673 \endsetslot
674
675 \setslot{\lc{dotlessI}{dotlessi}}
676   \comment{A dotless i ‘\i’, used to produce accented letters such as
677     ‘\=\i’.)}
678 \endsetslot
679
680 \setslot{\lc{dotlessJ}{dotlessj}}
681   \comment{A dotless j ‘\j’, used to produce accented letters such as
682     ‘\=\j’. Most non-TeX fonts do not have this glyph.}
683 \endsetslot
684
685 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
686
687 \setslot{\lclig{FF}{ff}}
688   \ifnumber{\int{ligaturing}}>{0}\then
689     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
690     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}
691   \Fi
692   \comment{The ‘ff’ ligature. It should be two characters wide in a
693     monowidth font.}
694 \endsetslot
695
696 \setslot{\lclig{FI}{fi}}
697   \comment{The ‘fi’ ligature. It should be two characters wide in a
698     monowidth font.}
699 \endsetslot
700
701 \setslot{\lclig{FL}{fl}}
702   \comment{The ‘fl’ ligature. It should be two characters wide in a
703     monowidth font.}
704 \endsetslot
705
706 \setslot{\lclig{FFI}{ffi}}
707   \comment{The ‘ffi’ ligature. It should be three characters wide in a
708     monowidth font.}
709 \endsetslot
710
711 \setslot{\lclig{FFL}{ffl}}
712   \comment{The ‘ffl’ ligature. It should be three characters wide in a
713     monowidth font.}
714 \endsetslot
715
716 \Fi
717
```

```
718 \setslot{visiblespace}
719   \comment{A visible space glyph '\textvisiblespace'.}
720 \endsetslot
721
722 \setslot{exclam}
723   \ligature{LIG}{quoteleft}{exclamdown}
724   \comment{The exclamation mark '!'.}
725 \endsetslot
726
727 \setslot{quotedbl}
728   \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
729     included for use in monowidth fonts, or for setting computer
730     programs. Note that the inclusion of this glyph in this slot
731     means that \TeX\ documents which used '{\tt\char\"}' as an
732     input character will no longer work.}
733 \endsetslot
734
735 \setslot{numbersign}
736   \comment{The hash sign '\#'.}
737 \endsetslot
738
739 \setslot{dollar}
740   \comment{The dollar sign '\$'.}
741 \endsetslot
742
743 \setslot{percent}
744   \comment{The percent sign '\%'.}
745 \endsetslot
746
747 \setslot{ampersand}
748   \comment{The ampersand sign '\&'.}
749 \endsetslot
750
751 \setslot{quoteright}
752   \ligature{LIG}{quoteright}{quotedblright}
753   \comment{The English closing single quote mark '\,\textquoteright\,'.}
754 \endsetslot
755
756 \setslot{parenleft}
757   \comment{The opening parenthesis '(''.}
758 \endsetslot
759
760 \setslot{parenright}
761   \comment{The closing parenthesis ')''.}
762 \endsetslot
763
764 \setslot{asterisk}
765   \comment{The raised asterisk '*'.}
766 \endsetslot
767
768 \setslot{plus}
769   \comment{The addition sign '+'.}
770 \endsetslot
771
```

```
772 \setslot{comma}
773   \ligature{LIG}{comma}{quotedblbase}
774   \comment{The comma ‘,’.}
775 \endsetslot
776
777 \setslot{hyphen}
778   \ligature{LIG}{hyphen}{endash}
779   \ligature{LIG}{hyphenchar}{hyphenchar}
780   \comment{The hyphen ‘-’..}
781 \endsetslot
782
783 \setslot{period}
784   \comment{The period ‘.’..}
785 \endsetslot
786
787 \setslot{slash}
788   \comment{The forward oblique ‘/’..}
789 \endsetslot
790
791 \setslot{\digit{zero}}
792   \comment{The number ‘0’. This (and all the other numerals) may be
793     old style or ranging digits..}
794 \endsetslot
795
796 \setslot{\digit{one}}
797   \comment{The number ‘1’..}
798 \endsetslot
799
800 \setslot{\digit{two}}
801   \comment{The number ‘2’..}
802 \endsetslot
803
804 \setslot{\digit{three}}
805   \comment{The number ‘3’..}
806 \endsetslot
807
808 \setslot{\digit{four}}
809   \comment{The number ‘4’..}
810 \endsetslot
811
812 \setslot{\digit{five}}
813   \comment{The number ‘5’..}
814 \endsetslot
815
816 \setslot{\digit{six}}
817   \comment{The number ‘6’..}
818 \endsetslot
819
820 \setslot{\digit{seven}}
821   \comment{The number ‘7’..}
822 \endsetslot
823
824 \setslot{\digit{eight}}
825   \comment{The number ‘8’..}
```

```
826 \endsetslot
827
828 \setslot{\digit{nine}}
829   \comment{The number '9'.}
830 \endsetslot
831
832 \setslot{colon}
833   \comment{The colon punctuation mark ':'..}
834 \endsetslot
835
836 \setslot{semicolon}
837   \comment{The semi-colon punctuation mark ';'..}
838 \endsetslot
839
840 \setslot{less}
841   \ligature{LIG}{less}{guillemotleft}
842   \comment{The less-than sign '\textless'..}
843 \endsetslot
844
845 \setslot{equal}
846   \comment{The equals sign '='..}
847 \endsetslot
848
849 \setslot{greater}
850   \ligature{LIG}{greater}{guillemotright}
851   \comment{The greater-than sign '\textgreater'..}
852 \endsetslot
853
854 \setslot{question}
855   \ligature{LIG}{quoteleft}{questiondown}
856   \comment{The question mark '?'..}
857 \endsetslot
858
859 \setslot{at}
860   \comment{The at sign '@'..}
861 \endsetslot
862
863 \setslot{\uc{A}{a}}
864   \comment{The letter '{A}'..}
865 \endsetslot
866
867 \setslot{\uc{B}{b}}
868   \comment{The letter '{B}'..}
869 \endsetslot
870
871 \setslot{\uc{C}{c}}
872   \comment{The letter '{C}'..}
873 \endsetslot
874
875 \setslot{\uc{D}{d}}
876   \comment{The letter '{D}'..}
877 \endsetslot
878
879 \setslot{\uc{E}{e}}
```

```
880   \comment{The letter '{E}'.}
881 \endsetslot
882
883 \setslot{\uc{F}{f}}
884   \comment{The letter '{F}'.}
885 \endsetslot
886
887 \setslot{\uc{G}{g}}
888   \comment{The letter '{G}'.}
889 \endsetslot
890
891 \setslot{\uc{H}{h}}
892   \comment{The letter '{H}'.}
893 \endsetslot
894
895 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
896
897 \setslot{\uc{I}{i}}
898   \comment{The letter '{I}'.}
899 \endsetslot
900
901 \Fi
902
903 \setslot{\uc{J}{j}}
904   \comment{The letter '{J}'.}
905 \endsetslot
906
907 \setslot{\uc{K}{k}}
908   \comment{The letter '{K}'.}
909 \endsetslot
910
911 \setslot{\uc{L}{l}}
912   \comment{The letter '{L}'.}
913 \endsetslot
914
915 \setslot{\uc{M}{m}}
916   \comment{The letter '{M}'.}
917 \endsetslot
918
919 \setslot{\uc{N}{n}}
920   \comment{The letter '{N}'.}
921 \endsetslot
922
923 \setslot{\uc{O}{o}}
924   \comment{The letter '{O}'.}
925 \endsetslot
926
927 \setslot{\uc{P}{p}}
928   \comment{The letter '{P}'.}
929 \endsetslot
930
931 \setslot{\uc{Q}{q}}
932   \comment{The letter '{Q}'.}
933 \endsetslot
```

```
934
935 \setslot{\uc{R}{r}}
936   \comment{The letter '{R}'.}
937 \endsetslot
938
939 \setslot{\uc{S}{s}}
940   \comment{The letter '{S}'.}
941 \endsetslot
942
943 \setslot{\uc{T}{t}}
944   \comment{The letter '{T}'.}
945 \endsetslot
946
947 \setslot{\uc{U}{u}}
948   \comment{The letter '{U}'.}
949 \endsetslot
950
951 \setslot{\uc{V}{v}}
952   \comment{The letter '{V}'.}
953 \endsetslot
954
955 \setslot{\uc{W}{w}}
956   \comment{The letter '{W}'.}
957 \endsetslot
958
959 \setslot{\uc{X}{x}}
960   \comment{The letter '{X}'.}
961 \endsetslot
962
963 \setslot{\uc{Y}{y}}
964   \comment{The letter '{Y}'.}
965 \endsetslot
966
967 \setslot{\uc{Z}{z}}
968   \comment{The letter '{Z}'.}
969 \endsetslot
970
971 \setslot{bracketleft}
972   \comment{The opening square bracket '['.}
973 \endsetslot
974
975 \setslot{backslash}
976   \comment{The backwards oblique '\textbackslash'.}
977 \endsetslot
978
979 \setslot{bracketright}
980   \comment{The closing square bracket ']'.}
981 \endsetslot
982
983 \setslot{asciicircum}
984   \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
985     This is included for compatibility with typewriter fonts used
986     for computer listings.}
987 \endsetslot
```

```

988
989 \setslot{underscore}
990   \comment{The ASCII underline character ‘\textunderscore’, usually
991         set on the baseline.
992         This is included for compatibility with typewriter fonts used
993         for computer listings.}
994 \endsetslot
995
996 \setslot{quoteleft}
997   \ligature{LIG}{quoteleft}{quotedblleft}
998   \comment{The English opening single quote mark ‘\,\textquoteleft\,’.}
999 \endsetslot
1000
1001 \setslot{\lc{A}{a}}
1002   \comment{The letter ‘{a}’.}
1003 \endsetslot
1004
1005 \setslot{\lc{B}{b}}
1006   \comment{The letter ‘{b}’.}
1007 \endsetslot
1008
1009 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1010
1011   \setslot{\lc{C}{c}}
1012     \comment{The letter ‘{c}’.}
1013   \endsetslot
1014
1015 \Fi
1016
1017 \setslot{\lc{D}{d}}
1018   \comment{The letter ‘{d}’.}
1019 \endsetslot
1020
1021 \setslot{\lc{E}{e}}
1022   \comment{The letter ‘{e}’.}
1023 \endsetslot
1024
1025 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1026
1027   \setslot{\lc{F}{f}}
1028     \ifnumber{\int{ligaturing}}>{0}\then
1029       \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
1030       \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
1031       \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
1032     \Fi
1033     \comment{The letter ‘{f}’.}
1034   \endsetslot
1035
1036 \Fi
1037
1038 \setslot{\lc{G}{g}}
1039   \comment{The letter ‘{g}’.}
1040 \endsetslot
1041

```



```
1042 \setslot{\lc{H}{h}}
1043   \comment{The letter ‘h’}
1044 \endsetslot
1045
1046 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1047
1048   \setslot{\lc{I}{i}}
1049     \comment{The letter ‘i’}
1050   \endsetslot
1051
1052 \Fi
1053
1054 \setslot{\lc{J}{j}}
1055   \comment{The letter ‘j’}
1056 \endsetslot
1057
1058 \setslot{\lc{K}{k}}
1059   \comment{The letter ‘k’}
1060 \endsetslot
1061
1062 \setslot{\lc{L}{l}}
1063   \comment{The letter ‘l’}
1064 \endsetslot
1065
1066 \setslot{\lc{M}{m}}
1067   \comment{The letter ‘m’}
1068 \endsetslot
1069
1070 \setslot{\lc{N}{n}}
1071   \comment{The letter ‘n’}
1072 \endsetslot
1073
1074 \setslot{\lc{O}{o}}
1075   \comment{The letter ‘o’}
1076 \endsetslot
1077
1078 \setslot{\lc{P}{p}}
1079   \comment{The letter ‘p’}
1080 \endsetslot
1081
1082 \setslot{\lc{Q}{q}}
1083   \comment{The letter ‘q’}
1084 \endsetslot
1085
1086 \setslot{\lc{R}{r}}
1087   \comment{The letter ‘r’}
1088 \endsetslot
1089
1090 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
1091
1092   \setslot{\lc{S}{s}}
1093     \comment{The letter ‘s’}
1094   \endsetslot
1095
```

```
1096 \Fi
1097
1098 \setslot{\lc{T}{t}}
1099   \comment{The letter '{t}'.}
1100 \endsetslot
1101
1102 \setslot{\lc{U}{u}}
1103   \comment{The letter '{u}'.}
1104 \endsetslot
1105
1106 \setslot{\lc{V}{v}}
1107   \comment{The letter '{v}'.}
1108 \endsetslot
1109
1110 \setslot{\lc{W}{w}}
1111   \comment{The letter '{w}'.}
1112 \endsetslot
1113
1114 \setslot{\lc{X}{x}}
1115   \comment{The letter '{x}'.}
1116 \endsetslot
1117
1118 \setslot{\lc{Y}{y}}
1119   \comment{The letter '{y}'.}
1120 \endsetslot
1121
1122 \setslot{\lc{Z}{z}}
1123   \comment{The letter '{z}'.}
1124 \endsetslot
1125
1126 \setslot{braceleft}
1127   \comment{The opening curly brace '\textbraceleft'.}
1128 \endsetslot
1129
1130 \setslot{bar}
1131   \comment{The ASCII vertical bar '\textbar'.
1132   This is included for compatibility with typewriter fonts used
1133   for computer listings.}
1134 \endsetslot
1135
1136 \setslot{braceright}
1137   \comment{The closing curly brace '\textbraceright'.}
1138 \endsetslot
1139
1140 \setslot{asciitilde}
1141   \comment{The ASCII tilde '\textasciitilde'.
1142   This is included for compatibility with typewriter fonts used
1143   for computer listings.}
1144 \endsetslot
1145
1146 \setslot{hyphenchar}
1147   \comment{The glyph used for hyphenation in this font, which will
1148   almost always be the same as 'hyphen'.}
1149 \endsetslot
```

```
1150
1151 \setslot{\uctop{Abreve}{abreve}}
1152   \comment{The letter ‘\u A’ .}
1153 \endsetslot
1154
1155 \setslot{\uc{Aogonek}{aogonek}}
1156   \comment{The letter ‘\k A’ .}
1157 \endsetslot
1158
1159 \setslot{\uctop{Cacute}{cacute}}
1160   \comment{The letter ‘\’ C’ .}
1161 \endsetslot
1162
1163 \setslot{\uctop{Ccaron}{ccaron}}
1164   \comment{The letter ‘\v C’ .}
1165 \endsetslot
1166
1167 \setslot{\uctop{Dcaron}{dcaron}}
1168   \comment{The letter ‘\v D’ .}
1169 \endsetslot
1170
1171 \setslot{\uctop{Ecaron}{ecaron}}
1172   \comment{The letter ‘\v E’ .}
1173 \endsetslot
1174
1175 \setslot{\uc{Eogonek}{eogonek}}
1176   \comment{The letter ‘\k E’ .}
1177 \endsetslot
1178
1179 \setslot{\uctop{Gbreve}{gbreve}}
1180   \comment{The letter ‘\u G’ .}
1181 \endsetslot
1182
1183 \setslot{\uctop{Lacute}{lacute}}
1184   \comment{The letter ‘\’ L’ .}
1185 \endsetslot
1186
1187 \setslot{\uc{Lcaron}{lcaron}}
1188   \comment{The letter ‘\v L’ .}
1189 \endsetslot
1190
1191 \setslot{\uc{Lslash}{lslash}}
1192   \comment{The letter ‘\L’ .}
1193 \endsetslot
1194
1195 \setslot{\uctop{Nacute}{nacute}}
1196   \comment{The letter ‘\’ N’ .}
1197 \endsetslot
1198
1199 \setslot{\uctop{Ncaron}{ncaron}}
1200   \comment{The letter ‘\v N’ .}
1201 \endsetslot
1202
1203 \setslot{\uc{Eng}{eng}}
```

```
1204   \comment{The Sami letter ‘\NG’. It is unavailable in \plain\ TeX.
1205   This needs to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as in t1.etx in
1206   most cases, it seems.}
1207 \endsetslot
1208
1209 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
1210   \comment{The letter ‘\H O’ .}
1211 \endsetslot
1212
1213 \setslot{\uctop{Racute}{racute}}
1214   \comment{The letter ‘\’ R’ .}
1215 \endsetslot
1216
1217 \setslot{\uctop{Rcaron}{rcaron}}
1218   \comment{The letter ‘\v R’ .}
1219 \endsetslot
1220
1221 \setslot{\uctop{Sacute}{sacute}}
1222   \comment{The letter ‘\’ S’ .}
1223 \endsetslot
1224
1225 \setslot{\uctop{Scaron}{scaron}}
1226   \comment{The letter ‘\v S’ .}
1227 \endsetslot
1228
1229 \setslot{\uc{Scedilla}{scedilla}}
1230   \comment{The letter ‘\c S’ .}
1231 \endsetslot
1232
1233 \setslot{\uctop{Tcaron}{tcaron}}
1234   \comment{The letter ‘\v T’ .}
1235 \endsetslot
1236
1237 \setslot{\uc{Tcedilla}{tcedilla}}
1238   \comment{The letter ‘\c T’ .}
1239 \endsetslot
1240
1241 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
1242   \comment{The letter ‘\H U’ .}
1243 \endsetslot
1244
1245 \setslot{\uctop{Uring}{uring}}
1246   \comment{The letter ‘\r U’ .}
1247 \endsetslot
1248
1249 \setslot{\uctop{Ydieresis}{ydieresis}}
1250   \comment{The letter ‘\” Y’ .}
1251 \endsetslot
1252
1253 \setslot{\uctop{Zacute}{zacute}}
1254   \comment{The letter ‘\’ Z’ .}
1255 \endsetslot
1256
1257 \setslot{\uctop{Zcaron}{zcaron}}
```

```
1258   \comment{The letter ‘\v Z’ .}
1259 \endsetslot
1260
1261 \setslot{\uctop{Zdotaccent}{zdotaccent}}
1262   \comment{The letter ‘\ . Z’ .}
1263 \endsetslot
1264
1265 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
1266
1267   \setslot{\uclig{IJ}{ij}}
1268     \comment{The letter ‘IJ’. This is a single letter, and in a
1269       monowidth font should ideally be one letter wide.}
1270   \endsetslot
1271
1272 \Fi
1273
1274 \setslot{\uctop{Idotaccent}{idotaccent}}
1275   \comment{The letter ‘\ . I’ .}
1276 \endsetslot
1277
1278 \setslot{\lc{Dbar}{dbar}}
1279   \comment{The letter ‘\dj’ .}
1280 \endsetslot
1281
1282 \setslot{section}
1283   \comment{The section mark ‘\textsection’ .}
1284 \endsetslot
1285
1286 \setslot{\lctop{Abreve}{abreve}}
1287   \comment{The letter ‘\u a’ .}
1288 \endsetslot
1289
1290 \setslot{\lc{Aogonek}{aogonek}}
1291   \comment{The letter ‘\k a’ .}
1292 \endsetslot
1293
1294 \setslot{\lctop{Cacute}{cacute}}
1295   \comment{The letter ‘\’ c’ .}
1296 \endsetslot
1297
1298 \setslot{\lctop{Ccaron}{ccaron}}
1299   \comment{The letter ‘\v c’ .}
1300 \endsetslot
1301
1302 \setslot{\lctop{Dcaron}{dcaron}}
1303   \comment{The letter ‘\v d’ .}
1304 \endsetslot
1305
1306 \setslot{\lctop{Ecaron}{ecaron}}
1307   \comment{The letter ‘\v e’ .}
1308 \endsetslot
1309
1310 \setslot{\lc{Eogonek}{eogonek}}
1311   \comment{The letter ‘\k e’ .}
```

```
1312 \endsetslot
1313
1314 \setslot{\lctop{Gbreve}{gbreve}}
1315   \comment{The letter ‘\u g’ .}
1316 \endsetslot
1317
1318 \setslot{\lctop{Lacute}{lacute}}
1319   \comment{The letter ‘\’ l’ .}
1320 \endsetslot
1321
1322 \setslot{\lc{Lcaron}{lcaron}}
1323   \comment{The letter ‘\v l’ .}
1324 \endsetslot
1325
1326 \setslot{\lc{Lslash}{lslash}}
1327   \comment{The letter ‘\l’ .}
1328 \endsetslot
1329
1330 \setslot{\lctop{Nacute}{nacute}}
1331   \comment{The letter ‘\’ n’ .}
1332 \endsetslot
1333
1334 \setslot{\lctop{Ncaron}{ncaron}}
1335   \comment{The letter ‘\v n’ .}
1336 \endsetslot
1337
1338 \setslot{\lc{Eng}{eng}}
1339   \comment{The Sami letter ‘\ng’. It is unavailable in \plain\ TeX. This needs
to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as it is in t1.etx in most cases,
it seems.}
1340 \endsetslot
1341
1342 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
1343   \comment{The letter ‘\H o’ .}
1344 \endsetslot
1345
1346 \setslot{\lctop{Racute}{racute}}
1347   \comment{The letter ‘\’ r’ .}
1348 \endsetslot
1349
1350 \setslot{\lctop{Rcaron}{rcaron}}
1351   \comment{The letter ‘\v r’ .}
1352 \endsetslot
1353
1354 \setslot{\lctop{Sacute}{sacute}}
1355   \comment{The letter ‘\’ s’ .}
1356 \endsetslot
1357
1358 \setslot{\lctop{Scaron}{scaron}}
1359   \comment{The letter ‘\v s’ .}
1360 \endsetslot
1361
1362 \setslot{\lc{Scedilla}{scedilla}}
1363   \comment{The letter ‘\c s’ .}
```

```
1364 \endsetslot
1365
1366 \setslot{\lctop{Tcaron}{tcaron}}
1367   \comment{The letter ‘\v t’..}
1368 \endsetslot
1369
1370 \setslot{\lc{Tcedilla}{tcedilla}}
1371   \comment{The letter ‘\c t’..}
1372 \endsetslot
1373
1374 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
1375   \comment{The letter ‘\H u’..}
1376 \endsetslot
1377
1378 \setslot{\lctop{Uring}{uring}}
1379   \comment{The letter ‘\r u’..}
1380 \endsetslot
1381
1382 \setslot{\lctop{Ydieresis}{ydieresis}}
1383   \comment{The letter ‘\ " y’..}
1384 \endsetslot
1385
1386 \setslot{\lctop{Zacute}{zacute}}
1387   \comment{The letter ‘\ ’ z’..}
1388 \endsetslot
1389
1390 \setslot{\lctop{Zcaron}{zcaron}}
1391   \comment{The letter ‘\v z’..}
1392 \endsetslot
1393
1394 \setslot{\lctop{Zdotaccent}{zdotaccent}}
1395   \comment{The letter ‘\ . z’..}
1396 \endsetslot
1397
1398 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
1399
1400   \setslot{\lclig{IJ}{ij}}
1401     \comment{The letter ‘ij’. This is a single letter, and in a
1402       monowidth font should ideally be one letter wide.}
1403   \endsetslot
1404
1405 \Fi
1406
1407 \setslot{exclamdown}
1408   \comment{The Spanish punctuation mark ‘!’..}
1409 \endsetslot
1410
1411 \setslot{questiondown}
1412   \comment{The Spanish punctuation mark ‘?’..}
1413 \endsetslot
1414
1415 \setslot{sterling}
1416   \comment{The British currency mark ‘\textsterling’..}
1417 \endsetslot
```

```
1418
1419 \setslot{\uctop{Agrave}{agrave}}
1420   \comment{The letter '\` A'.}
1421 \endsetslot
1422
1423 \setslot{\uctop{Aacute}{aacute}}
1424   \comment{The letter '\` A'.}
1425 \endsetslot
1426
1427 \setslot{\uctop{Acircumflex}{acircumflex}}
1428   \comment{The letter '\^ A'.}
1429 \endsetslot
1430
1431 \setslot{\uctop{Atilde}{atilde}}
1432   \comment{The letter '\~ A'.}
1433 \endsetslot
1434
1435 \setslot{\uctop{Adieresis}{adieresis}}
1436   \comment{The letter '\ " A'.}
1437 \endsetslot
1438
1439 \setslot{\uctop{Aring}{aring}}
1440   \comment{The letter '\r A'.}
1441 \endsetslot
1442
1443 \setslot{\uc{AE}{ae}}
1444   \comment{The letter '\AE'. This is a single letter, and should not be
1445     faked with 'AE'.}
1446 \endsetslot
1447
1448 \setslot{\uc{Ccedilla}{ccedilla}}
1449   \comment{The letter '\c C'.}
1450 \endsetslot
1451
1452 \setslot{\uctop{Egrave}{egrave}}
1453   \comment{The letter '\` E'.}
1454 \endsetslot
1455
1456 \setslot{\uctop{Eacute}{eacute}}
1457   \comment{The letter '\` E'.}
1458 \endsetslot
1459
1460 \setslot{\uctop{Ecircumflex}{ecircumflex}}
1461   \comment{The letter '\^ E'.}
1462 \endsetslot
1463
1464 \setslot{\uctop{Edieresis}{edieresis}}
1465   \comment{The letter '\ " E'.}
1466 \endsetslot
1467
1468 \setslot{\uctop{Igrave}{igrave}}
1469   \comment{The letter '\` I'.}
1470 \endsetslot
1471
```



```
1472 \setslot{\uctop{Iacute}{iacute}}
1473   \comment{The letter ‘\’ I’ .}
1474 \endsetslot
1475
1476 \setslot{\uctop{Icircumflex}{icircumflex}}
1477   \comment{The letter ‘\^ I’ .}
1478 \endsetslot
1479
1480 \setslot{\uctop{Idieresis}{idieresis}}
1481   \comment{The letter ‘\” I’ .}
1482 \endsetslot
1483
1484 \setslot{\uc{Eth}{eth}}
1485   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
1486     with a horizontal bar through the stem. It is unavailable
1487     in \plain\ \TeX .}
1488 \endsetslot
1489
1490 \setslot{\uctop{Ntilde}{ntilde}}
1491   \comment{The letter ‘\~ N’ .}
1492 \endsetslot
1493
1494 \setslot{\uctop{Ograve}{ograve}}
1495   \comment{The letter ‘\‘ O’ .}
1496 \endsetslot
1497
1498 \setslot{\uctop{Oacute}{oacute}}
1499   \comment{The letter ‘\’ O’ .}
1500 \endsetslot
1501
1502 \setslot{\uctop{Ocircumflex}{ocircumflex}}
1503   \comment{The letter ‘\^ O’ .}
1504 \endsetslot
1505
1506 \setslot{\uctop{Otilde}{otilde}}
1507   \comment{The letter ‘\~ O’ .}
1508 \endsetslot
1509
1510 \setslot{\uctop{Odieresis}{odieresis}}
1511   \comment{The letter ‘\” O’ .}
1512 \endsetslot
1513
1514 \setslot{\uc{OE}{oe}}
1515   \comment{The letter ‘OE’ . This is a single letter, and should not be
1516     faked with ‘OE’ .}
1517 \endsetslot
1518
1519 \setslot{\uc{Oslash}{oslash}}
1520   \comment{The letter ‘\O’ .}
1521 \endsetslot
1522
1523 \setslot{\uctop{Ugrave}{ugrave}}
1524   \comment{The letter ‘\‘ U’ .}
1525 \endsetslot
```

```
1526
1527 \setslot{\uctop{Uacute}{uacute}}
1528   \comment{The letter ‘\’ U’}
1529 \endsetslot
1530
1531 \setslot{\uctop{Ucircumflex}{ucircumflex}}
1532   \comment{The letter ‘^ U’}
1533 \endsetslot
1534
1535 \setslot{\uctop{Udieresis}{udieresis}}
1536   \comment{The letter ‘" U’}
1537 \endsetslot
1538
1539 \setslot{\uctop{Yacute}{yacute}}
1540   \comment{The letter ‘\’ Y’}
1541 \endsetslot
1542
1543 \setslot{\uc{Thorn}{thorn}}
1544   \comment{The Icelandic capital letter Thorn, similar to a ‘P’
1545     with the bowl moved down. It is unavailable in \plain\ TeX.}
1546 \endsetslot
1547
1548 \setslot{\uclig{SS}{germandbls}}
1549   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’.
1550     In a monowidth font it should be two letters wide.}
1551 \endsetslot
1552
1553 \setslot{\lctop{Agrave}{agrave}}
1554   \comment{The letter ‘\’ a’}
1555 \endsetslot
1556
1557 \setslot{\lctop{Aacute}{aacute}}
1558   \comment{The letter ‘\’ a’}
1559 \endsetslot
1560
1561 \setslot{\lctop{Acircumflex}{acircumflex}}
1562   \comment{The letter ‘^ a’}
1563 \endsetslot
1564
1565 \setslot{\lctop{Atilde}{atilde}}
1566   \comment{The letter ‘~ a’}
1567 \endsetslot
1568
1569 \setslot{\lctop{Adieresis}{adieresis}}
1570   \comment{The letter ‘" a’}
1571 \endsetslot
1572
1573 \setslot{\lctop{Aring}{aring}}
1574   \comment{The letter ‘r a’}
1575 \endsetslot
1576
1577 \setslot{\lc{AE}{ae}}
1578   \comment{The letter ‘ae’. This is a single letter, and should not be
1579     faked with ‘ae’}.
```

```
1580 \endsetslot
1581
1582 \setslot{\lc{Ccedilla}{ccedilla}}
1583   \comment{The letter ‘c c’.
```

```
1584 \endsetslot
1585
1586 \setslot{\lctop{Egrave}{egrave}}
1587   \comment{The letter ‘‘ e’.
```

```
1588 \endsetslot
1589
1590 \setslot{\lctop{Eacute}{eacute}}
1591   \comment{The letter ‘\’ e’.
```

```
1592 \endsetslot
1593
1594 \setslot{\lctop{Ecircumflex}{ecircumflex}}
1595   \comment{The letter ‘^ e’.
```

```
1596 \endsetslot
1597
1598 \setslot{\lctop{Edieresis}{edieresis}}
1599   \comment{The letter ‘" e’.
```

```
1600 \endsetslot
1601
1602 \setslot{\lctop{Igrave}{igrave}}
1603   \comment{The letter ‘\i’.
```

```
1604 \endsetslot
1605
1606 \setslot{\lctop{Iacute}{iacute}}
1607   \comment{The letter ‘\i’.
```

```
1608 \endsetslot
1609
1610 \setslot{\lctop{Icircumflex}{icircumflex}}
1611   \comment{The letter ‘^i’.
```

```
1612 \endsetslot
1613
1614 \setslot{\lctop{Idieresis}{idieresis}}
1615   \comment{The letter ‘"i’.
```

```
1616 \endsetslot
1617
1618 \setslot{\lc{Eth}{eth}}
1619   \comment{The Icelandic lowercase letter ‘eth’ similar to
1620     a ‘ $\partial$ ’ with an oblique bar through the stem.
1621     It is unavailable in \plain\TeX.}
1622 \endsetslot
1623
1624 \setslot{\lctop{Ntilde}{ntilde}}
1625   \comment{The letter ‘~ n’.
```

```
1626 \endsetslot
1627
1628 \setslot{\lctop{Ograve}{ograve}}
1629   \comment{The letter ‘‘ o’.
```

```
1630 \endsetslot
1631
1632 \setslot{\lctop{Oacute}{oacute}}
1633   \comment{The letter ‘\’ o’.
```

```
1634 \endsetslot
1635
1636 \setslot{\lctop{Ocircumflex}{ocircumflex}}
1637   \comment{The letter ‘ $\overset{\circ}{o}$ ’}
1638 \endsetslot
1639
1640 \setslot{\lctop{Otilde}{otilde}}
1641   \comment{The letter ‘ $\tilde{o}$ ’}
1642 \endsetslot
1643
1644 \setslot{\lctop{Odieresis}{odieresis}}
1645   \comment{The letter ‘ $\ddot{o}$ ’}
1646 \endsetslot
1647
1648 \setslot{\lc{OE}{oe}}
1649   \comment{The letter ‘oe’. This is a single letter, and should not be
1650     faked with ‘oe’}
1651 \endsetslot
1652
1653 \setslot{\lc{Oslash}{oslash}}
1654   \comment{The letter ‘ $\oslash$ ’}
1655 \endsetslot
1656
1657 \setslot{\lctop{Ugrave}{ugrave}}
1658   \comment{The letter ‘ $\grave{u}$ ’}
1659 \endsetslot
1660
1661 \setslot{\lctop{Uacute}{uacute}}
1662   \comment{The letter ‘ $\acute{u}$ ’}
1663 \endsetslot
1664
1665 \setslot{\lctop{Ucircumflex}{ucircumflex}}
1666   \comment{The letter ‘ $\overset{\circ}{u}$ ’}
1667 \endsetslot
1668
1669 \setslot{\lctop{Udieresis}{udieresis}}
1670   \comment{The letter ‘ $\ddot{u}$ ’}
1671 \endsetslot
1672
1673 \setslot{\lctop{Yacute}{yacute}}
1674   \comment{The letter ‘ $\acute{y}$ ’}
1675 \endsetslot
1676
1677 \setslot{\lc{Thorn}{thorn}}
1678   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
1679     with an ascender rising from the stem. It is unavailable
1680     in \plain\TeX.}
1681 \endsetslot
1682
1683 \setslot{\lc{SS}{germandbls}}
1684   \comment{The letter ‘\ss’}
1685 \endsetslot
1686
1687 \endencoding
```

4.3.7 t1-dotalt-f_f.etx

t1-dotalt-f_f (etx)

```

1688 %%
1689 %% - The commentary in the original is deleted in this version. For
1690 %% information about the T1 etc., typeset the original t1.etx
1691 %% included with fontinst.
1692 %% - Slots are altered to accommodate characters which are named
1693 %% differently. For example, this encoding uses "endash" and "emdash"
1694 %% whereas t1.etx called for "rangedash" and "punctdash".
1695 %% - The original notices at the top of that file concerning authors,
1696 %% maintenance etc. are replaced by this notice.
1697 %% - The file is renamed.
1698 %% - The encoding name is modified.
1699 %% - f_f, f_f_i and f_f_l replace ff, ffi and ffl.
1700 %% - lc, uc and accented lc, uc are set to characters named "a.alt" etc.
1701 %%
1702 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1703 \relax
1704 \encoding
1705
1706 \needsfontinstversion{1.910}
1707
1708 \setcommand\lc#1#2{#2.alt}
1709 \setcommand\uc#1#2{#1.alt}
1710 \setcommand\lctop#1#2{#2.alt}
1711 \setcommand\uctop#1#2{#1.alt}
1712 \setcommand\lclig#1#2{#2}
1713 \ifisint{letterspacing}\then
1714   \ifnumber{\int{letterspacing}}={0}\then \Else
1715     \setcommand\uclig#1#2{#1spaced}
1716     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
1717     you can't see it as \verb|\setcommand| commands are invisible in
1718     the typeset output.}
1719   \Fi
1720 \Fi
1721 \setcommand\uclig#1#2{#1}
1722 \setcommand\digit#1{#1}
1723
1724 \ifisint{monowidth}\then
1725   \setint{ligaturing}{0}
1726 \Else
1727   % The following empty line is *important* to get the formatting
1728   % right here (sigh)! (Remember that it is a \par token.)
1729
1730   \ifisint{letterspacing}\then
1731     \ifnumber{\int{letterspacing}}={0}\then \Else
1732       \setint{ligaturing}{0}
1733     \Fi
1734   \Fi
1735   \setint{ligaturing}{1}
1736 \Fi
1737

```

```
1738 \setint{italicslant}{0}
1739 \setint{quad}{1000}
1740 \setint{baselineskip}{1200}
1741
1742 \ifisglyph{x}\then
1743   \setint{xheight}{\height{x}}
1744 \Else
1745   \setint{xheight}{500}
1746 \Fi
1747
1748 \ifisglyph{space}\then
1749   \setint{interword}{\width{space}}
1750 \Else\ifisglyph{i}\then
1751   \setint{interword}{\width{i}}
1752 \Else
1753   \setint{interword}{333}
1754 \Fi\Fi
1755
1756 \ifisint{monowidth}\then
1757   \setint{stretchword}{0}
1758   \setint{shrinkword}{0}
1759   \setint{extraspace}{\int{interword}}
1760 \Else
1761   \setint{stretchword}{\scale{\int{interword}}{600}}
1762   \setint{shrinkword}{\scale{\int{interword}}{240}}
1763   \setint{extraspace}{\scale{\int{interword}}{240}}
1764 \Fi
1765
1766 \ifisglyph{X}\then
1767   \setint{capheight}{\height{X}}
1768 \Else
1769   \setint{capheight}{750}
1770 \Fi
1771
1772 \ifisglyph{d}\then
1773   \setint{ascender}{\height{d}}
1774 \Else\ifisint{capheight}\then
1775   \setint{ascender}{\int{capheight}}
1776 \Else
1777   \setint{ascender}{750}
1778 \Fi\Fi
1779
1780 \ifisglyph{Aring}\then
1781   \setint{accapheight}{\height{Aring}}
1782 \Else
1783   \setint{accapheight}{999}
1784 \Fi
1785
1786 \ifisint{descender_neg}\then
1787   \setint{descender}{\neg{\int{descender_neg}}}
1788 \Else\ifisglyph{p}\then
1789   \setint{descender}{\depth{p}}
1790 \Else
1791   \setint{descender}{250}
```

```

1792 \Fi\Fi
1793
1794 \ifisglyph{Aring}\then
1795   \setint{maxheight}{\height{Aring}}
1796 \Else
1797   \setint{maxheight}{1000}
1798 \Fi
1799
1800 \ifisint{maxdepth_neg}\then
1801   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
1802 \Else\ifisglyph{j}\then
1803   \setint{maxdepth}{\depth{j}}
1804 \Else
1805   \setint{maxdepth}{250}
1806 \Fi\Fi
1807
1808 \ifisglyph{six}\then
1809   \setint{digitwidth}{\width{six}}
1810 \Else
1811   \setint{digitwidth}{500}
1812 \Fi
1813
1814 \setint{capstem}{0} % not in AFM files
1815
1816 \setfontdimen{1}{italicslant}      % italic slant
1817 \setfontdimen{2}{interword}       % interword space
1818 \setfontdimen{3}{stretchword}     % interword stretch
1819 \setfontdimen{4}{shrinkword}      % interword shrink
1820 \setfontdimen{5}{xheight}         % x-height
1821 \setfontdimen{6}{quad}            % quad
1822 \setfontdimen{7}{extraspace}     % extra space after .
1823 \setfontdimen{8}{capheight}       % cap height
1824 \setfontdimen{9}{ascender}        % ascender
1825 \setfontdimen{10}{accapheight}    % accented cap height
1826 \setfontdimen{11}{descender}     % descender's depth
1827 \setfontdimen{12}{maxheight}     % max height
1828 \setfontdimen{13}{maxdepth}      % max depth
1829 \setfontdimen{14}{digitwidth}    % digit width
1830 \setfontdimen{15}{verticalstem}   % dominant width of verical stems
1831 \setfontdimen{16}{baselineskip}  % baselineskip
1832
1833 \ifnumber{\int{ligaturing}}<{0}\then
1834   \comment{In this case, the codingscheme can be different from the
1835     default, and therefore we refrain from setting it.}
1836 \Else
1837   \setstr{codingscheme}{EXTENDED TEX ENC - DOTALT F_F}
1838 \Fi
1839
1840 \setslot{\lc{Grave}{grave}}
1841   \comment{The grave accent '\{ }'.}
1842 \endsetslot
1843
1844 \setslot{\lc{Acute}{acute}}
1845   \comment{The acute accent '\{ }'.}

```

```

1846 \endsetslot
1847
1848 \setslot{\lc{Circumflex}{circumflex}}
1849   \comment{The circumflex accent '\^{}}'.}
1850 \endsetslot
1851
1852 \setslot{\lc{Tilde}{tilde}}
1853   \comment{The tilde accent '\~{}}'.}
1854 \endsetslot
1855
1856 \setslot{\lc{Dieresis}{dieresis}}
1857   \comment{The umlaut or dieresis accent '\"{}'}.}
1858 \endsetslot
1859
1860 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
1861   \comment{The long Hungarian umlaut '\H{}'}.}
1862 \endsetslot
1863
1864 \setslot{\lc{Ring}{ring}}
1865   \comment{The ring accent '\r{}'}.}
1866 \endsetslot
1867
1868 \setslot{\lc{Caron}{caron}}
1869   \comment{The caron or h\`a\`v cek accent '\v{}'}.}
1870 \endsetslot
1871
1872 \setslot{\lc{Breve}{breve}}
1873   \comment{The breve accent '\u{}'}.}
1874 \endsetslot
1875
1876 \setslot{\lc{Macron}{macron}}
1877   \comment{The macron accent '\={}'}.}
1878 \endsetslot
1879
1880 \setslot{\lc{Dotaccent}{dotaccent}}
1881   \comment{The dot accent '\.{}'}.}
1882 \endsetslot
1883
1884 \setslot{\lc{Cedilla}{cedilla}}
1885   \comment{The cedilla accent '\c {}'}.}
1886 \endsetslot
1887
1888 \setslot{\lc{Ogonek}{ogonek}}
1889   \comment{The ogonek accent '\k {}'}.}
1890 \endsetslot
1891
1892 \setslot{quotesinglbase}
1893   \comment{A German single quote mark '\quotesinglbase' similar to a comma,
1894     but with different sidebearings.}
1895 \endsetslot
1896
1897 \setslot{guilsinglleft}
1898   \comment{A French single opening quote mark '\guilsinglleft',
1899     unavailable in \plain\TeX.}

```



```

1900 \endsetslot
1901
1902 \setslot{guilsinglright}
1903   \comment{A French single closing quote mark ‘\guilsinglright’,
1904           unavailable in \plain\ \TeX.}
1905 \endsetslot
1906
1907 \setslot{quotedblleft}
1908   \comment{The English opening quote mark ‘\, \textquotedblleft\,’.}
1909 \endsetslot
1910
1911 \setslot{quotedblright}
1912   \comment{The English closing quote mark ‘\, \textquotedblright\,’.}
1913 \endsetslot
1914
1915 \setslot{quotedblbase}
1916   \comment{A German double quote mark ‘\quotedblbase’ similar to two commas,
1917           but with tighter letterspacing and different sidebearings.}
1918 \endsetslot
1919
1920 \setslot{guillemotleft}
1921   \comment{A French double opening quote mark ‘\guillemotleft’,
1922           unavailable in \plain\ \TeX.}
1923 \endsetslot
1924
1925 \setslot{guillemotright}
1926   \comment{A French closing opening quote mark ‘\guillemotright’,
1927           unavailable in \plain\ \TeX.}
1928 \endsetslot
1929
1930 \setslot{endash}
1931   \ligature{LIG}{hyphen}{emdash}
1932   \comment{The number range dash ‘1--9’.
1933           This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be
1934           called ‘endash’ to work right.
1935           The ‘\textendash’. In a monowidth font, this might be set as
1936           ‘\texttt{1{-}9}’.}
1937 \endsetslot
1938
1939 \setslot{emdash}
1940   \comment{The punctuation dash ‘Oh---boy.’
1941           This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be
1942           called ‘emdash’ to work right.
1943           The ‘\textemdash’.
1944           In a monowidth font, this might be set as ‘\texttt{Oh{-}{-}boy.}’}
1945 \endsetslot
1946
1947 \setslot{compwordmark}
1948   \comment{An invisible glyph, with zero width and depth, but the
1949           height of lowercase letters without ascenders.
1950           It is used to stop ligaturing in words like ‘shelf{}ful’.}
1951 \endsetslot
1952
1953 \setslot{perthousandzero}

```

```

1954     \comment{A glyph which is placed after ‘\%’ to produce a
1955     ‘per-thousand’, or twice to produce ‘per-ten-thousand’.
1956     Your guess is as good as mine as to what this glyph should look
1957     like in a monowidth font.}
1958 \endsetslot
1959
1960 \setslot{\lc{dotlessI}{dotlessi}}
1961     \comment{A dotless i ‘i’, used to produce accented letters such as
1962     ‘=\i’ .}
1963 \endsetslot
1964
1965 \setslot{\lc{dotlessJ}{dotlessj}}
1966     \comment{A dotless j ‘j’, used to produce accented letters such as
1967     ‘=\j’. Most non-TeX fonts do not have this glyph.}
1968 \endsetslot
1969
1970 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
1971
1972 \setslot{\lclig{FF}{f_f}}
1973     \ifnumber{\int{ligaturing}}>{0}\then
1974         \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{f_f_i}}
1975         \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{f_f_l}}
1976     \Fi
1977     \comment{The ‘ff’ ligature. It should be two characters wide in a
1978     monowidth font.}
1979 \endsetslot
1980
1981 \setslot{\lclig{FI}{fi}}
1982     \comment{The ‘fi’ ligature. It should be two characters wide in a
1983     monowidth font.}
1984 \endsetslot
1985
1986 \setslot{\lclig{FL}{fl}}
1987     \comment{The ‘fl’ ligature. It should be two characters wide in a
1988     monowidth font.}
1989 \endsetslot
1990
1991 \setslot{\lclig{FFI}{f_f_i}}
1992     \comment{The ‘ffi’ ligature. It should be three characters wide in a
1993     monowidth font.}
1994 \endsetslot
1995
1996 \setslot{\lclig{FFL}{f_f_l}}
1997     \comment{The ‘ffl’ ligature. It should be three characters wide in a
1998     monowidth font.}
1999 \endsetslot
2000
2001 \Fi
2002
2003 \setslot{visiblespace}
2004     \comment{A visible space glyph ‘\textvisiblespace’ .}
2005 \endsetslot
2006
2007 \setslot{exclam}

```

```
2008 \ligature{LIG}{quoteleft}{exclamdown}
2009 \comment{The exclamation mark '!'}.}
2010 \endsetslot
2011
2012 \setslot{quotedbl}
2013 \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
2014 included for use in monowidth fonts, or for setting computer
2015 programs. Note that the inclusion of this glyph in this slot
2016 means that \TeX\ documents which used '{\tt\char'\}"' as an
2017 input character will no longer work.}
2018 \endsetslot
2019
2020 \setslot{numbersign}
2021 \comment{The hash sign '\#'}.}
2022 \endsetslot
2023
2024 \setslot{dollar}
2025 \comment{The dollar sign '\$'}.}
2026 \endsetslot
2027
2028 \setslot{percent}
2029 \comment{The percent sign '\%'}.}
2030 \endsetslot
2031
2032 \setslot{ampersand}
2033 \comment{The ampersand sign '\&'}.}
2034 \endsetslot
2035
2036 \setslot{quoteright}
2037 \ligature{LIG}{quoteright}{quotedblright}
2038 \comment{The English closing single quote mark '\,\textquoteright\,'}.}
2039 \endsetslot
2040
2041 \setslot{parenleft}
2042 \comment{The opening parenthesis '('}.}
2043 \endsetslot
2044
2045 \setslot{parenright}
2046 \comment{The closing parenthesis ')'}.}
2047 \endsetslot
2048
2049 \setslot{asterisk}
2050 \comment{The raised asterisk '*'.}
2051 \endsetslot
2052
2053 \setslot{plus}
2054 \comment{The addition sign '+'}.}
2055 \endsetslot
2056
2057 \setslot{comma}
2058 \ligature{LIG}{comma}{quotedblbase}
2059 \comment{The comma ','}.}
2060 \endsetslot
2061
```

```
2062 \setslot{hyphen}
2063   \ligature{LIG}{hyphen}{endash}
2064   \ligature{LIG}{hyphenchar}{hyphenchar}
2065   \comment{The hyphen '-' .}
2066 \endsetslot
2067
2068 \setslot{period}
2069   \comment{The period '.' .}
2070 \endsetslot
2071
2072 \setslot{slash}
2073   \comment{The forward oblique '/' .}
2074 \endsetslot
2075
2076 \setslot{\digit{zero}}
2077   \comment{The number '0'. This (and all the other numerals) may be
2078     old style or ranging digits.}
2079 \endsetslot
2080
2081 \setslot{\digit{one}}
2082   \comment{The number '1' .}
2083 \endsetslot
2084
2085 \setslot{\digit{two}}
2086   \comment{The number '2' .}
2087 \endsetslot
2088
2089 \setslot{\digit{three}}
2090   \comment{The number '3' .}
2091 \endsetslot
2092
2093 \setslot{\digit{four}}
2094   \comment{The number '4' .}
2095 \endsetslot
2096
2097 \setslot{\digit{five}}
2098   \comment{The number '5' .}
2099 \endsetslot
2100
2101 \setslot{\digit{six}}
2102   \comment{The number '6' .}
2103 \endsetslot
2104
2105 \setslot{\digit{seven}}
2106   \comment{The number '7' .}
2107 \endsetslot
2108
2109 \setslot{\digit{eight}}
2110   \comment{The number '8' .}
2111 \endsetslot
2112
2113 \setslot{\digit{nine}}
2114   \comment{The number '9' .}
2115 \endsetslot
```

```
2116
2117 \setslot{colon}
2118   \comment{The colon punctuation mark ':' .}
2119 \endsetslot
2120
2121 \setslot{semicolon}
2122   \comment{The semi-colon punctuation mark ';' .}
2123 \endsetslot
2124
2125 \setslot{less}
2126   \ligature{LIG}{less}{guillemotleft}
2127   \comment{The less-than sign '\textless' .}
2128 \endsetslot
2129
2130 \setslot{equal}
2131   \comment{The equals sign '=' .}
2132 \endsetslot
2133
2134 \setslot{greater}
2135   \ligature{LIG}{greater}{guillemotright}
2136   \comment{The greater-than sign '\textgreater' .}
2137 \endsetslot
2138
2139 \setslot{question}
2140   \ligature{LIG}{quoteleft}{questiondown}
2141   \comment{The question mark '?' .}
2142 \endsetslot
2143
2144 \setslot{at}
2145   \comment{The at sign '@' .}
2146 \endsetslot
2147
2148 \setslot{\uc{A}{a}}
2149   \comment{The letter '{A}' .}
2150 \endsetslot
2151
2152 \setslot{\uc{B}{b}}
2153   \comment{The letter '{B}' .}
2154 \endsetslot
2155
2156 \setslot{\uc{C}{c}}
2157   \comment{The letter '{C}' .}
2158 \endsetslot
2159
2160 \setslot{\uc{D}{d}}
2161   \comment{The letter '{D}' .}
2162 \endsetslot
2163
2164 \setslot{\uc{E}{e}}
2165   \comment{The letter '{E}' .}
2166 \endsetslot
2167
2168 \setslot{\uc{F}{f}}
2169   \comment{The letter '{F}' .}
```

```
2170 \endsetslot
2171
2172 \setslot{\uc{G}{g}}
2173   \comment{The letter '{G}'.}
2174 \endsetslot
2175
2176 \setslot{\uc{H}{h}}
2177   \comment{The letter '{H}'.}
2178 \endsetslot
2179
2180 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
2181
2182 \setslot{\uc{I}{i}}
2183   \comment{The letter '{I}'.}
2184 \endsetslot
2185
2186 \Fi
2187
2188 \setslot{\uc{J}{j}}
2189   \comment{The letter '{J}'.}
2190 \endsetslot
2191
2192 \setslot{\uc{K}{k}}
2193   \comment{The letter '{K}'.}
2194 \endsetslot
2195
2196 \setslot{\uc{L}{l}}
2197   \comment{The letter '{L}'.}
2198 \endsetslot
2199
2200 \setslot{\uc{M}{m}}
2201   \comment{The letter '{M}'.}
2202 \endsetslot
2203
2204 \setslot{\uc{N}{n}}
2205   \comment{The letter '{N}'.}
2206 \endsetslot
2207
2208 \setslot{\uc{O}{o}}
2209   \comment{The letter '{O}'.}
2210 \endsetslot
2211
2212 \setslot{\uc{P}{p}}
2213   \comment{The letter '{P}'.}
2214 \endsetslot
2215
2216 \setslot{\uc{Q}{q}}
2217   \comment{The letter '{Q}'.}
2218 \endsetslot
2219
2220 \setslot{\uc{R}{r}}
2221   \comment{The letter '{R}'.}
2222 \endsetslot
2223
```

```
2224 \setslot{\uc{S}{s}}
2225   \comment{The letter '{S}'.}
2226 \endsetslot
2227
2228 \setslot{\uc{T}{t}}
2229   \comment{The letter '{T}'.}
2230 \endsetslot
2231
2232 \setslot{\uc{U}{u}}
2233   \comment{The letter '{U}'.}
2234 \endsetslot
2235
2236 \setslot{\uc{V}{v}}
2237   \comment{The letter '{V}'.}
2238 \endsetslot
2239
2240 \setslot{\uc{W}{w}}
2241   \comment{The letter '{W}'.}
2242 \endsetslot
2243
2244 \setslot{\uc{X}{x}}
2245   \comment{The letter '{X}'.}
2246 \endsetslot
2247
2248 \setslot{\uc{Y}{y}}
2249   \comment{The letter '{Y}'.}
2250 \endsetslot
2251
2252 \setslot{\uc{Z}{z}}
2253   \comment{The letter '{Z}'.}
2254 \endsetslot
2255
2256 \setslot{bracketleft}
2257   \comment{The opening square bracket '['.}
2258 \endsetslot
2259
2260 \setslot{backslash}
2261   \comment{The backwards oblique '\textbackslash'.}
2262 \endsetslot
2263
2264 \setslot{bracketright}
2265   \comment{The closing square bracket ']'.}
2266 \endsetslot
2267
2268 \setslot{asciicircum}
2269   \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
2270           This is included for compatibility with typewriter fonts used
2271           for computer listings.}
2272 \endsetslot
2273
2274 \setslot{underscore}
2275   \comment{The ASCII underline character '\textunderscore', usually
2276           set on the baseline.
2277           This is included for compatibility with typewriter fonts used
```

```

2278     for computer listings.}
2279 \endsetslot
2280
2281 \setslot{quoteleft}
2282   \ligature{LIG}{quoteleft}{quotedblleft}
2283   \comment{The English opening single quote mark ‘\,\textquoteleft\,’.}
2284 \endsetslot
2285
2286 \setslot{\lc{A}{a}}
2287   \comment{The letter ‘{a}’..}
2288 \endsetslot
2289
2290 \setslot{\lc{B}{b}}
2291   \comment{The letter ‘{b}’..}
2292 \endsetslot
2293
2294 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
2295
2296   \setslot{\lc{C}{c}}
2297     \comment{The letter ‘{c}’..}
2298   \endsetslot
2299
2300 \Fi
2301
2302 \setslot{\lc{D}{d}}
2303   \comment{The letter ‘{d}’..}
2304 \endsetslot
2305
2306 \setslot{\lc{E}{e}}
2307   \comment{The letter ‘{e}’..}
2308 \endsetslot
2309
2310 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
2311
2312   \setslot{\lc{F}{f}}
2313     \ifnumber{\int{ligaturing}}>{0}\then
2314       \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
2315       \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{f_f}}
2316       \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
2317     \Fi
2318     \comment{The letter ‘{f}’..}
2319   \endsetslot
2320
2321 \Fi
2322
2323 \setslot{\lc{G}{g}}
2324   \comment{The letter ‘{g}’..}
2325 \endsetslot
2326
2327 \setslot{\lc{H}{h}}
2328   \comment{The letter ‘{h}’..}
2329 \endsetslot
2330
2331 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

```



```
2332
2333   \setslot{\lc{I}{i}}
2334     \comment{The letter '{i}'.}
2335   \endsetslot
2336
2337 \Fi
2338
2339 \setslot{\lc{J}{j}}
2340   \comment{The letter '{j}'.}
2341 \endsetslot
2342
2343 \setslot{\lc{K}{k}}
2344   \comment{The letter '{k}'.}
2345 \endsetslot
2346
2347 \setslot{\lc{L}{l}}
2348   \comment{The letter '{l}'.}
2349 \endsetslot
2350
2351 \setslot{\lc{M}{m}}
2352   \comment{The letter '{m}'.}
2353 \endsetslot
2354
2355 \setslot{\lc{N}{n}}
2356   \comment{The letter '{n}'.}
2357 \endsetslot
2358
2359 \setslot{\lc{O}{o}}
2360   \comment{The letter '{o}'.}
2361 \endsetslot
2362
2363 \setslot{\lc{P}{p}}
2364   \comment{The letter '{p}'.}
2365 \endsetslot
2366
2367 \setslot{\lc{Q}{q}}
2368   \comment{The letter '{q}'.}
2369 \endsetslot
2370
2371 \setslot{\lc{R}{r}}
2372   \comment{The letter '{r}'.}
2373 \endsetslot
2374
2375 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
2376
2377   \setslot{\lc{S}{s}}
2378     \comment{The letter '{s}'.}
2379   \endsetslot
2380
2381 \Fi
2382
2383 \setslot{\lc{T}{t}}
2384   \comment{The letter '{t}'.}
2385 \endsetslot
```

