fontscripts

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Abstract

fontscripts provides variant font encodings, support metrics and Lua script fragments to automate the creation of TEX/LATEX 2ε font files for 8-bit engines using l3build. A template-based system enables the automatic generation of font tables and l3build tests.

The script fragments[1] make it possible to automate the generation of TEX 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 TEX Live, but the documentation includes a simple adaption for integration with FontForge and GNU make.

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

[1]The 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.

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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 automatically[2].

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,

[2] Hopefully.

```
\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 .. "/nfssext-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 .. "/nfssext-cfr"}
typesetexe	=	"TEXMFDOTDIR=.:../local: pdflatex"
typesetfiles	=	typesetfiles or {"*.dtx", "*-tables.tex", "*-example.tex"}
typesetsourcefiles	=	{keepdir .. "/*", "nfssext-cfr*.sty"}
unpackexe	=	"pdflatex"
unpackfiles	=	{"*.ins"}
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 TEX font metrics/virtual font metrics into binary TEX font metrics and virtual fonts.

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

Source files `fontinst()` should compile to generate TEX 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, TEX font metrics, virtual fonts etc.

`keeptempdir` (*var*) `keeptempdir = "`⟨*dir*⟩`"`

Directory to store intermediat products of font creation e.g. human-readable TEX 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 `finst()` 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

```
autotcfds ={ "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(autotcfds) 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
```

```
    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*)

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

\documentclass[10pt,a4paper]{article}
\usepackage{geometry}
\usepackage{fonttable}
\newcommand\sampletable[4]{%
  #1/#2/#3/#4:\par\noindent
  \xfonttable{#1}{#2}{#3}{#4}%
  \clearpage
}
% vim: ts=2:sw=2:tw=80:nospell
```

[3] It does not ensure encoding names are unique, but it should.
[4] Note 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 LaTeX 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.

```
os.setenv ("PATH", "/usr/local/texlive/bin:/usr/bin:")
os.setenv ("TEXMFHOME", ".")
os.setenv ("TEXMFLOCAL", ".")
os.setenv ("TEXMFARCH", ".")
-------------------------------------------------
-- copy non-public things from l3build
local os_newline_cp = "\n"
if os.type == "windows" then
  if tonumber(status.luatex_version) < 100 or
     (tonumber(status.luatex_version) == 100
       and tonumber(status.luatex_revision) < 4) then
    os_newline_cp = "\r\n"
  end
end
-------------------------------------------------
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.

```
ntarg = "fnttarg"
```

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

```
utarg = "uniquifyencs"

function gwall (msg,file,rtn)
  file = file or "current file"
  msg = msg or "Error: "
  rtn = rtn or 0
  if rtn ~= 0 then
    nifergwall = nifergwall + rtn
    print (msg .. file .. " failed (" .. rtn .. ")\n")
  end
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 strin
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 plname = string.gsub(j, "%.tfm$", ".pl")
235     if fileexists(unpackdir .. "/" .. plname) then
236       print(plname .. " already exists!")
237       return 1
238     else
239       local cmd = "tftopl " .. j .. " " .. plname
240       local errorlevel = runcmd(cmd,dir)
241       gwall("Conversion to pl from tfm ",j,errorlevel)
242       -- remove tfm to reduce pollution of package later
243       rm(unpackdir,j)
244       gwall("Deletion of tfm ", j, errorlevel)
245     end
246   end
247   for i,j in ipairs(familymakers) do
248     local errorlevel = finst(j,dir,mode)
249     gwall("Compilation of driver ", j, errorlevel)
250   end
251   if nifergwall ~= 0 then return nifergwall end
252   for i,j in ipairs(mapmakers) do
253     local errorlevel = finst (j,dir,mode)
254     gwall("Compilation of map ", j, errorlevel)
255   end
256   if nifergwall ~= 0 then return nifergwall end
257   for i,j in ipairs(binmakers) do
258     local targs = filelist(dir,j)
259     -- https://www.lua.org/pil/21.1.html
260     for k,m in ipairs(targs) do
261       targ = dir .. "/" .. m
262       -- is this really the right way to do this?
263       -- surely it is not at all safe?
264       -- though presumably no worse than executing the script directly
265       for line in io.lines(targ) do
266         if string.match(line,"^pltotf [a-zA-Z0-9%-]+%.pl [a-zA-Z0-9%-]+%.tfm$") 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 csscaleaux = string.match(content, "%<%-%> *\\([%a%d][%a%d]*@@scale)")
293       if csscaleaux ~= nil then
294         local csscale = string.gsub(csscaleaux, "@(@)", "%1")
295         if csscale ~= nil then
296           new_content = string.gsub(content, "(\\DeclareFontFamily{)", "%% addaswyd o t1
297         end
298       end
299       csscaleaux = string.match(content, "\\DeclareFontFamily{[^}]*}{[^}]*}{[^}]*\\hyphe
300       if csscaleaux ~= 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
```

```
    end
    coll = maps .. "\n\\usepackage[enc=t1]{" .. fntpkgname .. "}\n\\begin{document}\n\
    collly = maps .. "\n\\usepackage[enc=ly1]{" .. fntpkgname .. "}\n\\begin{document}
  else
    -- assume package doesn't have an encoding option and is t1/ts1 only
    coll = maps .. "\n\\usepackage{" .. fntpkgname .. "}\n\\begin{document}\n\\START\n
  end
  -- coll = maps .. "\n\\begin{document}\n\\START\n" .. coll .. "\n\\END\n\\end{docume
  local new_content =  "%% Do not edit this file. It is generated by l3build and chang
  local f = assert(io.open(targfile,"w"))
  -- this somehow removes the second value returned by string.gsub??
  f:write((string.gsub(new_content,"\n",os_newline_cp)))
  f:close()
  if yy == 1 then
    new_content =  "%% Do not edit this file. It is generated by l3build and changes w
    local f = assert(io.open(targfilely,"w"))
    -- this somehow removes the second value returned by string.gsub??
    f:write((string.gsub(new_content,"\n",os_newline_cp)))
    f:close()
  end
  -- PAID Â CHEISIO YR ISOD!!
  -- cp(targname,unpackdir,testfiledir)
  local errorlevel = cp(targname,unpackdir,testdir)
  if errorlevel ~= 0 then
    gwall("Attempt to copy ", targname, errorlevel)
  end
  errorlevel = cp(targnamely,unpackdir,testdir)
  if errorlevel ~= 0 then
    gwall("Attempt to copy ", targnamely, errorlevel)
  end
  return nifergwall
end
```

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

```
function checkinit_hook ()
  local filename = "fnt-test.lvt"
  local file = unpackdir .. "/" .. filename
  local fnttestdir = maindir .. "/fnt-tests"
  local maps = ""
  local mapfiles=filelist(keepdir, "*.map")
  local mapsdir = ""
  local fdsdir = ""
  if #mapfiles == 0 then
    mapfiles=filelist(unpackdir, "*.map")
    if #mapfiles == 0 then
      gwall("Attempt to find map files ", ".map", 1)
      return 1
    else
      print("Using maps from " .. unpackdir .. "\n")
```

```
423       mapsdir = unpackdir
424     end
425   else
426     mapsdir = 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 #autotestfds == 0 then
454       for i, j in ipairs(autotestfdstmp) do
455         if not string.match(j,"^ts1") then
456           table.insert (autotestfds, j)
457         end
458       end
459     end
460   end
461   -------
462   -- if fntestfds.<package name> has been specified, use that (should be a table)
463   -- o/w assign the autotestfds table to fntestfds.<package name>
464   -- but remember fnttestfds may be pairs and/or ipairs ...
465   -- there must be a better way to do this ...
466   if #fnttestfds == 0 then
467     for i,j in ipairs(fntpkgnames) do
468       if fnttestfds[j] == nil then
469         print("Auto-assigning autotestfds to fnttestfds[" .. j .. "].\n")
470         fnttestfds[j] = {}
471         for a,b in ipairs(autotestfds) do
472           table.insert(fnttestfds[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"), "
517       content = string.gsub(content, "\\RequirePackage%{svn%-prov%}\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,fdsdir)
```

```
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"), "
567       content = string.gsub(content, "\\RequirePackage%{svn%-prov%}\n\\ProvidesFileSVN
568       -- l3build-tagging.lua
569       for i, j in ipairs(fdfiles) do
```

```
570           if string.match(j,"^ly1") then
571             yy = 1
572           end
573           j = unpackdir .. "/" .. j
574           for line in io.lines(j) do
575             if string.match(line,"^\\DeclareFontShape%{[^%}]*%}%{[^%}]*%}%{[^%}]*%}%{[^%
576               coll = (coll .. string.gsub(string.gsub(line,"%{$","%%%"),"^\\DeclareFont
577             end
578           end
579         end
580         if yy == 1 then
581           maps = "\n\\input{ly1enc.def}\n" .. maps
582         end
583         coll = maps .. "\n\\begin{document}\n" .. coll .. "\n\\end{document}\n"
584         local new_content =  "%% Do not edit this file. It is generated by l3build and c
585         local f = assert(io.open(targfile,"w"))
586         -- this somehow removes the second value returned by string.gsub??
587         f:write((string.gsub(new_content,"\n",os_newline_cp)))
588         f:close()
589         rm(unpackdir,filename)
590         cp(targname,unpackdir,sourcefiledir)
591       end
592     end
593     return 0
594   end
```