```
2386
2387 \setslot{\lc{U}{u}}
2388   \comment{The letter '{u}'.}
2389 \endsetslot
2390
2391 \setslot{\lc{V}{v}}
2392   \comment{The letter '{v}'.}
2393 \endsetslot
2394
2395 \setslot{\lc{W}{w}}
2396   \comment{The letter '{w}'.}
2397 \endsetslot
2398
2399 \setslot{\lc{X}{x}}
2400   \comment{The letter '{x}'.}
2401 \endsetslot
2402
2403 \setslot{\lc{Y}{y}}
2404   \comment{The letter '{y}'.}
2405 \endsetslot
2406
2407 \setslot{\lc{Z}{z}}
2408   \comment{The letter '{z}'.}
2409 \endsetslot
2410
2411 \setslot{braceleft}
2412   \comment{The opening curly brace '\textbraceleft'.}
2413 \endsetslot
2414
2415 \setslot{bar}
2416   \comment{The ASCII vertical bar '\textbar'.
2417   This is included for compatibility with typewriter fonts used
2418   for computer listings.}
2419 \endsetslot
2420
2421 \setslot{braceright}
2422   \comment{The closing curly brace '\textbraceright'.}
2423 \endsetslot
2424
2425 \setslot{asciitilde}
2426   \comment{The ASCII tilde '\textasciitilde'.
2427   This is included for compatibility with typewriter fonts used
2428   for computer listings.}
2429 \endsetslot
2430
2431 \setslot{hyphenchar}
2432   \comment{The glyph used for hyphenation in this font, which will
2433   almost always be the same as 'hyphen'.}
2434 \endsetslot
2435
2436 \setslot{\uctop{Abreve}{abreve}}
2437   \comment{The letter '\u A'.}
2438 \endsetslot
2439
```

```
2440 \setslot{\uc{Aogonek}{aogonek}}
2441   \comment{The letter ‘\k A’ .}
2442 \endsetslot
2443
2444 \setslot{\uctop{Cacute}{cacute}}
2445   \comment{The letter ‘\’ C’ .}
2446 \endsetslot
2447
2448 \setslot{\uctop{Ccaron}{ccaron}}
2449   \comment{The letter ‘\v C’ .}
2450 \endsetslot
2451
2452 \setslot{\uctop{Dcaron}{dcaron}}
2453   \comment{The letter ‘\v D’ .}
2454 \endsetslot
2455
2456 \setslot{\uctop{Ecaron}{ecaron}}
2457   \comment{The letter ‘\v E’ .}
2458 \endsetslot
2459
2460 \setslot{\uc{Eogonek}{eogonek}}
2461   \comment{The letter ‘\k E’ .}
2462 \endsetslot
2463
2464 \setslot{\uctop{Gbreve}{gbreve}}
2465   \comment{The letter ‘\u G’ .}
2466 \endsetslot
2467
2468 \setslot{\uctop{Lacute}{lacute}}
2469   \comment{The letter ‘\’ L’ .}
2470 \endsetslot
2471
2472 \setslot{\uc{Lcaron}{lcaron}}
2473   \comment{The letter ‘\v L’ .}
2474 \endsetslot
2475
2476 \setslot{\uc{Lslash}{lslash}}
2477   \comment{The letter ‘\L’ .}
2478 \endsetslot
2479
2480 \setslot{\uctop{Nacute}{nacute}}
2481   \comment{The letter ‘\’ N’ .}
2482 \endsetslot
2483
2484 \setslot{\uctop{Ncaron}{ncaron}}
2485   \comment{The letter ‘\v N’ .}
2486 \endsetslot
2487
2488 \setslot{\uc{Eng}{eng}}
2489   \comment{The Sami letter ‘\NG’. It is unavailable in \plain\ TeX. This needs
to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as in t1.etx in most cases, it
seems.}
2490 \endsetslot
2491
```

```
2492 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
2493   \comment{The letter ‘\H O’ .}
2494 \endsetslot
2495
2496 \setslot{\uctop{Racute}{racute}}
2497   \comment{The letter ‘\’ R’ .}
2498 \endsetslot
2499
2500 \setslot{\uctop{Rcaron}{rcaron}}
2501   \comment{The letter ‘\v R’ .}
2502 \endsetslot
2503
2504 \setslot{\uctop{Sacute}{sacute}}
2505   \comment{The letter ‘\’ S’ .}
2506 \endsetslot
2507
2508 \setslot{\uctop{Scaron}{scaron}}
2509   \comment{The letter ‘\v S’ .}
2510 \endsetslot
2511
2512 \setslot{\uc{Scedilla}{scedilla}}
2513   \comment{The letter ‘\c S’ .}
2514 \endsetslot
2515
2516 \setslot{\uctop{Tcaron}{tcaron}}
2517   \comment{The letter ‘\v T’ .}
2518 \endsetslot
2519
2520 \setslot{\uc{Tcedilla}{tcedilla}}
2521   \comment{The letter ‘\c T’ .}
2522 \endsetslot
2523
2524 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
2525   \comment{The letter ‘\H U’ .}
2526 \endsetslot
2527
2528 \setslot{\uctop{Uring}{uring}}
2529   \comment{The letter ‘\r U’ .}
2530 \endsetslot
2531
2532 \setslot{\uctop{Ydieresis}{ydieresis}}
2533   \comment{The letter ‘\” Y’ .}
2534 \endsetslot
2535
2536 \setslot{\uctop{Zacute}{zacute}}
2537   \comment{The letter ‘\’ Z’ .}
2538 \endsetslot
2539
2540 \setslot{\uctop{Zcaron}{zcaron}}
2541   \comment{The letter ‘\v Z’ .}
2542 \endsetslot
2543
2544 \setslot{\uctop{Zdotaccent}{zdotaccent}}
2545   \comment{The letter ‘\ . Z’ .}
```

```
2546 \endsetslot
2547
2548 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2549
2550   \setslot{\uclig{IJ}{ij}}
2551     \comment{The letter 'IJ'. This is a single letter, and in a
2552       monowidth font should ideally be one letter wide.}
2553   \endsetslot
2554
2555 \Fi
2556
2557 \setslot{\uctop{Idotaccent}{idotaccent}}
2558   \comment{The letter '\. I'.}
2559 \endsetslot
2560
2561 \setslot{\lc{Dbar}{dbar}}
2562   \comment{The letter '\dj'.}
2563 \endsetslot
2564
2565 \setslot{section}
2566   \comment{The section mark '\textsection'.}
2567 \endsetslot
2568
2569 \setslot{\lctop{Abreve}{abreve}}
2570   \comment{The letter '\u a'.}
2571 \endsetslot
2572
2573 \setslot{\lc{Aogonek}{aogonek}}
2574   \comment{The letter '\k a'.}
2575 \endsetslot
2576
2577 \setslot{\lctop{Cacute}{cacute}}
2578   \comment{The letter '\' c'.}
2579 \endsetslot
2580
2581 \setslot{\lctop{Ccaron}{ccaron}}
2582   \comment{The letter '\v c'.}
2583 \endsetslot
2584
2585 \setslot{\lctop{Dcaron}{dcaron}}
2586   \comment{The letter '\v d'.}
2587 \endsetslot
2588
2589 \setslot{\lctop{Ecaron}{ecaron}}
2590   \comment{The letter '\v e'.}
2591 \endsetslot
2592
2593 \setslot{\lc{Eogonek}{eogonek}}
2594   \comment{The letter '\k e'.}
2595 \endsetslot
2596
2597 \setslot{\lctop{Gbreve}{gbreve}}
2598   \comment{The letter '\u g'.}
2599 \endsetslot
```

```
2600
2601 \setslot{\lctop{Lacute}{lacute}}
2602   \comment{The letter ‘\’ l’ .}
2603 \endsetslot
2604
2605 \setslot{\lc{Lcaron}{lcaron}}
2606   \comment{The letter ‘\v l’ .}
2607 \endsetslot
2608
2609 \setslot{\lc{Lslash}{lslash}}
2610   \comment{The letter ‘\l’ .}
2611 \endsetslot
2612
2613 \setslot{\lctop{Nacute}{nacute}}
2614   \comment{The letter ‘\’ n’ .}
2615 \endsetslot
2616
2617 \setslot{\lctop{Ncaron}{ncaron}}
2618   \comment{The letter ‘\v n’ .}
2619 \endsetslot
2620
2621 \setslot{\lc{Eng}{eng}}
2622   \comment{The Sami letter ‘\ng’. It is unavailable in \plain\ TeX. This needs
2623     to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as it is in t1.etx in most cases,
2624     it seems.}
2625 \endsetslot
2626
2627 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
2628   \comment{The letter ‘\H o’ .}
2629 \endsetslot
2630
2631 \setslot{\lctop{Racute}{racute}}
2632   \comment{The letter ‘\’ r’ .}
2633 \endsetslot
2634
2635 \setslot{\lctop{Rcaron}{rcaron}}
2636   \comment{The letter ‘\v r’ .}
2637 \endsetslot
2638
2639 \setslot{\lctop{Sacute}{sacute}}
2640   \comment{The letter ‘\’ s’ .}
2641 \endsetslot
2642
2643 \setslot{\lctop{Scaron}{scaron}}
2644   \comment{The letter ‘\v s’ .}
2645 \endsetslot
2646
2647 \setslot{\lc{Scedilla}{scedilla}}
2648   \comment{The letter ‘\c s’ .}
2649 \endsetslot
2650
2651 \setslot{\lctop{Tcaron}{tcaron}}
2652   \comment{The letter ‘\v t’ .}
2653 \endsetslot
```

```
2652
2653 \setslot{\lc{Tcedilla}{tcedilla}}
2654   \comment{The letter ‘\c t’ .}
2655 \endsetslot
2656
2657 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
2658   \comment{The letter ‘\H u’ .}
2659 \endsetslot
2660
2661 \setslot{\lctop{Uring}{uring}}
2662   \comment{The letter ‘\r u’ .}
2663 \endsetslot
2664
2665 \setslot{\lctop{Ydieresis}{ydieresis}}
2666   \comment{The letter ‘\ " y’ .}
2667 \endsetslot
2668
2669 \setslot{\lctop{Zacute}{zacute}}
2670   \comment{The letter ‘\ ’ z’ .}
2671 \endsetslot
2672
2673 \setslot{\lctop{Zcaron}{zcaron}}
2674   \comment{The letter ‘\v z’ .}
2675 \endsetslot
2676
2677 \setslot{\lctop{Zdotaccent}{zdotaccent}}
2678   \comment{The letter ‘\ . z’ .}
2679 \endsetslot
2680
2681 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
2682
2683   \setslot{\lclig{IJ}{ij}}
2684     \comment{The letter ‘ij’ . This is a single letter, and in a
2685       monowidth font should ideally be one letter wide .}
2686   \endsetslot
2687
2688 \Fi
2689
2690 \setslot{exclamdown}
2691   \comment{The Spanish punctuation mark ‘!’ .}
2692 \endsetslot
2693
2694 \setslot{questiondown}
2695   \comment{The Spanish punctuation mark ‘?’ .}
2696 \endsetslot
2697
2698 \setslot{sterling}
2699   \comment{The British currency mark ‘\textsterling’ .}
2700 \endsetslot
2701
2702 \setslot{\uctop{Agrave}{agrave}}
2703   \comment{The letter ‘\ ‘ A’ .}
2704 \endsetslot
2705
```

```
2706 \setslot{\uctop{Aacute}{aacute}}
2707   \comment{The letter ‘\’ A’ .}
2708 \endsetslot
2709
2710 \setslot{\uctop{Acircumflex}{acircumflex}}
2711   \comment{The letter ‘^ A’ .}
2712 \endsetslot
2713
2714 \setslot{\uctop{Atilde}{atilde}}
2715   \comment{The letter ‘~ A’ .}
2716 \endsetslot
2717
2718 \setslot{\uctop{Adieresis}{adieresis}}
2719   \comment{The letter ‘" A’ .}
2720 \endsetslot
2721
2722 \setslot{\uctop{Aring}{aring}}
2723   \comment{The letter ‘r A’ .}
2724 \endsetslot
2725
2726 \setslot{\uc{AE}{ae}}
2727   \comment{The letter ‘AE’ . This is a single letter, and should not be
2728     faked with ‘AE’ .}
2729 \endsetslot
2730
2731 \setslot{\uc{Ccedilla}{ccedilla}}
2732   \comment{The letter ‘c C’ .}
2733 \endsetslot
2734
2735 \setslot{\uctop{Egrave}{egrave}}
2736   \comment{The letter ‘‘ E’ .}
2737 \endsetslot
2738
2739 \setslot{\uctop{Eacute}{eacute}}
2740   \comment{The letter ‘\’ E’ .}
2741 \endsetslot
2742
2743 \setslot{\uctop{Ecircumflex}{ecircumflex}}
2744   \comment{The letter ‘^ E’ .}
2745 \endsetslot
2746
2747 \setslot{\uctop{Edieresis}{edieresis}}
2748   \comment{The letter ‘" E’ .}
2749 \endsetslot
2750
2751 \setslot{\uctop{Igrave}{igrave}}
2752   \comment{The letter ‘‘ I’ .}
2753 \endsetslot
2754
2755 \setslot{\uctop{Iacute}{iacute}}
2756   \comment{The letter ‘\’ I’ .}
2757 \endsetslot
2758
2759 \setslot{\uctop{Icircumflex}{icircumflex}}
```



```
2760   \comment{The letter ‘ $\hat{I}$ ’ .}
2761 \endsetslot
2762
2763 \setslot{\uctop{Idieresis}{idieresis}}
2764   \comment{The letter ‘ $\text{\"} I$ ’ .}
2765 \endsetslot
2766
2767 \setslot{\uc{Eth}{eth}}
2768   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
2769           with a horizontal bar through the stem. It is unavailable
2770           in \plain \TeX.}
2771 \endsetslot
2772
2773 \setslot{\uctop{Ntilde}{ntilde}}
2774   \comment{The letter ‘ $\tilde{N}$ ’ .}
2775 \endsetslot
2776
2777 \setslot{\uctop{Ograve}{ograve}}
2778   \comment{The letter ‘ $\grave{O}$ ’ .}
2779 \endsetslot
2780
2781 \setslot{\uctop{Oacute}{oacute}}
2782   \comment{The letter ‘ $\acute{O}$ ’ .}
2783 \endsetslot
2784
2785 \setslot{\uctop{Ocircumflex}{ocircumflex}}
2786   \comment{The letter ‘ $\hat{O}$ ’ .}
2787 \endsetslot
2788
2789 \setslot{\uctop{Otilde}{otilde}}
2790   \comment{The letter ‘ $\tilde{O}$ ’ .}
2791 \endsetslot
2792
2793 \setslot{\uctop{Odieresis}{odieresis}}
2794   \comment{The letter ‘ $\text{\"} O$ ’ .}
2795 \endsetslot
2796
2797 \setslot{\uc{OE}{oe}}
2798   \comment{The letter ‘OE’. This is a single letter, and should not be
2799           faked with ‘OE’ .}
2800 \endsetslot
2801
2802 \setslot{\uc{Oslash}{oslash}}
2803   \comment{The letter ‘ $\text{\O}$ ’ .}
2804 \endsetslot
2805
2806 \setslot{\uctop{Ugrave}{ugrave}}
2807   \comment{The letter ‘ $\grave{U}$ ’ .}
2808 \endsetslot
2809
2810 \setslot{\uctop{Uacute}{uacute}}
2811   \comment{The letter ‘ $\acute{U}$ ’ .}
2812 \endsetslot
2813
```

```
2814 \setslot{\uctop{Ucircumflex}{ucircumflex}}
2815   \comment{The letter ‘ $\hat{U}$ ’}
2816 \endsetslot
2817
2818 \setslot{\uctop{Udieresis}{udieresis}}
2819   \comment{The letter ‘ $\ddot{U}$ ’}
2820 \endsetslot
2821
2822 \setslot{\uctop{Yacute}{yacute}}
2823   \comment{The letter ‘ $\acute{Y}$ ’}
2824 \endsetslot
2825
2826 \setslot{\uc{Thorn}{thorn}}
2827   \comment{The Icelandic capital letter Thorn, similar to a ‘P’
2828     with the bowl moved down. It is unavailable in \plain\ TeX.}
2829 \endsetslot
2830
2831 \setslot{\uclig{SS}{germandbls}}
2832   \comment{The ligature ‘SS’, used to give an upper case ‘ss’.
2833     In a monowidth font it should be two letters wide.}
2834 \endsetslot
2835
2836 \setslot{\lctop{Agrave}{agrave}}
2837   \comment{The letter ‘ $\grave{a}$ ’}
2838 \endsetslot
2839
2840 \setslot{\lctop{Aacute}{aacute}}
2841   \comment{The letter ‘ $\acute{a}$ ’}
2842 \endsetslot
2843
2844 \setslot{\lctop{Acircumflex}{acircumflex}}
2845   \comment{The letter ‘ $\hat{a}$ ’}
2846 \endsetslot
2847
2848 \setslot{\lctop{Atilde}{atilde}}
2849   \comment{The letter ‘ $\tilde{a}$ ’}
2850 \endsetslot
2851
2852 \setslot{\lctop{Adieresis}{adieresis}}
2853   \comment{The letter ‘ $\ddot{a}$ ’}
2854 \endsetslot
2855
2856 \setslot{\lctop{Aring}{aring}}
2857   \comment{The letter ‘ $\text{\r a}$ ’}
2858 \endsetslot
2859
2860 \setslot{\lc{AE}{ae}}
2861   \comment{The letter ‘ $\text{\ae}$ ’. This is a single letter, and should not be
2862     faked with ‘ae’}
2863 \endsetslot
2864
2865 \setslot{\lc{Ccedilla}{ccedilla}}
2866   \comment{The letter ‘ $\text{\c c}$ ’}
2867 \endsetslot
```

```
2868
2869 \setslot{\lctop{Egrave}{egrave}}
2870   \comment{The letter ‘\’ e’ .}
2871 \endsetslot
2872
2873 \setslot{\lctop{Eacute}{eacute}}
2874   \comment{The letter ‘\’ e’ .}
2875 \endsetslot
2876
2877 \setslot{\lctop{Ecircumflex}{ecircumflex}}
2878   \comment{The letter ‘\^ e’ .}
2879 \endsetslot
2880
2881 \setslot{\lctop{Edieresis}{edieresis}}
2882   \comment{The letter ‘\” e’ .}
2883 \endsetslot
2884
2885 \setslot{\lctop{Igrave}{igrave}}
2886   \comment{The letter ‘\’\i’ .}
2887 \endsetslot
2888
2889 \setslot{\lctop{Iacute}{iacute}}
2890   \comment{The letter ‘\’\i’ .}
2891 \endsetslot
2892
2893 \setslot{\lctop{Icircumflex}{icircumflex}}
2894   \comment{The letter ‘\^ \i’ .}
2895 \endsetslot
2896
2897 \setslot{\lctop{Idieresis}{idieresis}}
2898   \comment{The letter ‘\”\i’ .}
2899 \endsetslot
2900
2901 \setslot{\lc{Eth}{eth}}
2902   \comment{The Icelandic lowercase letter ‘eth’ similar to
2903     a ‘ $\partial$ ’ with an oblique bar through the stem.
2904     It is unavailable in \plain\ \TeX .}
2905 \endsetslot
2906
2907 \setslot{\lctop{Ntilde}{ntilde}}
2908   \comment{The letter ‘\~ n’ .}
2909 \endsetslot
2910
2911 \setslot{\lctop{Ograve}{ograve}}
2912   \comment{The letter ‘\’ o’ .}
2913 \endsetslot
2914
2915 \setslot{\lctop{Oacute}{oacute}}
2916   \comment{The letter ‘\’ o’ .}
2917 \endsetslot
2918
2919 \setslot{\lctop{Ocircumflex}{ocircumflex}}
2920   \comment{The letter ‘\^ o’ .}
2921 \endsetslot
```

```
2922
2923 \setslot{\lctop{Otilde}{otilde}}
2924   \comment{The letter ‘\~ o’.
```

```
2925 \endsetslot
2926
2927 \setslot{\lctop{Odieresis}{odieresis}}
2928   \comment{The letter ‘\ " o’.
```

```
2929 \endsetslot
2930
2931 \setslot{\lc{OE}{oe}}
2932   \comment{The letter ‘oe’. This is a single letter, and should not be
2933     faked with ‘oe’.
```

```
2934 \endsetslot
2935
2936 \setslot{\lc{Oslash}{oslash}}
2937   \comment{The letter ‘\o’.
```

```
2938 \endsetslot
2939
2940 \setslot{\lctop{Ugrave}{ugrave}}
2941   \comment{The letter ‘\ ‘ u’.
```

```
2942 \endsetslot
2943
2944 \setslot{\lctop{Uacute}{uacute}}
2945   \comment{The letter ‘\ ’ u’.
```

```
2946 \endsetslot
2947
2948 \setslot{\lctop{Ucircumflex}{ucircumflex}}
2949   \comment{The letter ‘\ ^ u’.
```

```
2950 \endsetslot
2951
2952 \setslot{\lctop{Udieresis}{udieresis}}
2953   \comment{The letter ‘\ " u’.
```

```
2954 \endsetslot
2955
2956 \setslot{\lctop{Yacute}{yacute}}
2957   \comment{The letter ‘\ ’ y’.
```

```
2958 \endsetslot
2959
2960 \setslot{\lc{Thorn}{thorn}}
2961   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
2962     with an ascender rising from the stem. It is unavailable
2963     in \plain\ TeX.}
```

```
2964 \endsetslot
2965
2966 \setslot{\lc{SS}{germandbls}}
2967   \comment{The letter ‘\ss’.
```

```
2968 \endsetslot
2969
2970 \endencoding
```

4.3.8 t1-dotinf.etx

t1-dotinf.etx (*etx*)

```

2971 %%
2972 %% - The original notices at the top of that file concerning authors,
2973 %% maintenance etc. are replaced by this notice.
2974 %% - The file is renamed.
2975 %% - The encoding name is modified.
2976 %% - The file is modified to accommodate differences in glyph names.
2977 %% - The file is modified for use in encoding inferiors.
2978 %%
2979 %%%%%%%%%%%
2980 \relax
2981 \encoding
2982
2983 \needsfontinstversion{1.910}
2984
2985 \setcommand\lc#1#2{#2.inferior}
2986 \setcommand\uc#1#2{#1.inferior}
2987 \setcommand\lctop#1#2{#2.inferior}
2988 \setcommand\uctop#1#2{#1.inferior}
2989 \setcommand\lclig#1#2{#2.inferior}
2990 \ifisint{letterspacing}\then
2991   \ifnumber{\int{letterspacing}}={0}\then \Else
2992     \setcommand\uclig#1#2{#1spaced}
2993     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
2994     you can't see it as \verb|\setcommand| commands are invisible in
2995     the typeset output.}
2996   \Fi
2997 \Fi
2998 \setcommand\uclig#1#2{#1.inferior}
2999 \setcommand\digit#1{#1.inferior}
3000
3001 \ifisint{monowidth}\then
3002   \setint{ligaturing}{0}
3003 \Else
3004   % The following empty line is important to get the formatting
3005   % right here (sigh)! (Remember that it is a \par token.)
3006
3007   \ifisint{letterspacing}\then
3008     \ifnumber{\int{letterspacing}}={0}\then \Else
3009       \setint{ligaturing}{0}
3010     \Fi
3011   \Fi
3012   \setint{ligaturing}{1}
3013 \Fi
3014
3015 \setint{italicslant}{0}
3016 \setint{quad}{1000}
3017 \setint{baselineskip}{1200}
3018
3019 \ifisglyph{x}\then
3020   \setint{xheight}{\height{x}}

```

```
3021 \Else
3022   \setint{xheight}{500}
3023 \Fi
3024
3025 \ifisglyph{space}\then
3026   \setint{interword}{\width{space}}
3027 \Else\ifisglyph{i}\then
3028   \setint{interword}{\width{i}}
3029 \Else
3030   \setint{interword}{333}
3031 \Fi\Fi
3032
3033 \ifisint{monowidth}\then
3034   \setint{stretchword}{0}
3035   \setint{shrinkword}{0}
3036   \setint{extraspace}{\int{interword}}
3037 \Else
3038   \setint{stretchword}{\scale{\int{interword}}{600}}
3039   \setint{shrinkword}{\scale{\int{interword}}{240}}
3040   \setint{extraspace}{\scale{\int{interword}}{240}}
3041 \Fi
3042
3043 \ifisglyph{X}\then
3044   \setint{capheight}{\height{X}}
3045 \Else
3046   \setint{capheight}{750}
3047 \Fi
3048
3049 \ifisglyph{d}\then
3050   \setint{ascender}{\height{d}}
3051 \Else\ifisint{capheight}\then
3052   \setint{ascender}{\int{capheight}}
3053 \Else
3054   \setint{ascender}{750}
3055 \Fi\Fi
3056
3057 \ifisglyph{Aring}\then
3058   \setint{accapheight}{\height{Aring}}
3059 \Else
3060   \setint{accapheight}{999}
3061 \Fi
3062
3063 \ifisint{descender_neg}\then
3064   \setint{descender}{\neg{\int{descender_neg}}}
3065 \Else\ifisglyph{p}\then
3066   \setint{descender}{\depth{p}}
3067 \Else
3068   \setint{descender}{250}
3069 \Fi\Fi
3070
3071 \ifisglyph{Aring}\then
3072   \setint{maxheight}{\height{Aring}}
3073 \Else
3074   \setint{maxheight}{1000}
```

```

3075 \Fi
3076
3077 \ifisint{maxdepth_neg}\then
3078   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
3079 \Else\ifisglyph{j}\then
3080   \setint{maxdepth}{\depth{j}}
3081 \Else
3082   \setint{maxdepth}{250}
3083 \Fi\Fi
3084
3085 \ifisglyph{six}\then
3086   \setint{digitwidth}{\width{six}}
3087 \Else
3088   \setint{digitwidth}{500}
3089 \Fi
3090
3091 \setint{capstem}{0} % not in AFM files
3092
3093 \setfontdimen{1}{italicslant} % italic slant
3094 \setfontdimen{2}{interword} % interword space
3095 \setfontdimen{3}{stretchword} % interword stretch
3096 \setfontdimen{4}{shrinkword} % interword shrink
3097 \setfontdimen{5}{xheight} % x-height
3098 \setfontdimen{6}{quad} % quad
3099 \setfontdimen{7}{extraspace} % extra space after .
3100 \setfontdimen{8}{capheight} % cap height
3101 \setfontdimen{9}{ascender} % ascender
3102 \setfontdimen{10}{accapheight} % accented cap height
3103 \setfontdimen{11}{descender} % descender's depth
3104 \setfontdimen{12}{maxheight} % max height
3105 \setfontdimen{13}{maxdepth} % max depth
3106 \setfontdimen{14}{digitwidth} % digit width
3107 \setfontdimen{15}{verticalstem} % dominant width of verical stems
3108 \setfontdimen{16}{baselineskip} % baselineskip
3109
3110 \ifnumber{\int{ligaturing}}<{0}\then
3111   \comment{In this case, the codingscheme can be different from the
3112     default, and therefore we refrain from setting it.}
3113 \Else
3114   \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - DOTINF}
3115 \Fi
3116
3117 \setslot{\lc{Grave}{grave}}
3118   \comment{The grave accent '\{ }'.}
3119 \endsetslot
3120
3121 \setslot{\lc{Acute}{acute}}
3122   \comment{The acute accent '\{ }'.}
3123 \endsetslot
3124
3125 \setslot{\lc{Circumflex}{circumflex}}
3126   \comment{The circumflex accent '\^{ }'.}
3127 \endsetslot
3128

```

```

3129 \setslot{\lc{Tilde}{tilde}}
3130   \comment{The tilde accent '\~{}}'.}
3131 \endsetslot
3132
3133 \setslot{\lc{Dieresis}{dieresis}}
3134   \comment{The umlaut or dieresis accent '\"{}'}.}
3135 \endsetslot
3136
3137 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
3138   \comment{The long Hungarian umlaut '\H{}'}.}
3139 \endsetslot
3140
3141 \setslot{\lc{Ring}{ring}}
3142   \comment{The ring accent '\r{}'}.}
3143 \endsetslot
3144
3145 \setslot{\lc{Caron}{caron}}
3146   \comment{The caron or h'a\v cek accent '\v{}'}.}
3147 \endsetslot
3148
3149 \setslot{\lc{Breve}{breve}}
3150   \comment{The breve accent '\u{}'}.}
3151 \endsetslot
3152
3153 \setslot{\lc{Macron}{macron}}
3154   \comment{The macron accent '\={}'}.}
3155 \endsetslot
3156
3157 \setslot{\lc{Dotaccent}{dotaccent}}
3158   \comment{The dot accent '\.{}'}.}
3159 \endsetslot
3160
3161 \setslot{\lc{Cedilla}{cedilla}}
3162   \comment{The cedilla accent '\c {}'}.}
3163 \endsetslot
3164
3165 \setslot{\lc{Ogonek}{ogonek}}
3166   \comment{The ogonek accent '\k {}'}.}
3167 \endsetslot
3168
3169 \setslot{quotesinglbase.inferior}
3170   \comment{A German single quote mark '\quotesinglbase' similar to a comma,
3171     but with different sidebearings.}
3172 \endsetslot
3173
3174 \setslot{guilsinglleft.inferior}
3175   \comment{A French single opening quote mark '\guilsinglleft',
3176     unavailable in \plain\TeX.}
3177 \endsetslot
3178
3179 \setslot{guilsinglright.inferior}
3180   \comment{A French single closing quote mark '\guilsinglright',
3181     unavailable in \plain\TeX.}
3182 \endsetslot

```



```
3183
3184 \setslot{quotedblleft.inferior}
3185   \comment{The English opening quote mark ‘\,\textquotedblleft\,’.}
3186 \endsetslot
3187
3188 \setslot{quotedblright.inferior}
3189   \comment{The English closing quote mark ‘\,\textquotedblright\,’.}
3190 \endsetslot
3191
3192 \setslot{quotedblbase.inferior}
3193   \comment{A German double quote mark ‘quotedblbase’ similar to two commas,
3194           but with tighter letterspacing and different sidebearings.}
3195 \endsetslot
3196
3197 \setslot{guillemotleft.inferior}
3198   \comment{A French double opening quote mark ‘\guillemotleft’,
3199           unavailable in \plain\ \TeX.}
3200 \endsetslot
3201
3202 \setslot{guillemotright.inferior}
3203   \comment{A French closing opening quote mark ‘\guillemotright’,
3204           unavailable in \plain\ \TeX.}
3205 \endsetslot
3206
3207 \setslot{endash.inferior}
3208   \ligature{LIG}{hyphen.inferior}{emdash.inferior}
3209   \comment{The number range dash ‘1--9’.
3210           This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be
3211           called ‘endash’ to work right.
3212           The ‘\textendash’.
3213           In a monowidth font, this might be set as ‘\texttt{1{-}9}’.}
3214 \endsetslot
3215
3216 \setslot{emdash.inferior}
3217   \comment{The punctuation dash ‘Oh---boy.’
3218           This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be
3219           called ‘emdash’ to work right.
3220           The ‘\textemdash’.
3221           In a monowidth font, this might be set as ‘\texttt{Oh{-}{-}boy.}’}
3222 \endsetslot
3223
3224 \setslot{compwordmark.inferior}
3225   \comment{An invisible glyph, with zero width and depth, but the
3226           height of lowercase letters without ascenders.
3227           It is used to stop ligaturing in words like ‘shelf{}ful’..}
3228 \endsetslot
3229
3230 \setslot{perthousandzero.inferior}
3231   \comment{A glyph which is placed after ‘\%’ to produce a
3232           ‘per-thousand’, or twice to produce ‘per-ten-thousand’.
3233           Your guess is as good as mine as to what this glyph should look
3234           like in a monowidth font.}
3235 \endsetslot
3236
```

```

3237 \setslot{\lc{dotlessI}{dotlessi}}
3238   \comment{A dotless i '\i', used to produce accented letters such as
3239     '\=\i'.}
3240 \endsetslot
3241
3242 \setslot{\lc{dotlessJ}{dotlessj}}
3243   \comment{A dotless j '\j', used to produce accented letters such as
3244     '\=\j'. Most non-\TeX\ fonts do not have this glyph.}
3245 \endsetslot
3246
3247 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
3248
3249 \setslot{\lclig{FF}{ff}}
3250   \ifnumber{\int{ligaturing}}>{0}\then
3251     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
3252     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}
3253   \Fi
3254   \comment{The 'ff' ligature. It should be two characters wide in a
3255     monowidth font.}
3256 \endsetslot
3257
3258 \setslot{\lclig{FI}{fi}}
3259   \comment{The 'fi' ligature. It should be two characters wide in a
3260     monowidth font.}
3261 \endsetslot
3262
3263 \setslot{\lclig{FL}{fl}}
3264   \comment{The 'fl' ligature. It should be two characters wide in a
3265     monowidth font.}
3266 \endsetslot
3267
3268 \setslot{\lclig{FFI}{ffi}}
3269   \comment{The 'ffi' ligature. It should be three characters wide in a
3270     monowidth font.}
3271 \endsetslot
3272
3273 \setslot{\lclig{FFL}{ffl}}
3274   \comment{The 'ffl' ligature. It should be three characters wide in a
3275     monowidth font.}
3276 \endsetslot
3277
3278 \Fi
3279
3280 \setslot{visiblespace.inferior}
3281   \comment{A visible space glyph '\textvisiblespace'.}
3282 \endsetslot
3283
3284 \setslot{exclam.inferior}
3285   \ligature{LIG}{quoteleft.inferior}{exclamdown.inferior}
3286   \comment{The exclamation mark '!'.}
3287 \endsetslot
3288
3289 \setslot{quotedbl.inferior}
3290   \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',

```

```
3291     included for use in monowidth fonts, or for setting computer
3292     programs. Note that the inclusion of this glyph in this slot
3293     means that \TeX\ documents which used '{\tt\char\'"}' as an
3294     input character will no longer work.}
3295 \endsetslot
3296
3297 \setslot{numbersign.inferior}
3298     \comment{The hash sign '\#'.}
3299 \endsetslot
3300
3301 \setslot{dollar.inferior}
3302     \comment{The dollar sign '\$'.}
3303 \endsetslot
3304
3305 \setslot{percent.inferior}
3306     \comment{The percent sign '\%'.}
3307 \endsetslot
3308
3309 \setslot{ampersand.inferior}
3310     \comment{The ampersand sign '\&'.}
3311 \endsetslot
3312
3313 \setslot{quoteright.inferior}
3314     \ligature{LIG}{quoteright.inferior}{quotedblright.inferior}
3315     \comment{The English closing single quote mark '\,\textquoteright\,'.}
3316 \endsetslot
3317
3318 \setslot{parenleft.inferior}
3319     \comment{The opening parenthesis '(''.}
3320 \endsetslot
3321
3322 \setslot{parenright.inferior}
3323     \comment{The closing parenthesis ')''.}
3324 \endsetslot
3325
3326 \setslot{asterisk.inferior}
3327     \comment{The raised asterisk '*'.}
3328 \endsetslot
3329
3330 \setslot{plus.inferior}
3331     \comment{The addition sign '+''.}
3332 \endsetslot
3333
3334 \setslot{comma.inferior}
3335     \ligature{LIG}{comma.inferior}{quotedblbase.inferior}
3336     \comment{The comma ','.}
3337 \endsetslot
3338
3339 \setslot{hyphen.inferior}
3340     \ligature{LIG}{hyphen.inferior}{endash.inferior}
3341     \ligature{LIG}{hyphenchar.inferior}{hyphenchar.inferior}
3342     \comment{The hyphen '-'.}
3343 \endsetslot
3344
```

```
3345 \setslot{period.inferior}
3346   \comment{The period ‘.’.}
3347 \endsetslot
3348
3349 \setslot{slash.inferior}
3350   \comment{The forward oblique ‘/’..}
3351 \endsetslot
3352
3353 \setslot{\digit{zero}}
3354   \comment{The number ‘0’. This (and all the other numerals) may be
3355     old style or ranging digits.}
3356 \endsetslot
3357
3358 \setslot{\digit{one}}
3359   \comment{The number ‘1’..}
3360 \endsetslot
3361
3362 \setslot{\digit{two}}
3363   \comment{The number ‘2’..}
3364 \endsetslot
3365
3366 \setslot{\digit{three}}
3367   \comment{The number ‘3’..}
3368 \endsetslot
3369
3370 \setslot{\digit{four}}
3371   \comment{The number ‘4’..}
3372 \endsetslot
3373
3374 \setslot{\digit{five}}
3375   \comment{The number ‘5’..}
3376 \endsetslot
3377
3378 \setslot{\digit{six}}
3379   \comment{The number ‘6’..}
3380 \endsetslot
3381
3382 \setslot{\digit{seven}}
3383   \comment{The number ‘7’..}
3384 \endsetslot
3385
3386 \setslot{\digit{eight}}
3387   \comment{The number ‘8’..}
3388 \endsetslot
3389
3390 \setslot{\digit{nine}}
3391   \comment{The number ‘9’..}
3392 \endsetslot
3393
3394 \setslot{colon.inferior}
3395   \comment{The colon punctuation mark ‘:’..}
3396 \endsetslot
3397
3398 \setslot{semicolon.inferior}
```

```
3399     \comment{The semi-colon punctuation mark ';' .}
3400 \endsetslot
3401
3402 \setslot{less.inferior}
3403     \ligature{LIG}{less.inferior}{guillemotleft.inferior}
3404     \comment{The less-than sign '\textless' .}
3405 \endsetslot
3406
3407 \setslot{equal.inferior}
3408     \comment{The equals sign '=' .}
3409 \endsetslot
3410
3411 \setslot{greater.inferior}
3412     \ligature{LIG}{greater.inferior}{guillemotright.inferior}
3413     \comment{The greater-than sign '\textgreater' .}
3414 \endsetslot
3415
3416 \setslot{question.inferior}
3417     \ligature{LIG}{quoteleft.inferior}{questiondown.inferior}
3418     \comment{The question mark '?' .}
3419 \endsetslot
3420
3421 \setslot{at.inferior}
3422     \comment{The at sign '@' .}
3423 \endsetslot
3424
3425 \setslot{\uc{A}{a}}
3426     \comment{The letter '{A}' .}
3427 \endsetslot
3428
3429 \setslot{\uc{B}{b}}
3430     \comment{The letter '{B}' .}
3431 \endsetslot
3432
3433 \setslot{\uc{C}{c}}
3434     \comment{The letter '{C}' .}
3435 \endsetslot
3436
3437 \setslot{\uc{D}{d}}
3438     \comment{The letter '{D}' .}
3439 \endsetslot
3440
3441 \setslot{\uc{E}{e}}
3442     \comment{The letter '{E}' .}
3443 \endsetslot
3444
3445 \setslot{\uc{F}{f}}
3446     \comment{The letter '{F}' .}
3447 \endsetslot
3448
3449 \setslot{\uc{G}{g}}
3450     \comment{The letter '{G}' .}
3451 \endsetslot
3452
```

```
3453 \setslot{\uc{H}{h}}
3454   \comment{The letter '{H}'.}
3455 \endsetslot
3456
3457 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3458
3459 \setslot{\uc{I}{i}}
3460   \comment{The letter '{I}'.}
3461 \endsetslot
3462
3463 \Fi
3464
3465 \setslot{\uc{J}{j}}
3466   \comment{The letter '{J}'.}
3467 \endsetslot
3468
3469 \setslot{\uc{K}{k}}
3470   \comment{The letter '{K}'.}
3471 \endsetslot
3472
3473 \setslot{\uc{L}{l}}
3474   \comment{The letter '{L}'.}
3475 \endsetslot
3476
3477 \setslot{\uc{M}{m}}
3478   \comment{The letter '{M}'.}
3479 \endsetslot
3480
3481 \setslot{\uc{N}{n}}
3482   \comment{The letter '{N}'.}
3483 \endsetslot
3484
3485 \setslot{\uc{O}{o}}
3486   \comment{The letter '{O}'.}
3487 \endsetslot
3488
3489 \setslot{\uc{P}{p}}
3490   \comment{The letter '{P}'.}
3491 \endsetslot
3492
3493 \setslot{\uc{Q}{q}}
3494   \comment{The letter '{Q}'.}
3495 \endsetslot
3496
3497 \setslot{\uc{R}{r}}
3498   \comment{The letter '{R}'.}
3499 \endsetslot
3500
3501 \setslot{\uc{S}{s}}
3502   \comment{The letter '{S}'.}
3503 \endsetslot
3504
3505 \setslot{\uc{T}{t}}
3506   \comment{The letter '{T}'.}
```

```
3507 \endsetslot
3508
3509 \setslot{\uc{U}{u}}
3510   \comment{The letter '{U}'.}
3511 \endsetslot
3512
3513 \setslot{\uc{V}{v}}
3514   \comment{The letter '{V}'.}
3515 \endsetslot
3516
3517 \setslot{\uc{W}{w}}
3518   \comment{The letter '{W}'.}
3519 \endsetslot
3520
3521 \setslot{\uc{X}{x}}
3522   \comment{The letter '{X}'.}
3523 \endsetslot
3524
3525 \setslot{\uc{Y}{y}}
3526   \comment{The letter '{Y}'.}
3527 \endsetslot
3528
3529 \setslot{\uc{Z}{z}}
3530   \comment{The letter '{Z}'.}
3531 \endsetslot
3532
3533 \setslot{bracketleft.inferior}
3534   \comment{The opening square bracket '['.}
3535 \endsetslot
3536
3537 \setslot{backslash.inferior}
3538   \comment{The backwards oblique '\textbackslash'.}
3539 \endsetslot
3540
3541 \setslot{bracketright.inferior}
3542   \comment{The closing square bracket ']'.}
3543 \endsetslot
3544
3545 \setslot{asciicircum.inferior}
3546   \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
3547   This is included for compatibility with typewriter fonts used
3548   for computer listings.}
3549 \endsetslot
3550
3551 \setslot{underscore.inferior}
3552   \comment{The ASCII underline character '\textunderscore', usually
3553   set on the baseline.
3554   This is included for compatibility with typewriter fonts used
3555   for computer listings.}
3556 \endsetslot
3557
3558 \setslot{quoteleft.inferior}
3559   \ligature{LIG}{quoteleft.inferior}{quotedblleft.inferior}
3560   \comment{The English opening single quote mark '\,\textquoteleft\,'.}
```

```

3561 \endsetslot
3562
3563 \setslot{\lc{A}{a}}
3564   \comment{The letter '{a}'.}
3565 \endsetslot
3566
3567 \setslot{\lc{B}{b}}
3568   \comment{The letter '{b}'.}
3569 \endsetslot
3570
3571 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3572
3573   \setslot{\lc{C}{c}}
3574     \comment{The letter '{c}'.}
3575   \endsetslot
3576
3577 \Fi
3578
3579 \setslot{\lc{D}{d}}
3580   \comment{The letter '{d}'.}
3581 \endsetslot
3582
3583 \setslot{\lc{E}{e}}
3584   \comment{The letter '{e}'.}
3585 \endsetslot
3586
3587 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3588
3589   \setslot{\lc{F}{f}}
3590     \ifnumber{\int{ligaturing}}>{0}\then
3591       \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
3592       \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
3593       \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
3594     \Fi
3595     \comment{The letter '{f}'.}
3596   \endsetslot
3597
3598 \Fi
3599
3600 \setslot{\lc{G}{g}}
3601   \comment{The letter '{g}'.}
3602 \endsetslot
3603
3604 \setslot{\lc{H}{h}}
3605   \comment{The letter '{h}'.}
3606 \endsetslot
3607
3608 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3609
3610   \setslot{\lc{I}{i}}
3611     \comment{The letter '{i}'.}
3612   \endsetslot
3613
3614 \Fi

```



```
3615
3616 \setslot{\lc{J}{j}}
3617   \comment{The letter '{j}'.}
3618 \endsetslot
3619
3620 \setslot{\lc{K}{k}}
3621   \comment{The letter '{k}'.}
3622 \endsetslot
3623
3624 \setslot{\lc{L}{l}}
3625   \comment{The letter '{l}'.}
3626 \endsetslot
3627
3628 \setslot{\lc{M}{m}}
3629   \comment{The letter '{m}'.}
3630 \endsetslot
3631
3632 \setslot{\lc{N}{n}}
3633   \comment{The letter '{n}'.}
3634 \endsetslot
3635
3636 \setslot{\lc{O}{o}}
3637   \comment{The letter '{o}'.}
3638 \endsetslot
3639
3640 \setslot{\lc{P}{p}}
3641   \comment{The letter '{p}'.}
3642 \endsetslot
3643
3644 \setslot{\lc{Q}{q}}
3645   \comment{The letter '{q}'.}
3646 \endsetslot
3647
3648 \setslot{\lc{R}{r}}
3649   \comment{The letter '{r}'.}
3650 \endsetslot
3651
3652 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
3653
3654   \setslot{\lc{S}{s}}
3655     \comment{The letter '{s}'.}
3656   \endsetslot
3657
3658 \Fi
3659
3660 \setslot{\lc{T}{t}}
3661   \comment{The letter '{t}'.}
3662 \endsetslot
3663
3664 \setslot{\lc{U}{u}}
3665   \comment{The letter '{u}'.}
3666 \endsetslot
3667
3668 \setslot{\lc{V}{v}}
```

```
3669   \comment{The letter '{v}'.}
3670 \endsetslot
3671
3672 \setslot{\lc{W}{w}}
3673   \comment{The letter '{w}'.}
3674 \endsetslot
3675
3676 \setslot{\lc{X}{x}}
3677   \comment{The letter '{x}'.}
3678 \endsetslot
3679
3680 \setslot{\lc{Y}{y}}
3681   \comment{The letter '{y}'.}
3682 \endsetslot
3683
3684 \setslot{\lc{Z}{z}}
3685   \comment{The letter '{z}'.}
3686 \endsetslot
3687
3688 \setslot{braceleft.inferior}
3689   \comment{The opening curly brace '\textbraceleft'.}
3690 \endsetslot
3691
3692 \setslot{bar.inferior}
3693   \comment{The ASCII vertical bar '\textbar'.
3694           This is included for compatibility with typewriter fonts used
3695           for computer listings.}
3696 \endsetslot
3697
3698 \setslot{braceright.inferior}
3699   \comment{The closing curly brace '\textbraceright'.}
3700 \endsetslot
3701
3702 \setslot{asciitilde.inferior}
3703   \comment{The ASCII tilde '\textasciitilde'.
3704           This is included for compatibility with typewriter fonts used
3705           for computer listings.}
3706 \endsetslot
3707
3708 \setslot{hyphenchar.inferior}
3709   \comment{The glyph used for hyphenation in this font, which will
3710           almost always be the same as 'hyphen'.}
3711 \endsetslot
3712
3713 \setslot{\uctop{Abreve}{abreve}}
3714   \comment{The letter '\u A'.}
3715 \endsetslot
3716
3717 \setslot{\uc{Aogonek}{aogonek}}
3718   \comment{The letter '\k A'.}
3719 \endsetslot
3720
3721 \setslot{\uctop{Cacute}{cacute}}
3722   \comment{The letter '\ ' C'.
```

```
3723 \endsetslot
3724
3725 \setslot{\uctop{Ccaron}{ccaron}}
3726   \comment{The letter ‘\v C’..}
3727 \endsetslot
3728
3729 \setslot{\uctop{Dcaron}{dcaron}}
3730   \comment{The letter ‘\v D’..}
3731 \endsetslot
3732
3733 \setslot{\uctop{Ecaron}{ecaron}}
3734   \comment{The letter ‘\v E’..}
3735 \endsetslot
3736
3737 \setslot{\uc{Eogonek}{eogonek}}
3738   \comment{The letter ‘\k E’..}
3739 \endsetslot
3740
3741 \setslot{\uctop{Gbreve}{gbreve}}
3742   \comment{The letter ‘\u G’..}
3743 \endsetslot
3744
3745 \setslot{\uctop{Lacute}{lacute}}
3746   \comment{The letter ‘\’ L’..}
3747 \endsetslot
3748
3749 \setslot{\uc{Lcaron}{lcaron}}
3750   \comment{The letter ‘\v L’..}
3751 \endsetslot
3752
3753 \setslot{\uc{Lslash}{lslash}}
3754   \comment{The letter ‘\L’..}
3755 \endsetslot
3756
3757 \setslot{\uctop{Nacute}{nacute}}
3758   \comment{The letter ‘\’ N’..}
3759 \endsetslot
3760
3761 \setslot{\uctop{Ncaron}{ncaron}}
3762   \comment{The letter ‘\v N’..}
3763 \endsetslot
3764
3765 \setslot{\uc{Eng}{eng}}
3766   \comment{The Sami letter ‘\NG’. It is unavailable in \plain\ TeX. This needs
to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as in t1.etx in most cases, it
seems.}
3767 \endsetslot
3768
3769 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
3770   \comment{The letter ‘\H O’..}
3771 \endsetslot
3772
3773 \setslot{\uctop{Racute}{racute}}
3774   \comment{The letter ‘\’ R’..}
```

```
3775 \endsetslot
3776
3777 \setslot{\uctop{Rcaron}{rcaron}}
3778   \comment{The letter '\v R'.}
3779 \endsetslot
3780
3781 \setslot{\uctop{Sacute}{sacute}}
3782   \comment{The letter '\ S'.}
3783 \endsetslot
3784
3785 \setslot{\uctop{Scaron}{scaron}}
3786   \comment{The letter '\v S'.}
3787 \endsetslot
3788
3789 \setslot{\uc{Scedilla}{scedilla}}
3790   \comment{The letter '\c S'.}
3791 \endsetslot
3792
3793 \setslot{\uctop{Tcaron}{tcaron}}
3794   \comment{The letter '\v T'.}
3795 \endsetslot
3796
3797 \setslot{\uc{Tcedilla}{tcedilla}}
3798   \comment{The letter '\c T'.}
3799 \endsetslot
3800
3801 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
3802   \comment{The letter '\H U'.}
3803 \endsetslot
3804
3805 \setslot{\uctop{Uring}{uring}}
3806   \comment{The letter '\r U'.}
3807 \endsetslot
3808
3809 \setslot{\uctop{Ydieresis}{ydieresis}}
3810   \comment{The letter '\ " Y'.}
3811 \endsetslot
3812
3813 \setslot{\uctop{Zacute}{zacute}}
3814   \comment{The letter '\ ' Z'.}
3815 \endsetslot
3816
3817 \setslot{\uctop{Zcaron}{zcaron}}
3818   \comment{The letter '\v Z'.}
3819 \endsetslot
3820
3821 \setslot{\uctop{Zdotaccent}{zdotaccent}}
3822   \comment{The letter '\. Z'.}
3823 \endsetslot
3824
3825 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
3826
3827   \setslot{\uclig{IJ}{ij}}
3828     \comment{The letter 'IJ'. This is a single letter, and in a
```

```
3829         monowidth font should ideally be one letter wide.}
3830     \endsetslot
3831
3832 \Fi
3833
3834 \setslot{\uctop{Idotaccent}{idotaccent}}
3835     \comment{The letter '\. I'.}
3836 \endsetslot
3837
3838 \setslot{\lc{Dbar}{dbar}}
3839     \comment{The letter '\dj'.}
3840 \endsetslot
3841
3842 \setslot{section.inferior}
3843     \comment{The section mark '\textsection'.}
3844 \endsetslot
3845
3846 \setslot{\lctop{Abreve}{abreve}}
3847     \comment{The letter '\u a'.}
3848 \endsetslot
3849
3850 \setslot{\lc{Aogonek}{aogonek}}
3851     \comment{The letter '\k a'.}
3852 \endsetslot
3853
3854 \setslot{\lctop{Cacute}{cacute}}
3855     \comment{The letter '\' c'.}
3856 \endsetslot
3857
3858 \setslot{\lctop{Ccaron}{ccaron}}
3859     \comment{The letter '\v c'.}
3860 \endsetslot
3861
3862 \setslot{\lctop{Dcaron}{dcaron}}
3863     \comment{The letter '\v d'.}
3864 \endsetslot
3865
3866 \setslot{\lctop{Ecaron}{ecaron}}
3867     \comment{The letter '\v e'.}
3868 \endsetslot
3869
3870 \setslot{\lc{Eogonek}{eogonek}}
3871     \comment{The letter '\k e'.}
3872 \endsetslot
3873
3874 \setslot{\lctop{Gbreve}{gbreve}}
3875     \comment{The letter '\u g'.}
3876 \endsetslot
3877
3878 \setslot{\lctop{Lacute}{lacute}}
3879     \comment{The letter '\' l'.}
3880 \endsetslot
3881
3882 \setslot{\lc{Lcaron}{lcaron}}
```

```
3883   \comment{The letter ‘\v l’ .}
3884 \endsetslot
3885
3886 \setslot{\lc{Lslash}{lslash}}
3887   \comment{The letter ‘\l’ .}
3888 \endsetslot
3889
3890 \setslot{\lctop{Nacute}{nacute}}
3891   \comment{The letter ‘\’ n’ .}
3892 \endsetslot
3893
3894 \setslot{\lctop{Ncaron}{ncaron}}
3895   \comment{The letter ‘\v n’ .}
3896 \endsetslot
3897
3898 \setslot{\lc{Eng}{eng}}
3899   \comment{The Sami letter ‘\ng’. It is unavailable in \plain\ TeX. This needs
to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as it is in t1.etx in most cases,
it seems.}
3900 \endsetslot
3901
3902 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
3903   \comment{The letter ‘\H o’ .}
3904 \endsetslot
3905
3906 \setslot{\lctop{Racute}{racute}}
3907   \comment{The letter ‘\’ r’ .}
3908 \endsetslot
3909
3910 \setslot{\lctop{Rcaron}{rcaron}}
3911   \comment{The letter ‘\v r’ .}
3912 \endsetslot
3913
3914 \setslot{\lctop{Sacute}{sacute}}
3915   \comment{The letter ‘\’ s’ .}
3916 \endsetslot
3917
3918 \setslot{\lctop{Scaron}{scaron}}
3919   \comment{The letter ‘\v s’ .}
3920 \endsetslot
3921
3922 \setslot{\lc{Scedilla}{scedilla}}
3923   \comment{The letter ‘\c s’ .}
3924 \endsetslot
3925
3926 \setslot{\lctop{Tcaron}{tcaron}}
3927   \comment{The letter ‘\v t’ .}
3928 \endsetslot
3929
3930 \setslot{\lc{Tcedilla}{tcedilla}}
3931   \comment{The letter ‘\c t’ .}
3932 \endsetslot
3933
3934 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
```

```
3935     \comment{The letter ‘\H u’ .}
3936 \endsetslot
3937
3938 \setslot{\lctop{Uring}{uring}}
3939     \comment{The letter ‘\r u’ .}
3940 \endsetslot
3941
3942 \setslot{\lctop{Ydieresis}{ydieresis}}
3943     \comment{The letter ‘\ " y’ .}
3944 \endsetslot
3945
3946 \setslot{\lctop{Zacute}{zacute}}
3947     \comment{The letter ‘\ ’ z’ .}
3948 \endsetslot
3949
3950 \setslot{\lctop{Zcaron}{zcaron}}
3951     \comment{The letter ‘\ v z’ .}
3952 \endsetslot
3953
3954 \setslot{\lctop{Zdotaccent}{zdotaccent}}
3955     \comment{The letter ‘\ . z’ .}
3956 \endsetslot
3957
3958 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
3959
3960     \setslot{\lclig{IJ}{ij}}
3961         \comment{The letter ‘ij’ . This is a single letter, and in a
3962             monowidth font should ideally be one letter wide.}
3963     \endsetslot
3964
3965 \Fi
3966
3967 \setslot{exclamdown.inferior}
3968     \comment{The Spanish punctuation mark ‘!’ .}
3969 \endsetslot
3970
3971 \setslot{questiondown.inferior}
3972     \comment{The Spanish punctuation mark ‘?’ .}
3973 \endsetslot
3974
3975 \setslot{sterling.inferior}
3976     \comment{The British currency mark ‘\textsterling’ .}
3977 \endsetslot
3978
3979 \setslot{\uctop{Agrave}{agrave}}
3980     \comment{The letter ‘\ ‘ A’ .}
3981 \endsetslot
3982
3983 \setslot{\uctop{Aacute}{aacute}}
3984     \comment{The letter ‘\ ’ A’ .}
3985 \endsetslot
3986
3987 \setslot{\uctop{Acircumflex}{acircumflex}}
3988     \comment{The letter ‘\ ^ A’ .}
```

```
3989 \endsetslot
3990
3991 \setslot{\uctop{Atilde}{atilde}}
3992   \comment{The letter '~ A'.}
3993 \endsetslot
3994
3995 \setslot{\uctop{Adieresis}{adieresis}}
3996   \comment{The letter '" A'.}
3997 \endsetslot
3998
3999 \setslot{\uctop{Aring}{aring}}
4000   \comment{The letter 'r A'.}
4001 \endsetslot
4002
4003 \setslot{\uc{AE}{ae}}
4004   \comment{The letter 'AE'. This is a single letter, and should not be
4005     faked with 'AE'.}
4006 \endsetslot
4007
4008 \setslot{\uc{Ccedilla}{ccedilla}}
4009   \comment{The letter 'c C'.}
4010 \endsetslot
4011
4012 \setslot{\uctop{Egrave}{egrave}}
4013   \comment{The letter '` E'.}
4014 \endsetslot
4015
4016 \setslot{\uctop{Eacute}{eacute}}
4017   \comment{The letter '\` E'.}
4018 \endsetslot
4019
4020 \setslot{\uctop{Ecircumflex}{ecircumflex}}
4021   \comment{The letter '^ E'.}
4022 \endsetslot
4023
4024 \setslot{\uctop{Edieresis}{edieresis}}
4025   \comment{The letter '" E'.}
4026 \endsetslot
4027
4028 \setslot{\uctop{Igrave}{igrave}}
4029   \comment{The letter '` I'.}
4030 \endsetslot
4031
4032 \setslot{\uctop{Iacute}{iacute}}
4033   \comment{The letter '\` I'.}
4034 \endsetslot
4035
4036 \setslot{\uctop{Icircumflex}{icircumflex}}
4037   \comment{The letter '^ I'.}
4038 \endsetslot
4039
4040 \setslot{\uctop{Idieresis}{idieresis}}
4041   \comment{The letter '" I'.}
4042 \endsetslot
```



```
4043
4044 \setslot{\uc{Eth}{eth}}
4045   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
4046     with a horizontal bar through the stem. It is unavailable
4047     in \plain\ TeX.}
4048 \endsetslot
4049
4050 \setslot{\uctop{Ntilde}{ntilde}}
4051   \comment{The letter ‘\~ N’}
4052 \endsetslot
4053
4054 \setslot{\uctop{Ograve}{ograve}}
4055   \comment{The letter ‘\’ O’}
4056 \endsetslot
4057
4058 \setslot{\uctop{Oacute}{oacute}}
4059   \comment{The letter ‘\’ O’}
4060 \endsetslot
4061
4062 \setslot{\uctop{Ocircumflex}{ocircumflex}}
4063   \comment{The letter ‘\^ O’}
4064 \endsetslot
4065
4066 \setslot{\uctop{Otilde}{otilde}}
4067   \comment{The letter ‘\~ O’}
4068 \endsetslot
4069
4070 \setslot{\uctop{Odieresis}{odieresis}}
4071   \comment{The letter ‘\” O’}
4072 \endsetslot
4073
4074 \setslot{\uc{OE}{oe}}
4075   \comment{The letter ‘OE’. This is a single letter, and should not be
4076     faked with ‘OE’}
4077 \endsetslot
4078
4079 \setslot{\uc{Oslash}{oslash}}
4080   \comment{The letter ‘\O’}
4081 \endsetslot
4082
4083 \setslot{\uctop{Ugrave}{ugrave}}
4084   \comment{The letter ‘\’ U’}
4085 \endsetslot
4086
4087 \setslot{\uctop{Uacute}{uacute}}
4088   \comment{The letter ‘\’ U’}
4089 \endsetslot
4090
4091 \setslot{\uctop{Ucircumflex}{ucircumflex}}
4092   \comment{The letter ‘\^ U’}
4093 \endsetslot
4094
4095 \setslot{\uctop{Udieresis}{udieresis}}
4096   \comment{The letter ‘\” U’}
```

```
4097 \endsetslot
4098
4099 \setslot{\uctop{Yacute}{yacute}}
4100   \comment{The letter ‘\’ Y’.}
4101 \endsetslot
4102
4103 \setslot{\uc{Thorn}{thorn}}
4104   \comment{The Icelandic capital letter Thorn, similar to a ‘P’
4105     with the bowl moved down. It is unavailable in \plain\ TeX.}
4106 \endsetslot
4107
4108 \setslot{\uclig{SS}{germandbls}}
4109   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’.
4110     In a monowidth font it should be two letters wide.}
4111 \endsetslot
4112
4113 \setslot{\lctop{Agrave}{agrave}}
4114   \comment{The letter ‘\’ a’.}
4115 \endsetslot
4116
4117 \setslot{\lctop{Aacute}{aacute}}
4118   \comment{The letter ‘\’ a’.}
4119 \endsetslot
4120
4121 \setslot{\lctop{Acircumflex}{acircumflex}}
4122   \comment{The letter ‘\^ a’.}
4123 \endsetslot
4124
4125 \setslot{\lctop{Atilde}{atilde}}
4126   \comment{The letter ‘\~ a’.}
4127 \endsetslot
4128
4129 \setslot{\lctop{Adieresis}{adieresis}}
4130   \comment{The letter ‘\” a’.}
4131 \endsetslot
4132
4133 \setslot{\lctop{Aring}{aring}}
4134   \comment{The letter ‘\r a’.}
4135 \endsetslot
4136
4137 \setslot{\lc{AE}{ae}}
4138   \comment{The letter ‘ae’. This is a single letter, and should not be
4139     faked with ‘ae’.}
4140 \endsetslot
4141
4142 \setslot{\lc{Ccedilla}{ccedilla}}
4143   \comment{The letter ‘\c c’.}
4144 \endsetslot
4145
4146 \setslot{\lctop{Egrave}{egrave}}
4147   \comment{The letter ‘\’ e’.}
4148 \endsetslot
4149
4150 \setslot{\lctop{Eacute}{eacute}}
```

```
4151 \comment{The letter ‘\’ e’.
```

```
4152 \endsetslot
4153
4154 \setslot{\lctop{Ecircumflex}{ecircumflex}}
4155 \comment{The letter ‘^ e’.
```

```
4156 \endsetslot
4157
4158 \setslot{\lctop{Edieresis}{edieresis}}
4159 \comment{The letter ‘" e’.
```

```
4160 \endsetslot
4161
4162 \setslot{\lctop{Igrave}{igrave}}
4163 \comment{The letter ‘\’i’.
```

```
4164 \endsetslot
4165
4166 \setslot{\lctop{Iacute}{iacute}}
4167 \comment{The letter ‘\’i’.
```

```
4168 \endsetslot
4169
4170 \setslot{\lctop{Icircumflex}{icircumflex}}
4171 \comment{The letter ‘^i’.
```

```
4172 \endsetslot
4173
4174 \setslot{\lctop{Idieresis}{idieresis}}
4175 \comment{The letter ‘"i’.
```

```
4176 \endsetslot
4177
4178 \setslot{\lc{Eth}{eth}}
4179 \comment{The Icelandic lowercase letter ‘eth’ similar to
4180 a ‘ $\partial$ ’ with an oblique bar through the stem.
4181 It is unavailable in \plain\ TeX.}
4182 \endsetslot
4183
4184 \setslot{\lctop{Ntilde}{ntilde}}
4185 \comment{The letter ‘~ n’.
```

```
4186 \endsetslot
4187
4188 \setslot{\lctop{Ograve}{ograve}}
4189 \comment{The letter ‘\’ o’.
```

```
4190 \endsetslot
4191
4192 \setslot{\lctop{Oacute}{oacute}}
4193 \comment{The letter ‘\’ o’.
```

```
4194 \endsetslot
4195
4196 \setslot{\lctop{Ocircumflex}{ocircumflex}}
4197 \comment{The letter ‘^ o’.
```

```
4198 \endsetslot
4199
4200 \setslot{\lctop{Otilde}{otilde}}
4201 \comment{The letter ‘~ o’.
```

```
4202 \endsetslot
4203
4204 \setslot{\lctop{Odieresis}{odieresis}}
```

```

4205   \comment{The letter ‘\o’}
4206 \endsetslot
4207
4208 \setslot{\lc{OE}{oe}}
4209   \comment{The letter ‘oe’. This is a single letter, and should not be
4210     faked with ‘oe’}
4211 \endsetslot
4212
4213 \setslot{\lc{Oslash}{oslash}}
4214   \comment{The letter ‘\o’}
4215 \endsetslot
4216
4217 \setslot{\lctop{Ugrave}{ugrave}}
4218   \comment{The letter ‘\’ u’}
4219 \endsetslot
4220
4221 \setslot{\lctop{Uacute}{uacute}}
4222   \comment{The letter ‘\’ u’}
4223 \endsetslot
4224
4225 \setslot{\lctop{Ucircumflex}{ucircumflex}}
4226   \comment{The letter ‘^ u’}
4227 \endsetslot
4228
4229 \setslot{\lctop{Udieresis}{udieresis}}
4230   \comment{The letter ‘\o u’}
4231 \endsetslot
4232
4233 \setslot{\lctop{Yacute}{yacute}}
4234   \comment{The letter ‘\’ y’}
4235 \endsetslot
4236
4237 \setslot{\lc{Thorn}{thorn}}
4238   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
4239     with an ascender rising from the stem. It is unavailable
4240     in \plain\ \TeX.}
4241 \endsetslot
4242
4243 \setslot{\lc{SS}{germandbls}}
4244   \comment{The letter ‘\ss’}
4245 \endsetslot
4246
4247 \endencoding

```

4.3.9 t1-dotinferior.etx

t1-dotinferior.etx (*etx*)

```

4248 %%
4249 %% - The original notices at the top of that file concerning authors,
4250 %% maintenance etc. are replaced by this notice.
4251 %% - The file is renamed.
4252 %% - The encoding name is modified.

```

```

4253 %% - The file is modified to accommodate differences in glyph names.
4254 %% - The file is modified for use in encoding inferiors.
4255 %%
4256 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4257 \relax
4258 \encoding
4259
4260 \needsfontinstversion{1.910}
4261
4262 \setcommand\lc#1#2{#2.inferior}
4263 \setcommand\uc#1#2{#1.inferior}
4264 \setcommand\lctop#1#2{#2.inferior}
4265 \setcommand\uctop#1#2{#1.inferior}
4266 \setcommand\lclig#1#2{#2.inferior}
4267 \ifisint{letterspacing}\then
4268   \ifnumber{\int{letterspacing}}={0}\then \Else
4269     \setcommand\uclig#1#2{#1spaced}
4270     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
4271       you can't see it as \verb|\setcommand| commands are invisible in
4272       the typeset output.}
4273   \Fi
4274 \Fi
4275 \setcommand\uclig#1#2{#1.inferior}
4276 \setcommand\digit#1{#1.inferior}
4277
4278 \ifisint{monowidth}\then
4279   \setint{ligaturing}{0}
4280 \Else
4281   % The following empty line is important to get the formatting
4282   % right here (sigh)! (Remember that it is a \par token.)
4283
4284   \ifisint{letterspacing}\then
4285     \ifnumber{\int{letterspacing}}={0}\then \Else
4286       \setint{ligaturing}{0}
4287     \Fi
4288   \Fi
4289   \setint{ligaturing}{1}
4290 \Fi
4291
4292 \setint{italicslant}{0}
4293 \setint{quad}{1000}
4294 \setint{baselineskip}{1200}
4295
4296 \ifisglyph{x}\then
4297   \setint{xheight}{\height{x}}
4298 \Else
4299   \setint{xheight}{500}
4300 \Fi
4301
4302 \ifisglyph{space}\then
4303   \setint{interword}{\width{space}}
4304 \Else\ifisglyph{i}\then
4305   \setint{interword}{\width{i}}
4306 \Else

```

```
4307     \setint{interword}{333}
4308 \Fi\Fi
4309
4310 \ifisint{monowidth}\then
4311     \setint{stretchword}{0}
4312     \setint{shrinkword}{0}
4313     \setint{extraspace}{\int{interword}}
4314 \Else
4315     \setint{stretchword}{\scale{\int{interword}}{600}}
4316     \setint{shrinkword}{\scale{\int{interword}}{240}}
4317     \setint{extraspace}{\scale{\int{interword}}{240}}
4318 \Fi
4319
4320 \ifisglyph{X}\then
4321     \setint{capheight}{\height{X}}
4322 \Else
4323     \setint{capheight}{750}
4324 \Fi
4325
4326 \ifisglyph{d}\then
4327     \setint{ascender}{\height{d}}
4328 \Else\ifisint{capheight}\then
4329     \setint{ascender}{\int{capheight}}
4330 \Else
4331     \setint{ascender}{750}
4332 \Fi\Fi
4333
4334 \ifisglyph{Aring}\then
4335     \setint{accapheight}{\height{Aring}}
4336 \Else
4337     \setint{accapheight}{999}
4338 \Fi
4339
4340 \ifisint{descender_neg}\then
4341     \setint{descender}{\neg{\int{descender_neg}}}
4342 \Else\ifisglyph{p}\then
4343     \setint{descender}{\depth{p}}
4344 \Else
4345     \setint{descender}{250}
4346 \Fi\Fi
4347
4348 \ifisglyph{Aring}\then
4349     \setint{maxheight}{\height{Aring}}
4350 \Else
4351     \setint{maxheight}{1000}
4352 \Fi
4353
4354 \ifisint{maxdepth_neg}\then
4355     \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
4356 \Else\ifisglyph{j}\then
4357     \setint{maxdepth}{\depth{j}}
4358 \Else
4359     \setint{maxdepth}{250}
4360 \Fi\Fi
```

```

4361
4362 \ifisglyph{six}\then
4363   \setint{digitwidth}{\width{six}}
4364 \Else
4365   \setint{digitwidth}{500}
4366 \Fi
4367
4368 \setint{capstem}{0} % not in AFM files
4369
4370 \setfontdimen{1}{italicslant}      % italic slant
4371 \setfontdimen{2}{interword}       % interword space
4372 \setfontdimen{3}{stretchword}     % interword stretch
4373 \setfontdimen{4}{shrinkword}      % interword shrink
4374 \setfontdimen{5}{xheight}        % x-height
4375 \setfontdimen{6}{quad}           % quad
4376 \setfontdimen{7}{extraspace}     % extra space after .
4377 \setfontdimen{8}{capheight}       % cap height
4378 \setfontdimen{9}{ascender}        % ascender
4379 \setfontdimen{10}{accapheight}    % accented cap height
4380 \setfontdimen{11}{descender}      % descender's depth
4381 \setfontdimen{12}{maxheight}      % max height
4382 \setfontdimen{13}{maxdepth}       % max depth
4383 \setfontdimen{14}{digitwidth}     % digit width
4384 \setfontdimen{15}{verticalstem}   % dominant width of verical stems
4385 \setfontdimen{16}{baselineskip}  % baselineskip
4386
4387 \ifnumber{\int{ligaturing}}<{0}\then
4388   \comment{In this case, the codingscheme can be different from the
4389     default, and therefore we refrain from setting it.}
4390 \Else
4391   \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - DOTINFERIOR}
4392 \Fi
4393
4394 \setslot{\lc{Grave}{grave}}
4395   \comment{The grave accent '\{ }'.}
4396 \endsetslot
4397
4398 \setslot{\lc{Acute}{acute}}
4399   \comment{The acute accent '\{ }'.}
4400 \endsetslot
4401
4402 \setslot{\lc{Circumflex}{circumflex}}
4403   \comment{The circumflex accent '\^{ }'.}
4404 \endsetslot
4405
4406 \setslot{\lc{Tilde}{tilde}}
4407   \comment{The tilde accent '\~{ }'.}
4408 \endsetslot
4409
4410 \setslot{\lc{Dieresis}{dieresis}}
4411   \comment{The umlaut or dieresis accent '\"{}'.}
4412 \endsetslot
4413
4414 \setslot{\lc{Hungarumlaut}{hungarumlaut}}

```

```

4415     \comment{The long Hungarian umlaut ‘\H{’}.}
4416 \endsetslot
4417
4418 \setslot{\lc{Ring}{ring}}
4419     \comment{The ring accent ‘\r{’}.}
4420 \endsetslot
4421
4422 \setslot{\lc{Caron}{caron}}
4423     \comment{The caron or h’a\v cek accent ‘\v{’}.}
4424 \endsetslot
4425
4426 \setslot{\lc{Breve}{breve}}
4427     \comment{The breve accent ‘\u{’}.}
4428 \endsetslot
4429
4430 \setslot{\lc{Macron}{macron}}
4431     \comment{The macron accent ‘\={’}.}
4432 \endsetslot
4433
4434 \setslot{\lc{Dotaccent}{dotaccent}}
4435     \comment{The dot accent ‘\.{’}.}
4436 \endsetslot
4437
4438 \setslot{\lc{Cedilla}{cedilla}}
4439     \comment{The cedilla accent ‘\c {’}.}
4440 \endsetslot
4441
4442 \setslot{\lc{Ogonek}{ogonek}}
4443     \comment{The ogonek accent ‘\k {’}.}
4444 \endsetslot
4445
4446 \setslot{quotesinglbase.inferior}
4447     \comment{A German single quote mark ‘\quotesinglbase’ similar to a comma,
4448             but with different sidebearings.}
4449 \endsetslot
4450
4451 \setslot{guilsinglleft.inferior}
4452     \comment{A French single opening quote mark ‘\guilsinglleft’,
4453             unavailable in \plain\ \TeX.}
4454 \endsetslot
4455
4456 \setslot{guilsinglright.inferior}
4457     \comment{A French single closing quote mark ‘\guilsinglright’,
4458             unavailable in \plain\ \TeX.}
4459 \endsetslot
4460
4461 \setslot{quotedblleft.inferior}
4462     \comment{The English opening quote mark ‘\,\textquotedblleft\,’.}
4463 \endsetslot
4464
4465 \setslot{quotedblright.inferior}
4466     \comment{The English closing quote mark ‘\,\textquotedblright\,’.}
4467 \endsetslot
4468

```



```
4469 \setslot{quotedblbase.inferior}
4470   \comment{A German double quote mark ‘\quotedblbase’ similar to two commas,
4471           but with tighter letterspacing and different sidebearings.}
4472 \endsetslot
4473
4474 \setslot{guillemotleft.inferior}
4475   \comment{A French double opening quote mark ‘\guillemotleft’,
4476           unavailable in \plain\ \TeX.}
4477 \endsetslot
4478
4479 \setslot{guillemotright.inferior}
4480   \comment{A French closing opening quote mark ‘\guillemotright’,
4481           unavailable in \plain\ \TeX.}
4482 \endsetslot
4483
4484 \setslot{endash.inferior}
4485   \ligature{LIG}{hyphen.inferior}{emdash.inferior}
4486   \comment{The number range dash ‘1--9’.
4487           This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be
4488           called ‘endash’ to work right.
4489           The ‘\textendash’.
4490           In a monowidth font, this might be set as ‘\texttt{1{-}9}’.}
4491 \endsetslot
4492
4493 \setslot{emdash.inferior}
4494   \comment{The punctuation dash ‘Oh---boy.’
4495           This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be
4496           called ‘emdash’ to work right.
4497           The ‘\textemdash’.
4498           In a monowidth font, this might be set as ‘\texttt{0h{-}{-}boy.}’}
4499 \endsetslot
4500
4501 \setslot{compwordmark.inferior}
4502   \comment{An invisible glyph, with zero width and depth, but the
4503           height of lowercase letters without ascenders.
4504           It is used to stop ligaturing in words like ‘shelf{}ful’.)}
4505 \endsetslot
4506
4507 \setslot{perthousandzero.inferior}
4508   \comment{A glyph which is placed after ‘\%’ to produce a
4509           ‘per-thousand’, or twice to produce ‘per-ten-thousand’.
4510           Your guess is as good as mine as to what this glyph should look
4511           like in a monowidth font.}
4512 \endsetslot
4513
4514 \setslot{\lc{dotlessI}{dotlessi}}
4515   \comment{A dotless i ‘\i’, used to produce accented letters such as
4516           ‘\=\i’.)}
4517 \endsetslot
4518
4519 \setslot{\lc{dotlessJ}{dotlessj}}
4520   \comment{A dotless j ‘\j’, used to produce accented letters such as
4521           ‘\=\j’. Most non-\TeX\ fonts do not have this glyph.}
4522 \endsetslot
```

```

4523
4524 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
4525
4526 \setslot{\lclig{FF}{ff}}
4527   \ifnumber{\int{ligaturing}}>{0}\then
4528     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
4529     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}
4530   \Fi
4531   \comment{The 'ff' ligature. It should be two characters wide in a
4532     monowidth font.}
4533 \endsetslot
4534
4535 \setslot{\lclig{FI}{fi}}
4536   \comment{The 'fi' ligature. It should be two characters wide in a
4537     monowidth font.}
4538 \endsetslot
4539
4540 \setslot{\lclig{FL}{fl}}
4541   \comment{The 'fl' ligature. It should be two characters wide in a
4542     monowidth font.}
4543 \endsetslot
4544
4545 \setslot{\lclig{FFI}{ffi}}
4546   \comment{The 'ffi' ligature. It should be three characters wide in a
4547     monowidth font.}
4548 \endsetslot
4549
4550 \setslot{\lclig{FFL}{ffl}}
4551   \comment{The 'ffl' ligature. It should be three characters wide in a
4552     monowidth font.}
4553 \endsetslot
4554
4555 \Fi
4556
4557 \setslot{visiblespace.inferior}
4558   \comment{A visible space glyph '\textvisiblespace'.}
4559 \endsetslot
4560
4561 \setslot{exclam.inferior}
4562   \ligature{LIG}{quoteleft.inferior}{exclamdown.inferior}
4563   \comment{The exclamation mark '!'.}
4564 \endsetslot
4565
4566 \setslot{quotedbl.inferior}
4567   \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
4568     included for use in monowidth fonts, or for setting computer
4569     programs. Note that the inclusion of this glyph in this slot
4570     means that \TeX\ documents which used '{\tt\char\'"}' as an
4571     input character will no longer work.}
4572 \endsetslot
4573
4574 \setslot{numbersign.inferior}
4575   \comment{The hash sign '#'.}
4576 \endsetslot

```

```
4577
4578 \setslot{dollar.inferior}
4579   \comment{The dollar sign '\$'.}
4580 \endsetslot
4581
4582 \setslot{percent.inferior}
4583   \comment{The percent sign '\%'.}
4584 \endsetslot
4585
4586 \setslot{ampersand.inferior}
4587   \comment{The ampersand sign '\&'.}
4588 \endsetslot
4589
4590 \setslot{quoteright.inferior}
4591   \ligature{LIG}{quoteright.inferior}{quotedblright.inferior}
4592   \comment{The English closing single quote mark '\,\textquoteright\,'.}
4593 \endsetslot
4594
4595 \setslot{parenleft.inferior}
4596   \comment{The opening parenthesis '(''.}
4597 \endsetslot
4598
4599 \setslot{parenright.inferior}
4600   \comment{The closing parenthesis ')''.}
4601 \endsetslot
4602
4603 \setslot{asterisk.inferior}
4604   \comment{The raised asterisk '*'.}
4605 \endsetslot
4606
4607 \setslot{plus.inferior}
4608   \comment{The addition sign '+'.}
4609 \endsetslot
4610
4611 \setslot{comma.inferior}
4612   \ligature{LIG}{comma.inferior}{quotedblbase.inferior}
4613   \comment{The comma ','.}
4614 \endsetslot
4615
4616 \setslot{hyphen.inferior}
4617   \ligature{LIG}{hyphen.inferior}{endash.inferior}
4618   \ligature{LIG}{hyphenchar.inferior}{hyphenchar.inferior}
4619   \comment{The hyphen '-'.}
4620 \endsetslot
4621
4622 \setslot{period.inferior}
4623   \comment{The period '.'.}
4624 \endsetslot
4625
4626 \setslot{slash.inferior}
4627   \comment{The forward oblique '/'.}
4628 \endsetslot
4629
4630 \setslot{\digit{zero}}
```

```
4631     \comment{The number ‘0’. This (and all the other numerals) may be
4632         old style or ranging digits.}
4633 \endsetslot
4634
4635 \setslot{\digit{one}}
4636     \comment{The number ‘1’..}
4637 \endsetslot
4638
4639 \setslot{\digit{two}}
4640     \comment{The number ‘2’..}
4641 \endsetslot
4642
4643 \setslot{\digit{three}}
4644     \comment{The number ‘3’..}
4645 \endsetslot
4646
4647 \setslot{\digit{four}}
4648     \comment{The number ‘4’..}
4649 \endsetslot
4650
4651 \setslot{\digit{five}}
4652     \comment{The number ‘5’..}
4653 \endsetslot
4654
4655 \setslot{\digit{six}}
4656     \comment{The number ‘6’..}
4657 \endsetslot
4658
4659 \setslot{\digit{seven}}
4660     \comment{The number ‘7’..}
4661 \endsetslot
4662
4663 \setslot{\digit{eight}}
4664     \comment{The number ‘8’..}
4665 \endsetslot
4666
4667 \setslot{\digit{nine}}
4668     \comment{The number ‘9’..}
4669 \endsetslot
4670
4671 \setslot{colon.inferior}
4672     \comment{The colon punctuation mark ‘:’..}
4673 \endsetslot
4674
4675 \setslot{semicolon.inferior}
4676     \comment{The semi-colon punctuation mark ‘;’..}
4677 \endsetslot
4678
4679 \setslot{less.inferior}
4680     \ligature{LIG}{less.inferior}{guillemotleft.inferior}
4681     \comment{The less-than sign ‘\textless’..}
4682 \endsetslot
4683
4684 \setslot{equal.inferior}
```

```
4685     \comment{The equals sign '='.}
4686 \endsetslot
4687
4688 \setslot{greater.inferior}
4689     \ligature{LIG}{greater.inferior}{guillemotright.inferior}
4690     \comment{The greater-than sign '\textgreater'.}
4691 \endsetslot
4692
4693 \setslot{question.inferior}
4694     \ligature{LIG}{quoteleft.inferior}{questiondown.inferior}
4695     \comment{The question mark '?'}.}
4696 \endsetslot
4697
4698 \setslot{at.inferior}
4699     \comment{The at sign '@'}.}
4700 \endsetslot
4701
4702 \setslot{\uc{A}{a}}
4703     \comment{The letter '{A}'.}
4704 \endsetslot
4705
4706 \setslot{\uc{B}{b}}
4707     \comment{The letter '{B}'.}
4708 \endsetslot
4709
4710 \setslot{\uc{C}{c}}
4711     \comment{The letter '{C}'.}
4712 \endsetslot
4713
4714 \setslot{\uc{D}{d}}
4715     \comment{The letter '{D}'.}
4716 \endsetslot
4717
4718 \setslot{\uc{E}{e}}
4719     \comment{The letter '{E}'.}
4720 \endsetslot
4721
4722 \setslot{\uc{F}{f}}
4723     \comment{The letter '{F}'.}
4724 \endsetslot
4725
4726 \setslot{\uc{G}{g}}
4727     \comment{The letter '{G}'.}
4728 \endsetslot
4729
4730 \setslot{\uc{H}{h}}
4731     \comment{The letter '{H}'.}
4732 \endsetslot
4733
4734 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4735
4736 \setslot{\uc{I}{i}}
4737     \comment{The letter '{I}'.}
4738 \endsetslot
```

```
4739
4740 \Fi
4741
4742 \setslot{\uc{J}{j}}
4743   \comment{The letter '{J}'.}
4744 \endsetslot
4745
4746 \setslot{\uc{K}{k}}
4747   \comment{The letter '{K}'.}
4748 \endsetslot
4749
4750 \setslot{\uc{L}{l}}
4751   \comment{The letter '{L}'.}
4752 \endsetslot
4753
4754 \setslot{\uc{M}{m}}
4755   \comment{The letter '{M}'.}
4756 \endsetslot
4757
4758 \setslot{\uc{N}{n}}
4759   \comment{The letter '{N}'.}
4760 \endsetslot
4761
4762 \setslot{\uc{O}{o}}
4763   \comment{The letter '{O}'.}
4764 \endsetslot
4765
4766 \setslot{\uc{P}{p}}
4767   \comment{The letter '{P}'.}
4768 \endsetslot
4769
4770 \setslot{\uc{Q}{q}}
4771   \comment{The letter '{Q}'.}
4772 \endsetslot
4773
4774 \setslot{\uc{R}{r}}
4775   \comment{The letter '{R}'.}
4776 \endsetslot
4777
4778 \setslot{\uc{S}{s}}
4779   \comment{The letter '{S}'.}
4780 \endsetslot
4781
4782 \setslot{\uc{T}{t}}
4783   \comment{The letter '{T}'.}
4784 \endsetslot
4785
4786 \setslot{\uc{U}{u}}
4787   \comment{The letter '{U}'.}
4788 \endsetslot
4789
4790 \setslot{\uc{V}{v}}
4791   \comment{The letter '{V}'.}
4792 \endsetslot
```

```
4793
4794 \setslot{\uc{W}{w}}
4795   \comment{The letter '{W}'.}
4796 \endsetslot
4797
4798 \setslot{\uc{X}{x}}
4799   \comment{The letter '{X}'.}
4800 \endsetslot
4801
4802 \setslot{\uc{Y}{y}}
4803   \comment{The letter '{Y}'.}
4804 \endsetslot
4805
4806 \setslot{\uc{Z}{z}}
4807   \comment{The letter '{Z}'.}
4808 \endsetslot
4809
4810 \setslot{bracketleft.inferior}
4811   \comment{The opening square bracket '['.}
4812 \endsetslot
4813
4814 \setslot{backslash.inferior}
4815   \comment{The backwards oblique '\textbackslash'.}
4816 \endsetslot
4817
4818 \setslot{bracketright.inferior}
4819   \comment{The closing square bracket ']'.}
4820 \endsetslot
4821
4822 \setslot{asciicircum.inferior}
4823   \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
4824   This is included for compatibility with typewriter fonts used
4825   for computer listings.}
4826 \endsetslot
4827
4828 \setslot{underscore.inferior}
4829   \comment{The ASCII underline character '\textunderscore', usually
4830   set on the baseline.
4831   This is included for compatibility with typewriter fonts used
4832   for computer listings.}
4833 \endsetslot
4834
4835 \setslot{quoteleft.inferior}
4836   \ligature{LIG}{quoteleft.inferior}{quotedblleft.inferior}
4837   \comment{The English opening single quote mark '\,\textquoteleft\,'.}
4838 \endsetslot
4839
4840 \setslot{\lc{A}{a}}
4841   \comment{The letter '{a}'.}
4842 \endsetslot
4843
4844 \setslot{\lc{B}{b}}
4845   \comment{The letter '{b}'.}
4846 \endsetslot
```

```
4847
4848 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4849
4850   \setslot{\lc{C}{c}}
4851   \comment{The letter ‘{c}’}
4852   \endsetslot
4853
4854 \Fi
4855
4856 \setslot{\lc{D}{d}}
4857   \comment{The letter ‘{d}’}
4858 \endsetslot
4859
4860 \setslot{\lc{E}{e}}
4861   \comment{The letter ‘{e}’}
4862 \endsetslot
4863
4864 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4865
4866   \setslot{\lc{F}{f}}
4867   \ifnumber{\int{ligaturing}}>{0}\then
4868     \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
4869     \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
4870     \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
4871   \Fi
4872   \comment{The letter ‘{f}’}
4873   \endsetslot
4874
4875 \Fi
4876
4877 \setslot{\lc{G}{g}}
4878   \comment{The letter ‘{g}’}
4879 \endsetslot
4880
4881 \setslot{\lc{H}{h}}
4882   \comment{The letter ‘{h}’}
4883 \endsetslot
4884
4885 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4886
4887   \setslot{\lc{I}{i}}
4888   \comment{The letter ‘{i}’}
4889   \endsetslot
4890
4891 \Fi
4892
4893 \setslot{\lc{J}{j}}
4894   \comment{The letter ‘{j}’}
4895 \endsetslot
4896
4897 \setslot{\lc{K}{k}}
4898   \comment{The letter ‘{k}’}
4899 \endsetslot
4900
```



```
4901 \setslot{\lc{L}{l}}
4902   \comment{The letter '{l}'.}
4903 \endsetslot
4904
4905 \setslot{\lc{M}{m}}
4906   \comment{The letter '{m}'.}
4907 \endsetslot
4908
4909 \setslot{\lc{N}{n}}
4910   \comment{The letter '{n}'.}
4911 \endsetslot
4912
4913 \setslot{\lc{O}{o}}
4914   \comment{The letter '{o}'.}
4915 \endsetslot
4916
4917 \setslot{\lc{P}{p}}
4918   \comment{The letter '{p}'.}
4919 \endsetslot
4920
4921 \setslot{\lc{Q}{q}}
4922   \comment{The letter '{q}'.}
4923 \endsetslot
4924
4925 \setslot{\lc{R}{r}}
4926   \comment{The letter '{r}'.}
4927 \endsetslot
4928
4929 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
4930
4931   \setslot{\lc{S}{s}}
4932     \comment{The letter '{s}'.}
4933   \endsetslot
4934
4935 \Fi
4936
4937 \setslot{\lc{T}{t}}
4938   \comment{The letter '{t}'.}
4939 \endsetslot
4940
4941 \setslot{\lc{U}{u}}
4942   \comment{The letter '{u}'.}
4943 \endsetslot
4944
4945 \setslot{\lc{V}{v}}
4946   \comment{The letter '{v}'.}
4947 \endsetslot
4948
4949 \setslot{\lc{W}{w}}
4950   \comment{The letter '{w}'.}
4951 \endsetslot
4952
4953 \setslot{\lc{X}{x}}
4954   \comment{The letter '{x}'.}
```

```
4955 \endsetslot
4956
4957 \setslot{\lc{Y}{y}}
4958   \comment{The letter ‘{y}’}
4959 \endsetslot
4960
4961 \setslot{\lc{Z}{z}}
4962   \comment{The letter ‘{z}’}
4963 \endsetslot
4964
4965 \setslot{braceleft.inferior}
4966   \comment{The opening curly brace ‘\textbraceleft’}
4967 \endsetslot
4968
4969 \setslot{bar.inferior}
4970   \comment{The ASCII vertical bar ‘\textbar’.
4971           This is included for compatibility with typewriter fonts used
4972           for computer listings.}
4973 \endsetslot
4974
4975 \setslot{braceright.inferior}
4976   \comment{The closing curly brace ‘\textbraceright’}
4977 \endsetslot
4978
4979 \setslot{asciitilde.inferior}
4980   \comment{The ASCII tilde ‘\textasciitilde’.
4981           This is included for compatibility with typewriter fonts used
4982           for computer listings.}
4983 \endsetslot
4984
4985 \setslot{hyphenchar.inferior}
4986   \comment{The glyph used for hyphenation in this font, which will
4987           almost always be the same as ‘hyphen’}
4988 \endsetslot
4989
4990 \setslot{\uctop{Abreve}{abreve}}
4991   \comment{The letter ‘\u A’}
4992 \endsetslot
4993
4994 \setslot{\uc{Aogonek}{aogonek}}
4995   \comment{The letter ‘\k A’}
4996 \endsetslot
4997
4998 \setslot{\uctop{Cacute}{cacute}}
4999   \comment{The letter ‘\’ C’}
5000 \endsetslot
5001
5002 \setslot{\uctop{Ccaron}{ccaron}}
5003   \comment{The letter ‘\v C’}
5004 \endsetslot
5005
5006 \setslot{\uctop{Dcaron}{dcaron}}
5007   \comment{The letter ‘\v D’}
5008 \endsetslot
```

```
5009
5010 \setslot{\uctop{Ecaron}{ecaron}}
5011   \comment{The letter ‘\v E’ .}
5012 \endsetslot
5013
5014 \setslot{\uc{Eogonek}{eogonek}}
5015   \comment{The letter ‘\k E’ .}
5016 \endsetslot
5017
5018 \setslot{\uctop{Gbreve}{gbreve}}
5019   \comment{The letter ‘\u G’ .}
5020 \endsetslot
5021
5022 \setslot{\uctop{Lacute}{lacute}}
5023   \comment{The letter ‘\’ L’ .}
5024 \endsetslot
5025
5026 \setslot{\uc{Lcaron}{lcaron}}
5027   \comment{The letter ‘\v L’ .}
5028 \endsetslot
5029
5030 \setslot{\uc{Lslash}{lslash}}
5031   \comment{The letter ‘\L’ .}
5032 \endsetslot
5033
5034 \setslot{\uctop{Nacute}{nacute}}
5035   \comment{The letter ‘\’ N’ .}
5036 \endsetslot
5037
5038 \setslot{\uctop{Ncaron}{ncaron}}
5039   \comment{The letter ‘\v N’ .}
5040 \endsetslot
5041
5042 \setslot{\uc{Eng}{eng}}
5043   \comment{The Sami letter ‘\NG’. It is unavailable in \plain\ TeX. This needs
to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as in t1.etx in most cases, it
seems.}
5044 \endsetslot
5045
5046 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
5047   \comment{The letter ‘\H O’ .}
5048 \endsetslot
5049
5050 \setslot{\uctop{Racute}{racute}}
5051   \comment{The letter ‘\’ R’ .}
5052 \endsetslot
5053
5054 \setslot{\uctop{Rcaron}{rcaron}}
5055   \comment{The letter ‘\v R’ .}
5056 \endsetslot
5057
5058 \setslot{\uctop{Sacute}{sacute}}
5059   \comment{The letter ‘\’ S’ .}
5060 \endsetslot
```

```
5061
5062 \setslot{\uctop{Scaron}{scaron}}
5063   \comment{The letter ‘\v S’ .}
5064 \endsetslot
5065
5066 \setslot{\uc{Scedilla}{scedilla}}
5067   \comment{The letter ‘\c S’ .}
5068 \endsetslot
5069
5070 \setslot{\uctop{Tcaron}{tcaron}}
5071   \comment{The letter ‘\v T’ .}
5072 \endsetslot
5073
5074 \setslot{\uc{Tcedilla}{tcedilla}}
5075   \comment{The letter ‘\c T’ .}
5076 \endsetslot
5077
5078 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
5079   \comment{The letter ‘\H U’ .}
5080 \endsetslot
5081
5082 \setslot{\uctop{Uring}{uring}}
5083   \comment{The letter ‘\r U’ .}
5084 \endsetslot
5085
5086 \setslot{\uctop{Ydieresis}{ydieresis}}
5087   \comment{The letter ‘\ " Y’ .}
5088 \endsetslot
5089
5090 \setslot{\uctop{Zacute}{zacute}}
5091   \comment{The letter ‘\ ’ Z’ .}
5092 \endsetslot
5093
5094 \setslot{\uctop{Zcaron}{zcaron}}
5095   \comment{The letter ‘\v Z’ .}
5096 \endsetslot
5097
5098 \setslot{\uctop{Zdotaccent}{zdotaccent}}
5099   \comment{The letter ‘\ . Z’ .}
5100 \endsetslot
5101
5102 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
5103
5104   \setslot{\uclig{IJ}{ij}}
5105     \comment{The letter ‘IJ’ . This is a single letter, and in a
5106       monowidth font should ideally be one letter wide.}
5107   \endsetslot
5108
5109 \Fi
5110
5111 \setslot{\uctop{Idotaccent}{idotaccent}}
5112   \comment{The letter ‘\ . I’ .}
5113 \endsetslot
5114
```

```
5115 \setslot{\lc{Dbar}{dbar}}
5116   \comment{The letter ‘\dj’..}
5117 \endsetslot
5118
5119 \setslot{section.inferior}
5120   \comment{The section mark ‘\textsection’..}
5121 \endsetslot
5122
5123 \setslot{\lctop{Abreve}{abreve}}
5124   \comment{The letter ‘\u a’..}
5125 \endsetslot
5126
5127 \setslot{\lc{Aogonek}{aogonek}}
5128   \comment{The letter ‘\k a’..}
5129 \endsetslot
5130
5131 \setslot{\lctop{Cacute}{cacute}}
5132   \comment{The letter ‘\’ c’..}
5133 \endsetslot
5134
5135 \setslot{\lctop{Ccaron}{ccaron}}
5136   \comment{The letter ‘\v c’..}
5137 \endsetslot
5138
5139 \setslot{\lctop{Dcaron}{dcaron}}
5140   \comment{The letter ‘\v d’..}
5141 \endsetslot
5142
5143 \setslot{\lctop{Ecaron}{ecaron}}
5144   \comment{The letter ‘\v e’..}
5145 \endsetslot
5146
5147 \setslot{\lc{Eogonek}{eogonek}}
5148   \comment{The letter ‘\k e’..}
5149 \endsetslot
5150
5151 \setslot{\lctop{Gbreve}{gbreve}}
5152   \comment{The letter ‘\u g’..}
5153 \endsetslot
5154
5155 \setslot{\lctop{Lacute}{lacute}}
5156   \comment{The letter ‘\’ l’..}
5157 \endsetslot
5158
5159 \setslot{\lc{Lcaron}{lcaron}}
5160   \comment{The letter ‘\v l’..}
5161 \endsetslot
5162
5163 \setslot{\lc{Lslash}{lslash}}
5164   \comment{The letter ‘\l’..}
5165 \endsetslot
5166
5167 \setslot{\lctop{Nacute}{nacute}}
5168   \comment{The letter ‘\’ n’..}
```

```
5169 \endsetslot
5170
5171 \setslot{\lctop{Ncaron}{ncaron}}
5172   \comment{The letter '\v n'.}
5173 \endsetslot
5174
5175 \setslot{\lc{Eng}{eng}}
5176   \comment{The Sami letter '\ng'. It is unavailable in \plain\ TeX. This needs
5177   to be called 'Eng'/'eng' rather than 'Ng'/'ng' as it is in t1.etx in most cases,
5178   it seems.}
5179 \endsetslot
5180
5181 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
5182   \comment{The letter '\H o'.}
5183 \endsetslot
5184
5185 \setslot{\lctop{Racute}{racute}}
5186   \comment{The letter '\ r'.}
5187 \endsetslot
5188
5189 \setslot{\lctop{Rcaron}{rcaron}}
5190   \comment{The letter '\v r'.}
5191 \endsetslot
5192
5193 \setslot{\lctop{Sacute}{sacute}}
5194   \comment{The letter '\ s'.}
5195 \endsetslot
5196
5197 \setslot{\lctop{Scaron}{scaron}}
5198   \comment{The letter '\v s'.}
5199 \endsetslot
5200
5201 \setslot{\lc{Scedilla}{scedilla}}
5202   \comment{The letter '\c s'.}
5203 \endsetslot
5204
5205 \setslot{\lctop{Tcaron}{tcaron}}
5206   \comment{The letter '\v t'.}
5207 \endsetslot
5208
5209 \setslot{\lc{Tcedilla}{tcedilla}}
5210   \comment{The letter '\c t'.}
5211 \endsetslot
5212
5213 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
5214   \comment{The letter '\H u'.}
5215 \endsetslot
5216
5217 \setslot{\lctop{Uring}{uring}}
5218   \comment{The letter '\r u'.}
5219 \endsetslot
5220
5221 \setslot{\lctop{Ydieresis}{ydieresis}}
5222   \comment{The letter '\ " y'.}
```

```
5221 \endsetslot
5222
5223 \setslot{\lctop{Zacute}{zacute}}
5224   \comment{The letter ‘\’ z’..}
5225 \endsetslot
5226
5227 \setslot{\lctop{Zcaron}{zcaron}}
5228   \comment{The letter ‘\v z’..}
5229 \endsetslot
5230
5231 \setslot{\lctop{Zdotaccent}{zdotaccent}}
5232   \comment{The letter ‘\. z’..}
5233 \endsetslot
5234
5235 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
5236
5237   \setslot{\lclig{IJ}{ij}}
5238     \comment{The letter ‘ij’. This is a single letter, and in a
5239       monowidth font should ideally be one letter wide.}
5240   \endsetslot
5241
5242 \Fi
5243
5244 \setslot{exclamdown.inferior}
5245   \comment{The Spanish punctuation mark ‘!’..}
5246 \endsetslot
5247
5248 \setslot{questiondown.inferior}
5249   \comment{The Spanish punctuation mark ‘?’..}
5250 \endsetslot
5251
5252 \setslot{sterling.inferior}
5253   \comment{The British currency mark ‘\textsterling’..}
5254 \endsetslot
5255
5256 \setslot{\uctop{Agrave}{agrave}}
5257   \comment{The letter ‘\’ A’..}
5258 \endsetslot
5259
5260 \setslot{\uctop{Aacute}{aacute}}
5261   \comment{The letter ‘\’ A’..}
5262 \endsetslot
5263
5264 \setslot{\uctop{Acircumflex}{acircumflex}}
5265   \comment{The letter ‘\^ A’..}
5266 \endsetslot
5267
5268 \setslot{\uctop{Atilde}{atilde}}
5269   \comment{The letter ‘\~ A’..}
5270 \endsetslot
5271
5272 \setslot{\uctop{Adieresis}{adieresis}}
5273   \comment{The letter ‘\” A’..}
5274 \endsetslot
```

```
5275
5276 \setslot{\uctop{Aring}{aring}}
5277   \comment{The letter ‘\r A’ .}
5278 \endsetslot
5279
5280 \setslot{\uc{AE}{ae}}
5281   \comment{The letter ‘\AE’. This is a single letter, and should not be
5282     faked with ‘AE’ .}
5283 \endsetslot
5284
5285 \setslot{\uc{Ccedilla}{ccedilla}}
5286   \comment{The letter ‘\c C’ .}
5287 \endsetslot
5288
5289 \setslot{\uctop{Egrave}{egrave}}
5290   \comment{The letter ‘\‘ E’ .}
5291 \endsetslot
5292
5293 \setslot{\uctop{Eacute}{eacute}}
5294   \comment{The letter ‘\’ E’ .}
5295 \endsetslot
5296
5297 \setslot{\uctop{Ecircumflex}{ecircumflex}}
5298   \comment{The letter ‘\^ E’ .}
5299 \endsetslot
5300
5301 \setslot{\uctop{Edieresis}{edieresis}}
5302   \comment{The letter ‘\ " E’ .}
5303 \endsetslot
5304
5305 \setslot{\uctop{Igrave}{igrave}}
5306   \comment{The letter ‘\‘ I’ .}
5307 \endsetslot
5308
5309 \setslot{\uctop{Iacute}{iacute}}
5310   \comment{The letter ‘\’ I’ .}
5311 \endsetslot
5312
5313 \setslot{\uctop{Icircumflex}{icircumflex}}
5314   \comment{The letter ‘\^ I’ .}
5315 \endsetslot
5316
5317 \setslot{\uctop{Idieresis}{idieresis}}
5318   \comment{The letter ‘\ " I’ .}
5319 \endsetslot
5320
5321 \setslot{\uc{Eth}{eth}}
5322   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
5323     with a horizontal bar through the stem. It is unavailable
5324     in \plain\ \TeX .}
5325 \endsetslot
5326
5327 \setslot{\uctop{Ntilde}{ntilde}}
5328   \comment{The letter ‘\~ N’ .}
```



```
5329 \endsetslot
5330
5331 \setslot{\uctop{Ograve}{ograve}}
5332   \comment{The letter ‘\’ O’.
```

```
5333 \endsetslot
5334
5335 \setslot{\uctop{Oacute}{oacute}}
5336   \comment{The letter ‘\’ O’.
```

```
5337 \endsetslot
5338
5339 \setslot{\uctop{Ocircumflex}{ocircumflex}}
5340   \comment{The letter ‘\^ O’.
```

```
5341 \endsetslot
5342
5343 \setslot{\uctop{Otilde}{otilde}}
5344   \comment{The letter ‘\~ O’.
```

```
5345 \endsetslot
5346
5347 \setslot{\uctop{Odieresis}{odieresis}}
5348   \comment{The letter ‘\” O’.
```

```
5349 \endsetslot
5350
5351 \setslot{\uc{OE}{oe}}
5352   \comment{The letter ‘OE’. This is a single letter, and should not be
5353     faked with ‘OE’.
```

```
5354 \endsetslot
5355
5356 \setslot{\uc{Oslash}{oslash}}
5357   \comment{The letter ‘\O’.
```

```
5358 \endsetslot
5359
5360 \setslot{\uctop{Ugrave}{ugrave}}
5361   \comment{The letter ‘\’ U’.
```

```
5362 \endsetslot
5363
5364 \setslot{\uctop{Uacute}{uacute}}
5365   \comment{The letter ‘\’ U’.
```

```
5366 \endsetslot
5367
5368 \setslot{\uctop{Ucircumflex}{ucircumflex}}
5369   \comment{The letter ‘\^ U’.
```

```
5370 \endsetslot
5371
5372 \setslot{\uctop{Udieresis}{udieresis}}
5373   \comment{The letter ‘\” U’.
```

```
5374 \endsetslot
5375
5376 \setslot{\uctop{Yacute}{yacute}}
5377   \comment{The letter ‘\’ Y’.
```

```
5378 \endsetslot
5379
5380 \setslot{\uc{Thorn}{thorn}}
5381   \comment{The Icelandic capital letter Thorn, similar to a ‘P’
5382     with the bowl moved down. It is unavailable in \plain\ \TeX.}
```

```
5383 \endsetslot
5384
5385 \setslot{\uclig{SS}{germandbls}}
5386   \comment{The ligature 'SS', used to give an upper case '\ss'.
5387     In a monowidth font it should be two letters wide.}
5388 \endsetslot
5389
5390 \setslot{\lctop{Agrave}{agrave}}
5391   \comment{The letter '\` a'.}
5392 \endsetslot
5393
5394 \setslot{\lctop{Aacute}{aacute}}
5395   \comment{The letter '\' a'.}
5396 \endsetslot
5397
5398 \setslot{\lctop{Acircumflex}{acircumflex}}
5399   \comment{The letter '\^ a'.}
5400 \endsetslot
5401
5402 \setslot{\lctop{Atilde}{atilde}}
5403   \comment{The letter '\~ a'.}
5404 \endsetslot
5405
5406 \setslot{\lctop{Adieresis}{adieresis}}
5407   \comment{The letter '\" a'.}
5408 \endsetslot
5409
5410 \setslot{\lctop{Aring}{aring}}
5411   \comment{The letter '\r a'.}
5412 \endsetslot
5413
5414 \setslot{\lc{AE}{ae}}
5415   \comment{The letter '\ae'. This is a single letter, and should not be
5416     faked with 'ae'.}
5417 \endsetslot
5418
5419 \setslot{\lc{Ccedilla}{ccedilla}}
5420   \comment{The letter '\c c'.}
5421 \endsetslot
5422
5423 \setslot{\lctop{Egrave}{egrave}}
5424   \comment{The letter '\` e'.}
5425 \endsetslot
5426
5427 \setslot{\lctop{Eacute}{eacute}}
5428   \comment{The letter '\' e'.}
5429 \endsetslot
5430
5431 \setslot{\lctop{Ecircumflex}{ecircumflex}}
5432   \comment{The letter '\^ e'.}
5433 \endsetslot
5434
5435 \setslot{\lctop{Edieresis}{edieresis}}
5436   \comment{The letter '\" e'.}
```

```
5437 \endsetslot
5438
5439 \setslot{\lctop{Igrave}{igrave}}
5440 \comment{The letter '\i'.}
5441 \endsetslot
5442
5443 \setslot{\lctop{Iacute}{iacute}}
5444 \comment{The letter '\i'.}
5445 \endsetslot
5446
5447 \setslot{\lctop{Icircumflex}{icircumflex}}
5448 \comment{The letter '\i'.}
5449 \endsetslot
5450
5451 \setslot{\lctop{Idieresis}{idieresis}}
5452 \comment{The letter '\i'.}
5453 \endsetslot
5454
5455 \setslot{\lc{Eth}{eth}}
5456 \comment{The Icelandic lowercase letter 'eth' similar to
5457 a '$\partial$' with an oblique bar through the stem.
5458 It is unavailable in \plain\TeX.}
5459 \endsetslot
5460
5461 \setslot{\lctop{Ntilde}{ntilde}}
5462 \comment{The letter '\~ n'.}
5463 \endsetslot
5464
5465 \setslot{\lctop{Ograve}{ograve}}
5466 \comment{The letter '\o'.}
5467 \endsetslot
5468
5469 \setslot{\lctop{Oacute}{oacute}}
5470 \comment{The letter '\o'.}
5471 \endsetslot
5472
5473 \setslot{\lctop{Ocircumflex}{ocircumflex}}
5474 \comment{The letter '\o'.}
5475 \endsetslot
5476
5477 \setslot{\lctop{Otilde}{otilde}}
5478 \comment{The letter '\~ o'.}
5479 \endsetslot
5480
5481 \setslot{\lctop{Odieresis}{odieresis}}
5482 \comment{The letter '\o'.}
5483 \endsetslot
5484
5485 \setslot{\lc{OE}{oe}}
5486 \comment{The letter '\oe'. This is a single letter, and should not be
5487 faked with 'oe'.}
5488 \endsetslot
5489
5490 \setslot{\lc{Oslash}{oslash}}
```

```

5491     \comment{The letter ‘\o’.)}
5492 \endsetslot
5493
5494 \setslot{\lctop{Ugrave}{ugrave}}
5495     \comment{The letter ‘\’ u’.)}
5496 \endsetslot
5497
5498 \setslot{\lctop{Uacute}{uacute}}
5499     \comment{The letter ‘\’ u’.)}
5500 \endsetslot
5501
5502 \setslot{\lctop{Ucircumflex}{ucircumflex}}
5503     \comment{The letter ‘\^ u’.)}
5504 \endsetslot
5505
5506 \setslot{\lctop{Udieresis}{udieresis}}
5507     \comment{The letter ‘\ " u’.)}
5508 \endsetslot
5509
5510 \setslot{\lctop{Yacute}{yacute}}
5511     \comment{The letter ‘\’ y’.)}
5512 \endsetslot
5513
5514 \setslot{\lc{Thorn}{thorn}}
5515     \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
5516             with an ascender rising from the stem. It is unavailable
5517             in \plain\ \TeX.}
5518 \endsetslot
5519
5520 \setslot{\lc{SS}{germandbls}}
5521     \comment{The letter ‘\ss’.)}
5522 \endsetslot
5523
5524 \endencoding

```

4.3.10 t1-dotsup.etx

t1-dotsup.etx (*etx*)

```

5525 %%
5526 %% - The original notices at the top of that file concerning authors,
5527 %% maintenance etc. are replaced by this notice.
5528 %% - The file is renamed.
5529 %% - The encoding name is modified.
5530 %% - The file is modified to accommodate differences in glyph names.
5531 %% - The file is modified for use in encoding superiors.
5532 %%
5533 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
5534 \relax
5535 \encoding
5536
5537 \needsfontinstversion{1.910}
5538

```

```

5539 \setcommand\lc#1#2{#2.superior}
5540 \setcommand\uc#1#2{#1.superior}
5541 \setcommand\lctop#1#2{#2.superior}
5542 \setcommand\uctop#1#2{#1.superior}
5543 \setcommand\lclig#1#2{#2.superior}
5544 \ifisint{letterspacing}\then
5545   \ifnumber{\int{letterspacing}}={0}\then \Else
5546     \setcommand\uclig#1#2{#1spaced}
5547     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
5548     you can't see it as \verb|\setcommand| commands are invisible in
5549     the typeset output.}
5550   \Fi
5551 \Fi
5552 \setcommand\uclig#1#2{#1.superior}
5553 \setcommand\digit#1{#1.superior}
5554
5555 \ifisint{monowidth}\then
5556   \setint{ligaturing}{0}
5557 \Else
5558   % The following empty line is important to get the formatting
5559   % right here (sigh)! (Remember that it is a \par token.)
5560
5561   \ifisint{letterspacing}\then
5562     \ifnumber{\int{letterspacing}}={0}\then \Else
5563       \setint{ligaturing}{0}
5564     \Fi
5565   \Fi
5566   \setint{ligaturing}{1}
5567 \Fi
5568
5569 \setint{italicslant}{0}
5570 \setint{quad}{1000}
5571 \setint{baselineskip}{1200}
5572
5573 \ifisglyph{x}\then
5574   \setint{xheight}{\height{x}}
5575 \Else
5576   \setint{xheight}{500}
5577 \Fi
5578
5579 \ifisglyph{space}\then
5580   \setint{interword}{\width{space}}
5581 \Else\ifisglyph{i}\then
5582   \setint{interword}{\width{i}}
5583 \Else
5584   \setint{interword}{333}
5585 \Fi\Fi
5586
5587 \ifisint{monowidth}\then
5588   \setint{stretchword}{0}
5589   \setint{shrinkword}{0}
5590   \setint{extraspace}{\int{interword}}
5591 \Else
5592   \setint{stretchword}{\scale{\int{interword}}{600}}

```

```
5593 \setint{shrinkword}{\scale{\int{interword}}{240}}
5594 \setint{extraspace}{\scale{\int{interword}}{240}}
5595 \Fi
5596
5597 \ifisglyph{X}\then
5598 \setint{capheight}{\height{X}}
5599 \Else
5600 \setint{capheight}{750}
5601 \Fi
5602
5603 \ifisglyph{d}\then
5604 \setint{ascender}{\height{d}}
5605 \Else\ifisint{capheight}\then
5606 \setint{ascender}{\int{capheight}}
5607 \Else
5608 \setint{ascender}{750}
5609 \Fi\Fi
5610
5611 \ifisglyph{Aring}\then
5612 \setint{accapheight}{\height{Aring}}
5613 \Else
5614 \setint{accapheight}{999}
5615 \Fi
5616
5617 \ifisint{descender_neg}\then
5618 \setint{descender}{\neg{\int{descender_neg}}}
5619 \Else\ifisglyph{p}\then
5620 \setint{descender}{\depth{p}}
5621 \Else
5622 \setint{descender}{250}
5623 \Fi\Fi
5624
5625 \ifisglyph{Aring}\then
5626 \setint{maxheight}{\height{Aring}}
5627 \Else
5628 \setint{maxheight}{1000}
5629 \Fi
5630
5631 \ifisint{maxdepth_neg}\then
5632 \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
5633 \Else\ifisglyph{j}\then
5634 \setint{maxdepth}{\depth{j}}
5635 \Else
5636 \setint{maxdepth}{250}
5637 \Fi\Fi
5638
5639 \ifisglyph{six}\then
5640 \setint{digitwidth}{\width{six}}
5641 \Else
5642 \setint{digitwidth}{500}
5643 \Fi
5644
5645 \setint{capstem}{0} % not in AFM files
5646
```