`fnttarg` (*targ*) Main target definition.

```
595   target_list[ntarg] = {
596           func = fontinst,
597     desc = "Creates TeX font file",
598     pre = function(names)
599       if names then
600         print("fontinst does not need names\n")
601         help()
602         exit(1)
603       end
604       return 0
605     end
606   }
```

`uniquifyencs` (*targ*) Secondary target. It is not normally necessary to invoke this target separately if using the default definition of `fnttarg`.

```
607   target_list[utarg] = {
608     func = uniquify,
609     desc = "Uniquifies encodings ONLY",
610     pre = function(names)
611       standalone = true
612       if names and #names > 1 then
```

```
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 .. "/nfssext-cfr", maindir .. "/fnt-tests"}
627   checkengines = {"pdftex"}
628   checkformat = "latex"
629   -- checksuppfiles = {""}
630   cleanfiles = {keeptempfiles}
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*)
`keeptempdir` (*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   keeptempdir = keeptempdir or sourcefiledir .. "/keeptemp"
```

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

```
641 keepfiles = keepfiles or {"*.enc", "*.fd", "*.map", "*.tfm", "*.vf"}
642 keeptempfiles = keeptempfiles 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 .. "/nfssext-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 .. "/*", "nfssext-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 locally[5]. For an example of how to do this, see the build-config.lua file for LaTeX 2_ε.

`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 TeX fonts. For example, they may construct otherwise missing glyphs or adjust kerning pairs.

4.2.1 dotscbuild.mtx

`dotscbuild.mtx` (*mtx*)

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

```
\relax

\metrics

\needsfontinstversion{1.917}

\usemtxpackage{ltcmds}
\ProvidesMtxPackage{dotscbuild}

\begincomment
\section{Proper latin small capitals}

\subsection{Some utility commands}
\endcomment

\setcommand\setcsctopglyph#1#2#3#4{
   \ifareglyphs{#2.sc,#3}\then
      \setglyph{#1}
         \topaccent{#2.sc}{#3}{#4}
      \endsetglyph
      \setleftrightkerning{#1}{#2.sc}{1000}
   \Fi
}
\setcommand\setcscbotglyph#1#2#3#4{
   \ifareglyphs{#2.sc,#3}\then
      \setglyph{#1}
         \botaccent{#2.sc}{#3}{#4}
      \endsetglyph
      \setleftrightkerning{#1}{#2.sc}{1000}
   \Fi
}
\begincomment\medskip
A \textbf{Try: Set glyph} is an ordinary \textbf{Set glyph} which is
conditional on that a set of glyphs (those used to construct the
composite glyph) are available. It is technically e.g.
\begin{quotation}
  \setcsctopglyph{\macroparameter{1}}{\macroparameter{2}}%
    {\macroparameter{3}}{\macroparameter{4}}
  \setcscbotglyph{\macroparameter{1}}{\macroparameter{2}}%
    {\macroparameter{3}}{\macroparameter{4}}\par
\end{quotation}
(both of which are implemented in the code as simple four argument
commands), but in the list of commands below those two commands will
be typeset as
\resetcommand\setcsctopglyph#1#2#3#4{%
   \Aheading{Try: Set glyph `\TypesetStringExpression{#1}'}
   \topaccent{#2.sc}{#3}{#4}
   \setleftrightkerning{#1}{#2.sc}{1000}
}
\resetcommand\setcscbotglyph#1#2#3#4{%
   \Aheading{Try: Set glyph `\TypesetStringExpression{#1}'}
   \botaccent{#2.sc}{#3}{#4}
   \setleftrightkerning{#1}{#2.sc}{1000}
}
```

```
\begin{quotation}
  \setcsctopglyph{\macroparameter{1}}{\macroparameter{2}}%
    {\macroparameter{3}}{\macroparameter{4}}
  \setcscbotglyph{\macroparameter{1}}{\macroparameter{2}}%
    {\macroparameter{3}}{\macroparameter{4}}
\end{quotation}
\endcomment

\ifareglyphs{L,l.sc}\then
   \setint{smallcapsscale}{
     \div{\mul{1000}{\height{l.sc}}}{\height{L}}
   }
\Else
   \setint{smallcapsscale}{800}
\Fi


\setcsctopglyph{aacute.sc}{a}{acute}{500}
\setcsctopglyph{abreve.sc}{a}{breve}{500}
\setcsctopglyph{acircumflex.sc}{a}{circumflex}{500}
\setcsctopglyph{adieresis.sc}{a}{dieresis}{500}
\setcsctopglyph{agrave.sc}{a}{grave}{500}
\setcscbotglyph{aogonek.sc}{a}{ogonek}{900}
\setcsctopglyph{aring.sc}{a}{ring}{500}
\setcsctopglyph{atilde.sc}{a}{tilde}{500}

\setcsctopglyph{cacute.sc}{c}{acute}{500}
\setcsctopglyph{ccaron.sc}{c}{caron}{500}
\setcsctopglyph{ccedilla.sc}{c}{cedilla}{500}

\setcsctopglyph{dcaron.sc}{d}{caron}{500}

\setcsctopglyph{eacute.sc}{e}{acute}{500}
\setcsctopglyph{ecaron.sc}{e}{caron}{500}
\setcsctopglyph{ecircumflex.sc}{e}{circumflex}{500}
\setcsctopglyph{edieresis.sc}{e}{dieresis}{500}
\setcsctopglyph{egrave.sc}{e}{grave}{500}
\setcscbotglyph{eogonek.sc}{e}{ogonek}{850}

\setcsctopglyph{gbreve.sc}{g}{breve}{500}

\setcsctopglyph{iacute.sc}{i}{acute}{500}
\setcsctopglyph{icircumflex.sc}{i}{circumflex}{500}
\setcsctopglyph{idieresis.sc}{i}{dieresis}{500}
\setcsctopglyph{idotaccent.sc}{i}{dotaccent}{500}
\setcsctopglyph{igrave.sc}{i}{grave}{500}

\setcsctopglyph{lacute.sc}{l}{acute}{250}

\ifareglyphs{l.sc,quoteright}\then
   \setglyph{lcaron.sc}
      \glyph{l.sc}{1000}
      \ifisint{monowidth}\then\Else \movert{-100} \Fi
      \glyph{quoteright}{\int{smallcapsscale}}
```

```
   \endsetglyph
   \setleftkerning{lcaron.sc}{l.sc}{1000}
\Fi

\setcsctopglyph{nacute.sc}{n}{acute}{500}
\setcsctopglyph{ncaron.sc}{n}{caron}{500}
\setcsctopglyph{ntilde.sc}{n}{tilde}{500}

\setcsctopglyph{oacute.sc}{o}{acute}{500}
\setcsctopglyph{ocircumflex.sc}{o}{circumflex}{500}
\setcsctopglyph{odieresis.sc}{o}{dieresis}{500}
\setcsctopglyph{ograve.sc}{o}{grave}{500}
\setcsctopglyph{ohungarumlaut.sc}{o}{hungarumlaut}{500}
\setcsctopglyph{otilde.sc}{o}{tilde}{500}

\setcsctopglyph{racute.sc}{r}{acute}{500}
\setcsctopglyph{rcaron.sc}{r}{caron}{500}

\setcsctopglyph{sacute.sc}{s}{acute}{500}
\setcsctopglyph{scaron.sc}{s}{caron}{500}
\setcscbotglyph{scedilla.sc}{s}{cedilla}{500}

\setcsctopglyph{tcaron.sc}{t}{caron}{500}
\setcscbotglyph{tcedilla.sc}{t}{cedilla}{500}

\setcsctopglyph{uacute.sc}{u}{acute}{500}
\setcsctopglyph{ucircumflex.sc}{u}{circumflex}{500}
\setcsctopglyph{udieresis.sc}{u}{dieresis}{500}
\setcsctopglyph{ugrave.sc}{u}{grave}{500}
\setcsctopglyph{uhungarumlaut.sc}{u}{hungarumlaut}{500}
\setcsctopglyph{uring.sc}{u}{ring}{500}

\setcsctopglyph{yacute.sc}{y}{acute}{500}
\setcsctopglyph{ydieresis.sc}{y}{dieresis}{500}

\setcsctopglyph{zacute.sc}{z}{acute}{500}
\setcsctopglyph{zcaron.sc}{z}{caron}{500}
\setcsctopglyph{zdotaccent.sc}{z}{dotaccent}{500}


\begincomment
\subsection{Other glyphs that can be built}
\endcomment

\ifisglyph{dcroat.sc}\then
   \setglyph{dbar.sc}
      \glyph{dcroat.sc}{1000}
   \endsetglyph
   \setleftrightkerning{dbar.sc}{dcroat.sc}{1000}
\Else\ifisglyph{eth.sc}\then
   \setglyph{dbar.sc}
      \glyph{eth.sc}{1000}
   \endsetglyph
   \setleftrightkerning{dbar.sc}{eth.sc}{1000}
```

```
\Fi\Fi


\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...

```
\relax

\documentclass[twocolumn]{article}

\metrics

\needsfontinstversion{1.924}

\usemtxpackage{llbuild}

\usemtxpackage{lubuild}

\ifoption{nosc}\then \Else

\usemtxpackage{dotscbuild}
% \usemtxpackage{lsfake}
\usemtxpackage{dotscmisc}

\Fi

\usemtxpackage{ltpunct}


\usemtxpackage{ltcmds}

\unfakable{Gamma}
\unfakable{Delta}
\unfakable{Theta}
\unfakable{Lambda}
\unfakable{Xi}
\unfakable{Pi}
\unfakable{Sigma}
\unfakable{Upsilon}
\unfakable{Upsilon1}
\unfakable{Phi}
\unfakable{Psi}
\unfakable{Omega}

\foreach(accent){grave,acute,circumflex,tilde,dieresis,hungarumlaut,%
      ring,caron,breve,macron,dotaccent}
   \ifisglyph{\str{accent}}\then
      \resetglyph{\str{accent}}
         \glyph{\str{accent}}{1000}
         \resetdepth{0}
```

```
      \endresetglyph
   \Fi
\endfor(accent)


\setglyph{ringfitted}
   \movert{\half{\sub{\width{A}}{\width{ring}}}}
   \glyph{ring}{1000}
   \movert{\otherhalf{\sub{\width{A}}{\width{ring}}}}
\endsetglyph



\setleftkerning{less}{guillemotleft}{1000}
\setleftkerning{greater}{guillemotright}{1000}


\endmetrics

```

4.2.3 dotscmisc.mtx

`dotscmisc.mtx` (*mtx*)

```
\relax

\metrics

\needsfontinstversion{1.917}

\ProvidesMtxPackage{dotscmisc}

\ifisglyph{i.sc}\then
   \setglyph{dotlessi.sc}
      \glyph{i.sc}{1000}
      \setleftrightkerning{dotlessi.sc}{i.sc}{1000}
   \endsetglyph
\Fi

\ifisglyph{j.sc}\then
   \setglyph{dotlessj.sc}
      \glyph{j.sc}{1000}
      \setleftrightkerning{dotlessj.sc}{j.sc}{1000}
   \endsetglyph
\Fi


\setint{smallcapsspacing}{0}

\ifisglyph{f.sc}\then

\setglyph{ff.sc}
   \glyph{f.sc}{1000}
```

```
   \movert{\add{\kerning{f.sc}{f.sc}}{\int{smallcapsspacing}}}
   \glyph{f.sc}{1000}
\endsetglyph
\setrightkerning{ff.sc}{f.sc}{1000}
\setglyph{f_f.sc}
 \glyph{ff.sc}{1000}
\endsetglyph
\setrightkerning{f_f.sc}{ff.sc}{1000}

\ifisglyph{i.sc}\then
   \setglyph{fi.sc}
      \glyph{f.sc}{1000}
      \movert{\add{\kerning{f.sc}{i.sc}}{\int{smallcapsspacing}}}
      \glyph{i.sc}{1000}
   \endsetglyph

%    \setleftkerning{fi.sc}{f.sc}{1000}
   \setrightkerning{fi.sc}{i.sc}{1000}

   \setglyph{f_i.sc}
 \glyph{fi.sc}{1000}
   \endsetglyph
   \setrightkerning{f_i.sc}{fi.sc}{1000}

   \setglyph{ffi.sc}
      \glyph{ff.sc}{1000}
      \movert{\add{\kerning{f.sc}{i.sc}}{\int{smallcapsspacing}}}
      \glyph{i.sc}{1000}
   \endsetglyph

   \setglyph{f_f_i.sc}
 \glyph{ffi.sc}{1000}
   \endsetglyph
   \setrightkerning{f_f_i.sc}{ffi.sc}{1000}

%    \setleftkerning{ffi.sc}{f.sc}{1000}
   \setrightkerning{ffi.sc}{i.sc}{1000}
\fi

\ifisglyph{l.sc}\then
   \setglyph{fl.sc}
      \glyph{f.sc}{1000}
      \movert{\add{\kerning{f.sc}{l.sc}}{\int{smallcapsspacing}}}
      \glyph{l.sc}{1000}
   \endsetglyph

%    \setleftkerning{fl.sc}{f.sc}{1000}
   \setrightkerning{fl.sc}{l.sc}{1000}

   \setglyph{f_l.sc}
 \glyph{fl.sc}{1000}
   \endsetglyph
   \setrightkerning{f_l.sc}{fl.sc}{1000}

```

```
    \setglyph{ffl.sc}
       \glyph{ff.sc}{1000}
       \movert{\add{\kerning{f.sc}{l.sc}}{\int{smallcapsspacing}}}
       \glyph{l.sc}{1000}
    \endsetglyph

%    \setleftkerning{ffl.sc}{f.sc}{1000}
    \setrightkerning{ffl.sc}{l.sc}{1000}

    \setglyph{f_f_l.sc}
  \glyph{ffl.sc}{1000}
    \endsetglyph
    \setrightkerning{f_f_l.sc}{ffl.sc}{1000}

\fi
\fi % ifisglyph{f.sc}


\ifareglyphs{i.sc,j.sc}\then
    \setglyph{ij.sc}
       \glyph{i.sc}{1000}
       \movert{\add{\kerning{i.sc}{j.sc}}{\int{smallcapsspacing}}}
       \glyph{j.sc}{1000}
    \endsetglyph
%    \setleftkerning{ij.sc}{i.sc}{1000}
    \setrightkerning{ij.sc}{j.sc}{1000}
\fi

\ifisglyph{ss.sc}\then
 \setglyph{germandbls.sc}
  \glyph{ss.sc}{1000}
 \endsetglyph
 \setleftrightkerning{germandbls.sc}{ss.sc}{1000}
\Else
 \ifisglyph{s.sc}\then
     \setglyph{germandbls.sc}
         \glyph{s.sc}{1000}
         \movert{\add{\kerning{s.sc}{s.sc}}{\int{smallcapsspacing}}}
         \glyph{s.sc}{1000}
     \endsetglyph
     \setleftrightkerning{germandbls.sc}{s.sc}{1000}
 \Fi
\Fi

\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*)

```
\relax
\encoding
 \setcommand\digit#1{#1.oldstyle}
\endencoding
```

4.3.2 dotsc2.etx

`dotsc2.etx` (*etx*)

```
\relax

\encoding

\setcommand\lc#1#2{#2.sc}
\setcommand\uc#1#2{#1}
\setcommand\lctop#1#2{#2.sc}
\setcommand\uctop#1#2{#1}
\setcommand\lclig#1#2{#2.sc}
\setcommand\uclig#1#2{#1spaced}


\ifisint{capspacing}\then
   \setint{letterspacing}{\int{capspacing}}
\fi

\endencoding
```

4.3.3 dottaboldstyle.etx

`dottaboldstyle.etx` (*etx*)

```
\relax
\encoding
 \setcommand\digit#1{#1.taboldstyle}
\endencoding
```

4.3.4 lining.etx

`lining.etx` (*etx*)

```
\relax
\encoding
\setcommand\digit#1{#1lining}
\endencoding
```

4.3.5 oldstyle.etx

`oldstyle.etx` (*etx*)

```
\relax
\encoding
 \setcommand\digit#1{#1oldstyle}
\endencoding
```

4.3.6 t1-cfr.etx

`t1-cfr.etx` (*etx*)

```
%%
%% - The commentary in the original is deleted in this version. For
%% information about the T1 etc., typeset the original t1.etx
%% included with fontinst.
%% - Slots are altered to accommodate characters which are named
%% differently. For example, this encoding uses "endash" and "emdash"
%% whereas t1.etx called for "rangedash" and "punctdash".
%% - The original notices at the top of that file concerning authors,
%% maintenance etc. are replaced by this notice.
%% - The file is renamed.
%% - The encoding name is modified.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax
\encoding

\needsfontinstversion{1.910}

\setcommand\lc#1#2{#2}
\setcommand\uc#1#2{#1}
\setcommand\lctop#1#2{#2}
\setcommand\uctop#1#2{#1}
\setcommand\lclig#1#2{#2}
\ifisint{letterspacing}\then
   \ifnumber{\int{letterspacing}}={0}\then \Else
      \setcommand\uclig#1#2{#1spaced}
      \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
      you can't see it as \verb|\setcommand| commands are invisible in
      the typeset output.}
   \Fi
\Fi
\setcommand\uclig#1#2{#1}
\setcommand\digit#1{#1}

\ifisint{monowidth}\then
   \setint{ligaturing}{0}
\Else
   % The following empty line is *important* to get the formatting
   % right here (sigh)! (Remember that it is a \par token.)