```

5647 \setfontdimen{1}{italicslant} % italic slant
5648 \setfontdimen{2}{interword} % interword space
5649 \setfontdimen{3}{stretchword} % interword stretch
5650 \setfontdimen{4}{shrinkword} % interword shrink
5651 \setfontdimen{5}{xheight} % x-height
5652 \setfontdimen{6}{quad} % quad
5653 \setfontdimen{7}{extraspace} % extra space after .
5654 \setfontdimen{8}{capheight} % cap height
5655 \setfontdimen{9}{ascender} % ascender
5656 \setfontdimen{10}{accapheight} % accented cap height
5657 \setfontdimen{11}{descender} % descender's depth
5658 \setfontdimen{12}{maxheight} % max height
5659 \setfontdimen{13}{maxdepth} % max depth
5660 \setfontdimen{14}{digitwidth} % digit width
5661 \setfontdimen{15}{verticalstem} % dominant width of verical stems
5662 \setfontdimen{16}{baselineskip} % baselineskip
5663
5664 \ifnumber{\int{ligaturing}}<{0}\then
5665 \comment{In this case, the codingscheme can be different from the
5666 default, and therefore we refrain from setting it.}
5667 \Else
5668 \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - DOTSUP}
5669 \Fi
5670
5671 \setslot{\lc{Grave}{grave}}
5672 \comment{The grave accent '\{ }'.}
5673 \endsetslot
5674
5675 \setslot{\lc{Acute}{acute}}
5676 \comment{The acute accent '\{ }'.}
5677 \endsetslot
5678
5679 \setslot{\lc{Circumflex}{circumflex}}
5680 \comment{The circumflex accent '\^{ }'.}
5681 \endsetslot
5682
5683 \setslot{\lc{Tilde}{tilde}}
5684 \comment{The tilde accent '\~{ }'.}
5685 \endsetslot
5686
5687 \setslot{\lc{Dieresis}{dieresis}}
5688 \comment{The umlaut or dieresis accent '\"{}'.}
5689 \endsetslot
5690
5691 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
5692 \comment{The long Hungarian umlaut '\H{}'.}
5693 \endsetslot
5694
5695 \setslot{\lc{Ring}{ring}}
5696 \comment{The ring accent '\r{}'.}
5697 \endsetslot
5698
5699 \setslot{\lc{Caron}{caron}}
5700 \comment{The caron or h'a\v cek accent '\v{}'.}

```

```
5701 \endsetslot
5702
5703 \setslot{\lc{Breve}{breve}}
5704   \comment{The breve accent '\u{ }'.}
5705 \endsetslot
5706
5707 \setslot{\lc{Macron}{macron}}
5708   \comment{The macron accent '\={ }'.}
5709 \endsetslot
5710
5711 \setslot{\lc{Dotaccent}{dotaccent}}
5712   \comment{The dot accent '\. { }'.}
5713 \endsetslot
5714
5715 \setslot{\lc{Cedilla}{cedilla}}
5716   \comment{The cedilla accent '\c { }'.}
5717 \endsetslot
5718
5719 \setslot{\lc{Ogonek}{ogonek}}
5720   \comment{The ogonek accent '\k { }'.}
5721 \endsetslot
5722
5723 \setslot{quotesinglbase.superior}
5724   \comment{A German single quote mark 'quotesinglbase' similar to a comma,
5725             but with different sidebearings.}
5726 \endsetslot
5727
5728 \setslot{guilsinglleft.superior}
5729   \comment{A French single opening quote mark 'guilsinglleft',
5730             unavailable in \plain\ \TeX.}
5731 \endsetslot
5732
5733 \setslot{guilsinglright.superior}
5734   \comment{A French single closing quote mark 'guilsinglright',
5735             unavailable in \plain\ \TeX.}
5736 \endsetslot
5737
5738 \setslot{quotedblleft.superior}
5739   \comment{The English opening quote mark '\,\textquotedblleft\,'.}
5740 \endsetslot
5741
5742 \setslot{quotedblright.superior}
5743   \comment{The English closing quote mark '\,\textquotedblright\,'.}
5744 \endsetslot
5745
5746 \setslot{quotedblbase.superior}
5747   \comment{A German double quote mark '\quotedblbase' similar to two commas,
5748             but with tighter letterspacing and different sidebearings.}
5749 \endsetslot
5750
5751 \setslot{guillemotleft.superior}
5752   \comment{A French double opening quote mark 'guillemotleft',
5753             unavailable in \plain\ \TeX.}
5754 \endsetslot
```



```

5755
5756 \setslot{guillemotright.superior}
5757   \comment{A French closing opening quote mark ‘\guillemotright’,
5758           unavailable in \plain\TeX.}
5759 \endsetslot
5760
5761 \setslot{endash.superior}
5762   \ligature{LIG}{hyphen.superior}{emdash.superior}
5763   \comment{The number range dash ‘1--9’.
5764           This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be
5765           called ‘endash’ to work right.
5766           The ‘\textendash’.
5767           In a monowidth font, this might be set as ‘\texttt{1{-}9}’.}
5768 \endsetslot
5769
5770 \setslot{emdash.superior}
5771   \comment{The punctuation dash ‘Oh---boy.’
5772           This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be
5773           called ‘emdash’ to work right.
5774           The ‘\textemdash’.
5775           In a monowidth font, this might be set as ‘\texttt{Oh{-}{-}boy.}’}
5776 \endsetslot
5777
5778 \setslot{compwordmark.superior}
5779   \comment{An invisible glyph, with zero width and depth, but the
5780           height of lowercase letters without ascenders.
5781           It is used to stop ligaturing in words like ‘shelf{}ful’..}
5782 \endsetslot
5783
5784 \setslot{perthousandzero.superior}
5785   \comment{A glyph which is placed after ‘\%’ to produce a
5786           ‘per-thousand’, or twice to produce ‘per-ten-thousand’.
5787           Your guess is as good as mine as to what this glyph should look
5788           like in a monowidth font.}
5789 \endsetslot
5790
5791 \setslot{\lc{dotlessI}{dotlessi}}
5792   \comment{A dotless i ‘\i’, used to produce accented letters such as
5793           ‘\=i’..}
5794 \endsetslot
5795
5796 \setslot{\lc{dotlessJ}{dotlessj}}
5797   \comment{A dotless j ‘\j’, used to produce accented letters such as
5798           ‘\=j’. Most non-\TeX\ fonts do not have this glyph.}
5799 \endsetslot
5800
5801 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
5802
5803 \setslot{\lclig{FF}{ff}}
5804   \ifnumber{\int{ligaturing}}>{0}\then
5805     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
5806     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}
5807   \Fi
5808   \comment{The ‘ff’ ligature. It should be two characters wide in a

```

```
5809     monowidth font.}
5810 \endsetslot
5811
5812 \setslot{\lclig{FI}{fi}}
5813   \comment{The 'fi' ligature. It should be two characters wide in a
5814     monowidth font.}
5815 \endsetslot
5816
5817 \setslot{\lclig{FL}{fl}}
5818   \comment{The 'fl' ligature. It should be two characters wide in a
5819     monowidth font.}
5820 \endsetslot
5821
5822 \setslot{\lclig{FFI}{ffi}}
5823   \comment{The 'ffi' ligature. It should be three characters wide in a
5824     monowidth font.}
5825 \endsetslot
5826
5827 \setslot{\lclig{FFL}{ffl}}
5828   \comment{The 'ffl' ligature. It should be three characters wide in a
5829     monowidth font.}
5830 \endsetslot
5831
5832 \Fi
5833
5834 \setslot{visiblespace.superior}
5835   \comment{A visible space glyph '\textvisiblespace'.}
5836 \endsetslot
5837
5838 \setslot{exclam.superior}
5839   \ligature{LIG}{quoteleft.superior}{exclamdown.superior}
5840   \comment{The exclamation mark '!'.}
5841 \endsetslot
5842
5843 \setslot{quotedbl.superior}
5844   \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
5845     included for use in monowidth fonts, or for setting computer
5846     programs. Note that the inclusion of this glyph in this slot
5847     means that \TeX\ documents which used '{\tt\char\"}' as an
5848     input character will no longer work.}
5849 \endsetslot
5850
5851 \setslot{numbersign.superior}
5852   \comment{The hash sign '\#'.}
5853 \endsetslot
5854
5855 \setslot{dollar.superior}
5856   \comment{The dollar sign '\$'.}
5857 \endsetslot
5858
5859 \setslot{percent.superior}
5860   \comment{The percent sign '\%'.}
5861 \endsetslot
5862
```

```
5863 \setslot{ampersand.superior}
5864   \comment{The ampersand sign ‘&’.}
5865 \endsetslot
5866
5867 \setslot{quoteright.superior}
5868   \ligature{LIG}{quoteright.superior}{quotedblright.superior}
5869   \comment{The English closing single quote mark ‘\,\textquoteright\,’.}
5870 \endsetslot
5871
5872 \setslot{parenleft.superior}
5873   \comment{The opening parenthesis ‘(’..}
5874 \endsetslot
5875
5876 \setslot{parenright.superior}
5877   \comment{The closing parenthesis ‘)’..}
5878 \endsetslot
5879
5880 \setslot{asterisk.superior}
5881   \comment{The raised asterisk ‘*’..}
5882 \endsetslot
5883
5884 \setslot{plus.superior}
5885   \comment{The addition sign ‘+’..}
5886 \endsetslot
5887
5888 \setslot{comma.superior}
5889   \ligature{LIG}{comma.superior}{quotedblbase.superior}
5890   \comment{The comma ‘,’..}
5891 \endsetslot
5892
5893 \setslot{hyphen.superior}
5894   \ligature{LIG}{hyphen.superior}{endash.superior}
5895   \ligature{LIG}{hyphenchar.superior}{hyphenchar.superior}
5896   \comment{The hyphen ‘-’..}
5897 \endsetslot
5898
5899 \setslot{period.superior}
5900   \comment{The period ‘.’..}
5901 \endsetslot
5902
5903 \setslot{slash.superior}
5904   \comment{The forward oblique ‘/’..}
5905 \endsetslot
5906
5907 \setslot{\digit{zero}}
5908   \comment{The number ‘0’. This (and all the other numerals) may be
5909     old style or ranging digits.}
5910 \endsetslot
5911
5912 \setslot{\digit{one}}
5913   \comment{The number ‘1’..}
5914 \endsetslot
5915
5916 \setslot{\digit{two}}
```

```
5917   \comment{The number '2'.}
5918 \endsetslot
5919
5920 \setslot{\digit{three}}
5921   \comment{The number '3'.}
5922 \endsetslot
5923
5924 \setslot{\digit{four}}
5925   \comment{The number '4'.}
5926 \endsetslot
5927
5928 \setslot{\digit{five}}
5929   \comment{The number '5'.}
5930 \endsetslot
5931
5932 \setslot{\digit{six}}
5933   \comment{The number '6'.}
5934 \endsetslot
5935
5936 \setslot{\digit{seven}}
5937   \comment{The number '7'.}
5938 \endsetslot
5939
5940 \setslot{\digit{eight}}
5941   \comment{The number '8'.}
5942 \endsetslot
5943
5944 \setslot{\digit{nine}}
5945   \comment{The number '9'.}
5946 \endsetslot
5947
5948 \setslot{colon.superior}
5949   \comment{The colon punctuation mark ':'}.}
5950 \endsetslot
5951
5952 \setslot{semicolon.superior}
5953   \comment{The semi-colon punctuation mark ';'}.}
5954 \endsetslot
5955
5956 \setslot{less.superior}
5957   \ligature{LIG}{less.superior}{guillemotleft.superior}
5958   \comment{The less-than sign '\textless'}.}
5959 \endsetslot
5960
5961 \setslot{equal.superior}
5962   \comment{The equals sign '='}.}
5963 \endsetslot
5964
5965 \setslot{greater.superior}
5966   \ligature{LIG}{greater.superior}{guillemotright.superior}
5967   \comment{The greater-than sign '\textgreater'}.}
5968 \endsetslot
5969
5970 \setslot{question.superior}
```

```
5971 \ligature{LIG}{quoteleft.superior}{questiondown.superior}
5972 \comment{The question mark '?' .}
5973 \endsetslot
5974
5975 \setslot{at.superior}
5976 \comment{The at sign '@' .}
5977 \endsetslot
5978
5979 \setslot{\uc{A}{a}}
5980 \comment{The letter '{A}' .}
5981 \endsetslot
5982
5983 \setslot{\uc{B}{b}}
5984 \comment{The letter '{B}' .}
5985 \endsetslot
5986
5987 \setslot{\uc{C}{c}}
5988 \comment{The letter '{C}' .}
5989 \endsetslot
5990
5991 \setslot{\uc{D}{d}}
5992 \comment{The letter '{D}' .}
5993 \endsetslot
5994
5995 \setslot{\uc{E}{e}}
5996 \comment{The letter '{E}' .}
5997 \endsetslot
5998
5999 \setslot{\uc{F}{f}}
6000 \comment{The letter '{F}' .}
6001 \endsetslot
6002
6003 \setslot{\uc{G}{g}}
6004 \comment{The letter '{G}' .}
6005 \endsetslot
6006
6007 \setslot{\uc{H}{h}}
6008 \comment{The letter '{H}' .}
6009 \endsetslot
6010
6011 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
6012
6013 \setslot{\uc{I}{i}}
6014 \comment{The letter '{I}' .}
6015 \endsetslot
6016
6017 \Fi
6018
6019 \setslot{\uc{J}{j}}
6020 \comment{The letter '{J}' .}
6021 \endsetslot
6022
6023 \setslot{\uc{K}{k}}
6024 \comment{The letter '{K}' .}
```

```
6025 \endsetslot
6026
6027 \setslot{\uc{L}{l}}
6028   \comment{The letter '{L}'.}
6029 \endsetslot
6030
6031 \setslot{\uc{M}{m}}
6032   \comment{The letter '{M}'.}
6033 \endsetslot
6034
6035 \setslot{\uc{N}{n}}
6036   \comment{The letter '{N}'.}
6037 \endsetslot
6038
6039 \setslot{\uc{O}{o}}
6040   \comment{The letter '{O}'.}
6041 \endsetslot
6042
6043 \setslot{\uc{P}{p}}
6044   \comment{The letter '{P}'.}
6045 \endsetslot
6046
6047 \setslot{\uc{Q}{q}}
6048   \comment{The letter '{Q}'.}
6049 \endsetslot
6050
6051 \setslot{\uc{R}{r}}
6052   \comment{The letter '{R}'.}
6053 \endsetslot
6054
6055 \setslot{\uc{S}{s}}
6056   \comment{The letter '{S}'.}
6057 \endsetslot
6058
6059 \setslot{\uc{T}{t}}
6060   \comment{The letter '{T}'.}
6061 \endsetslot
6062
6063 \setslot{\uc{U}{u}}
6064   \comment{The letter '{U}'.}
6065 \endsetslot
6066
6067 \setslot{\uc{V}{v}}
6068   \comment{The letter '{V}'.}
6069 \endsetslot
6070
6071 \setslot{\uc{W}{w}}
6072   \comment{The letter '{W}'.}
6073 \endsetslot
6074
6075 \setslot{\uc{X}{x}}
6076   \comment{The letter '{X}'.}
6077 \endsetslot
6078
```

```
6079 \setslot{\uc{Y}{y}}
6080   \comment{The letter '{Y}' .}
6081 \endsetslot
6082
6083 \setslot{\uc{Z}{z}}
6084   \comment{The letter '{Z}' .}
6085 \endsetslot
6086
6087 \setslot{bracketleft.superior}
6088   \comment{The opening square bracket '[' .}
6089 \endsetslot
6090
6091 \setslot{backslash.superior}
6092   \comment{The backwards oblique '\textbackslash' .}
6093 \endsetslot
6094
6095 \setslot{bracketright.superior}
6096   \comment{The closing square bracket ']' .}
6097 \endsetslot
6098
6099 \setslot{asciicircum.superior}
6100   \comment{The ASCII upward-pointing arrow head '\textasciicircum' .
6101   This is included for compatibility with typewriter fonts used
6102   for computer listings .}
6103 \endsetslot
6104
6105 \setslot{underscore.superior}
6106   \comment{The ASCII underline character '\textunderscore', usually
6107   set on the baseline.
6108   This is included for compatibility with typewriter fonts used
6109   for computer listings .}
6110 \endsetslot
6111
6112 \setslot{quoteleft.superior}
6113   \ligature{LIG}{quoteleft.superior}{quotedblleft.superior}
6114   \comment{The English opening single quote mark '\,\textquoteleft\,' .}
6115 \endsetslot
6116
6117 \setslot{\lc{A}{a}}
6118   \comment{The letter '{a}' .}
6119 \endsetslot
6120
6121 \setslot{\lc{B}{b}}
6122   \comment{The letter '{b}' .}
6123 \endsetslot
6124
6125 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
6126
6127   \setslot{\lc{C}{c}}
6128     \comment{The letter '{c}' .}
6129   \endsetslot
6130
6131 \Fi
6132
```

```

6133 \setslot{\lc{D}{d}}
6134   \comment{The letter '{d}'.}
6135 \endsetslot
6136
6137 \setslot{\lc{E}{e}}
6138   \comment{The letter '{e}'.}
6139 \endsetslot
6140
6141 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
6142
6143   \setslot{\lc{F}{f}}
6144     \ifnumber{\int{ligaturing}}>{0}\then
6145       \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
6146       \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
6147       \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
6148     \Fi
6149     \comment{The letter '{f}'.}
6150   \endsetslot
6151
6152 \Fi
6153
6154 \setslot{\lc{G}{g}}
6155   \comment{The letter '{g}'.}
6156 \endsetslot
6157
6158 \setslot{\lc{H}{h}}
6159   \comment{The letter '{h}'.}
6160 \endsetslot
6161
6162 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
6163
6164   \setslot{\lc{I}{i}}
6165     \comment{The letter '{i}'.}
6166   \endsetslot
6167
6168 \Fi
6169
6170 \setslot{\lc{J}{j}}
6171   \comment{The letter '{j}'.}
6172 \endsetslot
6173
6174 \setslot{\lc{K}{k}}
6175   \comment{The letter '{k}'.}
6176 \endsetslot
6177
6178 \setslot{\lc{L}{l}}
6179   \comment{The letter '{l}'.}
6180 \endsetslot
6181
6182 \setslot{\lc{M}{m}}
6183   \comment{The letter '{m}'.}
6184 \endsetslot
6185
6186 \setslot{\lc{N}{n}}

```



```
6187   \comment{The letter '{n}'.}
6188 \endsetslot
6189
6190 \setslot{\lc{O}{o}}
6191   \comment{The letter '{o}'.}
6192 \endsetslot
6193
6194 \setslot{\lc{P}{p}}
6195   \comment{The letter '{p}'.}
6196 \endsetslot
6197
6198 \setslot{\lc{Q}{q}}
6199   \comment{The letter '{q}'.}
6200 \endsetslot
6201
6202 \setslot{\lc{R}{r}}
6203   \comment{The letter '{r}'.}
6204 \endsetslot
6205
6206 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
6207
6208   \setslot{\lc{S}{s}}
6209     \comment{The letter '{s}'.}
6210   \endsetslot
6211
6212 \Fi
6213
6214 \setslot{\lc{T}{t}}
6215   \comment{The letter '{t}'.}
6216 \endsetslot
6217
6218 \setslot{\lc{U}{u}}
6219   \comment{The letter '{u}'.}
6220 \endsetslot
6221
6222 \setslot{\lc{V}{v}}
6223   \comment{The letter '{v}'.}
6224 \endsetslot
6225
6226 \setslot{\lc{W}{w}}
6227   \comment{The letter '{w}'.}
6228 \endsetslot
6229
6230 \setslot{\lc{X}{x}}
6231   \comment{The letter '{x}'.}
6232 \endsetslot
6233
6234 \setslot{\lc{Y}{y}}
6235   \comment{The letter '{y}'.}
6236 \endsetslot
6237
6238 \setslot{\lc{Z}{z}}
6239   \comment{The letter '{z}'.}
6240 \endsetslot
```

```
6241 \setslot{braceleft.superior}
6242 \comment{The opening curly brace '\textbraceleft'.}
6243 \endsetslot
6244
6245 \setslot{bar.superior}
6246 \comment{The ASCII vertical bar '\textbar'.
6247 This is included for compatibility with typewriter fonts used
6248 for computer listings.}
6249 \endsetslot
6250
6251 \setslot{braceright.superior}
6252 \comment{The closing curly brace '\textbraceright'.}
6253 \endsetslot
6254
6255 \setslot{asciitilde.superior}
6256 \comment{The ASCII tilde '\textasciitilde'.
6257 This is included for compatibility with typewriter fonts used
6258 for computer listings.}
6259 \endsetslot
6260
6261 \setslot{hyphenchar.superior}
6262 \comment{The glyph used for hyphenation in this font, which will
6263 almost always be the same as 'hyphen'.}
6264 \endsetslot
6265
6266 \setslot{\uctop{Abreve}{abreve}}
6267 \comment{The letter '\u A'.}
6268 \endsetslot
6269
6270 \setslot{\uc{Aogonek}{aogonek}}
6271 \comment{The letter '\k A'.}
6272 \endsetslot
6273
6274 \setslot{\uctop{Cacute}{cacute}}
6275 \comment{The letter '\ C'.}
6276 \endsetslot
6277
6278 \setslot{\uctop{Ccaron}{ccaron}}
6279 \comment{The letter '\v C'.}
6280 \endsetslot
6281
6282 \setslot{\uctop{Dcaron}{dcaron}}
6283 \comment{The letter '\v D'.}
6284 \endsetslot
6285
6286 \setslot{\uctop{Ecaron}{ecaron}}
6287 \comment{The letter '\v E'.}
6288 \endsetslot
6289
6290 \setslot{\uc{Eogonek}{eogonek}}
6291 \comment{The letter '\k E'.}
6292 \endsetslot
6293
6294
```

```
6295 \setslot{\uctop{Gbreve}{gbreve}}
6296   \comment{The letter ‘\u G’ .}
6297 \endsetslot
6298
6299 \setslot{\uctop{Lacute}{lacute}}
6300   \comment{The letter ‘\’ L’ .}
6301 \endsetslot
6302
6303 \setslot{\uc{Lcaron}{lcaron}}
6304   \comment{The letter ‘\v L’ .}
6305 \endsetslot
6306
6307 \setslot{\uc{Lslash}{lslash}}
6308   \comment{The letter ‘\L’ .}
6309 \endsetslot
6310
6311 \setslot{\uctop{Nacute}{nacute}}
6312   \comment{The letter ‘\’ N’ .}
6313 \endsetslot
6314
6315 \setslot{\uctop{Ncaron}{ncaron}}
6316   \comment{The letter ‘\v N’ .}
6317 \endsetslot
6318
6319 \setslot{\uc{Eng}{eng}}
6320   \comment{The Sami letter ‘\NG’. It is unavailable in \plain\ TeX. This needs
6321     to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as in t1.etx in most cases, it
6322     seems.}
6323 \endsetslot
6324
6325 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
6326   \comment{The letter ‘\H O’ .}
6327 \endsetslot
6328
6329 \setslot{\uctop{Racute}{racute}}
6330   \comment{The letter ‘\’ R’ .}
6331 \endsetslot
6332
6333 \setslot{\uctop{Rcaron}{rcaron}}
6334   \comment{The letter ‘\v R’ .}
6335 \endsetslot
6336
6337 \setslot{\uctop{Sacute}{sacute}}
6338   \comment{The letter ‘\’ S’ .}
6339 \endsetslot
6340
6341 \setslot{\uctop{Scaron}{scaron}}
6342   \comment{The letter ‘\v S’ .}
6343 \endsetslot
6344
6345 \setslot{\uc{Scedilla}{scedilla}}
6346   \comment{The letter ‘\c S’ .}
6347 \endsetslot
```

```
6347 \setslot{\uctop{Tcaron}{tcaron}}
6348   \comment{The letter ‘\v T’ .}
6349 \endsetslot
6350
6351 \setslot{\uc{Tcedilla}{tcedilla}}
6352   \comment{The letter ‘\c T’ .}
6353 \endsetslot
6354
6355 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
6356   \comment{The letter ‘\H U’ .}
6357 \endsetslot
6358
6359 \setslot{\uctop{Uring}{uring}}
6360   \comment{The letter ‘\r U’ .}
6361 \endsetslot
6362
6363 \setslot{\uctop{Ydieresis}{ydieresis}}
6364   \comment{The letter ‘\ " Y’ .}
6365 \endsetslot
6366
6367 \setslot{\uctop{Zacute}{zacute}}
6368   \comment{The letter ‘\ ’ Z’ .}
6369 \endsetslot
6370
6371 \setslot{\uctop{Zcaron}{zcaron}}
6372   \comment{The letter ‘\v Z’ .}
6373 \endsetslot
6374
6375 \setslot{\uctop{Zdotaccent}{zdotaccent}}
6376   \comment{The letter ‘\ . Z’ .}
6377 \endsetslot
6378
6379 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
6380
6381   \setslot{\uclig{IJ}{ij}}
6382     \comment{The letter ‘IJ’ . This is a single letter, and in a
6383       monowidth font should ideally be one letter wide.}
6384   \endsetslot
6385
6386 \Fi
6387
6388 \setslot{\uctop{Idotaccent}{idotaccent}}
6389   \comment{The letter ‘\ . I’ .}
6390 \endsetslot
6391
6392 \setslot{\lc{Dbar}{dbar}}
6393   \comment{The letter ‘\dj’ .}
6394 \endsetslot
6395
6396 \setslot{section.superior}
6397   \comment{The section mark ‘\textsection’ .}
6398 \endsetslot
6399
6400 \setslot{\lctop{Abreve}{abreve}}
```

```
6401   \comment{The letter ‘\u a’ .}
6402 \endsetslot
6403
6404 \setslot{\lc{Aogonek}{aogonek}}
6405   \comment{The letter ‘\k a’ .}
6406 \endsetslot
6407
6408 \setslot{\lctop{Cacute}{cacute}}
6409   \comment{The letter ‘\’ c’ .}
6410 \endsetslot
6411
6412 \setslot{\lctop{Ccaron}{ccaron}}
6413   \comment{The letter ‘\v c’ .}
6414 \endsetslot
6415
6416 \setslot{\lctop{Dcaron}{dcaron}}
6417   \comment{The letter ‘\v d’ .}
6418 \endsetslot
6419
6420 \setslot{\lctop{Ecaron}{ecaron}}
6421   \comment{The letter ‘\v e’ .}
6422 \endsetslot
6423
6424 \setslot{\lc{Eogonek}{eogonek}}
6425   \comment{The letter ‘\k e’ .}
6426 \endsetslot
6427
6428 \setslot{\lctop{Gbreve}{gbreve}}
6429   \comment{The letter ‘\u g’ .}
6430 \endsetslot
6431
6432 \setslot{\lctop{Lacute}{lacute}}
6433   \comment{The letter ‘\’ l’ .}
6434 \endsetslot
6435
6436 \setslot{\lc{Lcaron}{lcaron}}
6437   \comment{The letter ‘\v l’ .}
6438 \endsetslot
6439
6440 \setslot{\lc{Lslash}{lslash}}
6441   \comment{The letter ‘\l’ .}
6442 \endsetslot
6443
6444 \setslot{\lctop{Nacute}{nacute}}
6445   \comment{The letter ‘\’ n’ .}
6446 \endsetslot
6447
6448 \setslot{\lctop{Ncaron}{ncaron}}
6449   \comment{The letter ‘\v n’ .}
6450 \endsetslot
6451
6452 \setslot{\lc{Eng}{eng}}
6453   \comment{The Sami letter ‘\ng’. It is unavailable in \plain\ TeX. This needs
to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as it is in t1.etx in most cases,
```

```
        it seems.}
6454 \endsetslot
6455
6456 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
6457   \comment{The letter ‘\H o’ .}
6458 \endsetslot
6459
6460 \setslot{\lctop{Racute}{racute}}
6461   \comment{The letter ‘\’ r’ .}
6462 \endsetslot
6463
6464 \setslot{\lctop{Rcaron}{rcaron}}
6465   \comment{The letter ‘\v r’ .}
6466 \endsetslot
6467
6468 \setslot{\lctop{Sacute}{sacute}}
6469   \comment{The letter ‘\’ s’ .}
6470 \endsetslot
6471
6472 \setslot{\lctop{Scaron}{scaron}}
6473   \comment{The letter ‘\v s’ .}
6474 \endsetslot
6475
6476 \setslot{\lc{Scedilla}{scedilla}}
6477   \comment{The letter ‘\c s’ .}
6478 \endsetslot
6479
6480 \setslot{\lctop{Tcaron}{tcaron}}
6481   \comment{The letter ‘\v t’ .}
6482 \endsetslot
6483
6484 \setslot{\lc{Tcedilla}{tcedilla}}
6485   \comment{The letter ‘\c t’ .}
6486 \endsetslot
6487
6488 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
6489   \comment{The letter ‘\H u’ .}
6490 \endsetslot
6491
6492 \setslot{\lctop{Uring}{uring}}
6493   \comment{The letter ‘\r u’ .}
6494 \endsetslot
6495
6496 \setslot{\lctop{Ydieresis}{ydieresis}}
6497   \comment{The letter ‘\ " y’ .}
6498 \endsetslot
6499
6500 \setslot{\lctop{Zacute}{zacute}}
6501   \comment{The letter ‘\’ z’ .}
6502 \endsetslot
6503
6504 \setslot{\lctop{Zcaron}{zcaron}}
6505   \comment{The letter ‘\v z’ .}
6506 \endsetslot
```

```
6507
6508 \setslot{\lctop{Zdotaccent}{zdotaccent}}
6509   \comment{The letter '\. z'.}
6510 \endsetslot
6511
6512 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
6513
6514   \setslot{\lclig{IJ}{ij}}
6515     \comment{The letter 'ij'. This is a single letter, and in a
6516       monowidth font should ideally be one letter wide.}
6517   \endsetslot
6518
6519 \Fi
6520
6521 \setslot{exclamdown.superior}
6522   \comment{The Spanish punctuation mark '!''.}
6523 \endsetslot
6524
6525 \setslot{questiondown.superior}
6526   \comment{The Spanish punctuation mark '?''.}
6527 \endsetslot
6528
6529 \setslot{sterling.superior}
6530   \comment{The British currency mark '\textsterling'.}
6531 \endsetslot
6532
6533 \setslot{\uctop{Agrave}{agrave}}
6534   \comment{The letter '\` A'.}
6535 \endsetslot
6536
6537 \setslot{\uctop{Acute}{acute}}
6538   \comment{The letter '\` A'.}
6539 \endsetslot
6540
6541 \setslot{\uctop{Acircumflex}{acircumflex}}
6542   \comment{The letter '\^ A'.}
6543 \endsetslot
6544
6545 \setslot{\uctop{Atilde}{atilde}}
6546   \comment{The letter '\~ A'.}
6547 \endsetslot
6548
6549 \setslot{\uctop{Adieresis}{adieresis}}
6550   \comment{The letter '\" A'.}
6551 \endsetslot
6552
6553 \setslot{\uctop{Aring}{aring}}
6554   \comment{The letter '\r A'.}
6555 \endsetslot
6556
6557 \setslot{\uc{AE}{ae}}
6558   \comment{The letter '\AE'. This is a single letter, and should not be
6559     faked with 'AE'.}
6560 \endsetslot
```

```
6561
6562 \setslot{\uc{Ccedilla}{ccedilla}}
6563   \comment{The letter ‘\c C’ .}
6564 \endsetslot
6565
6566 \setslot{\uctop{Egrave}{egrave}}
6567   \comment{The letter ‘\` E’ .}
6568 \endsetslot
6569
6570 \setslot{\uctop{Eacute}{eacute}}
6571   \comment{The letter ‘\’ E’ .}
6572 \endsetslot
6573
6574 \setslot{\uctop{Ecircumflex}{ecircumflex}}
6575   \comment{The letter ‘\^ E’ .}
6576 \endsetslot
6577
6578 \setslot{\uctop{Edieresis}{edieresis}}
6579   \comment{The letter ‘\ " E’ .}
6580 \endsetslot
6581
6582 \setslot{\uctop{Igrave}{igrave}}
6583   \comment{The letter ‘\` I’ .}
6584 \endsetslot
6585
6586 \setslot{\uctop{Iacute}{iacute}}
6587   \comment{The letter ‘\’ I’ .}
6588 \endsetslot
6589
6590 \setslot{\uctop{Icircumflex}{icircumflex}}
6591   \comment{The letter ‘\^ I’ .}
6592 \endsetslot
6593
6594 \setslot{\uctop{Idieresis}{idieresis}}
6595   \comment{The letter ‘\ " I’ .}
6596 \endsetslot
6597
6598 \setslot{\uc{Eth}{eth}}
6599   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
6600     with a horizontal bar through the stem. It is unavailable
6601     in \plain\ TeX.}
6602 \endsetslot
6603
6604 \setslot{\uctop{Ntilde}{ntilde}}
6605   \comment{The letter ‘\~ N’ .}
6606 \endsetslot
6607
6608 \setslot{\uctop{Ograve}{ograve}}
6609   \comment{The letter ‘\` O’ .}
6610 \endsetslot
6611
6612 \setslot{\uctop{Oacute}{oacute}}
6613   \comment{The letter ‘\’ O’ .}
6614 \endsetslot
```



```
6615
6616 \setslot{\uctop{Ocircumflex}{ocircumflex}}
6617   \comment{The letter ‘ $\hat{O}$ ’}
6618 \endsetslot
6619
6620 \setslot{\uctop{Otilde}{otilde}}
6621   \comment{The letter ‘ $\tilde{O}$ ’}
6622 \endsetslot
6623
6624 \setslot{\uctop{Odieresis}{odieresis}}
6625   \comment{The letter ‘ $\text{ö}$ ’}
6626 \endsetslot
6627
6628 \setslot{\uc{OE}{oe}}
6629   \comment{The letter ‘ $\text{Œ}$ ’. This is a single letter, and should not be
6630     faked with ‘ $\text{Œ}$ ’}
6631 \endsetslot
6632
6633 \setslot{\uc{Oslash}{oslash}}
6634   \comment{The letter ‘ $\text{Ø}$ ’}
6635 \endsetslot
6636
6637 \setslot{\uctop{Ugrave}{ugrave}}
6638   \comment{The letter ‘ $\grave{U}$ ’}
6639 \endsetslot
6640
6641 \setslot{\uctop{Uacute}{uacute}}
6642   \comment{The letter ‘ $\acute{U}$ ’}
6643 \endsetslot
6644
6645 \setslot{\uctop{Ucircumflex}{ucircumflex}}
6646   \comment{The letter ‘ $\hat{U}$ ’}
6647 \endsetslot
6648
6649 \setslot{\uctop{Udieresis}{udieresis}}
6650   \comment{The letter ‘ $\text{ü}$ ’}
6651 \endsetslot
6652
6653 \setslot{\uctop{Yacute}{yacute}}
6654   \comment{The letter ‘ $\acute{Y}$ ’}
6655 \endsetslot
6656
6657 \setslot{\uc{Thorn}{thorn}}
6658   \comment{The Icelandic capital letter Thorn, similar to a ‘ $\text{P}$ ’
6659     with the bowl moved down. It is unavailable in \plain\TeX.}
6660 \endsetslot
6661
6662 \setslot{\uclig{SS}{germandbls}}
6663   \comment{The ligature ‘ $\text{Œ}$ ’, used to give an upper case ‘ $\text{Œ}$ ’.
6664     In a monowidth font it should be two letters wide.}
6665 \endsetslot
6666
6667 \setslot{\lctop{Agrave}{agrave}}
6668   \comment{The letter ‘ $\grave{a}$ ’}
```

```
6669 \endsetslot
6670
6671 \setslot{\lctop{Aacute}{aacute}}
6672   \comment{The letter '\` a'.}
6673 \endsetslot
6674
6675 \setslot{\lctop{Acircumflex}{acircumflex}}
6676   \comment{The letter '\^ a'.}
6677 \endsetslot
6678
6679 \setslot{\lctop{Atilde}{atilde}}
6680   \comment{The letter '\~ a'.}
6681 \endsetslot
6682
6683 \setslot{\lctop{Adieresis}{adieresis}}
6684   \comment{The letter '\" a'.}
6685 \endsetslot
6686
6687 \setslot{\lctop{Aring}{aring}}
6688   \comment{The letter '\r a'.}
6689 \endsetslot
6690
6691 \setslot{\lc{AE}{ae}}
6692   \comment{The letter 'ae'. This is a single letter, and should not be
6693     faked with 'ae'.}
6694 \endsetslot
6695
6696 \setslot{\lc{Ccedilla}{ccedilla}}
6697   \comment{The letter '\c c'.}
6698 \endsetslot
6699
6700 \setslot{\lctop{Egrave}{egrave}}
6701   \comment{The letter '\` e'.}
6702 \endsetslot
6703
6704 \setslot{\lctop{Eacute}{eacute}}
6705   \comment{The letter '\` e'.}
6706 \endsetslot
6707
6708 \setslot{\lctop{Ecircumflex}{ecircumflex}}
6709   \comment{The letter '\^ e'.}
6710 \endsetslot
6711
6712 \setslot{\lctop{Edieresis}{edieresis}}
6713   \comment{The letter '\" e'.}
6714 \endsetslot
6715
6716 \setslot{\lctop{Igrave}{igrave}}
6717   \comment{The letter '\` i'.}
6718 \endsetslot
6719
6720 \setslot{\lctop{Iacute}{iacute}}
6721   \comment{The letter '\` i'.}
6722 \endsetslot
```

```
6723
6724 \setslot{\lctop{Icircumflex}{icircumflex}}
6725   \comment{The letter ‘\^i’.
```

6726 \endsetslot

```
6727
6728 \setslot{\lctop{Idieresis}{idieresis}}
6729   \comment{The letter ‘\i’.
```

6730 \endsetslot

```
6731
6732 \setslot{\lc{Eth}{eth}}
6733   \comment{The Icelandic lowercase letter ‘eth’ similar to
6734     a ‘ $\partial$ ’ with an oblique bar through the stem.
6735     It is unavailable in \plain\TeX.}
```

6736 \endsetslot

```
6737
6738 \setslot{\lctop{Ntilde}{ntilde}}
6739   \comment{The letter ‘\~ n’.
```

6740 \endsetslot

```
6741
6742 \setslot{\lctop{Ograve}{ograve}}
6743   \comment{The letter ‘\‘ o’.
```

6744 \endsetslot

```
6745
6746 \setslot{\lctop{Oacute}{oacute}}
6747   \comment{The letter ‘\’ o’.
```

6748 \endsetslot

```
6749
6750 \setslot{\lctop{Ocircumflex}{ocircumflex}}
6751   \comment{The letter ‘\^ o’.
```

6752 \endsetslot

```
6753
6754 \setslot{\lctop{Otilde}{otilde}}
6755   \comment{The letter ‘\~ o’.
```

6756 \endsetslot

```
6757
6758 \setslot{\lctop{Odieresis}{odieresis}}
6759   \comment{The letter ‘\o’.
```

6760 \endsetslot

```
6761
6762 \setslot{\lc{OE}{oe}}
6763   \comment{The letter ‘oe’. This is a single letter, and should not be
6764     faked with ‘oe’.
```

6765 \endsetslot

```
6766
6767 \setslot{\lc{Oslash}{oslash}}
6768   \comment{The letter ‘\o’.
```

6769 \endsetslot

```
6770
6771 \setslot{\lctop{Ugrave}{ugrave}}
6772   \comment{The letter ‘\‘ u’.
```

6773 \endsetslot

```
6774
6775 \setslot{\lctop{Uacute}{uacute}}
6776   \comment{The letter ‘\’ u’.
```

```

6777 \endsetslot
6778
6779 \setslot{\lctop{Ucircumflex}{ucircumflex}}
6780   \comment{The letter ‘ $\hat{u}$ ’}
6781 \endsetslot
6782
6783 \setslot{\lctop{Udieresis}{udieresis}}
6784   \comment{The letter ‘ $\ddot{u}$ ’}
6785 \endsetslot
6786
6787 \setslot{\lctop{Yacute}{yacute}}
6788   \comment{The letter ‘ $\acute{y}$ ’}
6789 \endsetslot
6790
6791 \setslot{\lc{Thorn}{thorn}}
6792   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
6793     with an ascender rising from the stem. It is unavailable
6794     in \plain\ \TeX.}
6795 \endsetslot
6796
6797 \setslot{\lc{SS}{germandbls}}
6798   \comment{The letter ‘ $\ss$ ’}
6799 \endsetslot
6800
6801 \endencoding

```

4.3.11 t1-dotsuperior.etx

t1-dotsuperior.etx (*etx*)

```

6802 %%
6803 %% - The original notices at the top of that file concerning authors,
6804 %% maintenance etc. are replaced by this notice.
6805 %% - The file is renamed.
6806 %% - The encoding name is modified.
6807 %% - The file is modified to accommodate differences in glyph names.
6808 %% - The file is modified for use in encoding superiors.
6809 %%
6810 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
6811 \relax
6812 \encoding
6813
6814 \needsfontinstversion{1.910}
6815
6816 \setcommand\lc#1#2{#2.superior}
6817 \setcommand\uc#1#2{#1.superior}
6818 \setcommand\lctop#1#2{#2.superior}
6819 \setcommand\uctop#1#2{#1.superior}
6820 \setcommand\lclig#1#2{#2.superior}
6821 \ifisint{letterspacing}\then
6822   \ifnumber{\int{letterspacing}}={0}\then \Else
6823     \setcommand\uclig#1#2{#1spaced}
6824     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but

```

```

6825     you can't see it as \verb|\setcommand| commands are invisible in
6826     the typeset output.}
6827   \Fi
6828 \Fi
6829 \setcommand\uclig#1#2{#1.superior}
6830 \setcommand\digit#1{#1.superior}
6831
6832 \ifisint{monowidth}\then
6833   \setint{ligaturing}{0}
6834 \Else
6835   % The following empty line is important to get the formatting
6836   % right here (sigh)! (Remember that it is a \par token.)
6837
6838   \ifisint{letterspacing}\then
6839     \ifnumber{\int{letterspacing}}={0}\then \Else
6840       \setint{ligaturing}{0}
6841     \Fi
6842   \Fi
6843   \setint{ligaturing}{1}
6844 \Fi
6845
6846 \setint{italicslant}{0}
6847 \setint{quad}{1000}
6848 \setint{baselineskip}{1200}
6849
6850 \ifisglyph{x}\then
6851   \setint{xheight}{\height{x}}
6852 \Else
6853   \setint{xheight}{500}
6854 \Fi
6855
6856 \ifisglyph{space}\then
6857   \setint{interword}{\width{space}}
6858 \Else\ifisglyph{i}\then
6859   \setint{interword}{\width{i}}
6860 \Else
6861   \setint{interword}{333}
6862 \Fi\Fi
6863
6864 \ifisint{monowidth}\then
6865   \setint{stretchword}{0}
6866   \setint{shrinkword}{0}
6867   \setint{extraspace}{\int{interword}}
6868 \Else
6869   \setint{stretchword}{\scale{\int{interword}}{600}}
6870   \setint{shrinkword}{\scale{\int{interword}}{240}}
6871   \setint{extraspace}{\scale{\int{interword}}{240}}
6872 \Fi
6873
6874 \ifisglyph{X}\then
6875   \setint{capheight}{\height{X}}
6876 \Else
6877   \setint{capheight}{750}
6878 \Fi

```

```

6879
6880 \ifisglyph{d}\then
6881   \setint{ascender}{\height{d}}
6882 \Else\ifisint{capheight}\then
6883   \setint{ascender}{\int{capheight}}
6884 \Else
6885   \setint{ascender}{750}
6886 \Fi\Fi
6887
6888 \ifisglyph{Aring}\then
6889   \setint{accapheight}{\height{Aring}}
6890 \Else
6891   \setint{accapheight}{999}
6892 \Fi
6893
6894 \ifisint{descender_neg}\then
6895   \setint{descender}{\neg{\int{descender_neg}}}
6896 \Else\ifisglyph{p}\then
6897   \setint{descender}{\depth{p}}
6898 \Else
6899   \setint{descender}{250}
6900 \Fi\Fi
6901
6902 \ifisglyph{Aring}\then
6903   \setint{maxheight}{\height{Aring}}
6904 \Else
6905   \setint{maxheight}{1000}
6906 \Fi
6907
6908 \ifisint{maxdepth_neg}\then
6909   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
6910 \Else\ifisglyph{j}\then
6911   \setint{maxdepth}{\depth{j}}
6912 \Else
6913   \setint{maxdepth}{250}
6914 \Fi\Fi
6915
6916 \ifisglyph{six}\then
6917   \setint{digitwidth}{\width{six}}
6918 \Else
6919   \setint{digitwidth}{500}
6920 \Fi
6921
6922 \setint{capstem}{0} % not in AFM files
6923
6924 \setfontdimen{1}{italicslant}      % italic slant
6925 \setfontdimen{2}{interword}       % interword space
6926 \setfontdimen{3}{stretchword}     % interword stretch
6927 \setfontdimen{4}{shrinkword}      % interword shrink
6928 \setfontdimen{5}{xheight}         % x-height
6929 \setfontdimen{6}{quad}             % quad
6930 \setfontdimen{7}{extraspace}      % extra space after .
6931 \setfontdimen{8}{capheight}       % cap height
6932 \setfontdimen{9}{ascender}        % ascender

```

```

6933 \setfontdimen{10}{accapheight} % accented cap height
6934 \setfontdimen{11}{descender} % descender's depth
6935 \setfontdimen{12}{maxheight} % max height
6936 \setfontdimen{13}{maxdepth} % max depth
6937 \setfontdimen{14}{digitwidth} % digit width
6938 \setfontdimen{15}{verticalstem} % dominant width of verical stems
6939 \setfontdimen{16}{baselineskip} % baselineskip
6940
6941 \ifnumber{\int{ligaturing}}<{0}\then
6942   \comment{In this case, the codingscheme can be different from the
6943     default, and therefore we refrain from setting it.}
6944 \Else
6945   \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - DOTSUPERIOR}
6946 \Fi
6947
6948 \setslot{\lc{Grave}{grave}}
6949   \comment{The grave accent '\{ }'.}
6950 \endsetslot
6951
6952 \setslot{\lc{Acute}{acute}}
6953   \comment{The acute accent '\{ }'.}
6954 \endsetslot
6955
6956 \setslot{\lc{Circumflex}{circumflex}}
6957   \comment{The circumflex accent '\^{ }'.}
6958 \endsetslot
6959
6960 \setslot{\lc{Tilde}{tilde}}
6961   \comment{The tilde accent '\~{ }'.}
6962 \endsetslot
6963
6964 \setslot{\lc{Dieresis}{dieresis}}
6965   \comment{The umlaut or dieresis accent '\"{}'.}
6966 \endsetslot
6967
6968 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
6969   \comment{The long Hungarian umlaut '\H{}'.}
6970 \endsetslot
6971
6972 \setslot{\lc{Ring}{ring}}
6973   \comment{The ring accent '\r{}'.}
6974 \endsetslot
6975
6976 \setslot{\lc{Caron}{caron}}
6977   \comment{The caron or h'a\v cek accent '\v{}'.}
6978 \endsetslot
6979
6980 \setslot{\lc{Breve}{breve}}
6981   \comment{The breve accent '\u{}'.}
6982 \endsetslot
6983
6984 \setslot{\lc{Macron}{macron}}
6985   \comment{The macron accent '\={ }'.}
6986 \endsetslot

```

```

6987
6988 \setslot{\lc{Dotaccent}{dotaccent}}
6989   \comment{The dot accent '\.{}' .}
6990 \endsetslot
6991
6992 \setslot{\lc{Cedilla}{cedilla}}
6993   \comment{The cedilla accent '\c {}' .}
6994 \endsetslot
6995
6996 \setslot{\lc{Ogonek}{ogonek}}
6997   \comment{The ogonek accent '\k {}' .}
6998 \endsetslot
6999
7000 \setslot{quotesinglbase.superior}
7001   \comment{A German single quote mark '\quotesinglbase' similar to a comma,
7002     but with different sidebearings.}
7003 \endsetslot
7004
7005 \setslot{guilsinglleft.superior}
7006   \comment{A French single opening quote mark '\guilsinglleft',
7007     unavailable in \plain\ \TeX.}
7008 \endsetslot
7009
7010 \setslot{guilsinglright.superior}
7011   \comment{A French single closing quote mark '\guilsinglright',
7012     unavailable in \plain\ \TeX.}
7013 \endsetslot
7014
7015 \setslot{quotedblleft.superior}
7016   \comment{The English opening quote mark '\,\textquotedblleft\,' .}
7017 \endsetslot
7018
7019 \setslot{quotedblright.superior}
7020   \comment{The English closing quote mark '\,\textquotedblright\,' .}
7021 \endsetslot
7022
7023 \setslot{quotedblbase.superior}
7024   \comment{A German double quote mark '\quotedblbase' similar to two commas,
7025     but with tighter letterspacing and different sidebearings.}
7026 \endsetslot
7027
7028 \setslot{guillemotleft.superior}
7029   \comment{A French double opening quote mark '\guillemotleft',
7030     unavailable in \plain\ \TeX.}
7031 \endsetslot
7032
7033 \setslot{guillemotright.superior}
7034   \comment{A French closing opening quote mark '\guillemotright',
7035     unavailable in \plain\ \TeX.}
7036 \endsetslot
7037
7038 \setslot{endash.superior}
7039   \ligature{LIG}{hyphen.superior}{emdash.superior}
7040   \comment{The number range dash '1--9'.}

```



```

7041     This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be
7042     called ‘endash’ to work right.
7043     The ‘\textendash’. In a monowidth font, this might be set as
7044     ‘\texttt{1{-}9}’.)
7045 \endsetslot
7046
7047 \setslot{emdash.superior}
7048     \comment{The punctuation dash ‘Oh---boy.’
7049     This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be called
7050     ‘endash’ to work right.
7051     The ‘\textemdash’. In a monowidth font, this might be set as
7052     ‘\texttt{Oh{-}{-}boy.’}’}
7053 \endsetslot
7054
7055 \setslot{compwordmark.superior}
7056     \comment{An invisible glyph, with zero width and depth, but the
7057     height of lowercase letters without ascenders.
7058     It is used to stop ligaturing in words like ‘shelf{}ful’.)}
7059 \endsetslot
7060
7061 \setslot{perthousandzero.superior}
7062     \comment{A glyph which is placed after ‘\%’ to produce a
7063     ‘per-thousand’, or twice to produce ‘per-ten-thousand’.
7064     Your guess is as good as mine as to what this glyph should look
7065     like in a monowidth font.}
7066 \endsetslot
7067
7068 \setslot{\lc{dotlessI}{dotlessi}}
7069     \comment{A dotless i ‘\i’, used to produce accented letters such as
7070     ‘\=i’.)}
7071 \endsetslot
7072
7073 \setslot{\lc{dotlessJ}{dotlessj}}
7074     \comment{A dotless j ‘\j’, used to produce accented letters such as
7075     ‘\=j’. Most non-TeX fonts do not have this glyph.}
7076 \endsetslot
7077
7078 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
7079
7080 \setslot{\lclig{FF}{ff}}
7081     \ifnumber{\int{ligaturing}}>{0}\then
7082         \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
7083         \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}
7084     \Fi
7085     \comment{The ‘ff’ ligature. It should be two characters wide in a
7086     monowidth font.}
7087 \endsetslot
7088
7089 \setslot{\lclig{FI}{fi}}
7090     \comment{The ‘fi’ ligature. It should be two characters wide in a
7091     monowidth font.}
7092 \endsetslot
7093
7094 \setslot{\lclig{FL}{fl}}

```

```
7095     \comment{The 'fl' ligature.  It should be two characters wide in a
7096           monowidth font.}
7097 \endsetslot
7098
7099 \setslot{\lclig{FFI}{ffi}}
7100     \comment{The 'ffi' ligature.  It should be three characters wide in a
7101           monowidth font.}
7102 \endsetslot
7103
7104 \setslot{\lclig{FFL}{ffl}}
7105     \comment{The 'ffl' ligature.  It should be three characters wide in a
7106           monowidth font.}
7107 \endsetslot
7108
7109 \Fi
7110
7111 \setslot{visiblespace.superior}
7112     \comment{A visible space glyph '\textvisiblespace'.}
7113 \endsetslot
7114
7115 \setslot{exclam.superior}
7116     \ligature{LIG}{quoteleft.superior}{exclamdown.superior}
7117     \comment{The exclamation mark '!'.}
7118 \endsetslot
7119
7120 \setslot{quotedbl.superior}
7121     \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
7122           included for use in monowidth fonts, or for setting computer
7123           programs.  Note that the inclusion of this glyph in this slot
7124           means that \TeX\ documents which used '{\tt\char\"}' as an
7125           input character will no longer work.}
7126 \endsetslot
7127
7128 \setslot{numbersign.superior}
7129     \comment{The hash sign '\#'.}
7130 \endsetslot
7131
7132 \setslot{dollar.superior}
7133     \comment{The dollar sign '\$'.}
7134 \endsetslot
7135
7136 \setslot{percent.superior}
7137     \comment{The percent sign '\%'.}
7138 \endsetslot
7139
7140 \setslot{ampersand.superior}
7141     \comment{The ampersand sign '\&'.}
7142 \endsetslot
7143
7144 \setslot{quoteright.superior}
7145     \ligature{LIG}{quoteright.superior}{quotedblright.superior}
7146     \comment{The English closing single quote mark '\,\textquoteright\,'.}
7147 \endsetslot
7148
```

```
7149 \setslot{parenleft.superior}
7150   \comment{The opening parenthesis '(' .}
7151 \endsetslot
7152
7153 \setslot{parenright.superior}
7154   \comment{The closing parenthesis ')' .}
7155 \endsetslot
7156
7157 \setslot{asterisk.superior}
7158   \comment{The raised asterisk '*' .}
7159 \endsetslot
7160
7161 \setslot{plus.superior}
7162   \comment{The addition sign '+' .}
7163 \endsetslot
7164
7165 \setslot{comma.superior}
7166   \ligature{LIG}{comma.superior}{quotedblbase.superior}
7167   \comment{The comma ',' .}
7168 \endsetslot
7169
7170 \setslot{hyphen.superior}
7171   \ligature{LIG}{hyphen.superior}{endash.superior}
7172   \ligature{LIG}{hyphenchar.superior}{hyphenchar.superior}
7173   \comment{The hyphen '-' .}
7174 \endsetslot
7175
7176 \setslot{period.superior}
7177   \comment{The period '.' .}
7178 \endsetslot
7179
7180 \setslot{slash.superior}
7181   \comment{The forward oblique '/' .}
7182 \endsetslot
7183
7184 \setslot{\digit{zero}}
7185   \comment{The number '0'. This (and all the other numerals) may be
7186     old style or ranging digits.}
7187 \endsetslot
7188
7189 \setslot{\digit{one}}
7190   \comment{The number '1' .}
7191 \endsetslot
7192
7193 \setslot{\digit{two}}
7194   \comment{The number '2' .}
7195 \endsetslot
7196
7197 \setslot{\digit{three}}
7198   \comment{The number '3' .}
7199 \endsetslot
7200
7201 \setslot{\digit{four}}
7202   \comment{The number '4' .}
```

```
7203 \endsetslot
7204
7205 \setslot{\digit{five}}
7206   \comment{The number '5'.}
7207 \endsetslot
7208
7209 \setslot{\digit{six}}
7210   \comment{The number '6'.}
7211 \endsetslot
7212
7213 \setslot{\digit{seven}}
7214   \comment{The number '7'.}
7215 \endsetslot
7216
7217 \setslot{\digit{eight}}
7218   \comment{The number '8'.}
7219 \endsetslot
7220
7221 \setslot{\digit{nine}}
7222   \comment{The number '9'.}
7223 \endsetslot
7224
7225 \setslot{colon.superior}
7226   \comment{The colon punctuation mark ':'}.}
7227 \endsetslot
7228
7229 \setslot{semicolon.superior}
7230   \comment{The semi-colon punctuation mark ';'}.}
7231 \endsetslot
7232
7233 \setslot{less.superior}
7234   \ligature[LIG]{less.superior}{guillemotleft.superior}
7235   \comment{The less-than sign '\textless'}.}
7236 \endsetslot
7237
7238 \setslot{equal.superior}
7239   \comment{The equals sign '='}.}
7240 \endsetslot
7241
7242 \setslot{greater.superior}
7243   \ligature[LIG]{greater.superior}{guillemotright.superior}
7244   \comment{The greater-than sign '\textgreater'}.}
7245 \endsetslot
7246
7247 \setslot{question.superior}
7248   \ligature[LIG]{quoteleft.superior}{questiondown.superior}
7249   \comment{The question mark '?'}.}
7250 \endsetslot
7251
7252 \setslot{at.superior}
7253   \comment{The at sign '@'}.}
7254 \endsetslot
7255
7256 \setslot{\uc{A}{a}}
```