   \ifisint{letterspacing}\then
```

```
      \ifnumber{\int{letterspacing}}={0}\then \Else
         \setint{ligaturing}{0}
      \Fi
   \Fi
 \setint{ligaturing}{1}
\Fi

\setint{italicslant}{0}
\setint{quad}{1000}
\setint{baselineskip}{1200}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
\Else
   \setint{xheight}{500}
\Fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\Else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\Else
   \setint{interword}{333}
\Fi\Fi

\ifisint{monowidth}\then
   \setint{stretchword}{0}
   \setint{shrinkword}{0}
   \setint{extraspace}{\int{interword}}
\Else
   \setint{stretchword}{\scale{\int{interword}}{600}}
   \setint{shrinkword}{\scale{\int{interword}}{240}}
   \setint{extraspace}{\scale{\int{interword}}{240}}
\Fi

\ifisglyph{X}\then
   \setint{capheight}{\height{X}}
\Else
   \setint{capheight}{750}
\Fi

\ifisglyph{d}\then
   \setint{ascender}{\height{d}}
\Else\ifisint{capheight}\then
   \setint{ascender}{\int{capheight}}
\Else
   \setint{ascender}{750}
\Fi\Fi

\ifisglyph{Aring}\then
   \setint{acccapheight}{\height{Aring}}
\Else
   \setint{acccapheight}{999}
\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}{acccapheight}  % 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
557 \setslot{\lc{Grave}{grave}}
558    \comment{The grave accent `\`{}'.}
559 \endsetslot
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}
```

```
  \comment{A German single quote mark `\quotesinglbase' similar to a comma,
      but with different sidebearings.}
\endsetslot

\setslot{guilsinglleft}
  \comment{A French single opening quote mark `\guilsinglleft',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{guilsinglright}
  \comment{A French single closing quote mark `\guilsinglright',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{quotedblleft}
  \comment{The English opening quote mark `\,\textquotedblleft\,'.}
\endsetslot

\setslot{quotedblright}
  \comment{The English closing quote mark `\,\textquotedblright\,'.}
\endsetslot

\setslot{quotedblbase}
  \comment{A German double quote mark `\quotedblbase' similar to two commas,
      but with tighter letterspacing and different sidebearings.}
\endsetslot

\setslot{guillemotleft}
  \comment{A French double opening quote mark `\guillemotleft',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{guillemotright}
  \comment{A French closing opening quote mark `\guillemotright',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{endash}
   \ligature{LIG}{hyphen}{emdash}
   \comment{The number range dash `1--9'. This is called `rangedash' by
     fontinst's t1.etx, but it needs to be called `endash' to work right. The
     `\textendash'.  In a monowidth font, this might be set as
   `\texttt{1{-}9}'.}
\endsetslot

\setslot{emdash}
   \comment{The punctuation dash `Oh---boy.' This is calle `punctdash' by
     fontinst's t1.etx, but needs to be called `emdash' to work right. The
     `\textemdash'.  In a monowidth font, this might be set as
   `\texttt{Oh{-}{-}boy.}'}
\endsetslot

\setslot{compwordmark}
   \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
```

```
\setslot{visiblespace}
   \comment{A visible space glyph `\textvisiblespace'.}
\endsetslot

\setslot{exclam}
   \ligature{LIG}{quoteleft}{exclamdown}
   \comment{The exclamation mark `!'.}
\endsetslot

\setslot{quotedbl}
  \comment{The `neutral' double quotation mark `\,\textquotedbl\,',
      included for use in monowidth fonts, or for setting computer
      programs.  Note that the inclusion of this glyph in this slot
      means that \TeX\ documents which used `{\tt\char`\"}' as an
      input character will no longer work.}
\endsetslot

\setslot{numbersign}
   \comment{The hash sign `\#'.}
\endsetslot

\setslot{dollar}
   \comment{The dollar sign `\$'.}
\endsetslot

\setslot{percent}
   \comment{The percent sign `\%'.}
\endsetslot

\setslot{ampersand}
   \comment{The ampersand sign `\&'.}
\endsetslot

\setslot{quoteright}
   \ligature{LIG}{quoteright}{quotedblright}
   \comment{The English closing single quote mark `\,\textquoteright\,'.}
\endsetslot

\setslot{parenleft}
   \comment{The opening parenthesis `('.}
\endsetslot

\setslot{parenright}
   \comment{The closing parenthesis `)'.}
\endsetslot

\setslot{asterisk}
   \comment{The raised asterisk `*'.}
\endsetslot

\setslot{plus}
   \comment{The addition sign `+'.}
\endsetslot

```

```
\setslot{comma}
   \ligature{LIG}{comma}{quotedblbase}
   \comment{The comma ‘,’.}
\endsetslot

\setslot{hyphen}
   \ligature{LIG}{hyphen}{endash}
   \ligature{LIG}{hyphenchar}{hyphenchar}
   \comment{The hyphen ‘-’.}
\endsetslot

\setslot{period}
   \comment{The period ‘.’.}
\endsetslot

\setslot{slash}
   \comment{The forward oblique ‘/’.}
\endsetslot

\setslot{\digit{zero}}
   \comment{The number ‘0’.  This (and all the other numerals) may be
      old style or ranging digits.}
\endsetslot

\setslot{\digit{one}}
   \comment{The number ‘1’.}
\endsetslot

\setslot{\digit{two}}
   \comment{The number ‘2’.}
\endsetslot

\setslot{\digit{three}}
   \comment{The number ‘3’.}
\endsetslot

\setslot{\digit{four}}
   \comment{The number ‘4’.}
\endsetslot

\setslot{\digit{five}}
   \comment{The number ‘5’.}
\endsetslot

\setslot{\digit{six}}
   \comment{The number ‘6’.}
\endsetslot

\setslot{\digit{seven}}
   \comment{The number ‘7’.}
\endsetslot

\setslot{\digit{eight}}
   \comment{The number ‘8’.}
```

```
\endsetslot

\setslot{\digit{nine}}
   \comment{The number ‘9’.}
\endsetslot

\setslot{colon}
   \comment{The colon punctuation mark ‘:’.}
\endsetslot

\setslot{semicolon}
   \comment{The semi-colon punctuation mark ‘;’.}
\endsetslot

\setslot{less}
   \ligature{LIG}{less}{guillemotleft}
   \comment{The less-than sign ‘\textless’.}
\endsetslot

\setslot{equal}
   \comment{The equals sign ‘=’.}
\endsetslot

\setslot{greater}
   \ligature{LIG}{greater}{guillemotright}
   \comment{The greater-than sign ‘\textgreater’.}
\endsetslot

\setslot{question}
   \ligature{LIG}{quoteleft}{questiondown}
   \comment{The question mark ‘?’.}
\endsetslot

\setslot{at}
   \comment{The at sign ‘@’.}
\endsetslot

\setslot{\uc{A}{a}}
   \comment{The letter ‘{A}’.}
\endsetslot

\setslot{\uc{B}{b}}
   \comment{The letter ‘{B}’.}
\endsetslot

\setslot{\uc{C}{c}}
   \comment{The letter ‘{C}’.}
\endsetslot

\setslot{\uc{D}{d}}
   \comment{The letter ‘{D}’.}
\endsetslot

\setslot{\uc{E}{e}}
```

```
   \comment{The letter ‘{E}’.}
\endsetslot

\setslot{\uc{F}{f}}
   \comment{The letter ‘{F}’.}
\endsetslot

\setslot{\uc{G}{g}}
   \comment{The letter ‘{G}’.}
\endsetslot

\setslot{\uc{H}{h}}
   \comment{The letter ‘{H}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

\setslot{\uc{I}{i}}
   \comment{The letter ‘{I}’.}
\endsetslot

\Fi

\setslot{\uc{J}{j}}
   \comment{The letter ‘{J}’.}
\endsetslot

\setslot{\uc{K}{k}}
   \comment{The letter ‘{K}’.}
\endsetslot

\setslot{\uc{L}{l}}
   \comment{The letter ‘{L}’.}
\endsetslot

\setslot{\uc{M}{m}}
   \comment{The letter ‘{M}’.}
\endsetslot

\setslot{\uc{N}{n}}
   \comment{The letter ‘{N}’.}
\endsetslot

\setslot{\uc{O}{o}}
   \comment{The letter ‘{O}’.}
\endsetslot

\setslot{\uc{P}{p}}
   \comment{The letter ‘{P}’.}
\endsetslot

\setslot{\uc{Q}{q}}
   \comment{The letter ‘{Q}’.}
\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
```

```
\setslot{\lc{H}{h}}
   \comment{The letter ‘{h}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{I}{i}}
      \comment{The letter ‘{i}’.}
   \endsetslot

\Fi

\setslot{\lc{J}{j}}
   \comment{The letter ‘{j}’.}
\endsetslot

\setslot{\lc{K}{k}}
   \comment{The letter ‘{k}’.}
\endsetslot

\setslot{\lc{L}{l}}
   \comment{The letter ‘{l}’.}
\endsetslot

\setslot{\lc{M}{m}}
   \comment{The letter ‘{m}’.}
\endsetslot

\setslot{\lc{N}{n}}
   \comment{The letter ‘{n}’.}
\endsetslot

\setslot{\lc{O}{o}}
   \comment{The letter ‘{o}’.}
\endsetslot

\setslot{\lc{P}{p}}
   \comment{The letter ‘{p}’.}
\endsetslot

\setslot{\lc{Q}{q}}
   \comment{The letter ‘{q}’.}
\endsetslot

\setslot{\lc{R}{r}}
   \comment{The letter ‘{r}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{S}{s}}
      \comment{The letter ‘{s}’.}
   \endsetslot

```

```
\Fi

\setslot{\lc{T}{t}}
   \comment{The letter ‘{t}’.}
\endsetslot

\setslot{\lc{U}{u}}
   \comment{The letter ‘{u}’.}
\endsetslot

\setslot{\lc{V}{v}}
   \comment{The letter ‘{v}’.}
\endsetslot

\setslot{\lc{W}{w}}
   \comment{The letter ‘{w}’.}
\endsetslot

\setslot{\lc{X}{x}}
   \comment{The letter ‘{x}’.}
\endsetslot

\setslot{\lc{Y}{y}}
   \comment{The letter ‘{y}’.}
\endsetslot

\setslot{\lc{Z}{z}}
   \comment{The letter ‘{z}’.}
\endsetslot

\setslot{braceleft}
   \comment{The opening curly brace ‘\textbraceleft’.}
\endsetslot

\setslot{bar}
   \comment{The ASCII vertical bar ‘\textbar’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{braceright}
   \comment{The closing curly brace ‘\textbraceright’.}
\endsetslot

\setslot{asciitilde}
   \comment{The ASCII tilde ‘\textasciitilde’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{hyphenchar}
   \comment{The glyph used for hyphenation in this font, which will
      almost always be the same as ‘hyphen’.}
\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}}
```

```
   \comment{The letter `\v Z'.}
\endsetslot

\setslot{\uctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. Z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\uclig{IJ}{ij}}
      \comment{The letter `IJ'.  This is a single letter, and in a
        monowidth font should ideally be one letter wide.}
   \endsetslot

\Fi

\setslot{\uctop{Idotaccent}{idotaccent}}
   \comment{The letter `\. I'.}
\endsetslot

\setslot{\lc{Dbar}{dbar}}
   \comment{The letter `\dj'.}
\endsetslot

\setslot{section}
   \comment{The section mark `\textsection'.}
\endsetslot

\setslot{\lctop{Abreve}{abreve}}
   \comment{The letter `\u a'.}
\endsetslot

\setslot{\lc{Aogonek}{aogonek}}
   \comment{The letter `\k a'.}
\endsetslot

\setslot{\lctop{Cacute}{cacute}}
   \comment{The letter `\' c'.}
\endsetslot

\setslot{\lctop{Ccaron}{ccaron}}
   \comment{The letter `\v c'.}
\endsetslot

\setslot{\lctop{Dcaron}{dcaron}}
   \comment{The letter `\v d'.}
\endsetslot

\setslot{\lctop{Ecaron}{ecaron}}
   \comment{The letter `\v e'.}
\endsetslot

\setslot{\lc{Eogonek}{eogonek}}
   \comment{The letter `\k e'.}
```

```
\endsetslot

\setslot{\lctop{Gbreve}{gbreve}}
   \comment{The letter `\u g'.}
\endsetslot

\setslot{\lctop{Lacute}{lacute}}
   \comment{The letter `\' l'.}
\endsetslot

\setslot{\lc{Lcaron}{lcaron}}
   \comment{The letter `\v l'.}
\endsetslot

\setslot{\lc{Lslash}{lslash}}
   \comment{The letter `\l'.}
\endsetslot

\setslot{\lctop{Nacute}{nacute}}
   \comment{The letter `\' n'.}
\endsetslot

\setslot{\lctop{Ncaron}{ncaron}}
   \comment{The letter `\v n'.}
\endsetslot

\setslot{\lc{Eng}{eng}}
   \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.}
\endsetslot

\setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter `\H o'.}
\endsetslot

\setslot{\lctop{Racute}{racute}}
   \comment{The letter `\' r'.}
\endsetslot

\setslot{\lctop{Rcaron}{rcaron}}
   \comment{The letter `\v r'.}
\endsetslot

\setslot{\lctop{Sacute}{sacute}}
   \comment{The letter `\' s'.}
\endsetslot

\setslot{\lctop{Scaron}{scaron}}
   \comment{The letter `\v s'.}
\endsetslot

\setslot{\lc{Scedilla}{scedilla}}
   \comment{The letter `\c s'.}
```

```
\endsetslot

\setslot{\lctop{Tcaron}{tcaron}}
   \comment{The letter `\v t'.}
\endsetslot

\setslot{\lc{Tcedilla}{tcedilla}}
   \comment{The letter `\c t'.}
\endsetslot

\setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H u'.}
\endsetslot

\setslot{\lctop{Uring}{uring}}
   \comment{The letter `\r u'.}
\endsetslot

\setslot{\lctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" y'.}
\endsetslot

\setslot{\lctop{Zacute}{zacute}}
   \comment{The letter `\' z'.}
\endsetslot

\setslot{\lctop{Zcaron}{zcaron}}
   \comment{The letter `\v z'.}
\endsetslot

\setslot{\lctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\lclig{IJ}{ij}}
      \comment{The letter `ij'.  This is a single letter, and in a
        monowidth font should ideally be one letter wide.}
   \endsetslot

\Fi

\setslot{exclamdown}
   \comment{The Spanish punctuation mark `!`'.}
\endsetslot

\setslot{questiondown}
   \comment{The Spanish punctuation mark `?`'.}
\endsetslot

\setslot{sterling}
   \comment{The British currency mark `\textsterling'.}
\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
```

```
\setslot{\uctop{Iacute}{iacute}}
   \comment{The letter `\' I'.}
\endsetslot

\setslot{\uctop{Icircumflex}{icircumflex}}
   \comment{The letter `\^ I'.}
\endsetslot

\setslot{\uctop{Idieresis}{idieresis}}
   \comment{The letter `\" I'.}
\endsetslot

\setslot{\uc{Eth}{eth}}
   \comment{The uppercase Icelandic letter `Eth' similar to a `D'
      with a horizontal bar through the stem.  It is unavailable
      in \plain\ \TeX.}
\endsetslot

\setslot{\uctop{Ntilde}{ntilde}}
   \comment{The letter `\~ N'.}
\endsetslot

\setslot{\uctop{Ograve}{ograve}}
   \comment{The letter `\` O'.}
\endsetslot

\setslot{\uctop{Oacute}{oacute}}
   \comment{The letter `\' O'.}
\endsetslot

\setslot{\uctop{Ocircumflex}{ocircumflex}}
   \comment{The letter `\^ O'.}
\endsetslot

\setslot{\uctop{Otilde}{otilde}}
   \comment{The letter `\~ O'.}
\endsetslot

\setslot{\uctop{Odieresis}{odieresis}}
   \comment{The letter `\" O'.}
\endsetslot

\setslot{\uc{OE}{oe}}
   \comment{The letter `\OE'.  This is a single letter, and should not be
      faked with `OE'.}
\endsetslot

\setslot{\uc{Oslash}{oslash}}
   \comment{The letter `\O'.}
\endsetslot

\setslot{\uctop{Ugrave}{ugrave}}
   \comment{The letter `\` U'.}
\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'.}
```