```
7257   \comment{The letter '{A}'.}
7258 \endsetslot
7259
7260 \setslot{\uc{B}{b}}
7261   \comment{The letter '{B}'.}
7262 \endsetslot
7263
7264 \setslot{\uc{C}{c}}
7265   \comment{The letter '{C}'.}
7266 \endsetslot
7267
7268 \setslot{\uc{D}{d}}
7269   \comment{The letter '{D}'.}
7270 \endsetslot
7271
7272 \setslot{\uc{E}{e}}
7273   \comment{The letter '{E}'.}
7274 \endsetslot
7275
7276 \setslot{\uc{F}{f}}
7277   \comment{The letter '{F}'.}
7278 \endsetslot
7279
7280 \setslot{\uc{G}{g}}
7281   \comment{The letter '{G}'.}
7282 \endsetslot
7283
7284 \setslot{\uc{H}{h}}
7285   \comment{The letter '{H}'.}
7286 \endsetslot
7287
7288 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
7289
7290 \setslot{\uc{I}{i}}
7291   \comment{The letter '{I}'.}
7292 \endsetslot
7293
7294 \Fi
7295
7296 \setslot{\uc{J}{j}}
7297   \comment{The letter '{J}'.}
7298 \endsetslot
7299
7300 \setslot{\uc{K}{k}}
7301   \comment{The letter '{K}'.}
7302 \endsetslot
7303
7304 \setslot{\uc{L}{l}}
7305   \comment{The letter '{L}'.}
7306 \endsetslot
7307
7308 \setslot{\uc{M}{m}}
7309   \comment{The letter '{M}'.}
7310 \endsetslot
```

```
7311
7312 \setslot{\uc{N}{n}}
7313   \comment{The letter '{N}'.}
7314 \endsetslot
7315
7316 \setslot{\uc{O}{o}}
7317   \comment{The letter '{O}'.}
7318 \endsetslot
7319
7320 \setslot{\uc{P}{p}}
7321   \comment{The letter '{P}'.}
7322 \endsetslot
7323
7324 \setslot{\uc{Q}{q}}
7325   \comment{The letter '{Q}'.}
7326 \endsetslot
7327
7328 \setslot{\uc{R}{r}}
7329   \comment{The letter '{R}'.}
7330 \endsetslot
7331
7332 \setslot{\uc{S}{s}}
7333   \comment{The letter '{S}'.}
7334 \endsetslot
7335
7336 \setslot{\uc{T}{t}}
7337   \comment{The letter '{T}'.}
7338 \endsetslot
7339
7340 \setslot{\uc{U}{u}}
7341   \comment{The letter '{U}'.}
7342 \endsetslot
7343
7344 \setslot{\uc{V}{v}}
7345   \comment{The letter '{V}'.}
7346 \endsetslot
7347
7348 \setslot{\uc{W}{w}}
7349   \comment{The letter '{W}'.}
7350 \endsetslot
7351
7352 \setslot{\uc{X}{x}}
7353   \comment{The letter '{X}'.}
7354 \endsetslot
7355
7356 \setslot{\uc{Y}{y}}
7357   \comment{The letter '{Y}'.}
7358 \endsetslot
7359
7360 \setslot{\uc{Z}{z}}
7361   \comment{The letter '{Z}'.}
7362 \endsetslot
7363
7364 \setslot{bracketleft.superior}
```

```
7365   \comment{The opening square bracket '['.}
7366 \endsetslot
7367
7368 \setslot{backslash.superior}
7369   \comment{The backwards oblique '\textbackslash'.}
7370 \endsetslot
7371
7372 \setslot{bracketright.superior}
7373   \comment{The closing square bracket ']'.}
7374 \endsetslot
7375
7376 \setslot{asciicircum.superior}
7377   \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
7378           This is included for compatibility with typewriter fonts used
7379           for computer listings.}
7380 \endsetslot
7381
7382 \setslot{underscore.superior}
7383   \comment{The ASCII underline character '\textunderscore', usually
7384           set on the baseline.
7385           This is included for compatibility with typewriter fonts used
7386           for computer listings.}
7387 \endsetslot
7388
7389 \setslot{quoteleft.superior}
7390   \ligature{LIG}{quoteleft.superior}{quotedblleft.superior}
7391   \comment{The English opening single quote mark '\,\textquoteleft\,'.}
7392 \endsetslot
7393
7394 \setslot{\lc{A}{a}}
7395   \comment{The letter '{a}'.}
7396 \endsetslot
7397
7398 \setslot{\lc{B}{b}}
7399   \comment{The letter '{b}'.}
7400 \endsetslot
7401
7402 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
7403
7404   \setslot{\lc{C}{c}}
7405     \comment{The letter '{c}'.}
7406   \endsetslot
7407
7408 \Fi
7409
7410 \setslot{\lc{D}{d}}
7411   \comment{The letter '{d}'.}
7412 \endsetslot
7413
7414 \setslot{\lc{E}{e}}
7415   \comment{The letter '{e}'.}
7416 \endsetslot
7417
7418 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
```

```
7419
7420 \setslot{\lc{F}{f}}
7421 \ifnumber{\int{ligaturing}}>{0}\then
7422 \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
7423 \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
7424 \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
7425 \Fi
7426 \comment{The letter ‘f’}
7427 \endsetslot
7428
7429 \Fi
7430
7431 \setslot{\lc{G}{g}}
7432 \comment{The letter ‘g’}
7433 \endsetslot
7434
7435 \setslot{\lc{H}{h}}
7436 \comment{The letter ‘h’}
7437 \endsetslot
7438
7439 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
7440
7441 \setslot{\lc{I}{i}}
7442 \comment{The letter ‘i’}
7443 \endsetslot
7444
7445 \Fi
7446
7447 \setslot{\lc{J}{j}}
7448 \comment{The letter ‘j’}
7449 \endsetslot
7450
7451 \setslot{\lc{K}{k}}
7452 \comment{The letter ‘k’}
7453 \endsetslot
7454
7455 \setslot{\lc{L}{l}}
7456 \comment{The letter ‘l’}
7457 \endsetslot
7458
7459 \setslot{\lc{M}{m}}
7460 \comment{The letter ‘m’}
7461 \endsetslot
7462
7463 \setslot{\lc{N}{n}}
7464 \comment{The letter ‘n’}
7465 \endsetslot
7466
7467 \setslot{\lc{O}{o}}
7468 \comment{The letter ‘o’}
7469 \endsetslot
7470
7471 \setslot{\lc{P}{p}}
7472 \comment{The letter ‘p’}
```



```
7473 \endsetslot
7474
7475 \setslot{\lc{Q}{q}}
7476   \comment{The letter '{q}'.}
7477 \endsetslot
7478
7479 \setslot{\lc{R}{r}}
7480   \comment{The letter '{r}'.}
7481 \endsetslot
7482
7483 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
7484
7485   \setslot{\lc{S}{s}}
7486     \comment{The letter '{s}'.}
7487   \endsetslot
7488
7489 \Fi
7490
7491 \setslot{\lc{T}{t}}
7492   \comment{The letter '{t}'.}
7493 \endsetslot
7494
7495 \setslot{\lc{U}{u}}
7496   \comment{The letter '{u}'.}
7497 \endsetslot
7498
7499 \setslot{\lc{V}{v}}
7500   \comment{The letter '{v}'.}
7501 \endsetslot
7502
7503 \setslot{\lc{W}{w}}
7504   \comment{The letter '{w}'.}
7505 \endsetslot
7506
7507 \setslot{\lc{X}{x}}
7508   \comment{The letter '{x}'.}
7509 \endsetslot
7510
7511 \setslot{\lc{Y}{y}}
7512   \comment{The letter '{y}'.}
7513 \endsetslot
7514
7515 \setslot{\lc{Z}{z}}
7516   \comment{The letter '{z}'.}
7517 \endsetslot
7518
7519 \setslot{braceleft.superior}
7520   \comment{The opening curly brace '\textbraceleft'.}
7521 \endsetslot
7522
7523 \setslot{bar.superior}
7524   \comment{The ASCII vertical bar '\textbar'.
7525   This is included for compatibility with typewriter fonts used
7526   for computer listings.}
```

```
7527 \endsetslot
7528
7529 \setslot{braceright.superior}
7530   \comment{The closing curly brace '\textbraceright'.}
7531 \endsetslot
7532
7533 \setslot{asciitilde.superior}
7534   \comment{The ASCII tilde '\textasciitilde'.
7535   This is included for compatibility with typewriter fonts used
7536   for computer listings.}
7537 \endsetslot
7538
7539 \setslot{hyphenchar.superior}
7540   \comment{The glyph used for hyphenation in this font, which will
7541   almost always be the same as 'hyphen'.}
7542 \endsetslot
7543
7544 \setslot{\uctop{Abreve}{abreve}}
7545   \comment{The letter '\u A'.}
7546 \endsetslot
7547
7548 \setslot{\uc{Aogonek}{aogonek}}
7549   \comment{The letter '\k A'.}
7550 \endsetslot
7551
7552 \setslot{\uctop{Cacute}{cacute}}
7553   \comment{The letter '\ ' C'.}
7554 \endsetslot
7555
7556 \setslot{\uctop{Ccaron}{ccaron}}
7557   \comment{The letter '\v C'.}
7558 \endsetslot
7559
7560 \setslot{\uctop{Dcaron}{dcaron}}
7561   \comment{The letter '\v D'.}
7562 \endsetslot
7563
7564 \setslot{\uctop{Ecaron}{ecaron}}
7565   \comment{The letter '\v E'.}
7566 \endsetslot
7567
7568 \setslot{\uc{Eogonek}{eogonek}}
7569   \comment{The letter '\k E'.}
7570 \endsetslot
7571
7572 \setslot{\uctop{Gbreve}{gbreve}}
7573   \comment{The letter '\u G'.}
7574 \endsetslot
7575
7576 \setslot{\uctop{Lacute}{lacute}}
7577   \comment{The letter '\ ' L'.}
7578 \endsetslot
7579
7580 \setslot{\uc{Lcaron}{lcaron}}
```

```
7581   \comment{The letter ‘\v L’ .}
7582 \endsetslot
7583
7584 \setslot{\uc{Lslash}{lslash}}
7585   \comment{The letter ‘\L’ .}
7586 \endsetslot
7587
7588 \setslot{\uctop{Nacute}{nacute}}
7589   \comment{The letter ‘\’ N’ .}
7590 \endsetslot
7591
7592 \setslot{\uctop{Ncaron}{ncaron}}
7593   \comment{The letter ‘\v N’ .}
7594 \endsetslot
7595
7596 \setslot{\uc{Eng}{eng}}
7597   \comment{The Sami letter ‘\NG’. It is unavailable in \plain\ TeX. This needs
       to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as in t1.etx in most cases, it
       seems .}
7598 \endsetslot
7599
7600 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
7601   \comment{The letter ‘\H O’ .}
7602 \endsetslot
7603
7604 \setslot{\uctop{Racute}{racute}}
7605   \comment{The letter ‘\’ R’ .}
7606 \endsetslot
7607
7608 \setslot{\uctop{Rcaron}{rcaron}}
7609   \comment{The letter ‘\v R’ .}
7610 \endsetslot
7611
7612 \setslot{\uctop{Sacute}{sacute}}
7613   \comment{The letter ‘\’ S’ .}
7614 \endsetslot
7615
7616 \setslot{\uctop{Scaron}{scaron}}
7617   \comment{The letter ‘\v S’ .}
7618 \endsetslot
7619
7620 \setslot{\uc{Scedilla}{scedilla}}
7621   \comment{The letter ‘\c S’ .}
7622 \endsetslot
7623
7624 \setslot{\uctop{Tcaron}{tcaron}}
7625   \comment{The letter ‘\v T’ .}
7626 \endsetslot
7627
7628 \setslot{\uc{Tcedilla}{tcedilla}}
7629   \comment{The letter ‘\c T’ .}
7630 \endsetslot
7631
7632 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
```

```
7633   \comment{The letter ‘\H U’ .}
7634 \endsetslot
7635
7636 \setslot{\uctop{Uring}{uring}}
7637   \comment{The letter ‘\r U’ .}
7638 \endsetslot
7639
7640 \setslot{\uctop{Ydieresis}{ydieresis}}
7641   \comment{The letter ‘\ " Y’ .}
7642 \endsetslot
7643
7644 \setslot{\uctop{Zacute}{zacute}}
7645   \comment{The letter ‘\ ’ Z’ .}
7646 \endsetslot
7647
7648 \setslot{\uctop{Zcaron}{zcaron}}
7649   \comment{The letter ‘\v Z’ .}
7650 \endsetslot
7651
7652 \setslot{\uctop{Zdotaccent}{zdotaccent}}
7653   \comment{The letter ‘\ . Z’ .}
7654 \endsetslot
7655
7656 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
7657
7658   \setslot{\uclig{IJ}{ij}}
7659     \comment{The letter ‘IJ’ . This is a single letter, and in a
7660       monowidth font should ideally be one letter wide.}
7661   \endsetslot
7662
7663 \Fi
7664
7665 \setslot{\uctop{Idotaccent}{idotaccent}}
7666   \comment{The letter ‘\ . I’ .}
7667 \endsetslot
7668
7669 \setslot{\lc{Dbar}{dbar}}
7670   \comment{The letter ‘\dj’ .}
7671 \endsetslot
7672
7673 \setslot{section.superior}
7674   \comment{The section mark ‘\textsection’ .}
7675 \endsetslot
7676
7677 \setslot{\lctop{Abreve}{abreve}}
7678   \comment{The letter ‘\u a’ .}
7679 \endsetslot
7680
7681 \setslot{\lc{Aogonek}{aogonek}}
7682   \comment{The letter ‘\k a’ .}
7683 \endsetslot
7684
7685 \setslot{\lctop{Cacute}{cacute}}
7686   \comment{The letter ‘\ ’ c’ .}
```

```
7687 \endsetslot
7688
7689 \setslot{\lctop{Ccaron}{ccaron}}
7690   \comment{The letter ‘\v c’.
```

7691 \endsetslot

```
7692
7693 \setslot{\lctop{Dcaron}{dcaron}}
7694   \comment{The letter ‘\v d’.
```

7695 \endsetslot

```
7696
7697 \setslot{\lctop{Ecaron}{ecaron}}
7698   \comment{The letter ‘\v e’.
```

7699 \endsetslot

```
7700
7701 \setslot{\lc{Eogonek}{eogonek}}
7702   \comment{The letter ‘\k e’.
```

7703 \endsetslot

```
7704
7705 \setslot{\lctop{Gbreve}{gbreve}}
7706   \comment{The letter ‘\u g’.
```

7707 \endsetslot

```
7708
7709 \setslot{\lctop{Lacute}{lacute}}
7710   \comment{The letter ‘\’ l’.
```

7711 \endsetslot

```
7712
7713 \setslot{\lc{Lcaron}{lcaron}}
7714   \comment{The letter ‘\v l’.
```

7715 \endsetslot

```
7716
7717 \setslot{\lc{Lslash}{lslash}}
7718   \comment{The letter ‘\l’.
```

7719 \endsetslot

```
7720
7721 \setslot{\lctop{Nacute}{nacute}}
7722   \comment{The letter ‘\’ n’.
```

7723 \endsetslot

```
7724
7725 \setslot{\lctop{Ncaron}{ncaron}}
7726   \comment{The letter ‘\v n’.
```

7727 \endsetslot

```
7728
7729 \setslot{\lc{Eng}{eng}}
7730   \comment{The Sami letter ‘\ng’. It is unavailable in \plain\ TeX. This needs
to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as it is in t1.etx in most cases,
it seems.}
```

7731 \endsetslot

```
7732
7733 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
7734   \comment{The letter ‘\H o’.
```

7735 \endsetslot

```
7736
7737 \setslot{\lctop{Racute}{racute}}
7738   \comment{The letter ‘\’ r’.
```

```
7739 \endsetslot
7740
7741 \setslot{\lctop{Rcaron}{rcaron}}
7742   \comment{The letter '\v r'.}
7743 \endsetslot
7744
7745 \setslot{\lctop{Sacute}{sacute}}
7746   \comment{The letter '\v s'.}
7747 \endsetslot
7748
7749 \setslot{\lctop{Scaron}{scaron}}
7750   \comment{The letter '\v s'.}
7751 \endsetslot
7752
7753 \setslot{\lc{Scedilla}{scedilla}}
7754   \comment{The letter '\c s'.}
7755 \endsetslot
7756
7757 \setslot{\lctop{Tcaron}{tcaron}}
7758   \comment{The letter '\v t'.}
7759 \endsetslot
7760
7761 \setslot{\lc{Tcedilla}{tcedilla}}
7762   \comment{The letter '\c t'.}
7763 \endsetslot
7764
7765 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
7766   \comment{The letter '\H u'.}
7767 \endsetslot
7768
7769 \setslot{\lctop{Uring}{uring}}
7770   \comment{The letter '\r u'.}
7771 \endsetslot
7772
7773 \setslot{\lctop{Ydieresis}{ydieresis}}
7774   \comment{The letter '\v y'.}
7775 \endsetslot
7776
7777 \setslot{\lctop{Zacute}{zacute}}
7778   \comment{The letter '\v z'.}
7779 \endsetslot
7780
7781 \setslot{\lctop{Zcaron}{zcaron}}
7782   \comment{The letter '\v z'.}
7783 \endsetslot
7784
7785 \setslot{\lctop{Zdotaccent}{zdotaccent}}
7786   \comment{The letter '\. z'.}
7787 \endsetslot
7788
7789 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
7790
7791   \setslot{\lclig{IJ}{ij}}
7792     \comment{The letter 'ij'. This is a single letter, and in a
```

```
7793         monowidth font should ideally be one letter wide.}
7794     \endsetslot
7795
7796 \Fi
7797
7798 \setslot{exclamdown.superior}
7799     \comment{The Spanish punctuation mark ‘!’}
7800 \endsetslot
7801
7802 \setslot{questiondown.superior}
7803     \comment{The Spanish punctuation mark ‘?’}
7804 \endsetslot
7805
7806 \setslot{sterling.superior}
7807     \comment{The British currency mark ‘\textsterling’}
7808 \endsetslot
7809
7810 \setslot{\uctop{Agrave}{agrave}}
7811     \comment{The letter ‘\’ A’}
7812 \endsetslot
7813
7814 \setslot{\uctop{Aacute}{aacute}}
7815     \comment{The letter ‘\’ A’}
7816 \endsetslot
7817
7818 \setslot{\uctop{Acircumflex}{acircumflex}}
7819     \comment{The letter ‘\^ A’}
7820 \endsetslot
7821
7822 \setslot{\uctop{Atilde}{atilde}}
7823     \comment{The letter ‘\~ A’}
7824 \endsetslot
7825
7826 \setslot{\uctop{Adieresis}{adieresis}}
7827     \comment{The letter ‘\” A’}
7828 \endsetslot
7829
7830 \setslot{\uctop{Aring}{aring}}
7831     \comment{The letter ‘\r A’}
7832 \endsetslot
7833
7834 \setslot{\uc{AE}{ae}}
7835     \comment{The letter ‘AE’. This is a single letter, and should not be
7836         faked with ‘AE’}
7837 \endsetslot
7838
7839 \setslot{\uc{Ccedilla}{ccedilla}}
7840     \comment{The letter ‘\c C’}
7841 \endsetslot
7842
7843 \setslot{\uctop{Egrave}{egrave}}
7844     \comment{The letter ‘\’ E’}
7845 \endsetslot
7846
```

```
7847 \setslot{\uctop{Eacute}{eacute}}
7848   \comment{The letter ‘\’ E’}
7849 \endsetslot
7850
7851 \setslot{\uctop{Ecircumflex}{ecircumflex}}
7852   \comment{The letter ‘^ E’}
7853 \endsetslot
7854
7855 \setslot{\uctop{Edieresis}{edieresis}}
7856   \comment{The letter ‘" E’}
7857 \endsetslot
7858
7859 \setslot{\uctop{Igrave}{igrave}}
7860   \comment{The letter ‘‘ I’}
7861 \endsetslot
7862
7863 \setslot{\uctop{Iacute}{iacute}}
7864   \comment{The letter ‘\’ I’}
7865 \endsetslot
7866
7867 \setslot{\uctop{Icircumflex}{icircumflex}}
7868   \comment{The letter ‘^ I’}
7869 \endsetslot
7870
7871 \setslot{\uctop{Idieresis}{idieresis}}
7872   \comment{The letter ‘" I’}
7873 \endsetslot
7874
7875 \setslot{\uc{Eth}{eth}}
7876   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
7877     with a horizontal bar through the stem. It is unavailable
7878     in \plain\ \TeX.}
7879 \endsetslot
7880
7881 \setslot{\uctop{Ntilde}{ntilde}}
7882   \comment{The letter ‘~ N’}
7883 \endsetslot
7884
7885 \setslot{\uctop{Ograve}{ograve}}
7886   \comment{The letter ‘\’ O’}
7887 \endsetslot
7888
7889 \setslot{\uctop{Oacute}{oacute}}
7890   \comment{The letter ‘\’ O’}
7891 \endsetslot
7892
7893 \setslot{\uctop{Ocircumflex}{ocircumflex}}
7894   \comment{The letter ‘^ O’}
7895 \endsetslot
7896
7897 \setslot{\uctop{Otilde}{otilde}}
7898   \comment{The letter ‘~ O’}
7899 \endsetslot
7900
```



```
7901 \setslot{\uctop{Odieeresis}{odieresis}}
7902   \comment{The letter ‘\” O’ .}
7903 \endsetslot
7904
7905 \setslot{\uc{OE}{oe}}
7906   \comment{The letter ‘OE’. This is a single letter, and should not be
7907     faked with ‘OE’ .}
7908 \endsetslot
7909
7910 \setslot{\uc{Oslash}{oslash}}
7911   \comment{The letter ‘\O’ .}
7912 \endsetslot
7913
7914 \setslot{\uctop{Ugrave}{ugrave}}
7915   \comment{The letter ‘\’ U’ .}
7916 \endsetslot
7917
7918 \setslot{\uctop{Uacute}{uacute}}
7919   \comment{The letter ‘\’ U’ .}
7920 \endsetslot
7921
7922 \setslot{\uctop{Ucircumflex}{ucircumflex}}
7923   \comment{The letter ‘\^ U’ .}
7924 \endsetslot
7925
7926 \setslot{\uctop{Udieresis}{udieresis}}
7927   \comment{The letter ‘\” U’ .}
7928 \endsetslot
7929
7930 \setslot{\uctop{Yacute}{yacute}}
7931   \comment{The letter ‘\’ Y’ .}
7932 \endsetslot
7933
7934 \setslot{\uc{Thorn}{thorn}}
7935   \comment{The Icelandic capital letter Thorn, similar to a ‘P’
7936     with the bowl moved down. It is unavailable in \plain\ TeX .}
7937 \endsetslot
7938
7939 \setslot{\uclig{SS}{germandbls}}
7940   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’.
7941     In a monowidth font it should be two letters wide .}
7942 \endsetslot
7943
7944 \setslot{\lctop{Agrave}{agrave}}
7945   \comment{The letter ‘\` a’ .}
7946 \endsetslot
7947
7948 \setslot{\lctop{Aacute}{aacute}}
7949   \comment{The letter ‘\’ a’ .}
7950 \endsetslot
7951
7952 \setslot{\lctop{Acircumflex}{acircumflex}}
7953   \comment{The letter ‘\^ a’ .}
7954 \endsetslot
```

```
7955
7956 \setslot{\lctop{Atilde}{atilde}}
7957   \comment{The letter '~ a'.}
7958 \endsetslot
7959
7960 \setslot{\lctop{Adieresis}{adieresis}}
7961   \comment{The letter " a'.}
7962 \endsetslot
7963
7964 \setslot{\lctop{Aring}{aring}}
7965   \comment{The letter `r a'.}
7966 \endsetslot
7967
7968 \setslot{\lc{AE}{ae}}
7969   \comment{The letter 'ae'. This is a single letter, and should not be
7970     faked with 'ae'.}
7971 \endsetslot
7972
7973 \setslot{\lc{Ccedilla}{ccedilla}}
7974   \comment{The letter `c c'.}
7975 \endsetslot
7976
7977 \setslot{\lctop{Egrave}{egrave}}
7978   \comment{The letter ` e'.}
7979 \endsetslot
7980
7981 \setslot{\lctop{Eacute}{eacute}}
7982   \comment{The letter ` e'.}
7983 \endsetslot
7984
7985 \setslot{\lctop{Ecircumflex}{ecircumflex}}
7986   \comment{The letter `^ e'.}
7987 \endsetslot
7988
7989 \setslot{\lctop{Edieresis}{edieresis}}
7990   \comment{The letter " e'.}
7991 \endsetslot
7992
7993 \setslot{\lctop{Igrave}{igrave}}
7994   \comment{The letter ` i'.}
7995 \endsetslot
7996
7997 \setslot{\lctop{Iacute}{iacute}}
7998   \comment{The letter ` i'.}
7999 \endsetslot
8000
8001 \setslot{\lctop{Icircumflex}{icircumflex}}
8002   \comment{The letter `^ i'.}
8003 \endsetslot
8004
8005 \setslot{\lctop{Idieresis}{idieresis}}
8006   \comment{The letter " i'.}
8007 \endsetslot
8008
```

```
8009 \setslot{\lc{Eth}{eth}}
8010   \comment{The Icelandic lowercase letter ‘eth’ similar to
8011     a ‘ $\partial$ ’ with an oblique bar through the stem.
8012     It is unavailable in \plain\TeX.}
8013 \endsetslot
8014
8015 \setslot{\lctop{Ntilde}{ntilde}}
8016   \comment{The letter ‘ $\tilde{n}$ ’.}
8017 \endsetslot
8018
8019 \setslot{\lctop{Ograve}{ograve}}
8020   \comment{The letter ‘ $\grave{o}$ ’.}
8021 \endsetslot
8022
8023 \setslot{\lctop{Oacute}{oacute}}
8024   \comment{The letter ‘ $\acute{o}$ ’.}
8025 \endsetslot
8026
8027 \setslot{\lctop{Ocircumflex}{ocircumflex}}
8028   \comment{The letter ‘ $\hat{o}$ ’.}
8029 \endsetslot
8030
8031 \setslot{\lctop{Otilde}{otilde}}
8032   \comment{The letter ‘ $\tilde{o}$ ’.}
8033 \endsetslot
8034
8035 \setslot{\lctop{Odieresis}{odieresis}}
8036   \comment{The letter ‘ $\ddot{o}$ ’.}
8037 \endsetslot
8038
8039 \setslot{\lc{OE}{oe}}
8040   \comment{The letter ‘ $\text{oe}$ ’. This is a single letter, and should not be
8041     faked with ‘ $\text{oe}$ ’.}
8042 \endsetslot
8043
8044 \setslot{\lc{Oslash}{oslash}}
8045   \comment{The letter ‘ $\text{o}$ ’.}
8046 \endsetslot
8047
8048 \setslot{\lctop{Ugrave}{ugrave}}
8049   \comment{The letter ‘ $\grave{u}$ ’.}
8050 \endsetslot
8051
8052 \setslot{\lctop{Uacute}{uacute}}
8053   \comment{The letter ‘ $\acute{u}$ ’.}
8054 \endsetslot
8055
8056 \setslot{\lctop{Ucircumflex}{ucircumflex}}
8057   \comment{The letter ‘ $\hat{u}$ ’.}
8058 \endsetslot
8059
8060 \setslot{\lctop{Udieresis}{udieresis}}
8061   \comment{The letter ‘ $\ddot{u}$ ’.}
8062 \endsetslot
```

```

8063
8064 \setslot{\lctop{Yacute}{yacute}}
8065   \comment{The letter ‘\’ y’ .}
8066 \endsetslot
8067
8068 \setslot{\lc{Thorn}{thorn}}
8069   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
8070     with an ascender rising from the stem. It is unavailable
8071     in \plain\ \TeX .}
8072 \endsetslot
8073
8074 \setslot{\lc{SS}{germandbls}}
8075   \comment{The letter ‘\ss’ .}
8076 \endsetslot
8077
8078 \endencoding

```

4.3.12 t1-f_f.etx

t1-f_f.etx (*etx*)

```

8079 %%
8080 %% - The commentary in the original is deleted in this version. For
8081 %% information about the T1 etc., typeset the original t1.etx
8082 %% included with fontinst.
8083 %% - Slots are altered to accommodate characters which are named
8084 %% differently. For example, this encoding uses "endash" and "emdash"
8085 %% whereas t1.etx called for "rangedash" and "punctdash".
8086 %% - The original notices at the top of that file concerning authors,
8087 %% maintenance etc. are replaced by this notice.
8088 %% - The file is renamed.
8089 %% - The encoding name is modified.
8090 %% - f_f, f_f_i and f_f_l replace ff, ffi and ffl.
8091 %%
8092 %%%
8093 \relax
8094 \encoding
8095
8096 \needsfontinstversion{1.910}
8097
8098 \setcommand\lc#1#2{#2}
8099 \setcommand\uc#1#2{#1}
8100 \setcommand\lctop#1#2{#2}
8101 \setcommand\uctop#1#2{#1}
8102 \setcommand\lclig#1#2{#2}
8103 \ifisint{letterspacing}\then
8104   \ifnumber{\int{letterspacing}}={0}\then \Else
8105     \setcommand\uclig#1#2{#1spaced}
8106     \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
8107       you can't see it as \verb|\setcommand| commands are invisible in
8108       the typeset output.}
8109   \Fi
8110 \Fi

```

```

8111 \setcommand\uclig#1#2{#1}
8112 \setcommand\digit#1{#1}
8113
8114 \ifisint{monowidth}\then
8115   \setint{ligaturing}{0}
8116 \Else
8117   % The following empty line is important to get the formatting
8118   % right here (sigh)! (Remember that it is a \par token.)
8119
8120   \ifisint{letterspacing}\then
8121     \ifnumber{\int{letterspacing}}={0}\then \Else
8122       \setint{ligaturing}{0}
8123     \Fi
8124   \Fi
8125   \setint{ligaturing}{1}
8126 \Fi
8127
8128 \setint{italicslant}{0}
8129 \setint{quad}{1000}
8130 \setint{baselineskip}{1200}
8131
8132 \ifisglyph{x}\then
8133   \setint{xheight}{\height{x}}
8134 \Else
8135   \setint{xheight}{500}
8136 \Fi
8137
8138 \ifisglyph{space}\then
8139   \setint{interword}{\width{space}}
8140 \Else\ifisglyph{i}\then
8141   \setint{interword}{\width{i}}
8142 \Else
8143   \setint{interword}{333}
8144 \Fi\Fi
8145
8146 \ifisint{monowidth}\then
8147   \setint{stretchword}{0}
8148   \setint{shrinkword}{0}
8149   \setint{extraspace}{\int{interword}}
8150 \Else
8151   \setint{stretchword}{\scale{\int{interword}}{600}}
8152   \setint{shrinkword}{\scale{\int{interword}}{240}}
8153   \setint{extraspace}{\scale{\int{interword}}{240}}
8154 \Fi
8155
8156 \ifisglyph{X}\then
8157   \setint{capheight}{\height{X}}
8158 \Else
8159   \setint{capheight}{750}
8160 \Fi
8161
8162 \ifisglyph{d}\then
8163   \setint{ascender}{\height{d}}
8164 \Else\ifisint{capheight}\then

```

```

8165     \setint{ascender}{\int{capheight}}
8166 \Else
8167     \setint{ascender}{750}
8168 \Fi\Fi
8169
8170 \ifisglyph{Aring}\then
8171     \setint{accapheight}{\height{Aring}}
8172 \Else
8173     \setint{accapheight}{999}
8174 \Fi
8175
8176 \ifisint{descender_neg}\then
8177     \setint{descender}{\neg{\int{descender_neg}}}
8178 \Else\ifisglyph{p}\then
8179     \setint{descender}{\depth{p}}
8180 \Else
8181     \setint{descender}{250}
8182 \Fi\Fi
8183
8184 \ifisglyph{Aring}\then
8185     \setint{maxheight}{\height{Aring}}
8186 \Else
8187     \setint{maxheight}{1000}
8188 \Fi
8189
8190 \ifisint{maxdepth_neg}\then
8191     \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
8192 \Else\ifisglyph{j}\then
8193     \setint{maxdepth}{\depth{j}}
8194 \Else
8195     \setint{maxdepth}{250}
8196 \Fi\Fi
8197
8198 \ifisglyph{six}\then
8199     \setint{digitwidth}{\width{six}}
8200 \Else
8201     \setint{digitwidth}{500}
8202 \Fi
8203
8204 \setint{capstem}{0} % not in AFM files
8205
8206 \setfontdimen{1}{italicslant}      % italic slant
8207 \setfontdimen{2}{interword}       % interword space
8208 \setfontdimen{3}{stretchword}     % interword stretch
8209 \setfontdimen{4}{shrinkword}     % interword shrink
8210 \setfontdimen{5}{xheight}        % x-height
8211 \setfontdimen{6}{quad}           % quad
8212 \setfontdimen{7}{extraspace}     % extra space after .
8213 \setfontdimen{8}{capheight}      % cap height
8214 \setfontdimen{9}{ascender}       % ascender
8215 \setfontdimen{10}{accapheight}   % accented cap height
8216 \setfontdimen{11}{descender}    % descender's depth
8217 \setfontdimen{12}{maxheight}    % max height
8218 \setfontdimen{13}{maxdepth}     % max depth

```

```

8219 \setfontdimen{14}{digitwidth} % digit width
8220 \setfontdimen{15}{verticalstem} % dominant width of verical stems
8221 \setfontdimen{16}{baselineskip} % baselineskip
8222
8223 \ifnumber{\int{ligaturing}}<{0}\then
8224   \comment{In this case, the codingscheme can be different from the
8225     default, and therefore we refrain from setting it.}
8226 \Else
8227   \setstr{codingscheme}{EXTENDED TEX ENC - F_F}
8228 \Fi
8229
8230 \setslot{\lc{Grave}{grave}}
8231   \comment{The grave accent '\{ }'.}
8232 \endsetslot
8233
8234 \setslot{\lc{Acute}{acute}}
8235   \comment{The acute accent '\{ }'.}
8236 \endsetslot
8237
8238 \setslot{\lc{Circumflex}{circumflex}}
8239   \comment{The circumflex accent '\^{ }'.}
8240 \endsetslot
8241
8242 \setslot{\lc{Tilde}{tilde}}
8243   \comment{The tilde accent '\~{ }'.}
8244 \endsetslot
8245
8246 \setslot{\lc{Dieresis}{dieresis}}
8247   \comment{The umlaut or dieresis accent '\"{}'.}
8248 \endsetslot
8249
8250 \setslot{\lc{Hungarumlaut}{hungarumlaut}}
8251   \comment{The long Hungarian umlaut '\H{}'.}
8252 \endsetslot
8253
8254 \setslot{\lc{Ring}{ring}}
8255   \comment{The ring accent '\r{}'.}
8256 \endsetslot
8257
8258 \setslot{\lc{Caron}{caron}}
8259   \comment{The caron or h\`a\`v cek accent '\v{}'.}
8260 \endsetslot
8261
8262 \setslot{\lc{Breve}{breve}}
8263   \comment{The breve accent '\u{}'.}
8264 \endsetslot
8265
8266 \setslot{\lc{Macron}{macron}}
8267   \comment{The macron accent '\={ }'.}
8268 \endsetslot
8269
8270 \setslot{\lc{Dotaccent}{dotaccent}}
8271   \comment{The dot accent '\.{}'.}
8272 \endsetslot

```

```
8273
8274 \setslot{\lc{Cedilla}{cedilla}}
8275   \comment{The cedilla accent ‘\c {}’}
8276 \endsetslot
8277
8278 \setslot{\lc{Ogonek}{ogonek}}
8279   \comment{The ogonek accent ‘\k {}’}
8280 \endsetslot
8281
8282 \setslot{quotesinglbase}
8283   \comment{A German single quote mark ‘quotesinglbase’ similar to a comma,
8284             but with different sidebearings.}
8285 \endsetslot
8286
8287 \setslot{guilsinglleft}
8288   \comment{A French single opening quote mark ‘guilsinglleft’,
8289             unavailable in \plain\ \TeX.}
8290 \endsetslot
8291
8292 \setslot{guilsinglright}
8293   \comment{A French single closing quote mark ‘guilsinglright’,
8294             unavailable in \plain\ \TeX.}
8295 \endsetslot
8296
8297 \setslot{quotedblleft}
8298   \comment{The English opening quote mark ‘\,\textquotedblleft\,’}
8299 \endsetslot
8300
8301 \setslot{quotedblright}
8302   \comment{The English closing quote mark ‘\,\textquotedblright\,’}
8303 \endsetslot
8304
8305 \setslot{quotedblbase}
8306   \comment{A German double quote mark ‘quotedblbase’ similar to two commas,
8307             but with tighter letterspacing and different sidebearings.}
8308 \endsetslot
8309
8310 \setslot{guillemotleft}
8311   \comment{A French double opening quote mark ‘guillemotleft’,
8312             unavailable in \plain\ \TeX.}
8313 \endsetslot
8314
8315 \setslot{guillemotright}
8316   \comment{A French closing opening quote mark ‘guillemotright’,
8317             unavailable in \plain\ \TeX.}
8318 \endsetslot
8319
8320 \setslot{endash}
8321   \ligature{LIG}{hyphen}{emdash}
8322   \comment{The number range dash ‘1--9’.
8323             This is called ‘rangedash’ by fontinst’s t1.etx, but it needs to be
8324             called ‘endash’ to work right.
8325             The ‘\textendash’. In a monowidth font, this might be set as
8326             ‘\texttt{1{-}9}’}.
```



```

8327 \endsetslot
8328
8329 \setslot{emdash}
8330   \comment{The punctuation dash ‘Oh---boy.’
8331     This is calle ‘punctdash’ by fontinst’s t1.etx, but needs to be
8332     called ‘emdash’ to work right.
8333     The ‘\textemdash’.
8334     In a monowidth font, this might be set as ‘\texttt{Oh{-}{-}boy.}’}
8335 \endsetslot
8336
8337 \setslot{compwordmark}
8338   \comment{An invisible glyph, with zero width and depth, but the
8339     height of lowercase letters without ascenders.
8340     It is used to stop ligaturing in words like ‘shelf{}ful’.)}
8341 \endsetslot
8342
8343 \setslot{perthousandzero}
8344   \comment{A glyph which is placed after ‘\%’ to produce a
8345     ‘per-thousand’, or twice to produce ‘per-ten-thousand’.
8346     Your guess is as good as mine as to what this glyph should look
8347     like in a monowidth font.}
8348 \endsetslot
8349
8350 \setslot{\lc{dotlessI}{dotlessi}}
8351   \comment{A dotless i ‘\i’, used to produce accented letters such as
8352     ‘\=i’.)}
8353 \endsetslot
8354
8355 \setslot{\lc{dotlessJ}{dotlessj}}
8356   \comment{A dotless j ‘\j’, used to produce accented letters such as
8357     ‘\=j’. Most non-TeX fonts do not have this glyph.}
8358 \endsetslot
8359
8360 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else
8361
8362 \setslot{\lclig{FF}{f_f}}
8363   \ifnumber{\int{ligaturing}}>{0}\then
8364     \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{f_f_i}}
8365     \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{f_f_l}}
8366   \Fi
8367   \comment{The ‘ff’ ligature. It should be two characters wide in a
8368     monowidth font.}
8369 \endsetslot
8370
8371 \setslot{\lclig{FI}{fi}}
8372   \comment{The ‘fi’ ligature. It should be two characters wide in a
8373     monowidth font.}
8374 \endsetslot
8375
8376 \setslot{\lclig{FL}{fl}}
8377   \comment{The ‘fl’ ligature. It should be two characters wide in a
8378     monowidth font.}
8379 \endsetslot
8380

```

```
8381 \setslot{\lclig{FFI}{f_f_i}}
8382   \comment{The 'ffi' ligature. It should be three characters wide in a
8383     monowidth font.}
8384 \endsetslot
8385
8386 \setslot{\lclig{FFL}{f_f_l}}
8387   \comment{The 'ffl' ligature. It should be three characters wide in a
8388     monowidth font.}
8389 \endsetslot
8390
8391 \Fi
8392
8393 \setslot{visiblespace}
8394   \comment{A visible space glyph '\textvisiblespace'.}
8395 \endsetslot
8396
8397 \setslot{exclam}
8398   \ligature{LIG}{quoteleft}{exclamdown}
8399   \comment{The exclamation mark '!'.}
8400 \endsetslot
8401
8402 \setslot{quotedbl}
8403   \comment{The 'neutral' double quotation mark '\,\textquotedbl\,',
8404     included for use in monowidth fonts, or for setting computer
8405     programs. Note that the inclusion of this glyph in this slot
8406     means that \TeX\ documents which used '{\tt\char\'"}' as an
8407     input character will no longer work.}
8408 \endsetslot
8409
8410 \setslot{numbersign}
8411   \comment{The hash sign '\#'.}
8412 \endsetslot
8413
8414 \setslot{dollar}
8415   \comment{The dollar sign '\$'.}
8416 \endsetslot
8417
8418 \setslot{percent}
8419   \comment{The percent sign '\%'.}
8420 \endsetslot
8421
8422 \setslot{ampersand}
8423   \comment{The ampersand sign '\&'.}
8424 \endsetslot
8425
8426 \setslot{quoteright}
8427   \ligature{LIG}{quoteright}{quotedblright}
8428   \comment{The English closing single quote mark '\,\textquoteright\,'.}
8429 \endsetslot
8430
8431 \setslot{parenleft}
8432   \comment{The opening parenthesis '('}.}
8433 \endsetslot
8434
```

```
8435 \setslot{parenright}
8436   \comment{The closing parenthesis ')'.}
8437 \endsetslot
8438
8439 \setslot{asterisk}
8440   \comment{The raised asterisk '*'.}
8441 \endsetslot
8442
8443 \setslot{plus}
8444   \comment{The addition sign '+'.}
8445 \endsetslot
8446
8447 \setslot{comma}
8448   \ligature{LIG}{comma}{quotedblbase}
8449   \comment{The comma ','}.}
8450 \endsetslot
8451
8452 \setslot{hyphen}
8453   \ligature{LIG}{hyphen}{endash}
8454   \ligature{LIG}{hyphenchar}{hyphenchar}
8455   \comment{The hyphen '-'.}
8456 \endsetslot
8457
8458 \setslot{period}
8459   \comment{The period '.'}.}
8460 \endsetslot
8461
8462 \setslot{slash}
8463   \comment{The forward oblique '/'}.}
8464 \endsetslot
8465
8466 \setslot{\digit{zero}}
8467   \comment{The number '0'. This (and all the other numerals) may be
8468     old style or ranging digits.}
8469 \endsetslot
8470
8471 \setslot{\digit{one}}
8472   \comment{The number '1'.}
8473 \endsetslot
8474
8475 \setslot{\digit{two}}
8476   \comment{The number '2'.}
8477 \endsetslot
8478
8479 \setslot{\digit{three}}
8480   \comment{The number '3'.}
8481 \endsetslot
8482
8483 \setslot{\digit{four}}
8484   \comment{The number '4'.}
8485 \endsetslot
8486
8487 \setslot{\digit{five}}
8488   \comment{The number '5'.}
```

```
8489 \endsetslot
8490
8491 \setslot{\digit{six}}
8492   \comment{The number '6'.}
8493 \endsetslot
8494
8495 \setslot{\digit{seven}}
8496   \comment{The number '7'.}
8497 \endsetslot
8498
8499 \setslot{\digit{eight}}
8500   \comment{The number '8'.}
8501 \endsetslot
8502
8503 \setslot{\digit{nine}}
8504   \comment{The number '9'.}
8505 \endsetslot
8506
8507 \setslot{colon}
8508   \comment{The colon punctuation mark ':'}.}
8509 \endsetslot
8510
8511 \setslot{semicolon}
8512   \comment{The semi-colon punctuation mark ';'}.}
8513 \endsetslot
8514
8515 \setslot{less}
8516   \ligature{LIG}{less}{guillemotleft}
8517   \comment{The less-than sign '\textless'}.}
8518 \endsetslot
8519
8520 \setslot{equal}
8521   \comment{The equals sign '='}.}
8522 \endsetslot
8523
8524 \setslot{greater}
8525   \ligature{LIG}{greater}{guillemotright}
8526   \comment{The greater-than sign '\textgreater'}.}
8527 \endsetslot
8528
8529 \setslot{question}
8530   \ligature{LIG}{quoteleft}{questiondown}
8531   \comment{The question mark '?'}.}
8532 \endsetslot
8533
8534 \setslot{at}
8535   \comment{The at sign '@'}.}
8536 \endsetslot
8537
8538 \setslot{\uc{A}{a}}
8539   \comment{The letter '{A}'.}
8540 \endsetslot
8541
8542 \setslot{\uc{B}{b}}
```

```
8543   \comment{The letter '{B}'.}
8544 \endsetslot
8545
8546 \setslot{\uc{C}{c}}
8547   \comment{The letter '{C}'.}
8548 \endsetslot
8549
8550 \setslot{\uc{D}{d}}
8551   \comment{The letter '{D}'.}
8552 \endsetslot
8553
8554 \setslot{\uc{E}{e}}
8555   \comment{The letter '{E}'.}
8556 \endsetslot
8557
8558 \setslot{\uc{F}{f}}
8559   \comment{The letter '{F}'.}
8560 \endsetslot
8561
8562 \setslot{\uc{G}{g}}
8563   \comment{The letter '{G}'.}
8564 \endsetslot
8565
8566 \setslot{\uc{H}{h}}
8567   \comment{The letter '{H}'.}
8568 \endsetslot
8569
8570 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
8571
8572 \setslot{\uc{I}{i}}
8573   \comment{The letter '{I}'.}
8574 \endsetslot
8575
8576 \Fi
8577
8578 \setslot{\uc{J}{j}}
8579   \comment{The letter '{J}'.}
8580 \endsetslot
8581
8582 \setslot{\uc{K}{k}}
8583   \comment{The letter '{K}'.}
8584 \endsetslot
8585
8586 \setslot{\uc{L}{l}}
8587   \comment{The letter '{L}'.}
8588 \endsetslot
8589
8590 \setslot{\uc{M}{m}}
8591   \comment{The letter '{M}'.}
8592 \endsetslot
8593
8594 \setslot{\uc{N}{n}}
8595   \comment{The letter '{N}'.}
8596 \endsetslot
```

```
8597
8598 \setslot{\uc{O}{o}}
8599   \comment{The letter '{O}'.}
8600 \endsetslot
8601
8602 \setslot{\uc{P}{p}}
8603   \comment{The letter '{P}'.}
8604 \endsetslot
8605
8606 \setslot{\uc{Q}{q}}
8607   \comment{The letter '{Q}'.}
8608 \endsetslot
8609
8610 \setslot{\uc{R}{r}}
8611   \comment{The letter '{R}'.}
8612 \endsetslot
8613
8614 \setslot{\uc{S}{s}}
8615   \comment{The letter '{S}'.}
8616 \endsetslot
8617
8618 \setslot{\uc{T}{t}}
8619   \comment{The letter '{T}'.}
8620 \endsetslot
8621
8622 \setslot{\uc{U}{u}}
8623   \comment{The letter '{U}'.}
8624 \endsetslot
8625
8626 \setslot{\uc{V}{v}}
8627   \comment{The letter '{V}'.}
8628 \endsetslot
8629
8630 \setslot{\uc{W}{w}}
8631   \comment{The letter '{W}'.}
8632 \endsetslot
8633
8634 \setslot{\uc{X}{x}}
8635   \comment{The letter '{X}'.}
8636 \endsetslot
8637
8638 \setslot{\uc{Y}{y}}
8639   \comment{The letter '{Y}'.}
8640 \endsetslot
8641
8642 \setslot{\uc{Z}{z}}
8643   \comment{The letter '{Z}'.}
8644 \endsetslot
8645
8646 \setslot{bracketleft}
8647   \comment{The opening square bracket '['.}
8648 \endsetslot
8649
8650 \setslot{backslash}
```

```
8651     \comment{The backwards oblique '\textbackslash'.}
8652 \endsetslot
8653
8654 \setslot{bracketright}
8655     \comment{The closing square bracket ']''.}
8656 \endsetslot
8657
8658 \setslot{asciicircum}
8659     \comment{The ASCII upward-pointing arrow head '\textasciicircum'.
8660     This is included for compatibility with typewriter fonts used
8661     for computer listings.}
8662 \endsetslot
8663
8664 \setslot{underscore}
8665     \comment{The ASCII underline character '\textunderscore', usually
8666     set on the baseline.
8667     This is included for compatibility with typewriter fonts used
8668     for computer listings.}
8669 \endsetslot
8670
8671 \setslot{quoteleft}
8672     \ligature{LIG}{quoteleft}{quotedblleft}
8673     \comment{The English opening single quote mark '\,\textquoteleft\,'.}
8674 \endsetslot
8675
8676 \setslot{\lc{A}{a}}
8677     \comment{The letter '{a}''.}
8678 \endsetslot
8679
8680 \setslot{\lc{B}{b}}
8681     \comment{The letter '{b}''.}
8682 \endsetslot
8683
8684 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
8685
8686     \setslot{\lc{C}{c}}
8687         \comment{The letter '{c}''.}
8688     \endsetslot
8689
8690 \Fi
8691
8692 \setslot{\lc{D}{d}}
8693     \comment{The letter '{d}''.}
8694 \endsetslot
8695
8696 \setslot{\lc{E}{e}}
8697     \comment{The letter '{e}''.}
8698 \endsetslot
8699
8700 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
8701
8702     \setslot{\lc{F}{f}}
8703         \ifnumber{\int{ligaturing}}>{0}\then
8704             \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
```

```
8705     \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{f_f}}
8706     \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
8707     \Fi
8708     \comment{The letter '{f}'.}
8709 \endsetslot
8710
8711 \Fi
8712
8713 \setslot{\lc{G}{g}}
8714     \comment{The letter '{g}'.}
8715 \endsetslot
8716
8717 \setslot{\lc{H}{h}}
8718     \comment{The letter '{h}'.}
8719 \endsetslot
8720
8721 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
8722
8723     \setslot{\lc{I}{i}}
8724     \comment{The letter '{i}'.}
8725     \endsetslot
8726
8727 \Fi
8728
8729 \setslot{\lc{J}{j}}
8730     \comment{The letter '{j}'.}
8731 \endsetslot
8732
8733 \setslot{\lc{K}{k}}
8734     \comment{The letter '{k}'.}
8735 \endsetslot
8736
8737 \setslot{\lc{L}{l}}
8738     \comment{The letter '{l}'.}
8739 \endsetslot
8740
8741 \setslot{\lc{M}{m}}
8742     \comment{The letter '{m}'.}
8743 \endsetslot
8744
8745 \setslot{\lc{N}{n}}
8746     \comment{The letter '{n}'.}
8747 \endsetslot
8748
8749 \setslot{\lc{O}{o}}
8750     \comment{The letter '{o}'.}
8751 \endsetslot
8752
8753 \setslot{\lc{P}{p}}
8754     \comment{The letter '{p}'.}
8755 \endsetslot
8756
8757 \setslot{\lc{Q}{q}}
8758     \comment{The letter '{q}'.}
```



```
8759 \endsetslot
8760
8761 \setslot{\lc{R}{r}}
8762   \comment{The letter '{r}'.}
8763 \endsetslot
8764
8765 \ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else
8766
8767   \setslot{\lc{S}{s}}
8768     \comment{The letter '{s}'.}
8769   \endsetslot
8770
8771 \Fi
8772
8773 \setslot{\lc{T}{t}}
8774   \comment{The letter '{t}'.}
8775 \endsetslot
8776
8777 \setslot{\lc{U}{u}}
8778   \comment{The letter '{u}'.}
8779 \endsetslot
8780
8781 \setslot{\lc{V}{v}}
8782   \comment{The letter '{v}'.}
8783 \endsetslot
8784
8785 \setslot{\lc{W}{w}}
8786   \comment{The letter '{w}'.}
8787 \endsetslot
8788
8789 \setslot{\lc{X}{x}}
8790   \comment{The letter '{x}'.}
8791 \endsetslot
8792
8793 \setslot{\lc{Y}{y}}
8794   \comment{The letter '{y}'.}
8795 \endsetslot
8796
8797 \setslot{\lc{Z}{z}}
8798   \comment{The letter '{z}'.}
8799 \endsetslot
8800
8801 \setslot{braceleft}
8802   \comment{The opening curly brace '\textbraceleft'.}
8803 \endsetslot
8804
8805 \setslot{bar}
8806   \comment{The ASCII vertical bar '\textbar'.
8807   This is included for compatibility with typewriter fonts used
8808   for computer listings.}
8809 \endsetslot
8810
8811 \setslot{braceright}
8812   \comment{The closing curly brace '\textbraceright'.}
```

```
8813 \endsetslot
8814
8815 \setslot{asciitilde}
8816   \comment{The ASCII tilde '\textasciitilde'.
8817     This is included for compatibility with typewriter fonts used
8818     for computer listings.}
8819 \endsetslot
8820
8821 \setslot{hyphenchar}
8822   \comment{The glyph used for hyphenation in this font, which will
8823     almost always be the same as 'hyphen'.}
8824 \endsetslot
8825
8826 \setslot{\uctop{Abreve}{abreve}}
8827   \comment{The letter '\u A'.}
8828 \endsetslot
8829
8830 \setslot{\uc{Aogonek}{aogonek}}
8831   \comment{The letter '\k A'.}
8832 \endsetslot
8833
8834 \setslot{\uctop{Cacute}{cacute}}
8835   \comment{The letter '\ ' C'.}
8836 \endsetslot
8837
8838 \setslot{\uctop{Ccaron}{ccaron}}
8839   \comment{The letter '\v C'.}
8840 \endsetslot
8841
8842 \setslot{\uctop{Dcaron}{dcaron}}
8843   \comment{The letter '\v D'.}
8844 \endsetslot
8845
8846 \setslot{\uctop{Ecaron}{ecaron}}
8847   \comment{The letter '\v E'.}
8848 \endsetslot
8849
8850 \setslot{\uc{Eogonek}{eogonek}}
8851   \comment{The letter '\k E'.}
8852 \endsetslot
8853
8854 \setslot{\uctop{Gbreve}{gbreve}}
8855   \comment{The letter '\u G'.}
8856 \endsetslot
8857
8858 \setslot{\uctop{Lacute}{lacute}}
8859   \comment{The letter '\ ' L'.}
8860 \endsetslot
8861
8862 \setslot{\uc{Lcaron}{lcaron}}
8863   \comment{The letter '\v L'.}
8864 \endsetslot
8865
8866 \setslot{\uc{Lslash}{lslash}}
```

```
8867   \comment{The letter ‘\L’..}
8868 \endsetslot
8869
8870 \setslot{\uctop{Nacute}{nacute}}
8871   \comment{The letter ‘\’ N’..}
8872 \endsetslot
8873
8874 \setslot{\uctop{Ncaron}{ncaron}}
8875   \comment{The letter ‘\v N’..}
8876 \endsetslot
8877
8878 \setslot{\uc{Eng}{eng}}
8879   \comment{The Sami letter ‘\NG’. It is unavailable in \plain\ \TeX. This needs
      to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as in t1.etx in most cases, it
      seems..}
8880 \endsetslot
8881
8882 \setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
8883   \comment{The letter ‘\H O’..}
8884 \endsetslot
8885
8886 \setslot{\uctop{Racute}{racute}}
8887   \comment{The letter ‘\’ R’..}
8888 \endsetslot
8889
8890 \setslot{\uctop{Rcaron}{rcaron}}
8891   \comment{The letter ‘\v R’..}
8892 \endsetslot
8893
8894 \setslot{\uctop{Sacute}{sacute}}
8895   \comment{The letter ‘\’ S’..}
8896 \endsetslot
8897
8898 \setslot{\uctop{Scaron}{scaron}}
8899   \comment{The letter ‘\v S’..}
8900 \endsetslot
8901
8902 \setslot{\uc{Scedilla}{scedilla}}
8903   \comment{The letter ‘\c S’..}
8904 \endsetslot
8905
8906 \setslot{\uctop{Tcaron}{tcaron}}
8907   \comment{The letter ‘\v T’..}
8908 \endsetslot
8909
8910 \setslot{\uc{Tcedilla}{tcedilla}}
8911   \comment{The letter ‘\c T’..}
8912 \endsetslot
8913
8914 \setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
8915   \comment{The letter ‘\H U’..}
8916 \endsetslot
8917
8918 \setslot{\uctop{Uring}{uring}}
```