```
\endsetslot

\setslot{\lc{Ccedilla}{ccedilla}}
   \comment{The letter ‘\c c’.}
\endsetslot

\setslot{\lctop{Egrave}{egrave}}
   \comment{The letter ‘\‘ e’.}
\endsetslot

\setslot{\lctop{Eacute}{eacute}}
   \comment{The letter ‘\’ e’.}
\endsetslot

\setslot{\lctop{Ecircumflex}{ecircumflex}}
   \comment{The letter ‘\^ e’.}
\endsetslot

\setslot{\lctop{Edieresis}{edieresis}}
   \comment{The letter ‘\" e’.}
\endsetslot

\setslot{\lctop{Igrave}{igrave}}
   \comment{The letter ‘\‘\i’.}
\endsetslot

\setslot{\lctop{Iacute}{iacute}}
   \comment{The letter ‘\’\i’.}
\endsetslot

\setslot{\lctop{Icircumflex}{icircumflex}}
   \comment{The letter ‘\^\i’.}
\endsetslot

\setslot{\lctop{Idieresis}{idieresis}}
   \comment{The letter ‘\"\i’.}
\endsetslot

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

\setslot{\lctop{Ntilde}{ntilde}}
   \comment{The letter ‘\~ n’.}
\endsetslot

\setslot{\lctop{Ograve}{ograve}}
   \comment{The letter ‘\‘ o’.}
\endsetslot

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

```
\endsetslot

\setslot{\lctop{Ocircumflex}{ocircumflex}}
   \comment{The letter `\^ o'.}
\endsetslot

\setslot{\lctop{Otilde}{otilde}}
   \comment{The letter `\~ o'.}
\endsetslot

\setslot{\lctop{Odieresis}{odieresis}}
   \comment{The letter `\" o'.}
\endsetslot

\setslot{\lc{OE}{oe}}
   \comment{The letter `\oe'.  This is a single letter, and should not be
      faked with `oe'.}
\endsetslot

\setslot{\lc{Oslash}{oslash}}
   \comment{The letter `\o'.}
\endsetslot

\setslot{\lctop{Ugrave}{ugrave}}
   \comment{The letter `\` u'.}
\endsetslot

\setslot{\lctop{Uacute}{uacute}}
   \comment{The letter `\' u'.}
\endsetslot

\setslot{\lctop{Ucircumflex}{ucircumflex}}
   \comment{The letter `\^ u'.}
\endsetslot

\setslot{\lctop{Udieresis}{udieresis}}
   \comment{The letter `\" u'.}
\endsetslot

\setslot{\lctop{Yacute}{yacute}}
   \comment{The letter `\' y'.}
\endsetslot

\setslot{\lc{Thorn}{thorn}}
   \comment{The Icelandic lowercase letter `thorn', similar to a `p'
      with an ascender rising from the stem.  It is unavailable
      in \plain\ \TeX.}
\endsetslot

\setslot{\lc{SS}{germandbls}}
   \comment{The letter `\ss'.}
\endsetslot

\endencoding
```

4.3.7 t1-dotalt-f_f.etx

`t1-dotalt-f_f` (*etx*)

```
%%
%% - The commentary in the original is deleted in this version. For
%% information about the T1 etc., typeset the original t1.etx
%% included with fontinst.
%% - Slots are altered to accommodate characters which are named
%% differently. For example, this encoding uses "endash" and "emdash"
%% whereas t1.etx called for "rangedash" and "punctdash".
%% - The original notices at the top of that file concerning authors,
%% maintenance etc. are replaced by this notice.
%% - The file is renamed.
%% - The encoding name is modified.
%% - f_f, f_f_i and f_f_l replace ff, ffi and ffl.
%% - lc, uc and accented lc, uc are set to characters named "a.alt" etc.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax
\encoding

\needsfontinstversion{1.910}

\setcommand\lc#1#2{#2.alt}
\setcommand\uc#1#2{#1.alt}
\setcommand\lctop#1#2{#2.alt}
\setcommand\uctop#1#2{#1.alt}
\setcommand\lclig#1#2{#2}
\ifisint{letterspacing}\then
   \ifnumber{\int{letterspacing}}={0}\then \Else
      \setcommand\uclig#1#2{#1spaced}
      \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
      you can't see it as \verb|\setcommand| commands are invisible in
      the typeset output.}
   \Fi
\Fi
\setcommand\uclig#1#2{#1}
\setcommand\digit#1{#1}

\ifisint{monowidth}\then
   \setint{ligaturing}{0}
\Else
   % The following empty line is *important* to get the formatting
   % right here (sigh)! (Remember that it is a \par token.)

   \ifisint{letterspacing}\then
      \ifnumber{\int{letterspacing}}={0}\then \Else
         \setint{ligaturing}{0}
      \Fi
   \Fi
 \setint{ligaturing}{1}
\Fi