```
8919   \comment{The letter ‘\r U’ .}
8920 \endsetslot
8921
8922 \setslot{\uctop{Ydieresis}{ydieresis}}
8923   \comment{The letter ‘\ " Y’ .}
8924 \endsetslot
8925
8926 \setslot{\uctop{Zacute}{zacute}}
8927   \comment{The letter ‘\ ’ Z’ .}
8928 \endsetslot
8929
8930 \setslot{\uctop{Zcaron}{zcaron}}
8931   \comment{The letter ‘\v Z’ .}
8932 \endsetslot
8933
8934 \setslot{\uctop{Zdotaccent}{zdotaccent}}
8935   \comment{The letter ‘\ . Z’ .}
8936 \endsetslot
8937
8938 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
8939
8940   \setslot{\uclig{IJ}{ij}}
8941     \comment{The letter ‘IJ’ . This is a single letter, and in a
8942       monowidth font should ideally be one letter wide.}
8943   \endsetslot
8944
8945 \Fi
8946
8947 \setslot{\uctop{Idotaccent}{idotaccent}}
8948   \comment{The letter ‘\ . I’ .}
8949 \endsetslot
8950
8951 \setslot{\lc{Dbar}{dbar}}
8952   \comment{The letter ‘\dj’ .}
8953 \endsetslot
8954
8955 \setslot{section}
8956   \comment{The section mark ‘\textsection’ .}
8957 \endsetslot
8958
8959 \setslot{\lctop{Abreve}{abreve}}
8960   \comment{The letter ‘\u a’ .}
8961 \endsetslot
8962
8963 \setslot{\lc{Aogonek}{aogonek}}
8964   \comment{The letter ‘\k a’ .}
8965 \endsetslot
8966
8967 \setslot{\lctop{Cacute}{cacute}}
8968   \comment{The letter ‘\ ’ c’ .}
8969 \endsetslot
8970
8971 \setslot{\lctop{Ccaron}{ccaron}}
8972   \comment{The letter ‘\v c’ .}
```

```
8973 \endsetslot
8974
8975 \setslot{\lctop{Dcaron}{dcaron}}
8976   \comment{The letter ‘\v d’..}
8977 \endsetslot
8978
8979 \setslot{\lctop{Ecaron}{ecaron}}
8980   \comment{The letter ‘\v e’..}
8981 \endsetslot
8982
8983 \setslot{\lc{Eogonek}{eogonek}}
8984   \comment{The letter ‘\k e’..}
8985 \endsetslot
8986
8987 \setslot{\lctop{Gbreve}{gbreve}}
8988   \comment{The letter ‘\u g’..}
8989 \endsetslot
8990
8991 \setslot{\lctop{Lacute}{lacute}}
8992   \comment{The letter ‘\’ l’..}
8993 \endsetslot
8994
8995 \setslot{\lc{Lcaron}{lcaron}}
8996   \comment{The letter ‘\v l’..}
8997 \endsetslot
8998
8999 \setslot{\lc{Lslash}{lslash}}
9000   \comment{The letter ‘\l’..}
9001 \endsetslot
9002
9003 \setslot{\lctop{Nacute}{nacute}}
9004   \comment{The letter ‘\’ n’..}
9005 \endsetslot
9006
9007 \setslot{\lctop{Ncaron}{ncaron}}
9008   \comment{The letter ‘\v n’..}
9009 \endsetslot
9010
9011 \setslot{\lc{Eng}{eng}}
9012   \comment{The Sami letter ‘\ng’.
9013     It is unavailable in \plain\ TeX.
9014     This needs to be called ‘Eng’/‘eng’ rather than ‘Ng’/‘ng’ as it is in
9015     t1.etx in most cases, it seems.}
9016 \endsetslot
9017
9018 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
9019   \comment{The letter ‘\H o’..}
9020 \endsetslot
9021
9022 \setslot{\lctop{Racute}{racute}}
9023   \comment{The letter ‘\’ r’..}
9024 \endsetslot
9025
9026 \setslot{\lctop{Rcaron}{rcaron}}
```

```

9027   \comment{The letter ‘\v r’}
9028 \endsetslot
9029
9030 \setslot{\lctop{Sacute}{sacute}}
9031   \comment{The letter ‘\’ s’}
9032 \endsetslot
9033
9034 \setslot{\lctop{Scaron}{scaron}}
9035   \comment{The letter ‘\v s’}
9036 \endsetslot
9037
9038 \setslot{\lc{Scedilla}{scedilla}}
9039   \comment{The letter ‘\c s’}
9040 \endsetslot
9041
9042 \setslot{\lctop{Tcaron}{tcaron}}
9043   \comment{The letter ‘\v t’}
9044 \endsetslot
9045
9046 \setslot{\lc{Tcedilla}{tcedilla}}
9047   \comment{The letter ‘\c t’}
9048 \endsetslot
9049
9050 \setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
9051   \comment{The letter ‘\H u’}
9052 \endsetslot
9053
9054 \setslot{\lctop{Uring}{uring}}
9055   \comment{The letter ‘\r u’}
9056 \endsetslot
9057
9058 \setslot{\lctop{Ydieresis}{ydieresis}}
9059   \comment{The letter ‘\” y’}
9060 \endsetslot
9061
9062 \setslot{\lctop{Zacute}{zacute}}
9063   \comment{The letter ‘\’ z’}
9064 \endsetslot
9065
9066 \setslot{\lctop{Zcaron}{zcaron}}
9067   \comment{The letter ‘\v z’}
9068 \endsetslot
9069
9070 \setslot{\lctop{Zdotaccent}{zdotaccent}}
9071   \comment{The letter ‘\. z’}
9072 \endsetslot
9073
9074 \ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else
9075
9076   \setslot{\lclig{IJ}{ij}}
9077     \comment{The letter ‘ij’. This is a single letter, and in a
9078       monowidth font should ideally be one letter wide.}
9079   \endsetslot
9080

```

```
9081 \Fi
9082
9083 \setslot{exclamdown}
9084   \comment{The Spanish punctuation mark ‘!’.}
9085 \endsetslot
9086
9087 \setslot{questiondown}
9088   \comment{The Spanish punctuation mark ‘?’.}
9089 \endsetslot
9090
9091 \setslot{sterling}
9092   \comment{The British currency mark ‘\textsterling’}
9093 \endsetslot
9094
9095 \setslot{\uctop{Agrave}{agrave}}
9096   \comment{The letter ‘\’ A’}
9097 \endsetslot
9098
9099 \setslot{\uctop{Aacute}{aacute}}
9100   \comment{The letter ‘\’ A’}
9101 \endsetslot
9102
9103 \setslot{\uctop{Acircumflex}{acircumflex}}
9104   \comment{The letter ‘\^ A’}
9105 \endsetslot
9106
9107 \setslot{\uctop{Atilde}{atilde}}
9108   \comment{The letter ‘\~ A’}
9109 \endsetslot
9110
9111 \setslot{\uctop{Adieresis}{adieresis}}
9112   \comment{The letter ‘\” A’}
9113 \endsetslot
9114
9115 \setslot{\uctop{Aring}{aring}}
9116   \comment{The letter ‘\r A’}
9117 \endsetslot
9118
9119 \setslot{\uc{AE}{ae}}
9120   \comment{The letter ‘AE’. This is a single letter, and should not be
9121     faked with ‘AE’}
9122 \endsetslot
9123
9124 \setslot{\uc{Ccedilla}{ccedilla}}
9125   \comment{The letter ‘\c C’}
9126 \endsetslot
9127
9128 \setslot{\uctop{Egrave}{egrave}}
9129   \comment{The letter ‘\’ E’}
9130 \endsetslot
9131
9132 \setslot{\uctop{Eacute}{eacute}}
9133   \comment{The letter ‘\’ E’}
9134 \endsetslot
```

```
9135
9136 \setslot{\uctop{Ecircumflex}{ecircumflex}}
9137   \comment{The letter ‘ $\hat{E}$ ’}
9138 \endsetslot
9139
9140 \setslot{\uctop{Edieresis}{edieresis}}
9141   \comment{The letter ‘ $\ddot{E}$ ’}
9142 \endsetslot
9143
9144 \setslot{\uctop{Igrave}{igrave}}
9145   \comment{The letter ‘ $\grave{I}$ ’}
9146 \endsetslot
9147
9148 \setslot{\uctop{Iacute}{iacute}}
9149   \comment{The letter ‘ $\acute{I}$ ’}
9150 \endsetslot
9151
9152 \setslot{\uctop{Icircumflex}{icircumflex}}
9153   \comment{The letter ‘ $\hat{I}$ ’}
9154 \endsetslot
9155
9156 \setslot{\uctop{Idieresis}{idieresis}}
9157   \comment{The letter ‘ $\ddot{I}$ ’}
9158 \endsetslot
9159
9160 \setslot{\uc{Eth}{eth}}
9161   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
9162     with a horizontal bar through the stem. It is unavailable
9163     in \plain\ TeX.}
9164 \endsetslot
9165
9166 \setslot{\uctop{Ntilde}{ntilde}}
9167   \comment{The letter ‘ $\tilde{N}$ ’}
9168 \endsetslot
9169
9170 \setslot{\uctop{Ograve}{ograve}}
9171   \comment{The letter ‘ $\grave{O}$ ’}
9172 \endsetslot
9173
9174 \setslot{\uctop{Oacute}{oacute}}
9175   \comment{The letter ‘ $\acute{O}$ ’}
9176 \endsetslot
9177
9178 \setslot{\uctop{Ocircumflex}{ocircumflex}}
9179   \comment{The letter ‘ $\hat{O}$ ’}
9180 \endsetslot
9181
9182 \setslot{\uctop{Otilde}{otilde}}
9183   \comment{The letter ‘ $\tilde{O}$ ’}
9184 \endsetslot
9185
9186 \setslot{\uctop{Odieresis}{odieresis}}
9187   \comment{The letter ‘ $\ddot{O}$ ’}
9188 \endsetslot
```



```
9189
9190 \setslot{\uc{OE}{oe}}
9191   \comment{The letter ‘\OE’. This is a single letter, and should not be
9192     faked with ‘OE’..}
9193 \endsetslot
9194
9195 \setslot{\uc{Oslash}{oslash}}
9196   \comment{The letter ‘\O’..}
9197 \endsetslot
9198
9199 \setslot{\uctop{Ugrave}{ugrave}}
9200   \comment{The letter ‘\’ U’..}
9201 \endsetslot
9202
9203 \setslot{\uctop{Uacute}{uacute}}
9204   \comment{The letter ‘\’ U’..}
9205 \endsetslot
9206
9207 \setslot{\uctop{Ucircumflex}{ucircumflex}}
9208   \comment{The letter ‘\^ U’..}
9209 \endsetslot
9210
9211 \setslot{\uctop{Udieresis}{udieresis}}
9212   \comment{The letter ‘\” U’..}
9213 \endsetslot
9214
9215 \setslot{\uctop{Yacute}{yacute}}
9216   \comment{The letter ‘\’ Y’..}
9217 \endsetslot
9218
9219 \setslot{\uc{Thorn}{thorn}}
9220   \comment{The Icelandic capital letter Thorn, similar to a ‘P’
9221     with the bowl moved down. It is unavailable in \plain\ \TeX..}
9222 \endsetslot
9223
9224 \setslot{\uclig{SS}{germandbls}}
9225   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’.
9226     In a monowidth font it should be two letters wide..}
9227 \endsetslot
9228
9229 \setslot{\lctop{Agrave}{agrave}}
9230   \comment{The letter ‘\’ a’..}
9231 \endsetslot
9232
9233 \setslot{\lctop{Aacute}{aacute}}
9234   \comment{The letter ‘\’ a’..}
9235 \endsetslot
9236
9237 \setslot{\lctop{Acircumflex}{acircumflex}}
9238   \comment{The letter ‘\^ a’..}
9239 \endsetslot
9240
9241 \setslot{\lctop{Atilde}{atilde}}
9242   \comment{The letter ‘\~ a’..}
```

```
9243 \endsetslot
9244
9245 \setslot{\lctop{Adieresis}{adieresis}}
9246   \comment{The letter '\ " a'.}
9247 \endsetslot
9248
9249 \setslot{\lctop{Aring}{aring}}
9250   \comment{The letter '\r a'.}
9251 \endsetslot
9252
9253 \setslot{\lc{AE}{ae}}
9254   \comment{The letter '\ae'. This is a single letter, and should not be
9255     faked with 'ae'.}
9256 \endsetslot
9257
9258 \setslot{\lc{Ccedilla}{ccedilla}}
9259   \comment{The letter '\c c'.}
9260 \endsetslot
9261
9262 \setslot{\lctop{Egrave}{egrave}}
9263   \comment{The letter '\ ' e'.}
9264 \endsetslot
9265
9266 \setslot{\lctop{Eacute}{eacute}}
9267   \comment{The letter '\ ' e'.}
9268 \endsetslot
9269
9270 \setslot{\lctop{Ecircumflex}{ecircumflex}}
9271   \comment{The letter '\^ e'.}
9272 \endsetslot
9273
9274 \setslot{\lctop{Edieresis}{edieresis}}
9275   \comment{The letter '\ " e'.}
9276 \endsetslot
9277
9278 \setslot{\lctop{Igrave}{igrave}}
9279   \comment{The letter '\ ' i'.}
9280 \endsetslot
9281
9282 \setslot{\lctop{Iacute}{iacute}}
9283   \comment{The letter '\ ' i'.}
9284 \endsetslot
9285
9286 \setslot{\lctop{Icircumflex}{icircumflex}}
9287   \comment{The letter '\^ i'.}
9288 \endsetslot
9289
9290 \setslot{\lctop{Idieresis}{idieresis}}
9291   \comment{The letter '\ " i'.}
9292 \endsetslot
9293
9294 \setslot{\lc{Eth}{eth}}
9295   \comment{The Icelandic lowercase letter 'eth' similar to
9296     a '$\partial$' with an oblique bar through the stem.
```

```
9297     It is unavailable in \plain\ \TeX.}
9298 \endsetslot
9299
9300 \setslot{\lctop{Ntilde}{ntilde}}
9301   \comment{The letter '\~ n'.}
9302 \endsetslot
9303
9304 \setslot{\lctop{Ograve}{ograve}}
9305   \comment{The letter '\` o'.}
9306 \endsetslot
9307
9308 \setslot{\lctop{Oacute}{oacute}}
9309   \comment{The letter '\` o'.}
9310 \endsetslot
9311
9312 \setslot{\lctop{Ocircumflex}{ocircumflex}}
9313   \comment{The letter '\^ o'.}
9314 \endsetslot
9315
9316 \setslot{\lctop{Otilde}{otilde}}
9317   \comment{The letter '\~ o'.}
9318 \endsetslot
9319
9320 \setslot{\lctop{Odieresis}{odieresis}}
9321   \comment{The letter '\" o'.}
9322 \endsetslot
9323
9324 \setslot{\lc{OE}{oe}}
9325   \comment{The letter 'oe'. This is a single letter, and should not be
9326     faked with 'oe'.}
9327 \endsetslot
9328
9329 \setslot{\lc{Oslash}{oslash}}
9330   \comment{The letter '\o'.}
9331 \endsetslot
9332
9333 \setslot{\lctop{Ugrave}{ugrave}}
9334   \comment{The letter '\` u'.}
9335 \endsetslot
9336
9337 \setslot{\lctop{Uacute}{uacute}}
9338   \comment{The letter '\` u'.}
9339 \endsetslot
9340
9341 \setslot{\lctop{Ucircumflex}{ucircumflex}}
9342   \comment{The letter '\^ u'.}
9343 \endsetslot
9344
9345 \setslot{\lctop{Udieresis}{udieresis}}
9346   \comment{The letter '\" u'.}
9347 \endsetslot
9348
9349 \setslot{\lctop{Yacute}{yacute}}
9350   \comment{The letter '\` y'.}
```

```

9351 \endsetslot
9352
9353 \setslot{\lc{Thorn}{thorn}}
9354   \comment{The Icelandic lowercase letter ‘thorn’, similar to a ‘p’
9355     with an ascender rising from the stem. It is unavailable
9356     in \plain\ \TeX.}
9357 \endsetslot
9358
9359 \setslot{\lc{SS}{germandbls}}
9360   \comment{The letter ‘\ss’.)}
9361 \endsetslot
9362
9363 \endencoding

```

4.3.13 t1j-f_f.etx

t1j-f_f.etx (*etx*)

```

9364 \relax
9365

```

t1j-f_f.etx – install a T1-encoded roman font with oldstyle and f-ligatures named f_f etc.

We do not need to distinguish between roman and italic in T1, hence we simply call t1-f_f.etx with oldstyle parameters.

```

9366
9367 \encoding
9368
9369 \setcommand\lc#1#2{#2}
9370 \setcommand\uc#1#2{#1}
9371 \setcommand\lctop#1#2{#2}
9372 \setcommand\uctop#1#2{#1}
9373 \setcommand\lclig#1#2{#2}
9374 \setcommand\uclig#1#2{#1}
9375 \setcommand\digit#1{#1oldstyle}
9376
9377 \inputetx{t1-f_f}
9378
9379 \endencoding

```

4.3.14 ts1-dotinf.etx

ts1-dotinf.etx (*etx*)

```

9380 %%
9381 %% - The commentary in the original is deleted in this version. For
9382 %% information about the TS1 etc., typeset the original ts1.etx
9383 %% included with fontinst.
9384 %% - The original notices at the top of that file concerning authors,
9385 %% maintenance etc. are replaced by this notice.
9386 %% - The file is renamed.
9387 %% - The encoding name is modified.
9388 %% - The file is modified to accommodate differences in glyph names.

```

```

9389 %% - The file may be modified for use in encoding other characters.
9390 %%
9391 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
9392 \relax
9393
9394 \encoding
9395
9396 \setstr{codingscheme}{TEX TEXT COMPANION 1---TS1 DOTINF}
9397
9398 \ifisglyph{x}\then
9399   \setint{xheight}{\height{x}}
9400 \else
9401   \setint{xheight}{500}
9402 \fi
9403
9404 \ifisglyph{space}\then
9405   \setint{interword}{\width{space}}
9406 \else\ifisglyph{i}\then
9407   \setint{interword}{\width{i}}
9408 \else
9409   \setint{interword}{333}
9410 \fi\fi
9411
9412 \setint{italicslant}{0}
9413
9414
9415 \setint{fontdimen(1)}{\int{italicslant}}           % italic slant
9416 \setint{fontdimen(2)}{\int{interword}}           % interword space
9417 \setint{fontdimen(3)}{0}                          % interword stretch
9418 \setint{fontdimen(4)}{0}                          % interword shrink
9419 \setint{fontdimen(5)}{\int{xheight}}             % x-height
9420 \setint{fontdimen(6)}{1000}                       % quad
9421 \setint{fontdimen(7)}{\int{interword}}           % extra space after .
9422
9423 \nextslot{0}
9424 \setslot{capitalgrave.inferior}
9425   \comment{The grave accent '\capitalgrave{}', intended for use with
9426     capital letters.}
9427 \endsetslot
9428
9429 \setslot{capitalacute.inferior}
9430   \comment{The acute accent '\capitalacute{}', intended for use with
9431     capital letters.}
9432 \endsetslot
9433
9434 \setslot{capitalcircumflex.inferior}
9435   \comment{The circumflex accent '\capitalcircumflex{}', intended for
9436     use with capital letters.}
9437 \endsetslot
9438
9439 \setslot{capitaltilde.inferior}
9440   \comment{The tilde accent '\capitaltilde{}', intended for use with
9441     capital letters.}
9442 \endsetslot

```

```
9443
9444 \setslot{capitaldieresis.inferior}
9445   \comment{The umlaut or dieresis accent '\capitaldieresis{'}',
9446     intended for use with capital letters.}
9447 \endsetslot
9448
9449 \setslot{capitalhungarumlaut.inferior}
9450   \comment{The long Hungarian umlaut '\capitalhungarumlaut{'}',
9451     intended for use with capital letters.}
9452 \endsetslot
9453
9454 \setslot{capitalring.inferior}
9455   \comment{The ring accent '\capitalring{'}', intended for use with
9456     capital letters.}
9457 \endsetslot
9458
9459 \setslot{capitalcaron.inferior}
9460   \comment{The caron or h'a\v cek accent '\capitalcaron{'}', intended
9461     for use with capital letters.}
9462 \endsetslot
9463
9464 \setslot{capitalbreve.inferior}
9465   \comment{The breve accent '\capitalbreve{'}', intended for use with
9466     capital letters.}
9467 \endsetslot
9468
9469 \setslot{capitalmacron.inferior}
9470   \comment{The macron accent '\capitalmacron{'}', intended for use with
9471     capital letters.}
9472 \endsetslot
9473
9474 \setslot{capitaldotaccent.inferior}
9475   \comment{The dot accent '\capitaldotaccent{'}', intended for use with
9476     capital letters.}
9477 \endsetslot
9478
9479 \setslot{cedilla.inferior}
9480   \comment{The cedilla accent '\capitalcedilla{'}', intended for use
9481     with capital letters.}
9482 \endsetslot
9483
9484 \setslot{ogonek.inferior}
9485   \comment{The ogonek accent '\capitalogonek{'}', intended for use with
9486     capital letters.}
9487 \endsetslot
9488
9489 \nextslot{13}
9490 \setslot{quotesinglbase.inferior}
9491   \comment{A straight single quote mark on the baseline,
9492     '\textquotestraightbase'.}
9493 \endsetslot
9494
9495 \nextslot{18}
9496 \setslot{quotedblbase.inferior}
```

```
9497     \comment{A straight double quote mark on the baseline,
9498           '\textquotestraightdblbase'.}
9499 \endsetslot
9500
9501 \nextslot{21}
9502 \setslot{twelveudash.inferior}
9503     \comment{A 2/3-em dash, '\texttwelveudash'.}
9504 \endsetslot
9505
9506 \setslot{threequartersemdash.inferior}
9507     \comment{A 3/4-em dash, '\textthreequartersemdash'.}
9508 \endsetslot
9509
9510 \nextslot{23}
9511 \setslot{capitalcompwordmark.inferior}
9512     \comment{An invisible glyph, with zero width and depth, but the
9513           height of capital letters.
9514           It is used to stop ligaturing in words like 'shelf{}ful'.}
9515 \endsetslot
9516
9517 \nextslot{24}
9518 \setslot{arrowleft.inferior}
9519     \comment{A left pointing arrow, '\textleftarrow', unavailable in
9520           most PostScript fonts.}
9521 \endsetslot
9522
9523 \setslot{arrowright.inferior}
9524     \comment{A right pointing arrow, '\textrightarrow', unavailable in
9525           most PostScript fonts.}
9526 \endsetslot
9527
9528 \nextslot{26}
9529 \setslot{tieaccentlowercase.inferior}
9530     \comment{The original tie accent '\t{}', intended for use with
9531           lowercase letters.}
9532 \endsetslot
9533
9534 \setslot{tieaccentcapital.inferior}
9535     \comment{The tie accent '\capitaltie{}', intended for use with
9536           capital letters.}
9537 \endsetslot
9538
9539 \setslot{newtieaccentlowercase.inferior}
9540     \comment{A new tie accent '\newtie{}', intended for use with
9541           lowercase letters.}
9542 \endsetslot
9543
9544 \setslot{newtieaccentcapital.inferior}
9545     \comment{A new tie accent '\capitalnewtie{}', intended for use
9546           with capital letters.}
9547 \endsetslot
9548
9549 \nextslot{31}
9550 \setslot{ascendercompwordmark.inferior}
```

```
9551     \comment{An invisible glyph, with zero width and depth, but the
9552           height of lowercase letters with ascenders.
9553           It is used to stop ligaturing in words like 'shelf{}ful'.}
9554 \endsetslot
9555
9556 \nextslot{32}
9557 \setslot{blank.inferior}
9558     \comment{The blank indicator '\textblank', similar to the letter 'b'
9559           with an oblique bar through the stem.}
9560 \endsetslot
9561
9562 \nextslot{36}
9563 \setslot{dollar.inferior}
9564     \comment{The dollar sign '\textdollar'.}
9565 \endsetslot
9566
9567 \nextslot{39}
9568 \setslot{quotesingle.inferior}
9569     \comment{A straight single quote mark, '\textquotesingle'.}
9570 \endsetslot
9571
9572 \nextslot{42}
9573 \setslot{asteriskcentered.inferior}
9574     \comment{The centered asterisk, '\textasteriskcentered'.}
9575 \endsetslot
9576
9577 \nextslot{44}
9578 \setslot{comma.inferior}
9579     \comment{The decimal comma ','.}
9580 \endsetslot
9581
9582 \nextslot{45}
9583 \setslot{hyphendbl.inferior}
9584     \comment{An alternate double hyphen, '\textdblhyphen'.}
9585 \endsetslot
9586
9587 \nextslot{46}
9588 \setslot{period.inferior}
9589     \comment{The decimal point '.'.}
9590 \endsetslot
9591
9592 \nextslot{47}
9593 \setslot{fraction.inferior}
9594     \comment{The fraction slash '\textfractionsolidus'.}
9595 \endsetslot
9596
9597 \nextslot{48}
9598 \setslot{zerooldstyle.inferior}
9599     \comment{The oldstyle number '\oldstylenums{0}'.}
9600 \endsetslot
9601
9602 \setslot{oneoldstyle.inferior}
9603     \comment{The oldstyle number '\oldstylenums{1}'.}
9604 \endsetslot
```



```
9605
9606 \setslot{twooldstyle.inferior}
9607   \comment{The oldstyle number '\oldstylenums{2}'.}
9608 \endsetslot
9609
9610 \setslot{threeoldstyle.inferior}
9611   \comment{The oldstyle number '\oldstylenums{3}'.}
9612 \endsetslot
9613
9614 \setslot{fouroldstyle.inferior}
9615   \comment{The oldstyle number '\oldstylenums{4}'.}
9616 \endsetslot
9617
9618 \setslot{fiveoldstyle.inferior}
9619   \comment{The oldstyle number '\oldstylenums{5}'.}
9620 \endsetslot
9621
9622 \setslot{sixoldstyle.inferior}
9623   \comment{The oldstyle number '\oldstylenums{6}'.}
9624 \endsetslot
9625
9626 \setslot{sevenoldstyle.inferior}
9627   \comment{The oldstyle number '\oldstylenums{7}'.}
9628 \endsetslot
9629
9630 \setslot{eightoldstyle.inferior}
9631   \comment{The oldstyle number '\oldstylenums{8}'.}
9632 \endsetslot
9633
9634 \setslot{nineoldstyle.inferior}
9635   \comment{The oldstyle number '\oldstylenums{9}'.}
9636 \endsetslot
9637
9638 \nextslot{60}
9639 \setslot{angbracketleft.inferior}
9640   \comment{The opening angle bracket '\textlangle', unavailable in
9641     most PostScript fonts.}
9642 \endsetslot
9643
9644 \nextslot{61}
9645 \setslot{minus.inferior}
9646   \comment{The subtraction sign '\textminus'.}
9647 \endsetslot
9648
9649 \nextslot{62}
9650 \setslot{angbracketright.inferior}
9651   \comment{The closing angle bracket '\textrangle', unavailable in
9652     most PostScript fonts.}
9653 \endsetslot
9654
9655 \nextslot{77}
9656 \setslot{Omegainv.inferior}
9657   \comment{The inverted Ohm sign '\textmho', unavailable in most fonts.}
9658 \endsetslot
```

```
9659
9660 \nextslot{79}
9661   \comment{A circle ‘\textbigcircle’, big enough to enclose a letter
9662         as in ‘\textcopyright’ or ‘\textregistered’}
9663 \setslot{bigcircle.inferior}
9664 \endsetslot
9665
9666 \nextslot{87}
9667 \setslot{Omega.inferior}
9668   \comment{The upright Ohm sign ‘\textohm’, unavailable in most fonts.
9669         Even if it is available in Mac-encoded fonts, it isn’t directly
9670         accessible in the 8r or 8y encodings.}
9671 \endsetslot
9672
9673 \nextslot{91}
9674 \setslot{openbracketleft.inferior}
9675   \comment{The opening double square bracket ‘\textlbrackdbl’,
9676         unavailable in most PostScript fonts.}
9677 \endsetslot
9678
9679 \nextslot{93}
9680 \setslot{openbracketright.inferior}
9681   \comment{The closing double square bracket ‘\textrbrackdbl’,
9682         unavailable in most PostScript fonts.}
9683 \endsetslot
9684
9685 \nextslot{94}
9686 \setslot{arrowup.inferior}
9687   \comment{An upwards pointing arrow ‘\textuparrow’, unavailable in
9688         most PostScript fonts.}
9689 \endsetslot
9690
9691 \nextslot{95}
9692 \setslot{arrowdown.inferior}
9693   \comment{An downwards pointing arrow ‘\textdownarrow’, unavailable
9694         in most PostScript fonts.}
9695 \endsetslot
9696
9697 \nextslot{96}
9698 \setslot{asciigrave.inferior}
9699   \comment{An ASCII-style grave ‘\textasciigrave’. This is supposed
9700         to be a character by itself rather than a combining accents.}
9701 \endsetslot
9702
9703 \nextslot{98}
9704 \setslot{born.inferior}
9705   \comment{The born symbol ‘\textborn’, unavailable in most PostScript
9706         fonts.}
9707 \endsetslot
9708
9709 \nextslot{99}
9710 \setslot{divorced.inferior}
9711   \comment{The divorced symbol ‘\textdivorced’, unavailable in most
9712         PostScript fonts.}
```

```
9713 \endsetslot
9714
9715 \nextslot{100}
9716 \setslot{died.inferior}
9717   \comment{The died symbol '\textdied', unavailable in most PostScript
9718     fonts.}
9719 \endsetslot
9720
9721 \nextslot{108}
9722 \setslot{leaf.inferior}
9723   \comment{The leaf symbol '\textleaf', unavailable in most PostScript
9724     fonts.}
9725 \endsetslot
9726
9727 \nextslot{109}
9728 \setslot{married.inferior}
9729   \comment{The married symbol '\textmarried', unavailable in most
9730     PostScript fonts.}
9731 \endsetslot
9732
9733 \nextslot{110}
9734 \setslot{musicalnote.inferior}
9735   \comment{A musical note symbol '\textmusicalnote', unavailable in
9736     most PostScript fonts.}
9737 \endsetslot
9738
9739 \nextslot{126}
9740 \setslot{tildelow.inferior}
9741   \comment{A lowered tilde '\texttildelow'. In most PostScript fonts
9742     it can be substituted by 'asciitilde', while '\textasciitilde'
9743     is supposed to be a raised 'tilde'.}
9744 \endsetslot
9745
9746 \nextslot{127}
9747 \setslot{hyphendblchar.inferior}
9748   \comment{The glyph used for hyphenation in this font, which will
9749     almost always be the same as 'hyphendbl'.}
9750 \endsetslot
9751
9752 \nextslot{128}
9753 \setslot{asciibreve.inferior}
9754   \comment{An ASCII-style breve '\textasciibreve'. This is supposed
9755     to be a character by itself rather than a combining accents.}
9756 \endsetslot
9757
9758 \setslot{asciicaron.inferior}
9759   \comment{An ASCII-style caron '\textasciicaron'. This is supposed
9760     to be a character by itself rather than a combining accents.}
9761 \endsetslot
9762
9763 \setslot{asciiactuedbl.inferior}
9764   \comment{An ASCII-style double tick mark, '\textacutedbl'.}
9765 \endsetslot
9766
```

```
9767 \setslot{asciigravedbl.inferior}
9768   \comment{An ASCII-style double backtick mark, '\textgravedbl'.}
9769 \endsetslot
9770
9771 \setslot{dagger.inferior}
9772   \comment{The single dagger '\textdagger'.}
9773 \endsetslot
9774
9775 \setslot{daggerdbl.inferior}
9776   \comment{The double dagger '\textdaggerdbl'.}
9777 \endsetslot
9778
9779 \setslot{bardbl.inferior}
9780   \comment{The double vertical bar '\textbardbl'.}
9781 \endsetslot
9782
9783 \setslot{perthousand.inferior}
9784   \comment{The perthousand sign '\textperthousand'.}
9785 \endsetslot
9786
9787 \setslot{bullet.inferior}
9788   \comment{The centered bullet '\textbullet'.}
9789 \endsetslot
9790
9791 \setslot{centigrade.inferior}
9792   \comment{The degree centigrade symbol '\textcelsius'.}
9793 \endsetslot
9794
9795 \setslot{dollaroldstyle.inferior}
9796   \comment{An oldstyle dollar sign '\textdollaroldstyle'.}
9797 \endsetslot
9798
9799 \setslot{centoldstyle.inferior}
9800   \comment{An oldstyle cent sign '\textcentoldstyle'.}
9801 \endsetslot
9802
9803 \setslot{florin.inferior}
9804   \comment{The florin sign '\textflorin'.}
9805 \endsetslot
9806
9807 \setslot{colonmonetary.inferior}
9808   \comment{The Colon currency sign '\textcolonmonetary', similar to
9809     a capital 'C' with a vertical bar through the middle.}
9810 \endsetslot
9811
9812 \setslot{won.inferior}
9813   \comment{The Won currency sign '\textwon', similar to a capital 'W'
9814     with two horizontal bars.}
9815 \endsetslot
9816
9817 \setslot{naira.inferior}
9818   \comment{The Naira currency sign '\textnaira', similar to a
9819     capital 'N' with two horizontal bars.}
9820 \endsetslot
```

```
9821
9822 \setslot{guarani.inferior}
9823   \comment{The Guarani currency sign '\textguarani', similar to
9824     a capital 'G' with a vertical bar through the middle.}
9825 \endsetslot
9826
9827 \setslot{peso.inferior}
9828   \comment{The Peso currency sign '\textpeso', similar to a capital 'P'
9829     with a horizontal bar through the bowl or below the bowl.}
9830 \endsetslot
9831
9832 \setslot{lira.inferior}
9833   \comment{The Lira currency sign '\textlira', similar to a sterling
9834     sign '\textsterling' with two horizontal bars.}
9835 \endsetslot
9836
9837 \setslot{recipe.inferior}
9838   \comment{The recipe symbol '\textrecipe', similar to a capital 'R'
9839     with an oblique bar through the tail.}
9840 \endsetslot
9841
9842 \setslot{interrobang.inferior}
9843   \comment{The interrobang symbol '\textinterrobang', similar to
9844     a combination of an exclamation mark and a question mark.}
9845 \endsetslot
9846
9847 \setslot{interrobangdown.inferior}
9848   \comment{The inverted interrobang symbol '\textinterrobangdown',
9849     similar to a combination of an inverted exclamation mark
9850     and an inverted question mark.}
9851 \endsetslot
9852
9853 \setslot{dong.inferior}
9854   \comment{The Dong currency sign '\textdong', similar to a lowercase
9855     'd' with a horizontal bar through the stem and another bar below
9856     the letter.}
9857 \endsetslot
9858
9859 \setslot{trademark.inferior}
9860   \comment{The trademark sign '\texttrademark', similar to the raised
9861     letters 'TM'.}
9862 \endsetslot
9863
9864 \setslot{pertenthousand.inferior}
9865   \comment{The pertenthousand sign '\textpertenthousand', unavailable
9866     in most PostScript fonts.}
9867 \endsetslot
9868
9869 \setslot{pilcrow.inferior}
9870   \comment{The pilcrow mark '\textpilcrow', similar to a paragraph
9871     mark '\textparagraph' with a single stem.}
9872 \endsetslot
9873
9874 \setslot{baht.inferior}
```

```
9875     \comment{The Baht currency sign '\textbaht', similar to a capital 'B'
9876           with a vertical bar through the middle.}
9877 \endsetslot
9878
9879 \setslot{numero.inferior}
9880     \comment{The numero sign '\textnumero', similar to the letter 'N'
9881           with a raised 'o', unavailable in most PostScript fonts.}
9882 \endsetslot
9883
9884 \setslot{discount.inferior}
9885     \comment{The discount sign '\textdiscount', similar to a stylized
9886           percent sign, unavailable in most PostScript fonts.}
9887 \endsetslot
9888
9889 \setslot{estimated.inferior}
9890     \comment{The estimated sign '\textestimated', similar to an enlarged
9891           lowercase 'e', unavailable in most PostScript fonts.}
9892 \endsetslot
9893
9894 \setslot{openbullet.inferior}
9895     \comment{The centered open bullet '\textopenbullet', unavailable
9896           in most PostScript fonts.}
9897 \endsetslot
9898
9899 \setslot{servicemark.inferior}
9900     \comment{The service mark sign '\textservicemark', similar to the
9901           raised letters 'SM', unavailable in most PostScript fonts.}
9902 \endsetslot
9903
9904 \nextslot{160}
9905 \setslot{quillbracketleft.inferior}
9906     \comment{The opening quill bracket '\textlquill', unavailable in
9907           most PostScript fonts.}
9908 \endsetslot
9909
9910 \setslot{quillbracketright.inferior}
9911     \comment{The closing quill bracket '\textrquill', unavailable in
9912           most PostScript fonts.}
9913 \endsetslot
9914
9915 \setslot{cent.inferior}
9916     \comment{The cent sign '\textcent'.}
9917 \endsetslot
9918
9919 \setslot{sterling.inferior}
9920     \comment{The British currency sign, '\textsterling'.}
9921 \endsetslot
9922
9923 \setslot{currency.inferior}
9924     \comment{The international currency sign, '\textcurrency'.}
9925 \endsetslot
9926
9927 \setslot{yen.inferior}
9928     \comment{The Japanese currency sign, '\textyen'.}
```

```
9929 \endsetslot
9930
9931 \setslot{brokenbar.inferior}
9932   \comment{A broken vertical bar, '\textbrokenbar', similar to
9933     '\textbar' with a gap through the middle.}
9934 \endsetslot
9935
9936 \setslot{section.inferior}
9937   \comment{The section mark '\textsection'.}
9938 \endsetslot
9939
9940 \setslot{asciidieresis.inferior}
9941   \comment{An ASCII-style dieresis '\textasciidieresis'. This is
9942     supposed to be character by itself rather than an accents.}
9943 \endsetslot
9944
9945 \setslot{copyright.inferior}
9946   \comment{The copyright sign '\textcopyright', similar to a small
9947     letter 'C' enclosed by a circle.}
9948 \endsetslot
9949
9950 \setslot{ordfeminine.inferior}
9951   \comment{The raised letter '\textordfeminine'.}
9952 \endsetslot
9953
9954 \setslot{copyleft.inferior}
9955   \comment{The reversed copyright sign '\textcopyleft', similar to
9956     a small reversed 'C' enclosed by a circle.}
9957 \endsetslot
9958
9959 \setslot{logicalnot.inferior}
9960   \comment{The logical not sign '\textlnot'.}
9961 \endsetslot
9962
9963 \setslot{circledP.inferior}
9964   \comment{A small letter 'P' enclosed by a circle, '\textcircledP',
9965     unavailable in most fonts.}
9966 \endsetslot
9967
9968 \setslot{registered.inferior}
9969   \comment{The registered trademark sign '\textregistered', similar to
9970     a small letter 'R' enclosed by a circle.}
9971 \endsetslot
9972
9973 \setslot{asciimacron.inferior}
9974   \comment{An ASCII-style macron '\textasciimacron'. This is supposed
9975     to be a character by itself rather than a combining accents.}
9976 \endsetslot
9977
9978 \setslot{degree.inferior}
9979   \comment{The degree sign '\textdegree'.}
9980 \endsetslot
9981
9982 \setslot{plusminus.inferior}
```

```
9983   \comment{The plus or minus sign '\textpm'.}
9984 \endsetslot
9985
9986 \setslot{two.superior}
9987   \comment{The raised digit '\texttwosuperior'.}
9988 \endsetslot
9989
9990 \setslot{three.superior}
9991   \comment{The raised digit '\textthreesuperior'.}
9992 \endsetslot
9993
9994 \setslot{asciiaacute.inferior}
9995   \comment{An ASCII-style acute '\textasciiaacute'. This is supposed
9996           to be a character by itself rather than a combining accents.}
9997 \endsetslot
9998
9999 \setslot{mu.inferior}
10000   \comment{The lowercase Greek letter '\textmu', intended for use as
10001           a prefix 'micro' in physical units.}
10002 \endsetslot
10003
10004 \setslot{paragraph.inferior}
10005   \comment{The paragraph mark '\textparagraph'.}
10006 \endsetslot
10007
10008 \setslot{periodcentered.inferior}
10009   \comment{The centered period '\textperiodcentered'.}
10010 \endsetslot
10011
10012 \setslot{referencemark.inferior}
10013   \comment{The reference mark '\textreferencemark', similar to
10014           a combination of the 'multiply' and 'divide' symbols.}
10015 \endsetslot
10016
10017 \setslot{one.superior}
10018   \comment{The raised digit '\textonesuperior'.}
10019 \endsetslot
10020
10021 \setslot{ordmasculine.inferior}
10022   \comment{The raised letter '\textordmasculine'.}
10023 \endsetslot
10024
10025 \setslot{radical.inferior}
10026   \comment{The radical sign '\textsurd', unavailable in most fonts.
10027           Even if it is available in Mac-encoded fonts, it isn't directly
10028           accessible in the 8r or 8y encodings.}
10029 \endsetslot
10030
10031 \setslot{onequarter.inferior}
10032   \comment{The fraction '\textonequarter'.}
10033 \endsetslot
10034
10035 \setslot{onehalf.inferior}
10036   \comment{The fraction '\textonehalf'.}
```



```

10037 \endsetslot
10038
10039 \setslot{threequarters.inferior}
10040   \comment{The fraction '\textthreequarters'.}
10041 \endsetslot
10042
10043 \setslot{Euro.inferior}
10044   \comment{The European currency sign, similar to '\texteuro'.}
10045 \endsetslot
10046
10047
10048 \nextslot{214}
10049 \setslot{multiply.inferior}
10050   \comment{The multiplication sign '\texttimes'.
10051           This symbol was originally intended to be put into slot~215,
10052           but ended up in this slot by mistake, at which time it was
10053           considered too late to change it.}
10054 \endsetslot
10055
10056 \nextslot{246}
10057 \setslot{divide.inferior}
10058   \comment{The divison sign '\textdiv'.
10059           This symbol was originally intended to be put into slot~247,
10060           but ended up in this slot by mistake, at which time it was
10061           onsidered too late to change it.}
10062 \endsetslot
10063
10064 \endencoding
10065

```

4.3.15 ts1-dotsup.etx

ts1-dotsup.etx (*etx*)

```

10066 %%
10067 %% - The commentary in the original is deleted in this version. For
10068 %% information about the TS1 etc., typeset the original ts1.etx
10069 %% included with fontinst.
10070 %% - The original notices at the top of that file concerning authors,
10071 %% maintenance etc. are replaced by this notice.
10072 %% - The file is renamed.
10073 %% - The encoding name is modified.
10074 %% - The file is modified to accommodate differences in glyph names.
10075 %% - The file may be modified for use in encoding other characters.
10076 %%
10077 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
10078 \relax
10079
10080 \encoding
10081
10082 \setstr{codingscheme}{TEX TEXT COMPANION 1---TS1 DOTSUP}
10083
10084 \ifisglyph{x}\then

```

```

10085   \setint{xheight}{\height{x}}
10086 \else
10087   \setint{xheight}{500}
10088 \fi
10089
10090 \ifisglyph{space}\then
10091   \setint{interword}{\width{space}}
10092 \else\ifisglyph{i}\then
10093   \setint{interword}{\width{i}}
10094 \else
10095   \setint{interword}{333}
10096 \fi\fi
10097
10098 \setint{italicslant}{0}
10099
10100
10101 \setint{fontdimen(1)}{\int{italicslant}}           % italic slant
10102 \setint{fontdimen(2)}{\int{interword}}           % interword space
10103 \setint{fontdimen(3)}{0}                          % interword stretch
10104 \setint{fontdimen(4)}{0}                          % interword shrink
10105 \setint{fontdimen(5)}{\int{xheight}}            % x-height
10106 \setint{fontdimen(6)}{1000}                      % quad
10107 \setint{fontdimen(7)}{\int{interword}}          % extra space after .
10108
10109 \nextslot{0}
10110 \setslot{capitalgrave.superior}
10111   \comment{The grave accent '\capitalgrave{}', intended for use with
10112     capital letters.}
10113 \endsetslot
10114
10115 \setslot{capitalacute.superior}
10116   \comment{The acute accent '\capitalacute{}', intended for use with
10117     capital letters.}
10118 \endsetslot
10119
10120 \setslot{capitalcircumflex.superior}
10121   \comment{The circumflex accent '\capitalcircumflex{}', intended for
10122     use with capital letters.}
10123 \endsetslot
10124
10125 \setslot{capitaltilde.superior}
10126   \comment{The tilde accent '\capitaltilde{}', intended for use with
10127     capital letters.}
10128 \endsetslot
10129
10130 \setslot{capitaldieresis.superior}
10131   \comment{The umlaut or dieresis accent '\capitaldieresis{}',
10132     intended for use with capital letters.}
10133 \endsetslot
10134
10135 \setslot{capitalhungarumlaut.superior}
10136   \comment{The long Hungarian umlaut '\capitalhungarumlaut{}',
10137     intended for use with capital letters.}
10138 \endsetslot

```

```
10139
10140 \setslot{capitalring.superior}
10141   \comment{The ring accent '\capitalring{}', intended for use with
10142     capital letters.}
10143 \endsetslot
10144
10145 \setslot{capitalcaron.superior}
10146   \comment{The caron or h\'a\v cek accent '\capitalcaron{}', intended
10147     for use with capital letters.}
10148 \endsetslot
10149
10150 \setslot{capitalbreve.superior}
10151   \comment{The breve accent '\capitalbreve{}', intended for use with
10152     capital letters.}
10153 \endsetslot
10154
10155 \setslot{capitalmacron.superior}
10156   \comment{The macron accent '\capitalmacron{}', intended for use with
10157     capital letters.}
10158 \endsetslot
10159
10160 \setslot{capitaldotaccent.superior}
10161   \comment{The dot accent '\capitaldotaccent{}', intended for use with
10162     capital letters.}
10163 \endsetslot
10164
10165 \setslot{cedilla.superior}
10166   \comment{The cedilla accent '\capitalcedilla{}', intended for use
10167     with capital letters.}
10168 \endsetslot
10169
10170 \setslot{ogonek.superior}
10171   \comment{The ogonek accent '\capitalogonek{}', intended for use with
10172     capital letters.}
10173 \endsetslot
10174
10175 \nextslot{13}
10176 \setslot{quotesinglbase.superior}
10177   \comment{A straight single quote mark on the baseline,
10178     '\textquotestraightbase'.}
10179 \endsetslot
10180
10181 \nextslot{18}
10182 \setslot{quotedblbase.superior}
10183   \comment{A straight double quote mark on the baseline,
10184     '\textquotestraightdblbase'.}
10185 \endsetslot
10186
10187 \nextslot{21}
10188 \setslot{twelveudash.superior}
10189   \comment{A 2/3-em dash, '\texttwelveudash'.}
10190 \endsetslot
10191
10192 \setslot{threequartersemdash.superior}
```

```
10193   \comment{A 3/4-em dash, ‘\textthreequartersemdash’.  
10194 \endsetslot  
10195  
10196 \nextslot{23}  
10197 \setslot{capitalcompwordmark.superior}  
10198   \comment{An invisible glyph, with zero width and depth, but the  
10199     height of capital letters.  
10200     It is used to stop ligaturing in words like ‘shelf{}ful’.  
10201 \endsetslot  
10202  
10203 \nextslot{24}  
10204 \setslot{arrowleft.superior}  
10205   \comment{A left pointing arrow, ‘\textleftarrow’, unavailable in  
10206     most PostScript fonts.  
10207 \endsetslot  
10208  
10209 \setslot{arrowright.superior}  
10210   \comment{A right pointing arrow, ‘\textrightarrow’, unavailable in  
10211     most PostScript fonts.  
10212 \endsetslot  
10213  
10214 \nextslot{26}  
10215 \setslot{tieaccentlowercase.superior}  
10216   \comment{The original tie accent ‘\t{}’, intended for use with  
10217     lowercase letters.  
10218 \endsetslot  
10219  
10220 \setslot{tieaccentcapital.superior}  
10221   \comment{The tie accent ‘\capitaltie{}’, intended for use with  
10222     capital letters.  
10223 \endsetslot  
10224  
10225 \setslot{newtieaccentlowercase.superior}  
10226   \comment{A new tie accent ‘\newtie{}’, intended for use with  
10227     lowercase letters.  
10228 \endsetslot  
10229  
10230 \setslot{newtieaccentcapital.superior}  
10231   \comment{A new tie accent ‘\capitalnewtie{}’, intended for use  
10232     with capital letters.  
10233 \endsetslot  
10234  
10235 \nextslot{31}  
10236 \setslot{ascendercompwordmark.superior}  
10237   \comment{An invisible glyph, with zero width and depth, but the  
10238     height of lowercase letters with ascenders.  
10239     It is used to stop ligaturing in words like ‘shelf{}ful’.  
10240 \endsetslot  
10241  
10242 \nextslot{32}  
10243 \setslot{blank.superior}  
10244   \comment{The blank indicator ‘\textblank’, similar to the letter ‘b’  
10245     with an oblique bar through the stem.  
10246 \endsetslot
```

```
10247
10248 \nextslot{36}
10249 \setslot{dollar.superior}
10250   \comment{The dollar sign '\textdollar'.}
10251 \endsetslot
10252
10253 \nextslot{39}
10254 \setslot{quotesingle.superior}
10255   \comment{A straight single quote mark, '\textquotesingle'.}
10256 \endsetslot
10257
10258 \nextslot{42}
10259 \setslot{asteriskcentered.superior}
10260   \comment{The centered asterisk, '\textasteriskcentered'.}
10261 \endsetslot
10262
10263 \nextslot{44}
10264 \setslot{comma.superior}
10265   \comment{The decimal comma ','.}
10266 \endsetslot
10267
10268 \nextslot{45}
10269 \setslot{hyphendbl.superior}
10270   \comment{An alternate double hyphen, '\textdblhyphen'.}
10271 \endsetslot
10272
10273 \nextslot{46}
10274 \setslot{period.superior}
10275   \comment{The decimal point '.'.}
10276 \endsetslot
10277
10278 \nextslot{47}
10279 \setslot{fraction.superior}
10280   \comment{The fraction slash '\textfractionsolidus'.}
10281 \endsetslot
10282
10283 \nextslot{48}
10284 \setslot{zerooldstyle.superior}
10285   \comment{The oldstyle number '\oldstylenums{0}'.}
10286 \endsetslot
10287
10288 \setslot{oneoldstyle.superior}
10289   \comment{The oldstyle number '\oldstylenums{1}'.}
10290 \endsetslot
10291
10292 \setslot{twooldstyle.superior}
10293   \comment{The oldstyle number '\oldstylenums{2}'.}
10294 \endsetslot
10295
10296 \setslot{threeoldstyle.superior}
10297   \comment{The oldstyle number '\oldstylenums{3}'.}
10298 \endsetslot
10299
10300 \setslot{fouroldstyle.superior}
```

```
10301   \comment{The oldstyle number ‘\oldstylenums{4}’ .}
10302 \endsetslot
10303
10304 \setslot{fiveoldstyle.superior}
10305   \comment{The oldstyle number ‘\oldstylenums{5}’ .}
10306 \endsetslot
10307
10308 \setslot{sixoldstyle.superior}
10309   \comment{The oldstyle number ‘\oldstylenums{6}’ .}
10310 \endsetslot
10311
10312 \setslot{sevenoldstyle.superior}
10313   \comment{The oldstyle number ‘\oldstylenums{7}’ .}
10314 \endsetslot
10315
10316 \setslot{eightoldstyle.superior}
10317   \comment{The oldstyle number ‘\oldstylenums{8}’ .}
10318 \endsetslot
10319
10320 \setslot{nineoldstyle.superior}
10321   \comment{The oldstyle number ‘\oldstylenums{9}’ .}
10322 \endsetslot
10323
10324 \nextslot{60}
10325 \setslot{angbracketleft.superior}
10326   \comment{The opening angle bracket ‘\textlangle’, unavailable in
10327     most PostScript fonts.}
10328 \endsetslot
10329
10330 \nextslot{61}
10331 \setslot{minus.superior}
10332   \comment{The subtraction sign ‘\textminus’ .}
10333 \endsetslot
10334
10335 \nextslot{62}
10336 \setslot{angbracketright.superior}
10337   \comment{The closing angle bracket ‘\textrangle’, unavailable in
10338     most PostScript fonts.}
10339 \endsetslot
10340
10341 \nextslot{77}
10342 \setslot{Omegainv.superior}
10343   \comment{The inverted Ohm sign ‘\textmho’, unavailable in most fonts.}
10344 \endsetslot
10345
10346 \nextslot{79}
10347   \comment{A circle ‘\textbigcircle’, big enough to enclose a letter
10348     as in ‘\textcopyright’ or ‘\textregistered’ .}
10349 \setslot{bigcircle.superior}
10350 \endsetslot
10351
10352 \nextslot{87}
10353 \setslot{Omega.superior}
10354   \comment{The upright Ohm sign ‘\textohm’, unavailable in most fonts.
```

```
10355     Even if it is available in Mac-encoded fonts, it isn't directly
10356     accessible in the 8r or 8y encodings.}
10357 \endsetslot
10358
10359 \nextslot{91}
10360 \setslot{openbracketleft.superior}
10361     \comment{The opening double square bracket '\textlbrackdbl',
10362     unavailable in most PostScript fonts.}
10363 \endsetslot
10364
10365 \nextslot{93}
10366 \setslot{openbracketright.superior}
10367     \comment{The closing double square bracket '\textrbrackdbl',
10368     unavailable in most PostScript fonts.}
10369 \endsetslot
10370
10371 \nextslot{94}
10372 \setslot{arrowup.superior}
10373     \comment{An upwards pointing arrow '\textuparrow', unavailable in
10374     most PostScript fonts.}
10375 \endsetslot
10376
10377 \nextslot{95}
10378 \setslot{arrowdown.superior}
10379     \comment{An downwards pointing arrow '\textdownarrow', unavailable
10380     in most PostScript fonts.}
10381 \endsetslot
10382
10383 \nextslot{96}
10384 \setslot{asciigrave.superior}
10385     \comment{An ASCII-style grave '\textasciigrave'. This is supposed
10386     to be a character by itself rather than a combining accents.}
10387 \endsetslot
10388
10389 \nextslot{98}
10390 \setslot{born.superior}
10391     \comment{The born symbol '\textborn', unavailable in most PostScript
10392     fonts.}
10393 \endsetslot
10394
10395 \nextslot{99}
10396 \setslot{divorced.superior}
10397     \comment{The divorced symbol '\textdivorced', unavailable in most
10398     PostScript fonts.}
10399 \endsetslot
10400
10401 \nextslot{100}
10402 \setslot{died.superior}
10403     \comment{The died symbol '\textdied', unavailable in most PostScript
10404     fonts.}
10405 \endsetslot
10406
10407 \nextslot{108}
10408 \setslot{leaf.superior}
```

```
10409   \comment{The leaf symbol '\textleaf', unavailable in most PostScript
10410         fonts.}
10411 \endsetslot
10412
10413 \nextslot{109}
10414 \setslot{married.superior}
10415   \comment{The married symbol '\textmarried', unavailable in most
10416         PostScript fonts.}
10417 \endsetslot
10418
10419 \nextslot{110}
10420 \setslot{musicalnote.superior}
10421   \comment{A musical note symbol '\textmusicalnote', unavailable in
10422         most PostScript fonts.}
10423 \endsetslot
10424
10425 \nextslot{126}
10426 \setslot{tildelow.superior}
10427   \comment{A lowered tilde '\texttildelow'. In most PostScript fonts
10428         it can be substituted by 'asciitilde', while '\textasciitilde'
10429         is supposed to be a raised 'tilde'.}
10430 \endsetslot
10431
10432 \nextslot{127}
10433 \setslot{hyphendblchar.superior}
10434   \comment{The glyph used for hyphenation in this font, which will
10435         almost always be the same as 'hyphendbl'.}
10436 \endsetslot
10437
10438 \nextslot{128}
10439 \setslot{asciibreve.superior}
10440   \comment{An ASCII-style breve '\textasciibreve'. This is supposed
10441         to be a character by itself rather than a combining accents.}
10442 \endsetslot
10443
10444 \setslot{asciicaron.superior}
10445   \comment{An ASCII-style caron '\textasciicaron'. This is supposed
10446         to be a character by itself rather than a combining accents.}
10447 \endsetslot
10448
10449 \setslot{asciiacutedbl.superior}
10450   \comment{An ASCII-style double tick mark, '\textacutedbl'.}
10451 \endsetslot
10452
10453 \setslot{asciigravedbl.superior}
10454   \comment{An ASCII-style double backtick mark, '\textgravedbl'.}
10455 \endsetslot
10456
10457 \setslot{dagger.superior}
10458   \comment{The single dagger '\textdagger'.}
10459 \endsetslot
10460
10461 \setslot{daggerdbl.superior}
10462   \comment{The double dagger '\textdaggerdbl'.}
```