```

```
\setint{italicslant}{0}
\setint{quad}{1000}
\setint{baselineskip}{1200}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
\Else
   \setint{xheight}{500}
\Fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\Else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\Else
   \setint{interword}{333}
\Fi\Fi

\ifisint{monowidth}\then
   \setint{stretchword}{0}
   \setint{shrinkword}{0}
   \setint{extraspace}{\int{interword}}
\Else
   \setint{stretchword}{\scale{\int{interword}}{600}}
   \setint{shrinkword}{\scale{\int{interword}}{240}}
   \setint{extraspace}{\scale{\int{interword}}{240}}
\Fi

\ifisglyph{X}\then
   \setint{capheight}{\height{X}}
\Else
   \setint{capheight}{750}
\Fi

\ifisglyph{d}\then
   \setint{ascender}{\height{d}}
\Else\ifisint{capheight}\then
   \setint{ascender}{\int{capheight}}
\Else
   \setint{ascender}{750}
\Fi\Fi

\ifisglyph{Aring}\then
   \setint{acccapheight}{\height{Aring}}
\Else
   \setint{acccapheight}{999}
\Fi

\ifisint{descender_neg}\then
   \setint{descender}{\neg{\int{descender_neg}}}
\Else\ifisglyph{p}\then
   \setint{descender}{\depth{p}}
\Else
   \setint{descender}{250}
```

```
\Fi\Fi

\ifisglyph{Aring}\then
   \setint{maxheight}{\height{Aring}}
\Else
   \setint{maxheight}{1000}
\Fi

\ifisint{maxdepth_neg}\then
   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
\Else\ifisglyph{j}\then
   \setint{maxdepth}{\depth{j}}
\Else
   \setint{maxdepth}{250}
\Fi\Fi

\ifisglyph{six}\then
   \setint{digitwidth}{\width{six}}
\Else
   \setint{digitwidth}{500}
\Fi

\setint{capstem}{0} % not in AFM files

\setfontdimen{1}{italicslant}    % italic slant
\setfontdimen{2}{interword}      % interword space
\setfontdimen{3}{stretchword}    % interword stretch
\setfontdimen{4}{shrinkword}     % interword shrink
\setfontdimen{5}{xheight}        % x-height
\setfontdimen{6}{quad}           % quad
\setfontdimen{7}{extraspace}     % extra space after .
\setfontdimen{8}{capheight}      % cap height
\setfontdimen{9}{ascender}       % ascender
\setfontdimen{10}{acccapheight}  % accented cap height
\setfontdimen{11}{descender}     % descender's depth
\setfontdimen{12}{maxheight}     % max height
\setfontdimen{13}{maxdepth}      % max depth
\setfontdimen{14}{digitwidth}    % digit width
\setfontdimen{15}{verticalstem}  % dominant width of verical stems
\setfontdimen{16}{baselineskip}  % baselineskip

\ifnumber{\int{ligaturing}}<{0}\then
   \comment{In this case, the codingscheme can be different from the
     default, and therefore we refrain from setting it.}
\Else
   \setstr{codingscheme}{EXTENDED TEX ENC - DOTALT F_F}
\Fi

\setslot{\lc{Grave}{grave}}
   \comment{The grave accent `\`{}'.}
\endsetslot

\setslot{\lc{Acute}{acute}}
   \comment{The acute accent `\'{}'.}
```

```
\endsetslot

\setslot{\lc{Circumflex}{circumflex}}
   \comment{The circumflex accent `\^{}'.}
\endsetslot

\setslot{\lc{Tilde}{tilde}}
   \comment{The tilde accent `\~{}'.}
\endsetslot

\setslot{\lc{Dieresis}{dieresis}}
   \comment{The umlaut or dieresis accent `\"{}'.}
\endsetslot

\setslot{\lc{Hungarumlaut}{hungarumlaut}}
   \comment{The long Hungarian umlaut `\H{}'.}
\endsetslot

\setslot{\lc{Ring}{ring}}
   \comment{The ring accent `\r{}'.}
\endsetslot

\setslot{\lc{Caron}{caron}}
   \comment{The caron or h\'a\v cek accent `\v{}'.}
\endsetslot

\setslot{\lc{Breve}{breve}}
   \comment{The breve accent `\u{}'.}
\endsetslot

\setslot{\lc{Macron}{macron}}
   \comment{The macron accent `\={}'.}
\endsetslot

\setslot{\lc{Dotaccent}{dotaccent}}
   \comment{The dot accent `\.{}'.}
\endsetslot

\setslot{\lc{Cedilla}{cedilla}}
   \comment{The cedilla accent `\c {}'.}
\endsetslot

\setslot{\lc{Ogonek}{ogonek}}
   \comment{The ogonek accent `\k {}'.}
\endsetslot

\setslot{quotesinglbase}
  \comment{A German single quote mark `\quotesinglbase' similar to a comma,
      but with different sidebearings.}
\endsetslot

\setslot{guilsinglleft}
  \comment{A French single opening quote mark `\guilsinglleft',
      unavailable in \plain\ \TeX.}
```

```
\endsetslot

\setslot{guilsinglright}
  \comment{A French single closing quote mark `\guilsinglright',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{quotedblleft}
  \comment{The English opening quote mark `\,\textquotedblleft\,'.}
\endsetslot

\setslot{quotedblright}
  \comment{The English closing quote mark `\,\textquotedblright\,'.}
\endsetslot

\setslot{quotedblbase}
  \comment{A German double quote mark `\quotedblbase' similar to two commas,
      but with tighter letterspacing and different sidebearings.}
\endsetslot

\setslot{guillemotleft}
  \comment{A French double opening quote mark `\guillemotleft',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{guillemotright}
  \comment{A French closing opening quote mark `\guillemotright',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{endash}
   \ligature{LIG}{hyphen}{emdash}
   \comment{The number range dash `1--9'.
     This is called `rangedash' by fontinst's t1.etx, but it needs to be
     called `endash' to work right.
     The `\textendash'.  In a monowidth font, this might be set as
      `\texttt{1{-}9}'.}
\endsetslot

\setslot{emdash}
   \comment{The punctuation dash `Oh---boy.'
     This is calle `punctdash' by fontinst's t1.etx, but needs to be
     called `emdash' to work right.
     The `\textemdash'.
     In a monowidth font, this might be set as `\texttt{Oh{-}{-}boy.}'}
\endsetslot

\setslot{compwordmark}
   \comment{An invisible glyph, with zero width and depth, but the
      height of lowercase letters without ascenders.
      It is used to stop ligaturing in words like `shelf{}ful'.}
\endsetslot

\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
```

```
\setslot{hyphen}
   \ligature{LIG}{hyphen}{endash}
   \ligature{LIG}{hyphenchar}{hyphenchar}
   \comment{The hyphen ‘-’.}
\endsetslot

\setslot{period}
   \comment{The period ‘.’.}
\endsetslot

\setslot{slash}
   \comment{The forward oblique ‘/’.}
\endsetslot

\setslot{\digit{zero}}
   \comment{The number ‘0’.  This (and all the other numerals) may be
      old style or ranging digits.}
\endsetslot

\setslot{\digit{one}}
   \comment{The number ‘1’.}
\endsetslot

\setslot{\digit{two}}
   \comment{The number ‘2’.}
\endsetslot

\setslot{\digit{three}}
   \comment{The number ‘3’.}
\endsetslot

\setslot{\digit{four}}
   \comment{The number ‘4’.}
\endsetslot

\setslot{\digit{five}}
   \comment{The number ‘5’.}
\endsetslot

\setslot{\digit{six}}
   \comment{The number ‘6’.}
\endsetslot

\setslot{\digit{seven}}
   \comment{The number ‘7’.}
\endsetslot

\setslot{\digit{eight}}
   \comment{The number ‘8’.}
\endsetslot

\setslot{\digit{nine}}
   \comment{The number ‘9’.}
\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}’.}
```

```
\endsetslot

\setslot{\uc{G}{g}}
   \comment{The letter ‘{G}’.}
\endsetslot

\setslot{\uc{H}{h}}
   \comment{The letter ‘{H}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

\setslot{\uc{I}{i}}
   \comment{The letter ‘{I}’.}
\endsetslot

\Fi

\setslot{\uc{J}{j}}
   \comment{The letter ‘{J}’.}
\endsetslot

\setslot{\uc{K}{k}}
   \comment{The letter ‘{K}’.}
\endsetslot

\setslot{\uc{L}{l}}
   \comment{The letter ‘{L}’.}
\endsetslot

\setslot{\uc{M}{m}}
   \comment{The letter ‘{M}’.}
\endsetslot

\setslot{\uc{N}{n}}
   \comment{The letter ‘{N}’.}
\endsetslot

\setslot{\uc{O}{o}}
   \comment{The letter ‘{O}’.}
\endsetslot

\setslot{\uc{P}{p}}
   \comment{The letter ‘{P}’.}
\endsetslot

\setslot{\uc{Q}{q}}
   \comment{The letter ‘{Q}’.}
\endsetslot

\setslot{\uc{R}{r}}
   \comment{The letter ‘{R}’.}
\endsetslot

```

```
\setslot{\uc{S}{s}}
   \comment{The letter ‘{S}’.}
\endsetslot

\setslot{\uc{T}{t}}
   \comment{The letter ‘{T}’.}
\endsetslot

\setslot{\uc{U}{u}}
   \comment{The letter ‘{U}’.}
\endsetslot

\setslot{\uc{V}{v}}
   \comment{The letter ‘{V}’.}
\endsetslot

\setslot{\uc{W}{w}}
   \comment{The letter ‘{W}’.}
\endsetslot

\setslot{\uc{X}{x}}
   \comment{The letter ‘{X}’.}
\endsetslot

\setslot{\uc{Y}{y}}
   \comment{The letter ‘{Y}’.}
\endsetslot

\setslot{\uc{Z}{z}}
   \comment{The letter ‘{Z}’.}
\endsetslot

\setslot{bracketleft}
   \comment{The opening square bracket ‘[’.}
\endsetslot

\setslot{backslash}
   \comment{The backwards oblique ‘\textbackslash’.}
\endsetslot

\setslot{bracketright}
   \comment{The closing square bracket ‘]’.}
\endsetslot

\setslot{asciicircum}
   \comment{The ASCII upward-pointing arrow head ‘\textasciicircum’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{underscore}
   \comment{The ASCII underline character ‘\textunderscore’, usually
      set on the baseline.
      This is included for compatibility with typewriter fonts used
```

```
      for computer listings.}
\endsetslot

\setslot{quoteleft}
   \ligature{LIG}{quoteleft}{quotedblleft}
   \comment{The English opening single quote mark ‘\,\textquoteleft\,’.}
\endsetslot

\setslot{\lc{A}{a}}
   \comment{The letter ‘{a}’.}
\endsetslot

\setslot{\lc{B}{b}}
   \comment{The letter ‘{b}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{C}{c}}
      \comment{The letter ‘{c}’.}
   \endsetslot

\Fi

\setslot{\lc{D}{d}}
   \comment{The letter ‘{d}’.}
\endsetslot

\setslot{\lc{E}{e}}
   \comment{The letter ‘{e}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{F}{f}}
      \ifnumber{\int{ligaturing}}>{0}\then
         \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
         \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{f_f}}
         \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
      \Fi
      \comment{The letter ‘{f}’.}
   \endsetslot

\Fi

\setslot{\lc{G}{g}}
   \comment{The letter ‘{g}’.}
\endsetslot

\setslot{\lc{H}{h}}
   \comment{The letter ‘{h}’.}
\endsetslot

\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
```

```
\setslot{\uc{Aogonek}{aogonek}}
   \comment{The letter `\k A'.}
\endsetslot

\setslot{\uctop{Cacute}{cacute}}
   \comment{The letter `\' C'.}
\endsetslot

\setslot{\uctop{Ccaron}{ccaron}}
   \comment{The letter `\v C'.}
\endsetslot

\setslot{\uctop{Dcaron}{dcaron}}
   \comment{The letter `\v D'.}
\endsetslot

\setslot{\uctop{Ecaron}{ecaron}}
   \comment{The letter `\v E'.}
\endsetslot

\setslot{\uc{Eogonek}{eogonek}}
   \comment{The letter `\k E'.}
\endsetslot

\setslot{\uctop{Gbreve}{gbreve}}
   \comment{The letter `\u G'.}
\endsetslot

\setslot{\uctop{Lacute}{lacute}}
   \comment{The letter `\' L'.}
\endsetslot

\setslot{\uc{Lcaron}{lcaron}}
   \comment{The letter `\v L'.}
\endsetslot

\setslot{\uc{Lslash}{lslash}}
   \comment{The letter `\L'.}
\endsetslot

\setslot{\uctop{Nacute}{nacute}}
   \comment{The letter `\' N'.}
\endsetslot

\setslot{\uctop{Ncaron}{ncaron}}
   \comment{The letter `\v N'.}
\endsetslot

\setslot{\uc{Eng}{eng}}
   \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.}
\endsetslot