```
10463 \endsetslot
10464
10465 \setslot{bardbl.superior}
10466   \comment{The double vertical bar '\textbardbl'.}
10467 \endsetslot
10468
10469 \setslot{perthousand.superior}
10470   \comment{The perthousand sign '\textperthousand'.}
10471 \endsetslot
10472
10473 \setslot{bullet.superior}
10474   \comment{The centered bullet '\textbullet'.}
10475 \endsetslot
10476
10477 \setslot{centigrade.superior}
10478   \comment{The degree centigrade symbol '\textcelsius'.}
10479 \endsetslot
10480
10481 \setslot{dollaroldstyle.superior}
10482   \comment{An oldstyle dollar sign '\textdollaroldstyle'.}
10483 \endsetslot
10484
10485 \setslot{centoldstyle.superior}
10486   \comment{An oldstyle cent sign '\textcentoldstyle'.}
10487 \endsetslot
10488
10489 \setslot{florin.superior}
10490   \comment{The florin sign '\textflorin'.}
10491 \endsetslot
10492
10493 \setslot{colonmonetary.superior}
10494   \comment{The Colon currency sign '\textcolonmonetary', similar to
10495     a capital 'C' with a vertical bar through the middle.}
10496 \endsetslot
10497
10498 \setslot{won.superior}
10499   \comment{The Won currency sign '\textwon', similar to a capital 'W'
10500     with two horizontal bars.}
10501 \endsetslot
10502
10503 \setslot{naira.superior}
10504   \comment{The Naira currency sign '\textnaira', similar to a
10505     capital 'N' with two horizontal bars.}
10506 \endsetslot
10507
10508 \setslot{guarani.superior}
10509   \comment{The Guarani currency sign '\textguarani', similar to
10510     a capital 'G' with a vertical bar through the middle.}
10511 \endsetslot
10512
10513 \setslot{peso.superior}
10514   \comment{The Peso currency sign '\textpeso', similar to a capital 'P'
10515     with a horizontal bar through the bowl or below the bowl.}
10516 \endsetslot
```

```
10517
10518 \setslot{lira.superior}
10519   \comment{The Lira currency sign '\textlira', similar to a sterling
10520     sign '\textsterling' with two horizontal bars.}
10521 \endsetslot
10522
10523 \setslot{recipe.superior}
10524   \comment{The recipe symbol '\textrecipe', similar to a capital 'R'
10525     with an oblique bar through the tail.}
10526 \endsetslot
10527
10528 \setslot{interrobang.superior}
10529   \comment{The interrobang symbol '\textinterrobang', similar to
10530     a combination of an exclamation mark and a question mark.}
10531 \endsetslot
10532
10533 \setslot{interrobangdown.superior}
10534   \comment{The inverted interrobang symbol '\textinterrobangdown',
10535     similar to a combination of an inverted exclamation mark
10536     and an inverted question mark.}
10537 \endsetslot
10538
10539 \setslot{dong.superior}
10540   \comment{The Dong currency sign '\textdong', similar to a lowercase
10541     'd' with a horizontal bar through the stem and another bar below
10542     the letter.}
10543 \endsetslot
10544
10545 \setslot{trademark.superior}
10546   \comment{The trademark sign '\texttrademark', similar to the raised
10547     letters 'TM'.}
10548 \endsetslot
10549
10550 \setslot{pertenthousand.superior}
10551   \comment{The pertenthousand sign '\textpertenthousand', unavailable
10552     in most PostScript fonts.}
10553 \endsetslot
10554
10555 \setslot{pilcrow.superior}
10556   \comment{The pilcrow mark '\textpilcrow', similar to a paragraph
10557     mark '\textparagraph' with a single stem.}
10558 \endsetslot
10559
10560 \setslot{baht.superior}
10561   \comment{The Baht currency sign '\textbaht', similar to a capital 'B'
10562     with a vertical bar through the middle.}
10563 \endsetslot
10564
10565 \setslot{numero.superior}
10566   \comment{The numero sign '\textnumero', similar to the letter 'N'
10567     with a raised 'o', unavailable in most PostScript fonts.}
10568 \endsetslot
10569
10570 \setslot{discount.superior}
```

```
10571     \comment{The discount sign '\textdiscount', similar to a stylized
10572         percent sign, unavailable in most PostScript fonts.}
10573 \endsetslot
10574
10575 \setslot{estimated.superior}
10576     \comment{The estimated sign '\textestimated', similar to an enlarged
10577         lowercase 'e', unavailable in most PostScript fonts.}
10578 \endsetslot
10579
10580 \setslot{openbullet.superior}
10581     \comment{The centered open bullet '\textopenbullet', unavailable
10582         in most PostScript fonts.}
10583 \endsetslot
10584
10585 \setslot{servicemark.superior}
10586     \comment{The service mark sign '\textservicemark', similar to the
10587         raised letters 'SM', unavailable in most PostScript fonts.}
10588 \endsetslot
10589
10590 \nextslot{160}
10591 \setslot{quillbracketleft.superior}
10592     \comment{The opening quill bracket '\textlquill', unavailable in
10593         most PostScript fonts.}
10594 \endsetslot
10595
10596 \setslot{quillbracketright.superior}
10597     \comment{The closing quill bracket '\textrquill', unavailable in
10598         most PostScript fonts.}
10599 \endsetslot
10600
10601 \setslot{cent.superior}
10602     \comment{The cent sign '\textcent'.}
10603 \endsetslot
10604
10605 \setslot{sterling.superior}
10606     \comment{The British currency sign, '\textsterling'.}
10607 \endsetslot
10608
10609 \setslot{currency.superior}
10610     \comment{The international currency sign, '\textcurrency'.}
10611 \endsetslot
10612
10613 \setslot{yen.superior}
10614     \comment{The Japanese currency sign, '\textyen'.}
10615 \endsetslot
10616
10617 \setslot{brokenbar.superior}
10618     \comment{A broken vertical bar, '\textbrokenbar', similar to
10619         '\textbar' with a gap through the middle.}
10620 \endsetslot
10621
10622 \setslot{section.superior}
10623     \comment{The section mark '\textsection'.}
10624 \endsetslot
```

```
10625
10626 \setslot{asciidieresis.superior}
10627   \comment{An ASCII-style dieresis '\textasciidieresis'. This is
10628     supposed to be character by itself rather than an accents.}
10629 \endsetslot
10630
10631 \setslot{copyright.superior}
10632   \comment{The copyright sign '\textcopyright', similar to a small
10633     letter 'C' enclosed by a circle.}
10634 \endsetslot
10635
10636 \setslot{ordfeminine.superior}
10637   \comment{The raised letter '\textordfeminine'.}
10638 \endsetslot
10639
10640 \setslot{copyleft.superior}
10641   \comment{The reversed copyright sign '\textcopyleft', similar to
10642     a small reversed 'C' enclosed by a circle.}
10643 \endsetslot
10644
10645 \setslot{logicalnot.superior}
10646   \comment{The logical not sign '\textlnot'.}
10647 \endsetslot
10648
10649 \setslot{circledP.superior}
10650   \comment{A small letter 'P' enclosed by a circle, '\textcircledP',
10651     unavailable in most fonts.}
10652 \endsetslot
10653
10654 \setslot{registered.superior}
10655   \comment{The registered trademark sign '\textregistered', similar to
10656     a small letter 'R' enclosed by a circle.}
10657 \endsetslot
10658
10659 \setslot{asciimacron.superior}
10660   \comment{An ASCII-style macron '\textasciimacron'. This is supposed
10661     to be a character by itself rather than a combining accents.}
10662 \endsetslot
10663
10664 \setslot{degree.superior}
10665   \comment{The degree sign '\textdegree'.}
10666 \endsetslot
10667
10668 \setslot{plusminus.superior}
10669   \comment{The plus or minus sign '\textpm'.}
10670 \endsetslot
10671
10672 \setslot{two.superior}
10673   \comment{The raised digit '\texttwosuperior'.}
10674 \endsetslot
10675
10676 \setslot{three.superior}
10677   \comment{The raised digit '\textthreesuperior'.}
10678 \endsetslot
```

```
10679
10680 \setslot{asciiaacute.superior}
10681   \comment{An ASCII-style acute '\textasciiaacute'. This is supposed
10682     to be a character by itself rather than a combining accents.}
10683 \endsetslot
10684
10685 \setslot{mu.superior}
10686   \comment{The lowercase Greek letter '\textmu', intended for use as
10687     a prefix 'micro' in physical units.}
10688 \endsetslot
10689
10690 \setslot{paragraph.superior}
10691   \comment{The paragraph mark '\textparagraph'.}
10692 \endsetslot
10693
10694 \setslot{periodcentered.superior}
10695   \comment{The centered period '\textperiodcentered'.}
10696 \endsetslot
10697
10698 \setslot{referencemark.superior}
10699   \comment{The reference mark '\textreferencemark', similar to
10700     a combination of the 'multiply' and 'divide' symbols.}
10701 \endsetslot
10702
10703 \setslot{one.superior}
10704   \comment{The raised digit '\textonesuperior'.}
10705 \endsetslot
10706
10707 \setslot{ordmasculine.superior}
10708   \comment{The raised letter '\textordmasculine'.}
10709 \endsetslot
10710
10711 \setslot{radical.superior}
10712   \comment{The radical sign '\textsurd', unavailable in most fonts.
10713     Even if it is available in Mac-encoded fonts, it isn't directly
10714     accessible in the 8r or 8y encodings.}
10715 \endsetslot
10716
10717 \setslot{onequarter.superior}
10718   \comment{The fraction '\textonequarter'.}
10719 \endsetslot
10720
10721 \setslot{onehalf.superior}
10722   \comment{The fraction '\textonehalf'.}
10723 \endsetslot
10724
10725 \setslot{threequarters.superior}
10726   \comment{The fraction '\textthreequarters'.}
10727 \endsetslot
10728
10729 \setslot{Euro.superior}
10730   \comment{The European currency sign, similar to '\texteuro'.}
10731 \endsetslot
10732
```

```

10733
10734 \nextslot{214}
10735 \setslot{multiply.superior}
10736   \comment{The multiplication sign '\texttimes'.
10737     This symbol was originally intended to be put into slot~215,
10738     but ended up in this slot by mistake, at which time it was
10739     considered too late to change it.}
10740 \endsetslot
10741
10742 \nextslot{246}
10743 \setslot{divide.superior}
10744   \comment{The divison sign '\textdiv'.
10745     This symbol was originally intended to be put into slot~247,
10746     but ended up in this slot by mistake, at which time it was
10747     onsidered too late to change it.}
10748 \endsetslot
10749
10750 \endencoding
10751

```

4.3.16 ts1-euro.etx

ts1-euro.etx (*etx*)

```

10752 %%
10753 %% - The original notices at the top of that file concerning authors,
10754 %% maintenance etc. are replaced by this notice.
10755 %% - The file is renamed.
10756 %% - The encoding is modified to accommodate euro/Euro.%
10757 %%
10758 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
10759 \relax
10760 \encoding
10761
10762 \setstr{codingscheme}{TEX TEXT COMPANION 1---TS1 - EURO}
10763
10764 \ifisglyph{x}\then
10765   \setint{xheight}{\height{x}}
10766 \else
10767   \setint{xheight}{500}
10768 \fi
10769
10770 \ifisglyph{space}\then
10771   \setint{interword}{\width{space}}
10772 \else\ifisglyph{i}\then
10773   \setint{interword}{\width{i}}
10774 \else
10775   \setint{interword}{333}
10776 \fi\fi
10777
10778
10779 \setint{italicslant}{0}
10780

```

```
10781
10782 \setint{fontdimen(1)}{\int{italicslant}}           % italic slant
10783 \setint{fontdimen(2)}{\int{interword}}           % interword space
10784 \setint{fontdimen(3)}{0}                         % interword stretch
10785 \setint{fontdimen(4)}{0}                         % interword shrink
10786 \setint{fontdimen(5)}{\int{xheight}}             % x-height
10787 \setint{fontdimen(6)}{1000}                     % quad
10788 \setint{fontdimen(7)}{\int{interword}}         % extra space after .
10789
10790
10791 \nextslot{0}
10792 \setslot{capitalgrave}
10793   \comment{The grave accent '\capitalgrave{}', intended for use with
10794     capital letters.}
10795 \endsetslot
10796
10797 \setslot{capitalacute}
10798   \comment{The acute accent '\capitalacute{}', intended for use with
10799     capital letters.}
10800 \endsetslot
10801
10802 \setslot{capitalcircumflex}
10803   \comment{The circumflex accent '\capitalcircumflex{}', intended for
10804     use with capital letters.}
10805 \endsetslot
10806
10807 \setslot{capitaltilde}
10808   \comment{The tilde accent '\capitaltilde{}', intended for use with
10809     capital letters.}
10810 \endsetslot
10811
10812 \setslot{capitaldieresis}
10813   \comment{The umlaut or dieresis accent '\capitaldieresis{}',
10814     intended for use with capital letters.}
10815 \endsetslot
10816
10817 \setslot{capitalhungarumlaut}
10818   \comment{The long Hungarian umlaut '\capitalhungarumlaut{}',
10819     intended for use with capital letters.}
10820 \endsetslot
10821
10822 \setslot{capitalring}
10823   \comment{The ring accent '\capitalring{}', intended for use with
10824     capital letters.}
10825 \endsetslot
10826
10827 \setslot{capitalcaron}
10828   \comment{The caron or h'a\v cek accent '\capitalcaron{}', intended
10829     for use with capital letters.}
10830 \endsetslot
10831
10832 \setslot{capitalbreve}
10833   \comment{The breve accent '\capitalbreve{}', intended for use with
10834     capital letters.}
```

```
10835 \endsetslot
10836
10837 \setslot{capitalmacron}
10838   \comment{The macron accent '\capitalmacron{ }', intended for use with
10839     capital letters.}
10840 \endsetslot
10841
10842 \setslot{capitaldotaccent}
10843   \comment{The dot accent '\capitaldotaccent{ }', intended for use with
10844     capital letters.}
10845 \endsetslot
10846
10847 \setslot{cedilla}
10848   \comment{The cedilla accent '\capitalcedilla{ }', intended for use
10849     with capital letters.}
10850 \endsetslot
10851
10852 \setslot{ogonek}
10853   \comment{The ogonek accent '\capitalogonek{ }', intended for use with
10854     capital letters.}
10855 \endsetslot
10856
10857 \nextslot{13}
10858 \setslot{quotesinglbase}
10859   \comment{A straight single quote mark on the baseline,
10860     '\textquotestraightbase'.}
10861 \endsetslot
10862
10863 \nextslot{18}
10864 \setslot{quotedblbase}
10865   \comment{A straight double quote mark on the baseline,
10866     '\textquotestraightdblbase'.}
10867 \endsetslot
10868
10869 \nextslot{21}
10870 \setslot{twelveudash}
10871   \comment{A 2/3-em dash, '\texttwelveudash'.}
10872 \endsetslot
10873
10874 \setslot{threequartersemdash}
10875   \comment{A 3/4-em dash, '\textthreequartersemdash'.}
10876 \endsetslot
10877
10878 \nextslot{23}
10879 \setslot{capitalcompwordmark}
10880   \comment{An invisible glyph, with zero width and depth, but the
10881     height of capital letters.
10882     It is used to stop ligaturing in words like 'shelf{}ful'.}
10883 \endsetslot
10884
10885 \nextslot{24}
10886 \setslot{arrowleft}
10887   \comment{A left pointing arrow, '\textleftarrow', unavailable in
10888     most PostScript fonts.}
```



```
10889 \endsetslot
10890
10891 \setslot{arrowright}
10892   \comment{A right pointing arrow, '\textrightarrow', unavailable in
10893     most PostScript fonts.}
10894 \endsetslot
10895
10896 \nextslot{26}
10897 \setslot{tieaccentlowercase}
10898   \comment{The original tie accent '\t{}', intended for use with
10899     lowercase letters.}
10900 \endsetslot
10901
10902 \setslot{tieaccentcapital}
10903   \comment{The tie accent '\capitaltie{}', intended for use with
10904     capital letters.}
10905 \endsetslot
10906
10907 \setslot{newtieaccentlowercase}
10908   \comment{A new tie accent '\newtie{}', intended for use with
10909     lowercase letters.}
10910 \endsetslot
10911
10912 \setslot{newtieaccentcapital}
10913   \comment{A new tie accent '\capitalnewtie{}', intended for use
10914     with capital letters.}
10915 \endsetslot
10916
10917 \nextslot{31}
10918 \setslot{ascendercompwordmark}
10919   \comment{An invisible glyph, with zero width and depth, but the
10920     height of lowercase letters with ascenders.
10921     It is used to stop ligaturing in words like 'shelf{}ful'.}
10922 \endsetslot
10923
10924 \nextslot{32}
10925 \setslot{blank}
10926   \comment{The blank indicator '\textblank', similar to the letter 'b'
10927     with an oblique bar through the stem.}
10928 \endsetslot
10929
10930 \nextslot{36}
10931 \setslot{dollar}
10932   \comment{The dollar sign '\textdollar'.}
10933 \endsetslot
10934
10935 \nextslot{39}
10936 \setslot{quotesingle}
10937   \comment{A straight single quote mark, '\textquotesingle'.}
10938 \endsetslot
10939
10940 \nextslot{42}
10941 \setslot{asteriskcentered}
10942   \comment{The centered asterisk, '\textasteriskcentered'.}
```

```
10943 \endsetslot
10944
10945 \nextslot{44}
10946 \setslot{comma}
10947   \comment{The decimal comma ‘,’.}
10948 \endsetslot
10949
10950 \nextslot{45}
10951 \setslot{hyphendbl}
10952   \comment{An alternate double hyphen, ‘\textdblhyphen’..}
10953 \endsetslot
10954
10955 \nextslot{46}
10956 \setslot{period}
10957   \comment{The decimal point ‘.’.}
10958 \endsetslot
10959
10960 \nextslot{47}
10961 \setslot{fraction}
10962   \comment{The fraction slash ‘\textfractionsolidus’..}
10963 \endsetslot
10964
10965 \nextslot{48}
10966 \setslot{zerooldstyle}
10967   \comment{The oldstyle number ‘\oldstylenums{0}’..}
10968 \endsetslot
10969
10970 \setslot{oneoldstyle}
10971   \comment{The oldstyle number ‘\oldstylenums{1}’..}
10972 \endsetslot
10973
10974 \setslot{twooldstyle}
10975   \comment{The oldstyle number ‘\oldstylenums{2}’..}
10976 \endsetslot
10977
10978 \setslot{threeoldstyle}
10979   \comment{The oldstyle number ‘\oldstylenums{3}’..}
10980 \endsetslot
10981
10982 \setslot{fouroldstyle}
10983   \comment{The oldstyle number ‘\oldstylenums{4}’..}
10984 \endsetslot
10985
10986 \setslot{fiveoldstyle}
10987   \comment{The oldstyle number ‘\oldstylenums{5}’..}
10988 \endsetslot
10989
10990 \setslot{sixoldstyle}
10991   \comment{The oldstyle number ‘\oldstylenums{6}’..}
10992 \endsetslot
10993
10994 \setslot{sevenoldstyle}
10995   \comment{The oldstyle number ‘\oldstylenums{7}’..}
10996 \endsetslot
```

```
10997
10998 \setslot{eightoldstyle}
10999   \comment{The oldstyle number ‘\oldstylenums{8}’..}
11000 \endsetslot
11001
11002 \setslot{nineoldstyle}
11003   \comment{The oldstyle number ‘\oldstylenums{9}’..}
11004 \endsetslot
11005
11006 \nextslot{60}
11007 \setslot{angbracketleft}
11008   \comment{The opening angle bracket ‘\textlangle’, unavailable in
11009     most PostScript fonts.}
11010 \endsetslot
11011
11012 \nextslot{61}
11013 \setslot{minus}
11014   \comment{The subtraction sign ‘\textminus’..}
11015 \endsetslot
11016
11017 \nextslot{62}
11018 \setslot{angbracketright}
11019   \comment{The closing angle bracket ‘\textrangle’, unavailable in
11020     most PostScript fonts.}
11021 \endsetslot
11022
11023 \nextslot{77}
11024 \setslot{Omegainv}
11025   \comment{The inverted Ohm sign ‘\textmho’, unavailable in most fonts.}
11026 \endsetslot
11027
11028 \nextslot{79}
11029   \comment{A circle ‘\textbigcircle’, big enough to enclose a letter
11030     as in ‘\textcopyright’ or ‘\textregistered’..}
11031 \setslot{bigcircle}
11032 \endsetslot
11033
11034 \nextslot{87}
11035 \setslot{Omega}
11036   \comment{The upright Ohm sign ‘\textohm’, unavailable in most fonts.
11037     Even if it is available in Mac-encoded fonts, it isn’t directly
11038     accessible in the 8r or 8y encodings.}
11039 \endsetslot
11040
11041 \nextslot{91}
11042 \setslot{openbracketleft}
11043   \comment{The opening double square bracket ‘\textlbrackdbl’,
11044     unavailable in most PostScript fonts.}
11045 \endsetslot
11046
11047 \nextslot{93}
11048 \setslot{openbracketright}
11049   \comment{The closing double square bracket ‘\textrbrackdbl’,
11050     unavailable in most PostScript fonts.}
```

```
11051 \endsetslot
11052
11053 \nextslot{94}
11054 \setslot{arrowup}
11055   \comment{An upwards pointing arrow '\textuparrow', unavailable in
11056     most PostScript fonts.}
11057 \endsetslot
11058
11059 \nextslot{95}
11060 \setslot{arrowdown}
11061   \comment{An downwards pointing arrow '\textdownarrow', unavailable
11062     in most PostScript fonts.}
11063 \endsetslot
11064
11065 \nextslot{96}
11066 \setslot{asciigrave}
11067   \comment{An ASCII-style grave '\textasciigrave'. This is supposed
11068     to be a character by itself rather than a combining accents.}
11069 \endsetslot
11070
11071 \nextslot{98}
11072 \setslot{born}
11073   \comment{The born symbol '\textborn', unavailable in most PostScript
11074     fonts.}
11075 \endsetslot
11076
11077 \nextslot{99}
11078 \setslot{divorced}
11079   \comment{The divorced symbol '\textdivorced', unavailable in most
11080     PostScript fonts.}
11081 \endsetslot
11082
11083 \nextslot{100}
11084 \setslot{died}
11085   \comment{The died symbol '\textdied', unavailable in most PostScript
11086     fonts.}
11087 \endsetslot
11088
11089 \nextslot{108}
11090 \setslot{leaf}
11091   \comment{The leaf symbol '\textleaf', unavailable in most PostScript
11092     fonts.}
11093 \endsetslot
11094
11095 \nextslot{109}
11096 \setslot{married}
11097   \comment{The married symbol '\textmarried', unavailable in most
11098     PostScript fonts.}
11099 \endsetslot
11100
11101 \nextslot{110}
11102 \setslot{musicalnote}
11103   \comment{A musical note symbol '\textmusicalnote', unavailable in
11104     most PostScript fonts.}
```

```
11105 \endsetslot
11106
11107 \nextslot{126}
11108 \setslot{tildelow}
11109   \comment{A lowered tilde '\texttildelow'. In most PostScript fonts
11110     it can be substituted by 'asciitilde', while '\textasciitilde'
11111     is supposed to be a raised 'tilde'.}
11112 \endsetslot
11113
11114 \nextslot{127}
11115 \setslot{hyphendblchar}
11116   \comment{The glyph used for hyphenation in this font, which will
11117     almost always be the same as 'hyphendbl'.}
11118 \endsetslot
11119
11120 \nextslot{128}
11121 \setslot{asciibreve}
11122   \comment{An ASCII-style breve '\textasciibreve'. This is supposed
11123     to be a character by itself rather than a combining accents.}
11124 \endsetslot
11125
11126 \setslot{asciicaron}
11127   \comment{An ASCII-style caron '\textasciicaron'. This is supposed
11128     to be a character by itself rather than a combining accents.}
11129 \endsetslot
11130
11131 \setslot{asciiactedbl}
11132   \comment{An ASCII-style double tick mark, '\textactedbl'.}
11133 \endsetslot
11134
11135 \setslot{asciigravedbl}
11136   \comment{An ASCII-style double backtick mark, '\textgravedbl'.}
11137 \endsetslot
11138
11139 \setslot{dagger}
11140   \comment{The single dagger '\textdagger'.}
11141 \endsetslot
11142
11143 \setslot{daggerdbl}
11144   \comment{The double dagger '\textdaggerdbl'.}
11145 \endsetslot
11146
11147 \setslot{bardbl}
11148   \comment{The double vertical bar '\textbardbl'.}
11149 \endsetslot
11150
11151 \setslot{perthousand}
11152   \comment{The perthousand sign '\textperthousand'.}
11153 \endsetslot
11154
11155 \setslot{bullet}
11156   \comment{The centered bullet '\textbullet'.}
11157 \endsetslot
11158
```

```
11159 \setslot{centigrade}
11160   \comment{The degree centigrade symbol ‘\textcelsius’..}
11161 \endsetslot
11162
11163 \setslot{dollaroldstyle}
11164   \comment{An oldstyle dollar sign ‘\textdollaroldstyle’..}
11165 \endsetslot
11166
11167 \setslot{centoldstyle}
11168   \comment{An oldstyle cent sign ‘\textcentoldstyle’..}
11169 \endsetslot
11170
11171 \setslot{florin}
11172   \comment{The florin sign ‘\textflorin’..}
11173 \endsetslot
11174
11175 \setslot{colonmonetary}
11176   \comment{The Colon currency sign ‘\textcolonmonetary’, similar to
11177     a capital ‘C’ with a vertical bar through the middle..}
11178 \endsetslot
11179
11180 \setslot{won}
11181   \comment{The Won currency sign ‘\textwon’, similar to a capital ‘W’
11182     with two horizontal bars..}
11183 \endsetslot
11184
11185 \setslot{naira}
11186   \comment{The Naira currency sign ‘\textnaira’, similar to a
11187     capital ‘N’ with two horizontal bars..}
11188 \endsetslot
11189
11190 \setslot{guarani}
11191   \comment{The Guarani currency sign ‘\textguarani’, similar to
11192     a capital ‘G’ with a vertical bar through the middle..}
11193 \endsetslot
11194
11195 \setslot{peso}
11196   \comment{The Peso currency sign ‘\textpeso’, similar to a capital ‘P’
11197     with a horizontal bar through the bowl or below the bowl..}
11198 \endsetslot
11199
11200 \setslot{lira}
11201   \comment{The Lira currency sign ‘\textlira’, similar to a sterling
11202     sign ‘\textsterling’ with two horizontal bars..}
11203 \endsetslot
11204
11205 \setslot{recipe}
11206   \comment{The recipe symbol ‘\textrecipe’, similar to a capital ‘R’
11207     with an oblique bar through the tail..}
11208 \endsetslot
11209
11210 \setslot{interrobang}
11211   \comment{The interrobang symbol ‘\textinterrobang’, similar to
11212     a combination of an exclamation mark and a question mark..}
```

```
11213 \endsetslot
11214
11215 \setslot{interrobangdown}
11216   \comment{The inverted interrobang symbol '\textinterrobangdown',
11217     similar to a combination of an inverted exclamation mark
11218     and an inverted question mark.}
11219 \endsetslot
11220
11221 \setslot{dong}
11222   \comment{The Dong currency sign '\textdong', similar to a lowercase
11223     'd' with a horizontal bar through the stem and another bar below
11224     the letter.}
11225 \endsetslot
11226
11227 \setslot{trademark}
11228   \comment{The trademark sign '\texttrademark', similar to the raised
11229     letters 'TM'.}
11230 \endsetslot
11231
11232 \setslot{pertenthousand}
11233   \comment{The pertenthousand sign '\textpertenthousand', unavailable
11234     in most PostScript fonts.}
11235 \endsetslot
11236
11237 \setslot{pilcrow}
11238   \comment{The pilcrow mark '\textpilcrow', similar to a paragraph
11239     mark '\textparagraph' with a single stem.}
11240 \endsetslot
11241
11242 \setslot{baht}
11243   \comment{The Baht currency sign '\textbaht', similar to a capital 'B'
11244     with a vertical bar through the middle.}
11245 \endsetslot
11246
11247 \setslot{numero}
11248   \comment{The numero sign '\textnumero', similar to the letter 'N'
11249     with a raised 'o', unavailable in most PostScript fonts.}
11250 \endsetslot
11251
11252 \setslot{discount}
11253   \comment{The discount sign '\textdiscount', similar to a stylized
11254     percent sign, unavailable in most PostScript fonts.}
11255 \endsetslot
11256
11257 \setslot{estimated}
11258   \comment{The estimated sign '\textestimated', similar to an enlarged
11259     lowercase 'e', unavailable in most PostScript fonts.}
11260 \endsetslot
11261
11262 \setslot{openbullet}
11263   \comment{The centered open bullet '\textopenbullet', unavailable
11264     in most PostScript fonts.}
11265 \endsetslot
11266
```

```
11267 \setslot{servicemark}
11268     \comment{The service mark sign '\textservicemark', similar to the
11269           raised letters 'SM', unavailable in most PostScript fonts.}
11270 \endsetslot
11271
11272 \nextslot{160}
11273 \setslot{quillbracketleft}
11274     \comment{The opening quill bracket '\textlquill', unavailable in
11275           most PostScript fonts.}
11276 \endsetslot
11277
11278 \setslot{quillbracketright}
11279     \comment{The closing quill bracket '\textrquill', unavailable in
11280           most PostScript fonts.}
11281 \endsetslot
11282
11283 \setslot{cent}
11284     \comment{The cent sign '\textcent'.}
11285 \endsetslot
11286
11287 \setslot{sterling}
11288     \comment{The British currency sign, '\textsterling'.}
11289 \endsetslot
11290
11291 \setslot{currency}
11292     \comment{The international currency sign, '\textcurrency'.}
11293 \endsetslot
11294
11295 \setslot{yen}
11296     \comment{The Japanese currency sign, '\textyen'.}
11297 \endsetslot
11298
11299 \setslot{brokenbar}
11300     \comment{A broken vertical bar, '\textbrokenbar', similar to
11301           '\textbar' with a gap through the middle.}
11302 \endsetslot
11303
11304 \setslot{section}
11305     \comment{The section mark '\textsection'.}
11306 \endsetslot
11307
11308 \setslot{asciidieresis}
11309     \comment{An ASCII-style dieresis '\textasciidieresis'. This is
11310           supposed to be character by itself rather than an accents.}
11311 \endsetslot
11312
11313 \setslot{copyright}
11314     \comment{The copyright sign '\textcopyright', similar to a small
11315           letter 'C' enclosed by a circle.}
11316 \endsetslot
11317
11318 \setslot{ordfeminine}
11319     \comment{The raised letter '\textordfeminine'.}
11320 \endsetslot
```



```
11321
11322 \setslot{copyleft}
11323   \comment{The reversed copyright sign '\textcopyleft', similar to
11324     a small reversed 'C' enclosed by a circle.}
11325 \endsetslot
11326
11327 \setslot{logicalnot}
11328   \comment{The logical not sign '\textlnot'.}
11329 \endsetslot
11330
11331 \setslot{circledP}
11332   \comment{A small letter 'P' enclosed by a circle, '\textcircledP',
11333     unavailable in most fonts.}
11334 \endsetslot
11335
11336 \setslot{registered}
11337   \comment{The registered trademark sign '\textregistered', similar to
11338     a small letter 'R' enclosed by a circle.}
11339 \endsetslot
11340
11341 \setslot{asciimacron}
11342   \comment{An ASCII-style macron '\textasciimacron'. This is supposed
11343     to be a character by itself rather than a combining accents.}
11344 \endsetslot
11345
11346 \setslot{degree}
11347   \comment{The degree sign '\textdegree'.}
11348 \endsetslot
11349
11350 \setslot{plusminus}
11351   \comment{The plus or minus sign '\textpm'.}
11352 \endsetslot
11353
11354 \setslot{twosuperior}
11355   \comment{The raised digit '\texttwosuperior'.}
11356 \endsetslot
11357
11358 \setslot{threesuperior}
11359   \comment{The raised digit '\textthreesuperior'.}
11360 \endsetslot
11361
11362 \setslot{asciiaacute}
11363   \comment{An ASCII-style acute '\textasciiaacute'. This is supposed
11364     to be a character by itself rather than a combining accents.}
11365 \endsetslot
11366
11367 \setslot{mu}
11368   \comment{The lowercase Greek letter '\textmu', intended for use as
11369     a prefix 'micro' in physical units.}
11370 \endsetslot
11371
11372 \setslot{paragraph}
11373   \comment{The paragraph mark '\textparagraph'.}
11374 \endsetslot
```

```
11375
11376 \setslot{periodcentered}
11377   \comment{The centered period ‘\textperiodcentered’.]
11378 \endsetslot
11379
11380 \setslot{referencemark}
11381   \comment{The reference mark ‘\textreferencemark’, similar to
11382     a combination of the ‘multiply’ and ‘divide’ symbols.]
11383 \endsetslot
11384
11385 \setslot{onesuperior}
11386   \comment{The raised digit ‘\textonesuperior’.]
11387 \endsetslot
11388
11389 \setslot{ordmasculine}
11390   \comment{The raised letter ‘\textordmasculine’.]
11391 \endsetslot
11392
11393 \setslot{radical}
11394   \comment{The radical sign ‘\textsurd’, unavailable in most fonts.
11395     Even if it is available in Mac-encoded fonts, it isn’t directly
11396     accessible in the 8r or 8y encodings.]
11397 \endsetslot
11398
11399 \setslot{onequarter}
11400   \comment{The fraction ‘\textonequarter’.]
11401 \endsetslot
11402
11403 \setslot{onehalf}
11404   \comment{The fraction ‘\textonehalf’.]
11405 \endsetslot
11406
11407 \setslot{threequarters}
11408   \comment{The fraction ‘\textthreequarters’.]
11409 \endsetslot
11410
11411 \ifisglyph{euro}\then
11412   \setslot{euro}
11413   \comment{The European currency sign, similar to ‘\texteuro’.]
11414   \endsetslot
11415 \Else
11416   \setslot{Euro}
11417   \comment{The European currency sign, similar to ‘\texteuro’.]
11418   \endsetslot
11419 \Fi
11420
11421 \setslot{Euro}
11422   \comment{This just makes sure that any glyph labelled ‘Euro’ in the font gets
11423     encoded.
11424     The TS1 encoding will use the previous slot when the font is actually used by
11425     tex.
11426     At least, I think so.
11427     That is, since we’ve got spare slots in this encoding, we can use them to enable
11428     ‘either... or...’ encoding options both for reencoding the fonts for fontinst and
```

```

    for the tex encodings. (?!)}
11426 \endsetslot
11427
11428 \setslot{euro}
11429 \comment{This just makes sure that any glyph labelled 'euro' in the font gets
    encoded.
11430 The TS1 encoding will use the previous slot when the font is actually used by
    tex.
11431 At least, I think so.
11432 That is, since we've got spare slots in this encoding, we can use them to enable
    'either... or...' encoding options both for reencoding the fonts for fontinst and
    for the tex encodings. (?!)}
11433 \endsetslot
11434
11435 \nextslot{214}
11436 \setslot{multiply}
11437 \comment{The multiplication sign '\texttimes'.
11438 This symbol was originally intended to be put into slot~215,
11439 but ended up in this slot by mistake, at which time it was
11440 considered too late to change it.}
11441 \endsetslot
11442
11443 \nextslot{246}
11444 \setslot{divide}
11445 \comment{The divison sign '\textdiv'.
11446 This symbol was originally intended to be put into slot~247,
11447 but ended up in this slot by mistake, at which time it was
11448 onsidered too late to change it.}
11449 \endsetslot
11450
11451 \endencoding
11452
11453

```

4.3.17 ucdotalt.etx

ucdotalt.etx (*etx*)

```

11454 \relax
11455 \encoding
11456
11457 \setcommand\uc#1#2{#1.alt}
11458 \setcommand\uctop#1#2{#1.alt}
11459 \ifisint{letterspacing}\then
11460 \ifnumber{\int{letterspacing}}={0}\then \Else
11461 \setcommand\uclig#1#2{#1.altspaced}
11462 \comment{Here we set \verb|\uclig#1#2| to \verb|#1.altspaced|, but
11463 you can't see it as \verb|\setcommand| commands are invisible in
11464 the typeset output.}
11465 \Fi
11466 \Fi
11467 \setcommand\uclig#1#2{#1.alt}
11468

```

11469 \endencoding

Change History

v0.1

General: First public release. 1

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

Symbols

<code>\"</code>	574, 731, 1250, 1383, 1436, 1465, 1481, 1511, 1536, 1570, 1599, 1615, 1645, 1670, 1857, 2016, 2533, 2666, 2719, 2748, 2764, 2794, 2819, 2853, 2882, 2898, 2928, 2953, 3134, 3293, 3810, 3943, 3996, 4025, 4041, 4071, 4096, 4130, 4159, 4175, 4205, 4230, 4411, 4570, 5087, 5220, 5273, 5302, 5318, 5348, 5373, 5407, 5436, 5452, 5482, 5507, 5688, 5847, 6364, 6497, 6550, 6579, 6595, 6625, 6650, 6684, 6713, 6729, 6759, 6784, 6965, 7124, 7641, 7774, 7827, 7856, 7872, 7902, 7927, 7961, 7990, 8006, 8036, 8061, 8247, 8406, 8923, 9059, 9112, 9141, 9157, 9187, 9212, 9246, 9275, 9291, 9321, 9346	3984, 4017, 4033, 4059, 4088, 4100, 4118, 4151, 4167, 4193, 4222, 4234, 4399, 4423, 4999, 5023, 5035, 5051, 5059, 5091, 5132, 5156, 5168, 5184, 5192, 5224, 5261, 5294, 5310, 5336, 5365, 5377, 5395, 5428, 5444, 5470, 5499, 5511, 5676, 5700, 6276, 6300, 6312, 6328, 6336, 6368, 6409, 6433, 6445, 6461, 6469, 6501, 6538, 6571, 6587, 6613, 6642, 6654, 6672, 6705, 6721, 6747, 6776, 6788, 6953, 6977, 7553, 7577, 7589, 7605, 7613, 7645, 7686, 7710, 7722, 7738, 7746, 7778, 7815, 7848, 7864, 7890, 7919, 7931, 7949, 7982, 7998, 8024, 8053, 8065, 8235, 8259, 8835, 8859, 8871, 8887, 8895, 8927, 8968, 8992, 9004, 9023, 9031, 9063, 9100, 9133, 9149, 9175, 9204, 9216, 9234, 9267, 9283, 9309, 9338, 9350, 9460, 10146, 10828
<code>\#</code>	736, 2021, 3298, 4575, 5852, 7129, 8411	
<code>\\$</code>	740, 2025, 3302, 4579, 5856, 7133, 8415	
<code>\%</code> 669, 744, 1954, 2029, 3231, 3306, 4508, 4583, 5785, 5860, 7062, 7137, 8344, 8419	<code>\,</code> 625, 629, 728, 753, 998, 1908, 1912, 2013, 2038, 2283, 3185, 3189, 3290, 3315, 3560, 4462, 4466, 4567, 4592, 4837, 5739, 5743, 5844, 5869, 6114, 7016, 7020, 7121, 7146, 7391, 8298, 8302, 8403, 8428, 8673
<code>\&</code>	748, 2033, 3310, 4587, 5864, 7141, 8423	<code>\.</code> .. 598, 1262, 1275, 1395, 1881, 2545, 2558, 2678, 3158, 3822, 3835, 3955, 4435, 5099, 5112, 5232, 5712, 6376, 6389, 6509, 6989, 7653, 7666, 7786, 8271, 8935, 8948, 9071
<code>\'</code>	... 562, 586, 1160, 1184, 1196, 1214, 1222, 1254, 1295, 1319, 1331, 1347, 1355, 1387, 1424, 1457, 1473, 1499, 1528, 1540, 1558, 1591, 1607, 1633, 1662, 1674, 1845, 1869, 2445, 2469, 2481, 2497, 2505, 2537, 2578, 2602, 2614, 2630, 2638, 2670, 2707, 2740, 2756, 2782, 2811, 2823, 2841, 2874, 2890, 2916, 2945, 2957, 3122, 3146, 3722, 3746, 3758, 3774, 3782, 3814, 3855, 3879, 3891, 3907, 3915, 3947,	<code>\=</code> 594, 677, 682, 1877, 1962, 1967, 3154, 3239, 3244, 4431, 4516, 4521, 5708, 5793, 5798,

6985, 7070, 7075, 8267, 8352, 8357	
\backslash u 616, 621, 639, 644, 682, 731, 1204, 1339, 1487, 1545, 1621, 1680, 1899, 1904, 1922, 1927, 1967, 2016, 2489, 2622, 2770, 2828, 2904, 2963, 3176, 3181, 3199, 3204, 3244, 3293, 3766, 3899, 4047, 4105, 4181, 4240, 4453, 4458, 4476, 4481, 4521, 4570, 5043, 5176, 5324, 5382, 5458, 5517, 5730, 5735, 5753, 5758, 5798, 5847, 6320, 6453, 6601, 6659, 6735, 6794, 7007, 7012, 7030, 7035, 7075, 7124, 7597, 7730, 7878, 7936, 8012, 8071, 8289, 8294, 8312, 8317, 8357, 8406, 8879, 9013, 9163, 9221, 9297, 9356	
\backslash ~ 566, 1428, 1461, 1477, 1503, 1532, 1562, 1595, 1611, 1637, 1666, 1849, 2711, 2744, 2760, 2786, 2815, 2845, 2878, 2894, 2920, 2949, 3126, 3988, 4021, 4037, 4063, 4092, 4122, 4155, 4171, 4197, 4226, 4403, 5265, 5298, 5314, 5340, 5369, 5399, 5432, 5448, 5474, 5503, 5680, 6542, 6575, 6591, 6617, 6646, 6676, 6709, 6725, 6751, 6780, 6957, 7819, 7852, 7868, 7894, 7923, 7953, 7986, 8002, 8028, 8057, 8239, 9104, 9137, 9153, 9179, 9208, 9238, 9271, 9287, 9313, 9342	
\backslash ^ 558, 1420, 1453, 1469, 1495, 1524, 1554, 1587, 1603, 1629, 1658, 1841, 2703, 2736, 2752, 2778, 2807, 2837, 2870, 2886, 2912, 2941, 3118, 3980, 4013, 4029, 4055, 4084, 4114, 4147, 4163, 4189, 4218, 4395, 5257, 5290, 5306, 5332, 5361, 5391, 5424, 5440, 5466, 5495, 5672, 6534, 6567, 6583, 6609, 6638, 6668, 6701, 6717, 6743, 6772, 6949, 7811, 7844, 7860, 7886, 7915, 7945, 7978, 7994, 8020, 8049, 8231, 9096, 9129, 9145, 9171, 9200, 9230, 9263, 9279, 9305, 9334	
\backslash ~ 570, 1432, 1491, 1507, 1566, 1625, 1641, 1853, 2715, 2774, 2790, 2849, 2908, 2924, 3130, 3992, 4051, 4067, 4126, 4185, 4201, 4407, 5269, 5328, 5344, 5403, 5462, 5478, 5684, 6546, 6605, 6621, 6680, 6739, 6755, 6961, 7823, 7882, 7898, 7957, 8016, 8032, 8243, 9108, 9167, 9183, 9242, 9301, 9317	
	A
	\backslash add 275, 287, 301, 317, 331, 350, 366
	\backslash AE 1444, 2727, 4004, 5281, 6558, 7835, 9120
	\backslash ae 1578, 2861, 4138, 5415, 6692, 7969, 9254
	\backslash Aheading 62, 67
	autotestfds (var) 4, 14
	B
	\backslash begin 52, 71
	\backslash begincomment 26, 48, 165
	binmakers (var) 6, 14
	\backslash botaccent 43, 68
	C
	\backslash c 602, 1230, 1238, 1363, 1371, 1449, 1583, 1885, 2513, 2521, 2646, 2654, 2732, 2866, 3162, 3790, 3798, 3923, 3931, 4009, 4143, 4439, 5067, 5075, 5200, 5208, 5286, 5420, 5716, 6344, 6352, 6477, 6485, 6563, 6697, 6993, 7621, 7629, 7754, 7762, 7840, 7974, 8275, 8903, 8911, 9039, 9047, 9125, 9259
	\backslash capitalacute 9430, 10116, 10798
	\backslash capitalbreve 9465, 10151, 10833
	\backslash capitalcaron 9460, 10146, 10828
	\backslash capitalcedilla 9480, 10166, 10848
	\backslash capitalcircumflex 9435, 10121, 10803
	\backslash capitaldieresis 9445, 10131, 10813
	\backslash capitaldotaccent 9475, 10161, 10843
	\backslash capitalgrave 9425, 10111, 10793
	\backslash capitalhungarumlaut 9450, 10136, 10818
	\backslash capitalmacron 9470, 10156, 10838
	\backslash capitalnewtie 9545, 10231, 10913
	\backslash capitalogonek 9485, 10171, 10853
	\backslash capitalring 9455, 10141, 10823
	\backslash capitaltie 9535, 10221, 10903
	\backslash capitaltilde 9440, 10126, 10808
	\backslash char 731, 2016, 3293, 4570, 5847, 7124, 8406
	checkinit_hook() (fn) 4, 14
	\backslash clearpage 11
	\backslash comment 433, 551, 558, 562, 566, 570, 574, 578, 582, 586, 590, 594, 598, 602, 606, 610, 615, 620, 625, 629, 633, 638, 643, 649, 656, 663, 669, 676, 681, 692, 697, 702, 707, 712, 719, 724, 728, 736, 740, 744, 748, 753, 757, 761, 765, 769, 774, 780, 784, 788, 792, 797, 801, 805, 809, 813, 817, 821, 825, 829, 833, 837, 842, 846, 851, 856, 860, 864, 868, 872, 876, 880, 884, 888, 892, 898, 904, 908, 912, 916, 920, 924, 928, 932,

936, 940, 944, 948, 952, 956, 960,
964, 968, 972, 976, 980, 984, 990,
998, 1002, 1006, 1012, 1018, 1022,
1033, 1039, 1043, 1049, 1055, 1059,
1063, 1067, 1071, 1075, 1079, 1083,
1087, 1093, 1099, 1103, 1107, 1111,
1115, 1119, 1123, 1127, 1131, 1137,
1141, 1147, 1152, 1156, 1160, 1164,
1168, 1172, 1176, 1180, 1184, 1188,
1192, 1196, 1200, 1204, 1210, 1214,
1218, 1222, 1226, 1230, 1234, 1238,
1242, 1246, 1250, 1254, 1258, 1262,
1268, 1275, 1279, 1283, 1287, 1291,
1295, 1299, 1303, 1307, 1311, 1315,
1319, 1323, 1327, 1331, 1335, 1339,
1343, 1347, 1351, 1355, 1359, 1363,
1367, 1371, 1375, 1379, 1383, 1387,
1391, 1395, 1401, 1408, 1412, 1416,
1420, 1424, 1428, 1432, 1436, 1440,
1444, 1449, 1453, 1457, 1461, 1465,
1469, 1473, 1477, 1481, 1485, 1491,
1495, 1499, 1503, 1507, 1511, 1515,
1520, 1524, 1528, 1532, 1536, 1540,
1544, 1549, 1554, 1558, 1562, 1566,
1570, 1574, 1578, 1583, 1587, 1591,
1595, 1599, 1603, 1607, 1611, 1615,
1619, 1625, 1629, 1633, 1637, 1641,
1645, 1649, 1654, 1658, 1662, 1666,
1670, 1674, 1678, 1684, 1716, 1834,
1841, 1845, 1849, 1853, 1857, 1861,
1865, 1869, 1873, 1877, 1881, 1885,
1889, 1893, 1898, 1903, 1908, 1912,
1916, 1921, 1926, 1932, 1940, 1948,
1954, 1961, 1966, 1977, 1982, 1987,
1992, 1997, 2004, 2009, 2013, 2021,
2025, 2029, 2033, 2038, 2042,
2046, 2050, 2054, 2059, 2065,
2069, 2073, 2077, 2082, 2086,
2090, 2094, 2098, 2102, 2106, 2110,
2114, 2118, 2122, 2127, 2131, 2136,
2141, 2145, 2149, 2153, 2157, 2161,
2165, 2169, 2173, 2177, 2183, 2189,
2193, 2197, 2201, 2205, 2209, 2213,
2217, 2221, 2225, 2229, 2233, 2237,
2241, 2245, 2249, 2253, 2257, 2261,
2265, 2269, 2275, 2283, 2287,
2291, 2297, 2303, 2307, 2318, 2324,
2328, 2334, 2340, 2344, 2348,
2352, 2356, 2360, 2364, 2368,
2372, 2378, 2384, 2388, 2392,
2396, 2400, 2404, 2408, 2412, 2416,
2422, 2426, 2432, 2437, 2441, 2445,
2449, 2453, 2457, 2461, 2465, 2469,
2473, 2477, 2481, 2485, 2489, 2493,
2497, 2501, 2505, 2509, 2513, 2517,
2521, 2525, 2529, 2533, 2537, 2541,
2545, 2551, 2558, 2562, 2566,
2570, 2574, 2578, 2582, 2586,
2590, 2594, 2598, 2602, 2606,
2610, 2614, 2618, 2622, 2626, 2630,
2634, 2638, 2642, 2646, 2650,
2654, 2658, 2662, 2666, 2670,
2674, 2678, 2684, 2691, 2695, 2699,
2703, 2707, 2711, 2715, 2719, 2723,
2727, 2732, 2736, 2740, 2744, 2748,
2752, 2756, 2760, 2764, 2768, 2774,
2778, 2782, 2786, 2790, 2794, 2798,
2803, 2807, 2811, 2815, 2819, 2823,
2827, 2832, 2837, 2841, 2845, 2849,
2853, 2857, 2861, 2866, 2870,
2874, 2878, 2882, 2886, 2890,
2894, 2898, 2902, 2908, 2912,
2916, 2920, 2924, 2928, 2932,
2937, 2941, 2945, 2949, 2953,
2957, 2961, 2967, 2993, 3111, 3118,
3122, 3126, 3130, 3134, 3138, 3142,
3146, 3150, 3154, 3158, 3162, 3166,
3170, 3175, 3180, 3185, 3189, 3193,
3198, 3203, 3209, 3217, 3225, 3231,
3238, 3243, 3254, 3259, 3264,
3269, 3274, 3281, 3286, 3290,
3298, 3302, 3306, 3310, 3315,
3319, 3323, 3327, 3331, 3336,
3342, 3346, 3350, 3354, 3359,
3363, 3367, 3371, 3375, 3379,
3383, 3387, 3391, 3395, 3399,
3404, 3408, 3413, 3418, 3422, 3426,
3430, 3434, 3438, 3442, 3446,
3450, 3454, 3460, 3466, 3470, 3474,
3478, 3482, 3486, 3490, 3494,
3498, 3502, 3506, 3510, 3514,
3518, 3522, 3526, 3530, 3534,
3538, 3542, 3546, 3552, 3560,
3564, 3568, 3574, 3580, 3584,
3595, 3601, 3605, 3611, 3617, 3621,
3625, 3629, 3633, 3637, 3641,
3645, 3649, 3655, 3661, 3665,
3669, 3673, 3677, 3681, 3685,
3689, 3693, 3699, 3703, 3709,
3714, 3718, 3722, 3726, 3730, 3734,
3738, 3742, 3746, 3750, 3754, 3758,
3762, 3766, 3770, 3774, 3778, 3782,
3786, 3790, 3794, 3798, 3802,
3806, 3810, 3814, 3818, 3822, 3828,
3835, 3839, 3843, 3847, 3851,
3855, 3859, 3863, 3867, 3871,
3875, 3879, 3883, 3887, 3891,
3895, 3899, 3903, 3907, 3911,

3915, 3919, 3923, 3927, 3931, 3935,
3939, 3943, 3947, 3951, 3955,
3961, 3968, 3972, 3976, 3980,
3984, 3988, 3992, 3996, 4000,
4004, 4009, 4013, 4017, 4021, 4025,
4029, 4033, 4037, 4041, 4045, 4051,
4055, 4059, 4063, 4067, 4071, 4075,
4080, 4084, 4088, 4092, 4096,
4100, 4104, 4109, 4114, 4118, 4122,
4126, 4130, 4134, 4138, 4143, 4147,
4151, 4155, 4159, 4163, 4167, 4171,
4175, 4179, 4185, 4189, 4193, 4197,
4201, 4205, 4209, 4214, 4218, 4222,
4226, 4230, 4234, 4238, 4244, 4270,
4388, 4395, 4399, 4403, 4407,
4411, 4415, 4419, 4423, 4427, 4431,
4435, 4439, 4443, 4447, 4452, 4457,
4462, 4466, 4470, 4475, 4480, 4486,
4494, 4502, 4508, 4515, 4520, 4531,
4536, 4541, 4546, 4551, 4558, 4563,
4567, 4575, 4579, 4583, 4587, 4592,
4596, 4600, 4604, 4608, 4613, 4619,
4623, 4627, 4631, 4636, 4640, 4644,
4648, 4652, 4656, 4660, 4664,
4668, 4672, 4676, 4681, 4685, 4690,
4695, 4699, 4703, 4707, 4711, 4715,
4719, 4723, 4727, 4731, 4737, 4743,
4747, 4751, 4755, 4759, 4763, 4767,
4771, 4775, 4779, 4783, 4787, 4791,
4795, 4799, 4803, 4807, 4811, 4815,
4819, 4823, 4829, 4837, 4841, 4845,
4851, 4857, 4861, 4872, 4878, 4882,
4888, 4894, 4898, 4902, 4906,
4910, 4914, 4918, 4922, 4926, 4932,
4938, 4942, 4946, 4950, 4954,
4958, 4962, 4966, 4970, 4976,
4980, 4986, 4991, 4995, 4999,
5003, 5007, 5011, 5015, 5019, 5023,
5027, 5031, 5035, 5039, 5043,
5047, 5051, 5055, 5059, 5063,
5067, 5071, 5075, 5079, 5083,
5087, 5091, 5095, 5099, 5105,
5112, 5116, 5120, 5124, 5128, 5132,
5136, 5140, 5144, 5148, 5152, 5156,
5160, 5164, 5168, 5172, 5176, 5180,
5184, 5188, 5192, 5196, 5200, 5204,
5208, 5212, 5216, 5220, 5224, 5228,
5232, 5238, 5245, 5249, 5253,
5257, 5261, 5265, 5269, 5273, 5277,
5281, 5286, 5290, 5294, 5298,
5302, 5306, 5310, 5314, 5318, 5322,
5328, 5332, 5336, 5340, 5344,
5348, 5352, 5357, 5361, 5365,
5369, 5373, 5377, 5381, 5386,
5391, 5395, 5399, 5403, 5407, 5411,
5415, 5420, 5424, 5428, 5432, 5436,
5440, 5444, 5448, 5452, 5456, 5462,
5466, 5470, 5474, 5478, 5482, 5486,
5491, 5495, 5499, 5503, 5507, 5511,
5515, 5521, 5547, 5665, 5672, 5676,
5680, 5684, 5688, 5692, 5696,
5700, 5704, 5708, 5712, 5716, 5720,
5724, 5729, 5734, 5739, 5743, 5747,
5752, 5757, 5763, 5771, 5779, 5785,
5792, 5797, 5808, 5813, 5818, 5823,
5828, 5835, 5840, 5844, 5852,
5856, 5860, 5864, 5869, 5873,
5877, 5881, 5885, 5890, 5896,
5900, 5904, 5908, 5913, 5917, 5921,
5925, 5929, 5933, 5937, 5941,
5945, 5949, 5953, 5958, 5962,
5967, 5972, 5976, 5980, 5984,
5988, 5992, 5996, 6000, 6004,
6008, 6014, 6020, 6024, 6028,
6032, 6036, 6040, 6044, 6048,
6052, 6056, 6060, 6064, 6068,
6072, 6076, 6080, 6084, 6088,
6092, 6096, 6100, 6106, 6114, 6118,
6122, 6128, 6134, 6138, 6149, 6155,
6159, 6165, 6171, 6175, 6179, 6183,
6187, 6191, 6195, 6199, 6203, 6209,
6215, 6219, 6223, 6227, 6231, 6235,
6239, 6243, 6247, 6253, 6257,
6263, 6268, 6272, 6276, 6280,
6284, 6288, 6292, 6296, 6300,
6304, 6308, 6312, 6316, 6320,
6324, 6328, 6332, 6336, 6340,
6344, 6348, 6352, 6356, 6360,
6364, 6368, 6372, 6376, 6382,
6389, 6393, 6397, 6401, 6405,
6409, 6413, 6417, 6421, 6425, 6429,
6433, 6437, 6441, 6445, 6449, 6453,
6457, 6461, 6465, 6469, 6473, 6477,
6481, 6485, 6489, 6493, 6497, 6501,
6505, 6509, 6515, 6522, 6526,
6530, 6534, 6538, 6542, 6546,
6550, 6554, 6558, 6563, 6567,
6571, 6575, 6579, 6583, 6587, 6591,
6595, 6599, 6605, 6609, 6613,
6617, 6621, 6625, 6629, 6634,
6638, 6642, 6646, 6650, 6654,
6658, 6663, 6668, 6672, 6676,
6680, 6684, 6688, 6692, 6697,
6701, 6705, 6709, 6713, 6717, 6721,
6725, 6729, 6733, 6739, 6743, 6747,
6751, 6755, 6759, 6763, 6768, 6772,
6776, 6780, 6784, 6788, 6792,
6798, 6824, 6942, 6949, 6953,

6957, 6961, 6965, 6969, 6973,
6977, 6981, 6985, 6989, 6993,
6997, 7001, 7006, 7011, 7016, 7020,
7024, 7029, 7034, 7040, 7048, 7056,
7062, 7069, 7074, 7085, 7090,
7095, 7100, 7105, 7112, 7117, 7121,
7129, 7133, 7137, 7141, 7146, 7150,
7154, 7158, 7162, 7167, 7173, 7177,
7181, 7185, 7190, 7194, 7198, 7202,
7206, 7210, 7214, 7218, 7222, 7226,
7230, 7235, 7239, 7244, 7249, 7253,
7257, 7261, 7265, 7269, 7273, 7277,
7281, 7285, 7291, 7297, 7301, 7305,
7309, 7313, 7317, 7321, 7325, 7329,
7333, 7337, 7341, 7345, 7349, 7353,
7357, 7361, 7365, 7369, 7373, 7377,
7383, 7391, 7395, 7399, 7405, 7411,
7415, 7426, 7432, 7436, 7442, 7448,
7452, 7456, 7460, 7464, 7468, 7472,
7476, 7480, 7486, 7492, 7496, 7500,
7504, 7508, 7512, 7516, 7520, 7524,
7530, 7534, 7540, 7545, 7549, 7553,
7557, 7561, 7565, 7569, 7573, 7577,
7581, 7585, 7589, 7593, 7597, 7601,
7605, 7609, 7613, 7617, 7621, 7625,
7629, 7633, 7637, 7641, 7645, 7649,
7653, 7659, 7666, 7670, 7674, 7678,
7682, 7686, 7690, 7694, 7698, 7702,
7706, 7710, 7714, 7718, 7722, 7726,
7730, 7734, 7738, 7742, 7746, 7750,
7754, 7758, 7762, 7766, 7770, 7774,
7778, 7782, 7786, 7792, 7799, 7803,
7807, 7811, 7815, 7819, 7823, 7827,
7831, 7835, 7840, 7844, 7848, 7852,
7856, 7860, 7864, 7868, 7872, 7876,
7882, 7886, 7890, 7894, 7898,
7902, 7906, 7911, 7915, 7919, 7923,
7927, 7931, 7935, 7940, 7945, 7949,
7953, 7957, 7961, 7965, 7969, 7974,
7978, 7982, 7986, 7990, 7994,
7998, 8002, 8006, 8010, 8016,
8020, 8024, 8028, 8032, 8036,
8040, 8045, 8049, 8053, 8057,
8061, 8065, 8069, 8075, 8106,
8224, 8231, 8235, 8239, 8243,
8247, 8251, 8255, 8259, 8263,
8267, 8271, 8275, 8279, 8283,
8288, 8293, 8298, 8302, 8306,
8311, 8316, 8322, 8330, 8338, 8344,
8351, 8356, 8367, 8372, 8377,
8382, 8387, 8394, 8399, 8403,
8411, 8415, 8419, 8423, 8428, 8432,
8436, 8440, 8444, 8449, 8455,
8459, 8463, 8467, 8472, 8476,
8480, 8484, 8488, 8492, 8496,
8500, 8504, 8508, 8512, 8517, 8521,
8526, 8531, 8535, 8539, 8543,
8547, 8551, 8555, 8559, 8563,
8567, 8573, 8579, 8583, 8587,
8591, 8595, 8599, 8603, 8607,
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```

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7789, 8104, 8116, 8121, 8134, 8140,
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10092, 10094, 10766, 10772, 10774
\encoding . . . 375, 380, 396, 400, 404,
421, 1704, 2981, 4258, 5535, 6812,
8094, 9367, 9394, 10080, 10760, 11455
\end . . . . . 57, 76
\endcomment . . . . . 30, 77, 167
\endencoding . 377, 394, 398, 402, 406,
1687, 2970, 4247, 5524, 6801, 8078,
9363, 9379, 10064, 10750, 11451, 11469
\endfor . . . . . 229
\endmetrics . . . . . 182, 244, 373
\endresetglyph . . . . . 227
\endsetglyph 36, 44, 125, 172, 177, 236,
258, 265, 277, 281, 289, 296, 303,
307, 319, 326, 333, 340, 352, 360, 368
\endsetslot . . . . . 559,
563, 567, 571, 575, 579, 583, 587,
591, 595, 599, 603, 607, 612, 617,
622, 626, 630, 635, 640, 645, 653,
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704, 709, 714, 720, 725, 733, 737,
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1886, 1890, 1895, 1900, 1905, 1909,
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1951, 1958, 1963, 1968, 1979, 1984,
1989, 1994, 1999, 2005, 2010, 2018,
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3182, 3186, 3190, 3195, 3200, 3205,
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4123, 4127, 4131, 4135, 4140, 4144,
4148, 4152, 4156, 4160, 4164, 4168,
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10447, 10451, 10455, 10459, 10463,
10467, 10471, 10475, 10479, 10483,
10487, 10491, 10496, 10501, 10506,
10511, 10516, 10521, 10526, 10531,
10537, 10543, 10548, 10553, 10558,
10563, 10568, 10573, 10578, 10583,
10588, 10594, 10599, 10603, 10607,
10611, 10615, 10620, 10624, 10629,
10634, 10638, 10643, 10647, 10652,
10657, 10662, 10666, 10670, 10674,
10678, 10683, 10688, 10692, 10696,
10701, 10705, 10709, 10715, 10719,
10723, 10727, 10731, 10740, 10748,
10795, 10800, 10805, 10810, 10815,
10820, 10825, 10830, 10835, 10840,
10845, 10850, 10855, 10861, 10867,
10872, 10876, 10883, 10889, 10894,
10900, 10905, 10910, 10915, 10922,
10928, 10933, 10938, 10943, 10948,
10953, 10958, 10963, 10968, 10972,
10976, 10980, 10984, 10988, 10992,
10996, 11000, 11004, 11010, 11015,
11021, 11026, 11032, 11039, 11045,
11051, 11057, 11063, 11069, 11075,
11081, 11087, 11093, 11099, 11105,
11112, 11118, 11124, 11129, 11133,
11137, 11141, 11145, 11149, 11153,
11157, 11161, 11165, 11169, 11173,
11178, 11183, 11188, 11193, 11198,
11203, 11208, 11213, 11219, 11225,
11230, 11235, 11240, 11245, 11250,
11255, 11260, 11265, 11270, 11276,
11281, 11285, 11289, 11293, 11297,
11302, 11306, 11311, 11316, 11320,
11325, 11329, 11334, 11339, 11344,
11348, 11352, 11356, 11360, 11365,
11370, 11374, 11378, 11383, 11387,
11391, 11397, 11401, 11405, 11409,
11414, 11418, 11426, 11433, 11441, 11449

extname() (fn) 14

F	
familymakers (var)	6 , 14
\Fi	38 , 46 , 85 , 123 , 127 , 179 , 201 , 228 , 259 , 266 , 370 , 371 , 436 , 437 , 450 , 451 , 453 , 463 , 471 , 481 , 487 , 495 , 501 , 509 , 515 , 523 , 529 , 555 , 691 , 716 , 901 , 1015 , 1032 , 1036 , 1052 , 1096 , 1272 , 1405 , 1719 , 1720 , 1733 , 1734 , 1736 , 1746 , 1754 , 1764 , 1770 , 1778 , 1784 , 1792 , 1798 , 1806 , 1812 , 1838 , 1976 , 2001 , 2186 , 2300 , 2317 , 2321 , 2337 , 2381 , 2555 , 2688 , 2996 , 2997 , 3010 , 3011 , 3013 , 3023 , 3031 , 3041 , 3047 , 3055 , 3061 , 3069 , 3075 , 3083 , 3089 , 3115 , 3253 , 3278 , 3463 , 3577 , 3594 , 3598 , 3614 , 3658 , 3832 , 3965 , 4273 , 4274 , 4287 , 4288 , 4290 , 4300 , 4308 , 4318 , 4324 , 4332 , 4338 , 4346 , 4352 , 4360 , 4366 , 4392 , 4530 , 4555 , 4740 , 4854 , 4871 , 4875 , 4891 , 4935 , 5109 , 5242 , 5550 , 5551 , 5564 , 5565 , 5567 , 5577 , 5585 , 5595 , 5601 , 5609 , 5615 , 5623 , 5629 , 5637 , 5643 , 5669 , 5807 , 5832 , 6017 , 6131 , 6148 , 6152 , 6168 , 6212 , 6386 , 6519 , 6827 , 6828 , 6841 , 6842 , 6844 , 6854 , 6862 , 6872 , 6878 , 6886 , 6892 , 6900 , 6906 , 6914 , 6920 , 6946 , 7084 , 7109 , 7294 , 7408 , 7425 , 7429 , 7445 , 7489 , 7663 , 7796 , 8109 , 8110 , 8123 , 8124 , 8126 , 8136 , 8144 , 8154 , 8160 , 8168 , 8174 , 8182 , 8188 , 8196 , 8202 , 8228 , 8366 , 8391 , 8576 , 8690 , 8707 , 8711 , 8727 , 8771 , 8945 , 9081 , 11419 , 11465 , 11466
\fi	312 , 343 , 344 , 355 , 392 , 9402 , 9410 , 10088 , 10096 , 10768 , 10776
finst() (fn)	3 , 14
fnt-ctan.lua (lua)	14
fnt-tables.tex (tpt)	1
fnt_test() (fn)	4 , 14
fntkeeper() (fn)	4 , 14
fnttarg (targ)	3 , 14 , 14
fnttestfds (var)	6 , 14
font encodings:	
dotoldstyle.etx	374
dotsc2.etx	378
dottaboldstyle.etx	395
lining.etx	399
oldstyle.etx	403
t1-cfr.etx	407
t1-dotalt-f_f	1688
t1-dotinf.etx	2971
t1-dotinferior.etx	4248
t1-dotsup.etx	5525
t1-dotsuperior.etx	6802
t1-f_f.etx	8079
t1j-f_f.etx	9364
ts1-dotinf.etx	9380
ts1-dotsup.etx	10066
ts1-euro.etx	10752
ucdotalt.etx	11454
font metrics:	
dotscbuild.mtx	17
dotscmisc.mtx	246
newlatin-dotsc.mtx	183
fontinst() (fn)	3 , 14
fontinst.lua (lua)	14
\foreach	221
functions:	
checkinit_hook()	4 , 14
copyctan()	4 , 14
copysubctan()	14
docinit_hook()	4 , 14
extname()	14
finst()	3 , 14
fnt_test()	4 , 14
fntkeeper()	4 , 14
fontinst()	3 , 14
uniquify()	4 , 14
G	
\glyph	122 , 124 , 171 , 176 , 225 , 234 , 256 , 263 , 274 , 276 , 280 , 286 , 288 , 295 , 300 , 302 , 306 , 316 , 318 , 325 , 330 , 332 , 339 , 349 , 351 , 359 , 365 , 367
\guillemotleft	638 , 1921 , 3198 , 4475 , 5752 , 7029 , 8311
\guillemotright	643 , 1926 , 3203 , 4480 , 5757 , 7034 , 8316
\guilsinglleft	615 , 1898 , 3175 , 4452 , 5729 , 7006 , 8288
\guilsinglright	620 , 1903 , 3180 , 4457 , 5734 , 7011 , 8293
H	
\H	578 , 1210 , 1242 , 1343 , 1375 , 1861 , 2493 , 2525 , 2626 , 2658 , 3138 , 3770 , 3802 , 3903 , 3935 , 4415 , 5047 , 5079 , 5180 , 5212 , 5692 , 6324 , 6356 , 6457 , 6489 , 6969 , 7601 , 7633 , 7734 , 7766 , 8251 , 8883 , 8915 , 9019 , 9051
\half	233
\height	81 , 460 , 484 , 490 , 498 , 512 , 1743 , 1767 , 1773 , 1781 , 1795 , 3020 , 3044 , 3050 , 3058 ,

3072, 4297, 4321, 4327, 4335, 4349, 5574, 5598, 5604, 5612, 5626, 6851, 6875, 6881, 6889, 6903, 8133, 8157, 8163, 8171, 8185, 9399, 10085, 10765	8360, 8363, 8570, 8684, 8700, 8703, 8721, 8765, 8938, 9074, 11460
	<code>\ifoption</code> 195
	<code>\inputetx</code> 9377
	<code>\int</code> 124, 275, 287, 301, 317, 331, 350, 366, 391, 431, 448, 476, 478, 479, 480, 492, 504, 518, 550, 685, 688, 895, 1009, 1025, 1028, 1046, 1090, 1265, 1398, 1714, 1731, 1759, 1761, 1762, 1763, 1775, 1787, 1801, 1833, 1970, 1973, 2180, 2294, 2310, 2313, 2331, 2375, 2548, 2681, 2991, 3008, 3036, 3038, 3039, 3040, 3052, 3064, 3078, 3110, 3247, 3250, 3457, 3571, 3587, 3590, 3608, 3652, 3825, 3958, 4268, 4285, 4313, 4315, 4316, 4317, 4329, 4341, 4355, 4387, 4524, 4527, 4734, 4848, 4864, 4867, 4885, 4929, 5102, 5235, 5545, 5562, 5590, 5592, 5593, 5594, 5606, 5618, 5632, 5664, 5801, 5804, 6011, 6125, 6141, 6144, 6162, 6206, 6379, 6512, 6822, 6839, 6867, 6869, 6870, 6871, 6883, 6895, 6909, 6941, 7078, 7081, 7288, 7402, 7418, 7421, 7439, 7483, 7656, 7789, 8104, 8121, 8149, 8151, 8152, 8153, 8165, 8177, 8191, 8223, 8360, 8363, 8570, 8684, 8700, 8703, 8721, 8765, 8938, 9074, 9415, 9416, 9419, 9421, 10101, 10102, 10105, 10107, 10782, 10783, 10786, 10788, 11460
I	
<code>\i</code> 676, 677, 1603, 1607, 1611, 1615, 1961, 1962, 2886, 2890, 2894, 2898, 3238, 3239, 4163, 4167, 4171, 4175, 4515, 4516, 5440, 5444, 5448, 5452, 5792, 5793, 6717, 6721, 6725, 6729, 7069, 7070, 7994, 7998, 8002, 8006, 8351, 8352, 9279, 9283, 9287, 9291	
<code>\ifareglyphs</code> 33, 41, 79, 120, 347	
<code>\ifisglyph</code> 169, 174, 223, 254, 261, 271, 284, 314, 357, 363, 459, 465, 467, 483, 489, 497, 505, 511, 519, 525, 1742, 1748, 1750, 1766, 1772, 1780, 1788, 1794, 1802, 1808, 3019, 3025, 3027, 3043, 3049, 3057, 3065, 3071, 3079, 3085, 4296, 4302, 4304, 4320, 4326, 4334, 4342, 4348, 4356, 4362, 5573, 5579, 5581, 5597, 5603, 5611, 5619, 5625, 5633, 5639, 6850, 6856, 6858, 6874, 6880, 6888, 6896, 6902, 6910, 6916, 8132, 8138, 8140, 8156, 8162, 8170, 8178, 8184, 8192, 8198, 9398, 9404, 9406, 10084, 10090, 10092, 10764, 10770, 10772, 11411	
<code>\ifisint</code> 123, 390, 430, 441, 447, 473, 491, 503, 517, 1713, 1724, 1730, 1756, 1774, 1786, 1800, 2990, 3001, 3007, 3033, 3051, 3063, 3077, 4267, 4278, 4284, 4310, 4328, 4340, 4354, 5544, 5555, 5561, 5587, 5605, 5617, 5631, 6821, 6832, 6838, 6864, 6882, 6894, 6908, 8103, 8114, 8120, 8146, 8164, 8176, 8190, 11459	
<code>\ifnumber</code> ... 431, 448, 550, 685, 688, 895, 1009, 1025, 1028, 1046, 1090, 1265, 1398, 1714, 1731, 1833, 1970, 1973, 2180, 2294, 2310, 2313, 2331, 2375, 2548, 2681, 2991, 3008, 3110, 3247, 3250, 3457, 3571, 3587, 3590, 3608, 3652, 3825, 3958, 4268, 4285, 4387, 4524, 4527, 4734, 4848, 4864, 4867, 4885, 4929, 5102, 5235, 5545, 5562, 5664, 5801, 5804, 6011, 6125, 6141, 6144, 6162, 6206, 6379, 6512, 6822, 6839, 6941, 7078, 7081, 7288, 7402, 7418, 7421, 7439, 7483, 7656, 7789, 8104, 8121, 8223,	
	J
	<code>\j</code> 681, 682, 1966, 1967, 3243, 3244, 4520, 4521, 5797, 5798, 7074, 7075, 8356, 8357
	K
	<code>\k</code> ... 606, 1156, 1176, 1291, 1311, 1889, 2441, 2461, 2574, 2594, 3166, 3718, 3738, 3851, 3871, 4443, 4995, 5015, 5128, 5148, 5720, 6272, 6292, 6405, 6425, 6997, 7549, 7569, 7682, 7702, 8279, 8831, 8851, 8964, 8984
	<code>keepdir</code> (var) 6, 14
	<code>keepfiles</code> (var) 6, 14
	<code>keeptempdir</code> (var) 6, 14
	<code>keeptempfiles</code> (var) 6, 14
	<code>\kerning</code> 275, 287, 301, 317, 331, 350, 366
	L
	<code>\L</code> 1192, 2477, 3754, 5031, 6308, 7585, 8867
	<code>\l</code> 1327, 2610, 3887, 5164, 6441, 7718, 9000

<code>\lc</code>	382, 425, 557, 561, 565, 569, 573, 577, 581, 585, 589, 593, 597, 601, 605, 675, 680, 689, 690, 1001, 1005, 1011, 1017, 1021, 1027, 1029, 1030, 1031, 1038, 1042, 1048, 1054, 1058, 1062, 1066, 1070, 1074, 1078, 1082, 1086, 1092, 1098, 1102, 1106, 1110, 1114, 1118, 1122, 1278, 1290, 1310, 1322, 1326, 1338, 1362, 1370, 1577, 1582, 1618, 1648, 1653, 1677, 1683, 1708, 1840, 1844, 1848, 1852, 1856, 1860, 1864, 1868, 1872, 1876, 1880, 1884, 1888, 1960, 1965, 1974, 1975, 2286, 2290, 2296, 2302, 2306, 2312, 2314, 2315, 2316, 2323, 2327, 2333, 2339, 2343, 2347, 2351, 2355, 2359, 2363, 2367, 2371, 2377, 2383, 2387, 2391, 2395, 2399, 2403, 2407, 2561, 2573, 2593, 2605, 2609, 2621, 2645, 2653, 2860, 2865, 2901, 2931, 2936, 2960, 2966, 2985, 3117, 3121, 3125, 3129, 3133, 3137, 3141, 3145, 3149, 3153, 3157, 3161, 3165, 3237, 3242, 3251, 3252, 3563, 3567, 3573, 3579, 3583, 3589, 3591, 3592, 3593, 3600, 3604, 3610, 3616, 3620, 3624, 3628, 3632, 3636, 3640, 3644, 3648, 3654, 3660, 3664, 3668, 3672, 3676, 3680, 3684, 3838, 3850, 3870, 3882, 3886, 3898, 3922, 3930, 4137, 4142, 4178, 4208, 4213, 4237, 4243, 4262, 4394, 4398, 4402, 4406, 4410, 4414, 4418, 4422, 4426, 4430, 4434, 4438, 4442, 4514, 4519, 4528, 4529, 4840, 4844, 4850, 4856, 4860, 4866, 4868, 4869, 4870, 4877, 4881, 4887, 4893, 4897, 4901, 4905, 4909, 4913, 4917, 4921, 4925, 4931, 4937, 4941, 4945, 4949, 4953, 4957, 4961, 5115, 5127, 5147, 5159, 5163, 5175, 5199, 5207, 5414, 5419, 5455, 5485, 5490, 5514, 5520, 5539, 5671, 5675, 5679, 5683, 5687, 5691, 5695, 5699, 5703, 5707, 5711, 5715, 5719, 5791, 5796, 5805, 5806, 6117, 6121, 6127, 6133, 6137, 6143, 6145, 6146, 6147, 6154, 6158, 6164, 6170, 6174, 6178, 6182, 6186, 6190, 6194, 6198, 6202, 6208, 6214, 6218, 6222, 6226, 6230, 6234, 6238, 6392, 6404, 6424, 6436, 6440, 6452, 6476, 6484,	6691, 6696, 6732, 6762, 6767, 6791, 6797, 6816, 6948, 6952, 6956, 6960, 6964, 6968, 6972, 6976, 6980, 6984, 6988, 6992, 6996, 7068, 7073, 7082, 7083, 7394, 7398, 7404, 7410, 7414, 7420, 7422, 7423, 7424, 7431, 7435, 7441, 7447, 7451, 7455, 7459, 7463, 7467, 7471, 7475, 7479, 7485, 7491, 7495, 7499, 7503, 7507, 7511, 7515, 7669, 7681, 7701, 7713, 7717, 7729, 7753, 7761, 7968, 7973, 8009, 8039, 8044, 8068, 8074, 8098, 8230, 8234, 8238, 8242, 8246, 8250, 8254, 8258, 8262, 8266, 8270, 8274, 8278, 8350, 8355, 8364, 8365, 8676, 8680, 8686, 8692, 8696, 8702, 8704, 8705, 8706, 8713, 8717, 8723, 8729, 8733, 8737, 8741, 8745, 8749, 8753, 8757, 8761, 8767, 8773, 8777, 8781, 8785, 8789, 8793, 8797, 8951, 8963, 8983, 8995, 8999, 9011, 9038, 9046, 9253, 9258, 9294, 9324, 9329, 9353, 9359, 9369
<code>\lclig</code>	386, 429, 687, 689, 690, 696, 701, 706, 711, 1029, 1030, 1031, 1400, 1712, 1972, 1974, 1975, 1981, 1986, 1991, 1996, 2314, 2315, 2316, 2683, 2989, 3249, 3251, 3252, 3258, 3263, 3268, 3273, 3591, 3592, 3593, 3960, 4266, 4526, 4528, 4529, 4535, 4540, 4545, 4550, 4868, 4869, 4870, 5237, 5543, 5803, 5805, 5806, 5812, 5817, 5822, 5827, 6145, 6146, 6147, 6514, 6820, 7080, 7082, 7083, 7089, 7094, 7099, 7104, 7422, 7423, 7424, 7791, 8102, 8362, 8364, 8365, 8371, 8376, 8381, 8386, 8704, 8705, 8706, 9076, 9373	
<code>\lctop</code>	384, 427, 1286, 1294, 1298, 1302, 1306, 1314, 1318, 1330, 1334, 1342, 1346, 1350, 1354, 1358, 1366, 1374, 1378, 1382, 1386, 1390, 1394, 1553, 1557, 1561, 1565, 1569, 1573, 1586, 1590, 1594, 1598, 1602, 1606, 1610, 1614, 1624, 1628, 1632, 1636, 1640, 1644, 1657, 1661, 1665, 1669, 1673, 1710, 2569, 2577, 2581, 2585, 2589, 2597, 2601, 2613, 2617, 2625, 2629, 2633, 2637, 2641, 2649, 2657, 2661, 2665, 2669, 2673, 2677, 2836, 2840, 2844, 2848, 2852, 2856, 2869, 2873, 2877, 2881, 2885,	

2889, 2893, 2897, 2907, 2911, 2915,	
2919, 2923, 2927, 2940, 2944,	
2948, 2952, 2956, 2987, 3846,	
3854, 3858, 3862, 3866, 3874,	
3878, 3890, 3894, 3902, 3906,	
3910, 3914, 3918, 3926, 3934, 3938,	
3942, 3946, 3950, 3954, 4113, 4117,	
4121, 4125, 4129, 4133, 4146, 4150,	
4154, 4158, 4162, 4166, 4170, 4174,	
4184, 4188, 4192, 4196, 4200, 4204,	
4217, 4221, 4225, 4229, 4233, 4264,	
5123, 5131, 5135, 5139, 5143, 5151,	
5155, 5167, 5171, 5179, 5183, 5187,	
5191, 5195, 5203, 5211, 5215, 5219,	
5223, 5227, 5231, 5390, 5394,	
5398, 5402, 5406, 5410, 5423, 5427,	
5431, 5435, 5439, 5443, 5447, 5451,	
5461, 5465, 5469, 5473, 5477, 5481,	
5494, 5498, 5502, 5506, 5510, 5541,	
6400, 6408, 6412, 6416, 6420, 6428,	
6432, 6444, 6448, 6456, 6460,	
6464, 6468, 6472, 6480, 6488,	
6492, 6496, 6500, 6504, 6508,	
6667, 6671, 6675, 6679, 6683,	
6687, 6700, 6704, 6708, 6712, 6716,	
6720, 6724, 6728, 6738, 6742, 6746,	
6750, 6754, 6758, 6771, 6775, 6779,	
6783, 6787, 6818, 7677, 7685, 7689,	
7693, 7697, 7705, 7709, 7721, 7725,	
7733, 7737, 7741, 7745, 7749, 7757,	
7765, 7769, 7773, 7777, 7781, 7785,	
7944, 7948, 7952, 7956, 7960, 7964,	
7977, 7981, 7985, 7989, 7993, 7997,	
8001, 8005, 8015, 8019, 8023,	
8027, 8031, 8035, 8048, 8052,	
8056, 8060, 8064, 8100, 8959,	
8967, 8971, 8975, 8979, 8987,	
8991, 9003, 9007, 9018, 9022,	
9026, 9030, 9034, 9042, 9050,	
9054, 9058, 9062, 9066, 9070,	
9229, 9233, 9237, 9241, 9245,	
9249, 9262, 9266, 9270, 9274,	
9278, 9282, 9286, 9290, 9300,	
9304, 9308, 9312, 9316, 9320,	
9333, 9337, 9341, 9345, 9349, 9371	
<code>\ligature</code> 648,	
689, 690, 723, 752, 773, 778, 779,	
841, 850, 855, 997, 1029, 1030,	
1031, 1931, 1974, 1975, 2008, 2037,	
2058, 2063, 2064, 2126, 2135, 2140,	
2282, 2314, 2315, 2316, 3208, 3251,	
3252, 3285, 3314, 3335, 3340, 3341,	
3403, 3412, 3417, 3559, 3591, 3592,	
3593, 4485, 4528, 4529, 4562,	
4591, 4612, 4617, 4618, 4680, 4689,	
4694, 4836, 4868, 4869, 4870,	
5762, 5805, 5806, 5839, 5868,	
5889, 5894, 5895, 5957, 5966,	
5971, 6113, 6145, 6146, 6147, 7039,	
7082, 7083, 7116, 7145, 7166, 7171,	
7172, 7234, 7243, 7248, 7390, 7422,	
7423, 7424, 8321, 8364, 8365, 8398,	
8427, 8448, 8453, 8454, 8516,	
8525, 8530, 8672, 8704, 8705, 8706	
<code>lining.etx</code> (etx) 399	
lua script fragments:	
<code>fnt-ctan.lua</code> 14	
<code>fontinst.lua</code> 14	
<code>tag.lua</code> 14	
M	
<code>\macroparameter</code> 53, 54, 55, 56, 72, 73, 74, 75	
<code>mapmakers</code> (var) 6, 14	
<code>\medskip</code> 48	
<code>\metrics</code> 19, 187, 248	
<code>\mover</code> 123, 233,	
235, 275, 287, 301, 317, 331, 350, 366	
<code>\mul</code> 81	
N	
<code>\needsfontinstversion</code> 21, 189, 250, 423,	
1706, 2983, 4260, 5537, 6814, 8096	
<code>\neg</code> 504, 518,	
1787, 1801, 3064, 3078, 4341, 4355,	
5618, 5632, 6895, 6909, 8177, 8191	
<code>\newcommand</code> 8	
<code>newlatin-dotsc.mtx</code> (mtx) 183	
<code>\newtie</code> 9540, 10226, 10908	
<code>\nextslot</code> 9423, 9489,	
9495, 9501, 9510, 9517, 9528, 9549,	
9556, 9562, 9567, 9572, 9577,	
9582, 9587, 9592, 9597, 9638,	
9644, 9649, 9655, 9660, 9666,	
9673, 9679, 9685, 9691, 9697,	
9703, 9709, 9715, 9721, 9727, 9733,	
9739, 9746, 9752, 9904, 10048,	
10056, 10109, 10175, 10181, 10187,	
10196, 10203, 10214, 10235, 10242,	
10248, 10253, 10258, 10263, 10268,	
10273, 10278, 10283, 10324, 10330,	
10335, 10341, 10346, 10352, 10359,	
10365, 10371, 10377, 10383, 10389,	
10395, 10401, 10407, 10413, 10419,	
10425, 10432, 10438, 10590, 10734,	
10742, 10791, 10857, 10863, 10869,	
10878, 10885, 10896, 10917, 10924,	
10930, 10935, 10940, 10945, 10950,	
10955, 10960, 10965, 11006, 11012,	

11017, 11023, 11028, 11034, 11041, 11047, 11053, 11059, 11065, 11071, 11077, 11083, 11089, 11095, 11101, 11107, 11114, 11120, 11272, 11435, 11443	3939, 4000, 4134, 4419, 5083, 5216, 5277, 5411, 5696, 6360, 6493, 6554, 6688, 6973, 7637, 7770, 7831, 7965, 8255, 8919, 9055, 9116, 9250
\NG 1204, 2489, 3766, 5043, 6320, 7597, 8879	\relax 17,
\ng 1339, 2622, 3899, 5176, 6453, 7730, 9012	183, 246, 374, 378, 395, 399, 403,
\noindent 9	420, 1703, 2980, 4257, 5534, 6811, 8093, 9364, 9392, 10078, 10759, 11454
O	\RequirePackage 2
\O 1520, 2803, 4080, 5357, 6634, 7911, 9196	\resetcommand 61, 66
\o 1654, 2937, 4214, 5491, 6768, 8045, 9330	\resetdepth 226
\OE 1515, 2798, 4075, 5352, 6629, 7906, 9191	\resetglyph 224
\oe 1649,	\revinfo 3
2932, 4209, 5486, 6763, 8040, 9325	S
oldstyle.etx (etx) 403	\sampletable 8
\oldstylenums 9599, 9603, 9607, 9611, 9615, 9619, 9623, 9627, 9631, 9635, 10285, 10289, 10293, 10297, 10301, 10305, 10309, 10313, 10317, 10321, 10967, 10971, 10975, 10979, 10983, 10987, 10991, 10995, 10999, 11003	\scale 478, 479, 480, 1761, 1762, 1763, 3038, 3039, 3040, 4315, 4316, 4317, 5592, 5593, 5594, 6869, 6870, 6871, 8151, 8152, 8153
\otherhalf 235	\section 27
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\par 9, 56, 445, 1728, 3005, 4282, 5559, 6836, 8118	\setcscstopglyph 32, 53, 61, 72, 88, 89, 90, 91, 92, 94, 95, 97, 98, 99, 101, 103, 104, 105, 106, 107, 110, 112, 113, 114, 115, 116, 118, 129, 130, 131, 133, 134, 135, 136, 137, 138, 140, 141, 143, 144, 147, 150, 151, 152, 153, 154, 155, 157, 158, 160, 161, 162
\partial 1620, 2903, 4180, 5457, 6734, 8011, 9296	\setfontdimen 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 3093, 3094, 3095, 3096, 3097, 3098, 3099, 3100, 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 4370, 4371, 4372, 4373, 4374, 4375,
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Q	
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R	
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9170, 9174, 9178, 9182, 9186, 9190,
9195, 9199, 9203, 9207, 9211, 9215,
9219, 9224, 9229, 9233, 9237,
9241, 9245, 9249, 9253, 9258,
9262, 9266, 9270, 9274, 9278,
9282, 9286, 9290, 9294, 9300,
9304, 9308, 9312, 9316, 9320,
9324, 9329, 9333, 9337, 9341,
9345, 9349, 9353, 9359, 9424,
9429, 9434, 9439, 9444, 9449,
9454, 9459, 9464, 9469, 9474, 9479,
9484, 9490, 9496, 9502, 9506,
9511, 9518, 9523, 9529, 9534, 9539,
9544, 9550, 9557, 9563, 9568,
9573, 9578, 9583, 9588, 9593,
9598, 9602, 9606, 9610, 9614,
9618, 9622, 9626, 9630, 9634,
9639, 9645, 9650, 9656, 9663,
9667, 9674, 9680, 9686, 9692,
9698, 9704, 9710, 9716, 9722, 9728,
9734, 9740, 9747, 9753, 9758, 9763,
9767, 9771, 9775, 9779, 9783, 9787,
9791, 9795, 9799, 9803, 9807,
9812, 9817, 9822, 9827, 9832,
9837, 9842, 9847, 9853, 9859,
9864, 9869, 9874, 9879, 9884,
9889, 9894, 9899, 9905, 9910,
9915, 9919, 9923, 9927, 9931,
9936, 9940, 9945, 9950, 9954,
9959, 9963, 9968, 9973, 9978,
9982, 9986, 9990, 9994, 9999,
10004, 10008, 10012, 10017, 10021,
10025, 10031, 10035, 10039, 10043,
10049, 10057, 10110, 10115, 10120,
10125, 10130, 10135, 10140, 10145,
10150, 10155, 10160, 10165, 10170,
10176, 10182, 10188, 10192, 10197,
10204, 10209, 10215, 10220, 10225,
10230, 10236, 10243, 10249, 10254,
10259, 10264, 10269, 10274, 10279,
10284, 10288, 10292, 10296, 10300,
10304, 10308, 10312, 10316, 10320,
10325, 10331, 10336, 10342, 10349,
10353, 10360, 10366, 10372, 10378,
10384, 10390, 10396, 10402, 10408,
10414, 10420, 10426, 10433, 10439,
10444, 10449, 10453, 10457, 10461,
10465, 10469, 10473, 10477, 10481,
10485, 10489, 10493, 10498, 10503,
10508, 10513, 10518, 10523, 10528,
10533, 10539, 10545, 10550, 10555,

10560, 10565, 10570, 10575, 10580, 10585, 10591, 10596, 10601, 10605, 10609, 10613, 10617, 10622, 10626, 10631, 10636, 10640, 10645, 10649, 10654, 10659, 10664, 10668, 10672, 10676, 10680, 10685, 10690, 10694, 10698, 10703, 10707, 10711, 10717, 10721, 10725, 10729, 10735, 10743, 10792, 10797, 10802, 10807, 10812, 10817, 10822, 10827, 10832, 10837, 10842, 10847, 10852, 10858, 10864, 10870, 10874, 10879, 10886, 10891, 10897, 10902, 10907, 10912, 10918, 10925, 10931, 10936, 10941, 10946, 10951, 10956, 10961, 10966, 10970, 10974, 10978, 10982, 10986, 10990, 10994, 10998, 11002, 11007, 11013, 11018, 11024, 11031, 11035, 11042, 11048, 11054, 11060, 11066, 11072, 11078, 11084, 11090, 11096, 11102, 11108, 11115, 11121, 11126, 11131, 11135, 11139, 11143, 11147, 11151, 11155, 11159, 11163, 11167, 11171, 11175, 11180, 11185, 11190, 11195, 11200, 11205, 11210, 11215, 11221, 11227, 11232, 11237, 11242, 11247, 11252, 11257, 11262, 11267, 11273, 11278, 11283, 11287, 11291, 11295, 11299, 11304, 11308, 11313, 11318, 11322, 11327, 11331, 11336, 11341, 11346, 11350, 11354, 11358, 11362, 11367, 11372, 11376, 11380, 11385, 11389, 11393, 11399, 11403, 11407, 11412, 11416, 11421, 11428, 11436, 11444	
<code>\setstr</code>	554, 1837, 3114, 4391, 5668, 6945, 8227, 9396, 10082, 10762
<code>\skipslots</code>	685, 895, 1009, 1025, 1046, 1090, 1265, 1398, 1970, 2180, 2294, 2310, 2331, 2375, 2548, 2681, 3247, 3457, 3571, 3587, 3608, 3652, 3825, 3958, 4524, 4734, 4848, 4864, 4885, 4929, 5102, 5235, 5801, 6011, 6125, 6141, 6162, 6206, 6379, 6512, 7078, 7288, 7402, 7418, 7439, 7483, 7656, 7789, 8360, 8570, 8684, 8700, 8721, 8765, 8938, 9074
<code>\ss</code>	1549, 1684, 2832, 2967, 4109, 4244, 5386, 5521, 6663, 6798, 7940, 8075, 9225, 9360
<code>\str</code>	223, 224, 225
<code>\sub</code>	233, 235
<code>\subsection</code>	29, 166
	T
<code>\t</code>	9530, 10216, 10898
<code>t1-cfr.etx (etx)</code>	407
<code>t1-dotalt-f_f (etx)</code>	1688
<code>t1-dotinf.etx (etx)</code>	2971
<code>t1-dotinferior.etx (etx)</code>	4248
<code>t1-dotsup.etx (etx)</code>	5525
<code>t1-dotsuperior.etx (etx)</code>	6802
<code>t1-f_f.etx (etx)</code>	8079
<code>t1j-f_f.etx (etx)</code>	9364
<code>tag.lua (lua)</code>	14
targets:	
<code>fnttarg</code>	3, 14, 14
<code>uniquifyencs</code>	3, 14, 14
templates:	
<code>fnt-tables.tex</code>	1
<code>\TeX</code>	616, 621, 639, 644, 682, 731, 1204, 1339, 1487, 1545, 1621, 1680, 1899, 1904, 1922, 1927, 1967, 2016, 2489, 2622, 2770, 2828, 2904, 2963, 3176, 3181, 3199, 3204, 3244, 3293, 3766, 3899, 4047, 4105, 4181, 4240, 4453, 4458, 4476, 4481, 4521, 4570, 5043, 5176, 5324, 5382, 5458, 5517, 5730, 5735, 5753, 5758, 5798, 5847, 6320, 6453, 6601, 6659, 6735, 6794, 7007, 7012, 7030, 7035, 7075, 7124, 7597, 7730, 7878, 7936, 8012, 8071, 8289, 8294, 8312, 8317, 8357, 8406, 8879, 9013, 9163, 9221, 9297, 9356
<code>\textacutedbl</code>	9764, 10450, 11132
<code>\textasciiaacute</code>	9995, 10681, 11363
<code>\textasciibreve</code>	9754, 10440, 11122
<code>\textasciicaron</code>	9759, 10445, 11127
<code>\textasciicircum</code>	984, 2269, 3546, 4823, 6100, 7377, 8659
<code>\textasciidieresis</code>	9941, 10627, 11309
<code>\textasciigrave</code>	9699, 10385, 11067
<code>\textasciimacron</code>	9974, 10660, 11342
<code>\textasciitilde</code>	1141, 2426, 3703, 4980, 6257, 7534, 8816, 9742, 10428, 11110
<code>\textasteriskcentered</code>	9574, 10260, 10942
<code>\textbackslash</code>	976, 2261, 3538, 4815, 6092, 7369, 8651
<code>\textbaht</code>	9875, 10561, 11243
<code>\textbar</code>	1131, 2416, 3693, 4970, 6247, 7524, 8806, 9933, 10619, 11301
<code>\textbardbl</code>	9780, 10466, 11148
<code>\textbf</code>	409
<code>\textbigcircle</code>	9661, 10347, 11429
<code>\textblank</code>	9558, 10244, 10926
<code>\textborn</code>	9705, 10391, 11073

<code>\textbraceleft</code>	1127,	<code>\textmusicalnote</code>	9735, 10421, 11103
	2412, 3689, 4966, 6243, 7520, 8802	<code>\textnaira</code>	9818, 10504, 11186
<code>\textbraceright</code>	1137,	<code>\textnumero</code>	9880, 10566, 11248
	2422, 3699, 4976, 6253, 7530, 8812	<code>\textohm</code>	9668, 10354, 11036
<code>\textbrokenbar</code>	9932, 10618, 11300	<code>\textonehalf</code>	10036, 10722, 11404
<code>\textbullet</code>	9788, 10474, 11156	<code>\textonequarter</code>	10032, 10718, 11400
<code>\textcelsius</code>	9792, 10478, 11160	<code>\textonesuperior</code> ...	10018, 10704, 11386
<code>\textcent</code>	9916, 10602, 11284	<code>\textopenbullet</code>	9895, 10581, 11263
<code>\textcentoldstyle</code>	9800, 10486, 11168	<code>\textordfeminine</code>	9951, 10637, 11319
<code>\textcircledP</code>	9964, 10650, 11332	<code>\textordmasculine</code> ...	10022, 10708, 11390
<code>\textcolonmonetary</code> ...	9808, 10494, 11176	<code>\textparagraph</code>	9871,
<code>\textcopyleft</code>	9955, 10641, 11323		10005, 10557, 10691, 11239, 11373
<code>\textcopyright</code>	9662, 9946, 10348, 10632, 11030, 11314	<code>\textperiodcentered</code> .	10009, 10695, 11377
<code>\textcurrency</code>	9924, 10610, 11292	<code>\textpertenthousand</code> ..	9865, 10551, 11233
<code>\textdagger</code>	9772, 10458, 11140	<code>\textperthousand</code>	9784, 10470, 11152
<code>\textdaggerdbl</code>	9776, 10462, 11144	<code>\textpeso</code>	9828, 10514, 11196
<code>\textdblhyphen</code>	9584, 10270, 10952	<code>\textpilcrow</code>	9870, 10556, 11238
<code>\textdegree</code>	9979, 10665, 11347	<code>\textpm</code>	9983, 10669, 11351
<code>\textdied</code>	9717, 10403, 11085	<code>\textquotedbl</code>	728,
<code>\textdiscount</code>	9885, 10571, 11253		2013, 3290, 4567, 5844, 7121, 8403
<code>\textdiv</code>	10058, 10744, 11445	<code>\textquotedblleft</code>	625,
<code>\textdivorced</code>	9711, 10397, 11079		1908, 3185, 4462, 5739, 7016, 8298
<code>\textdollar</code>	9564, 10250, 10932	<code>\textquotedblright</code>	629,
<code>\textdollaroldstyle</code> ..	9796, 10482, 11164		1912, 3189, 4466, 5743, 7020, 8302
<code>\textdong</code>	9854, 10540, 11222	<code>\textquoteleft</code>	998,
<code>\textdownarrow</code>	9693, 10379, 11061		2283, 3560, 4837, 6114, 7391, 8673
<code>\textemdash</code>	658,	<code>\textquoteright</code>	753,
	1943, 3220, 4497, 5774, 7051, 8333		2038, 3315, 4592, 5869, 7146, 8428
<code>\textendash</code>	651,	<code>\textquotesingle</code> ...	9569, 10255, 10937
	1935, 3212, 4489, 5766, 7043, 8325	<code>\textquotestraightbase</code>	9492, 10178, 10860
<code>\textestimated</code>	9890, 10576, 11258	<code>\textquotestraightdblbase</code>	9498, 10184, 10866
<code>\texteuro</code>	10044, 10730, 11413, 11417		9651, 10337, 11019
<code>\textflorin</code>	9804, 10490, 11172	<code>\texttriangle</code>	9651, 10337, 11019
<code>\textfractionsolidus</code>	9594, 10280, 10962	<code>\extrbrackdbl</code>	9681, 10367, 11049
<code>\textgravedbl</code>	9768, 10454, 11136	<code>\textrecipe</code>	9838, 10524, 11206
<code>\textgreater</code>	851,	<code>\textreferencemark</code> ..	10013, 10699, 11381
	2136, 3413, 4690, 5967, 7244, 8526	<code>\textregistered</code>	9662,
<code>\textguarani</code>	9823, 10509, 11191		9969, 10348, 10655, 11030, 11337
<code>\textinterrobang</code>	9843, 10529, 11211	<code>\textrightarrow</code>	9524, 10210, 10892
<code>\textinterrobangdown</code> .	9848, 10534, 11216	<code>\extrquill</code>	9911, 10597, 11279
<code>\textlangle</code>	9640, 10326, 11008	<code>\textsection</code> .	1283, 2566, 3843, 5120,
<code>\textlbrackdbl</code>	9675, 10361, 11043		6397, 7674, 8956, 9937, 10623, 11305
<code>\textleaf</code>	9723, 10409, 11091	<code>\textservicemark</code> ...	9900, 10586, 11268
<code>\textleftarrow</code>	9519, 10205, 10887	<code>\textsterling</code>	1416, 2699,
<code>\textless</code>	842,		3976, 5253, 6530, 7807, 9092,
	2127, 3404, 4681, 5958, 7235, 8517		9834, 9920, 10520, 10606, 11202, 11288
<code>\textlira</code>	9833, 10519, 11201	<code>\textsurd</code>	10026, 10712, 11394
<code>\textlnot</code>	9960, 10646, 11328	<code>\textthreequarters</code> ..	10040, 10726, 11408
<code>\textlquill</code>	9906, 10592, 11274	<code>\textthreequartersemdash</code>	9507, 10193, 10875
<code>\textmarried</code>	9729, 10415, 11097		9991, 10677, 11359
<code>\textmho</code>	9657, 10343, 11025	<code>\texttildelow</code>	9741, 10427, 11109
<code>\textminus</code>	9646, 10332, 11014	<code>\texttimes</code>	10050, 10736, 11437
<code>\textmu</code>	10000, 10686, 11368	<code>\texttrademark</code>	9860, 10546, 11228

<code>\texttt</code>	652, 659, 1936, 1944, 3213, 3221, 4490, 4498, 5767, 5775, 7044, 7052, 8326, 8334	<code>\topaccent</code>	35, 63
<code>\texttwelveudash</code>	9503, 10189, 10871	<code>ts1-dotinf.etx (etx)</code>	9380
<code>\texttwosuperior</code>	9987, 10673, 11355	<code>ts1-dotsup.etx (etx)</code>	10066
<code>\textunderscore</code>	990, 2275, 3552, 4829, 6106, 7383, 8665	<code>ts1-euro.etx (etx)</code>	10752
<code>\textuparrow</code>	9687, 10373, 11055	<code>\tt</code> 731, 2016, 3293, 4570, 5847, 7124, 8406	
<code>\textvisiblespace</code>	719, 2004, 3281, 4558, 5835, 7112, 8394	<code>\TypesetStringExpression</code>	62, 67
<code>\textwon</code>	9813, 10499, 11181		
<code>\textyen</code>	9928, 10614, 11296		
<code>\then</code>	33, 41, 79, 120, 123, 169, 174, 195, 223, 254, 261, 271, 284, 314, 347, 357, 363, 390, 430, 431, 441, 447, 448, 459, 465, 467, 473, 483, 489, 491, 497, 503, 505, 511, 517, 519, 525, 550, 685, 688, 895, 1009, 1025, 1028, 1046, 1090, 1265, 1398, 1713, 1714, 1724, 1730, 1731, 1742, 1748, 1750, 1756, 1766, 1772, 1774, 1780, 1786, 1788, 1794, 1800, 1802, 1808, 1833, 1970, 1973, 2180, 2294, 2310, 2313, 2331, 2375, 2548, 2681, 2990, 2991, 3001, 3007, 3008, 3019, 3025, 3027, 3033, 3043, 3049, 3051, 3057, 3063, 3065, 3071, 3077, 3079, 3085, 3110, 3247, 3250, 3457, 3571, 3587, 3590, 3608, 3652, 3825, 3958, 4267, 4268, 4278, 4284, 4285, 4296, 4302, 4304, 4310, 4320, 4326, 4328, 4334, 4340, 4342, 4348, 4354, 4356, 4362, 4387, 4524, 4527, 4734, 4848, 4864, 4867, 4885, 4929, 5102, 5235, 5544, 5545, 5555, 5561, 5562, 5573, 5579, 5581, 5587, 5597, 5603, 5605, 5611, 5617, 5619, 5625, 5631, 5633, 5639, 5664, 5801, 5804, 6011, 6125, 6141, 6144, 6162, 6206, 6379, 6512, 6821, 6822, 6832, 6838, 6839, 6850, 6856, 6858, 6864, 6874, 6880, 6882, 6888, 6894, 6896, 6902, 6908, 6910, 6916, 6941, 7078, 7081, 7288, 7402, 7418, 7421, 7439, 7483, 7656, 7789, 8103, 8104, 8114, 8120, 8121, 8132, 8138, 8140, 8146, 8156, 8162, 8164, 8170, 8176, 8178, 8184, 8190, 8192, 8198, 8223, 8360, 8363, 8570, 8684, 8700, 8703, 8721, 8765, 8938, 9074, 9398, 9404, 9406, 10084, 10090, 10092, 10764, 10770, 10772, 11411, 11459, 11460		
			U
		<code>\u</code>	590, 1152, 1180, 1287, 1315, 1873, 2437, 2465, 2570, 2598, 3150, 3714, 3742, 3847, 3875, 4427, 4991, 5019, 5124, 5152, 5704, 6268, 6296, 6401, 6429, 6981, 7545, 7573, 7678, 7706, 8263, 8827, 8855, 8960, 8988
		<code>\uc</code>	383, 426, 863, 867, 871, 875, 879, 883, 887, 891, 897, 903, 907, 911, 915, 919, 923, 927, 931, 935, 939, 943, 947, 951, 955, 959, 963, 967, 1155, 1175, 1187, 1191, 1203, 1229, 1237, 1443, 1448, 1484, 1514, 1519, 1543, 1709, 2148, 2152, 2156, 2160, 2164, 2168, 2172, 2176, 2182, 2188, 2192, 2196, 2200, 2204, 2208, 2212, 2216, 2220, 2224, 2228, 2232, 2236, 2240, 2244, 2248, 2252, 2440, 2460, 2472, 2476, 2488, 2512, 2520, 2726, 2731, 2767, 2797, 2802, 2826, 2986, 3425, 3429, 3433, 3437, 3441, 3445, 3449, 3453, 3459, 3465, 3469, 3473, 3477, 3481, 3485, 3489, 3493, 3497, 3501, 3505, 3509, 3513, 3517, 3521, 3525, 3529, 3717, 3737, 3749, 3753, 3765, 3789, 3797, 4003, 4008, 4044, 4074, 4079, 4103, 4263, 4702, 4706, 4710, 4714, 4718, 4722, 4726, 4730, 4736, 4742, 4746, 4750, 4754, 4758, 4762, 4766, 4770, 4774, 4778, 4782, 4786, 4790, 4794, 4798, 4802, 4806, 4994, 5014, 5026, 5030, 5042, 5066, 5074, 5280, 5285, 5321, 5351, 5356, 5380, 5540, 5979, 5983, 5987, 5991, 5995, 5999, 6003, 6007, 6013, 6019, 6023, 6027, 6031, 6035, 6039, 6043, 6047, 6051, 6055, 6059, 6063, 6067, 6071, 6075, 6079, 6083, 6271, 6291, 6303, 6307, 6319, 6343, 6351, 6557, 6562, 6598, 6628, 6633, 6657, 6817, 7256, 7260, 7264, 7268, 7272, 7276, 7280, 7284, 7290, 7296, 7300, 7304, 7308, 7312, 7316, 7320, 7324, 7328, 7332, 7336, 7340, 7344, 7348,

7352, 7356, 7360, 7548, 7568,	5372, 5376, 5542, 6267, 6275,
7580, 7584, 7596, 7620, 7628,	6279, 6283, 6287, 6295, 6299,
7834, 7839, 7875, 7905, 7910, 7934,	6311, 6315, 6323, 6327, 6331, 6335,
8099, 8538, 8542, 8546, 8550,	6339, 6347, 6355, 6359, 6363,
8554, 8558, 8562, 8566, 8572,	6367, 6371, 6375, 6388, 6533,
8578, 8582, 8586, 8590, 8594,	6537, 6541, 6545, 6549, 6553,
8598, 8602, 8606, 8610, 8614,	6566, 6570, 6574, 6578, 6582,
8618, 8622, 8626, 8630, 8634,	6586, 6590, 6594, 6604, 6608,
8638, 8642, 8830, 8850, 8862,	6612, 6616, 6620, 6624, 6637, 6641,
8866, 8878, 8902, 8910, 9119, 9124,	6645, 6649, 6653, 6819, 7544,
9160, 9190, 9195, 9219, 9370, 11457	7552, 7556, 7560, 7564, 7572, 7576,
<code>\ucdotalt.etx</code> (etx) 11454	7588, 7592, 7600, 7604, 7608,
<code>\uclig</code> . 387, 432, 433, 438, 1267, 1548,	7612, 7616, 7624, 7632, 7636, 7640,
1715, 1716, 1721, 2550, 2831, 2992,	7644, 7648, 7652, 7665, 7810, 7814,
2993, 2998, 3827, 4108, 4269,	7818, 7822, 7826, 7830, 7843, 7847,
4270, 4275, 5104, 5385, 5546, 5547,	7851, 7855, 7859, 7863, 7867, 7871,
5552, 6381, 6662, 6823, 6824,	7881, 7885, 7889, 7893, 7897, 7901,
6829, 7658, 7939, 8105, 8106, 8111,	7914, 7918, 7922, 7926, 7930, 8101,
8940, 9224, 9374, 11461, 11462, 11467	8826, 8834, 8838, 8842, 8846,
<code>\uctop</code> 385,	8854, 8858, 8870, 8874, 8882,
428, 1151, 1159, 1163, 1167, 1171,	8886, 8890, 8894, 8898, 8906,
1179, 1183, 1195, 1199, 1209, 1213,	8914, 8918, 8922, 8926, 8930,
1217, 1221, 1225, 1233, 1241, 1245,	8934, 8947, 9095, 9099, 9103,
1249, 1253, 1257, 1261, 1274, 1419,	9107, 9111, 9115, 9128, 9132, 9136,
1423, 1427, 1431, 1435, 1439, 1452,	9140, 9144, 9148, 9152, 9156, 9166,
1456, 1460, 1464, 1468, 1472, 1476,	9170, 9174, 9178, 9182, 9186, 9199,
1480, 1490, 1494, 1498, 1502, 1506,	9203, 9207, 9211, 9215, 9372, 11458
1510, 1523, 1527, 1531, 1535, 1539,	<code>\unfakable</code> 208, 209, 210, 211,
1711, 2436, 2444, 2448, 2452, 2456,	212, 213, 214, 215, 216, 217, 218, 219
2464, 2468, 2480, 2484, 2492,	<code>uniquify()</code> (fn) 4 , 14
2496, 2500, 2504, 2508, 2516,	<code>uniquifyencs</code> (targ) 3 , 14 , 14
2524, 2528, 2532, 2536, 2540,	<code>\usemtpackage</code>
2544, 2557, 2702, 2706, 2710, 2714,	23, 191, 193, 197, 198, 199, 203, 206
2718, 2722, 2735, 2739, 2743, 2747,	<code>\usepackage</code> 6, 7
2751, 2755, 2759, 2763, 2773, 2777,	
2781, 2785, 2789, 2793, 2806, 2810,	V
2814, 2818, 2822, 2988, 3713, 3721,	<code>\v</code> . . . 586, 1164, 1168, 1172, 1188, 1200,
3725, 3729, 3733, 3741, 3745, 3757,	1218, 1226, 1234, 1258, 1299, 1303,
3761, 3769, 3773, 3777, 3781, 3785,	1307, 1323, 1335, 1351, 1359, 1367,
3793, 3801, 3805, 3809, 3813, 3817,	1391, 1869, 2449, 2453, 2457, 2473,
3821, 3834, 3979, 3983, 3987,	2485, 2501, 2509, 2517, 2541, 2582,
3991, 3995, 3999, 4012, 4016, 4020,	2586, 2590, 2606, 2618, 2634,
4024, 4028, 4032, 4036, 4040,	2642, 2650, 2674, 3146, 3726, 3730,
4050, 4054, 4058, 4062, 4066,	3734, 3750, 3762, 3778, 3786, 3794,
4070, 4083, 4087, 4091, 4095,	3818, 3859, 3863, 3867, 3883,
4099, 4265, 4990, 4998, 5002,	3895, 3911, 3919, 3927, 3951, 4423,
5006, 5010, 5018, 5022, 5034,	5003, 5007, 5011, 5027, 5039,
5038, 5046, 5050, 5054, 5058,	5055, 5063, 5071, 5095, 5136, 5140,
5062, 5070, 5078, 5082, 5086,	5144, 5160, 5172, 5188, 5196, 5204,
5090, 5094, 5098, 5111, 5256, 5260,	5228, 5700, 6280, 6284, 6288,
5264, 5268, 5272, 5276, 5289,	6304, 6316, 6332, 6340, 6348,
5293, 5297, 5301, 5305, 5309,	6372, 6413, 6417, 6421, 6437, 6449,
5313, 5317, 5327, 5331, 5335, 5339,	6465, 6473, 6481, 6505, 6977, 7557,
5343, 5347, 5360, 5364, 5368,	7561, 7565, 7581, 7593, 7609, 7617,

7625, 7649, 7690, 7694, 7698, 7714, 7726, 7742, 7750, 7758, 7782, 8259, 8839, 8843, 8847, 8863, 8875, 8891, 8899, 8907, 8931, 8972, 8976, 8980, 8996, 9008, 9027, 9035, 9043, 9067, 9460, 10146, 10828		keeptempfiles	6, 14
		mapmakers	6, 14
		vendor	6, 14
		vendor (var)	6, 14
			W
variables:		\width ..	233, 235, 466, 468, 526, 1749, 1751, 1809, 3026, 3028, 3086, 4303, 4305, 4363, 5580, 5582, 5640, 6857, 6859, 6917, 8139, 8141, 8199, 9405, 9407, 10091, 10093, 10771, 10773
autotestfds	4, 14		
binmakers	6, 14		
familymakers	6, 14		
fnttestfds	6, 14		
keepdir	6, 14		
keepfiles	6, 14		
keptempdir	6, 14		
			X
		\xfonttable	10