```

```
\setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter `\H O'.}
\endsetslot

\setslot{\uctop{Racute}{racute}}
   \comment{The letter `\' R'.}
\endsetslot

\setslot{\uctop{Rcaron}{rcaron}}
   \comment{The letter `\v R'.}
\endsetslot

\setslot{\uctop{Sacute}{sacute}}
   \comment{The letter `\' S'.}
\endsetslot

\setslot{\uctop{Scaron}{scaron}}
   \comment{The letter `\v S'.}
\endsetslot

\setslot{\uc{Scedilla}{scedilla}}
   \comment{The letter `\c S'.}
\endsetslot

\setslot{\uctop{Tcaron}{tcaron}}
   \comment{The letter `\v T'.}
\endsetslot

\setslot{\uc{Tcedilla}{tcedilla}}
   \comment{The letter `\c T'.}
\endsetslot

\setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H U'.}
\endsetslot

\setslot{\uctop{Uring}{uring}}
   \comment{The letter `\r U'.}
\endsetslot

\setslot{\uctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" Y'.}
\endsetslot

\setslot{\uctop{Zacute}{zacute}}
   \comment{The letter `\' Z'.}
\endsetslot

\setslot{\uctop{Zcaron}{zcaron}}
   \comment{The letter `\v Z'.}
\endsetslot

\setslot{\uctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. Z'.}
```

```
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\uclig{IJ}{ij}}
      \comment{The letter ‘IJ’.  This is a single letter, and in a
        monowidth font should ideally be one letter wide.}
   \endsetslot

\Fi

\setslot{\uctop{Idotaccent}{idotaccent}}
   \comment{The letter ‘\. I’.}
\endsetslot

\setslot{\lc{Dbar}{dbar}}
   \comment{The letter ‘\dj’.}
\endsetslot

\setslot{section}
   \comment{The section mark ‘\textsection’.}
\endsetslot

\setslot{\lctop{Abreve}{abreve}}
   \comment{The letter ‘\u a’.}
\endsetslot

\setslot{\lc{Aogonek}{aogonek}}
   \comment{The letter ‘\k a’.}
\endsetslot

\setslot{\lctop{Cacute}{cacute}}
   \comment{The letter ‘\’ c’.}
\endsetslot

\setslot{\lctop{Ccaron}{ccaron}}
   \comment{The letter ‘\v c’.}
\endsetslot

\setslot{\lctop{Dcaron}{dcaron}}
   \comment{The letter ‘\v d’.}
\endsetslot

\setslot{\lctop{Ecaron}{ecaron}}
   \comment{The letter ‘\v e’.}
\endsetslot

\setslot{\lc{Eogonek}{eogonek}}
   \comment{The letter ‘\k e’.}
\endsetslot

\setslot{\lctop{Gbreve}{gbreve}}
   \comment{The letter ‘\u g’.}
\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
    to be called `Eng'/`eng' rather than `Ng'/`ng' as it is in t1.etx in most cases,
    it seems.}
2623 \endsetslot
2624
2625 \setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
2626    \comment{The letter `\H o'.}
2627 \endsetslot
2628
2629 \setslot{\lctop{Racute}{racute}}
2630    \comment{The letter `\' r'.}
2631 \endsetslot
2632
2633 \setslot{\lctop{Rcaron}{rcaron}}
2634    \comment{The letter `\v r'.}
2635 \endsetslot
2636
2637 \setslot{\lctop{Sacute}{sacute}}
2638    \comment{The letter `\' s'.}
2639 \endsetslot
2640
2641 \setslot{\lctop{Scaron}{scaron}}
2642    \comment{The letter `\v s'.}
2643 \endsetslot
2644
2645 \setslot{\lc{Scedilla}{scedilla}}
2646    \comment{The letter `\c s'.}
2647 \endsetslot
2648
2649 \setslot{\lctop{Tcaron}{tcaron}}
2650    \comment{The letter `\v t'.}
2651 \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
```

```
\setslot{\uctop{Aacute}{aacute}}
   \comment{The letter `\' A'.}
\endsetslot

\setslot{\uctop{Acircumflex}{acircumflex}}
   \comment{The letter `\^ A'.}
\endsetslot

\setslot{\uctop{Atilde}{atilde}}
   \comment{The letter `\~ A'.}
\endsetslot

\setslot{\uctop{Adieresis}{adieresis}}
   \comment{The letter `\" A'.}
\endsetslot

\setslot{\uctop{Aring}{aring}}
   \comment{The letter `\r A'.}
\endsetslot

\setslot{\uc{AE}{ae}}
   \comment{The letter `\AE'.  This is a single letter, and should not be
      faked with `AE'.}
\endsetslot

\setslot{\uc{Ccedilla}{ccedilla}}
   \comment{The letter `\c C'.}
\endsetslot

\setslot{\uctop{Egrave}{egrave}}
   \comment{The letter `\` E'.}
\endsetslot

\setslot{\uctop{Eacute}{eacute}}
   \comment{The letter `\' E'.}
\endsetslot

\setslot{\uctop{Ecircumflex}{ecircumflex}}
   \comment{The letter `\^ E'.}
\endsetslot

\setslot{\uctop{Edieresis}{edieresis}}
   \comment{The letter `\" E'.}
\endsetslot

\setslot{\uctop{Igrave}{igrave}}
   \comment{The letter `\` I'.}
\endsetslot

\setslot{\uctop{Iacute}{iacute}}
   \comment{The letter `\' I'.}
\endsetslot

\setslot{\uctop{Icircumflex}{icircumflex}}
```

```
2760    \comment{The letter `\^ I'.}
2761 \endsetslot
2762
2763 \setslot{\uctop{Idieresis}{idieresis}}
2764    \comment{The letter `\" 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 `\~ N'.}
2775 \endsetslot
2776
2777 \setslot{\uctop{Ograve}{ograve}}
2778    \comment{The letter `\` O'.}
2779 \endsetslot
2780
2781 \setslot{\uctop{Oacute}{oacute}}
2782    \comment{The letter `\' O'.}
2783 \endsetslot
2784
2785 \setslot{\uctop{Ocircumflex}{ocircumflex}}
2786    \comment{The letter `\^ O'.}
2787 \endsetslot
2788
2789 \setslot{\uctop{Otilde}{otilde}}
2790    \comment{The letter `\~ O'.}
2791 \endsetslot
2792
2793 \setslot{\uctop{Odieresis}{odieresis}}
2794    \comment{The letter `\" 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 `\O'.}
2804 \endsetslot
2805
2806 \setslot{\uctop{Ugrave}{ugrave}}
2807    \comment{The letter `\` U'.}
2808 \endsetslot
2809
2810 \setslot{\uctop{Uacute}{uacute}}
2811    \comment{The letter `\' U'.}
2812 \endsetslot
2813
```

```
\setslot{\uctop{Ucircumflex}{ucircumflex}}
   \comment{The letter `\^ U'.}
\endsetslot

\setslot{\uctop{Udieresis}{udieresis}}
   \comment{The letter `\" U'.}
\endsetslot

\setslot{\uctop{Yacute}{yacute}}
   \comment{The letter `\' Y'.}
\endsetslot

\setslot{\uc{Thorn}{thorn}}
   \comment{The Icelandic capital letter Thorn, similar to a `P'
      with the bowl moved down.  It is unavailable in \plain\ \TeX.}
\endsetslot

\setslot{\uclig{SS}{germandbls}}
   \comment{The ligature `SS', used to give an upper case `\ss'.
      In a monowidth font it should be two letters wide.}
\endsetslot

\setslot{\lctop{Agrave}{agrave}}
   \comment{The letter `\` a'.}
\endsetslot

\setslot{\lctop{Aacute}{aacute}}
   \comment{The letter `\' a'.}
\endsetslot

\setslot{\lctop{Acircumflex}{acircumflex}}
   \comment{The letter `\^ a'.}
\endsetslot

\setslot{\lctop{Atilde}{atilde}}
   \comment{The letter `\~ a'.}
\endsetslot

\setslot{\lctop{Adieresis}{adieresis}}
   \comment{The letter `\" a'.}
\endsetslot

\setslot{\lctop{Aring}{aring}}
   \comment{The letter `\r a'.}
\endsetslot

\setslot{\lc{AE}{ae}}
   \comment{The letter `\ae'.  This is a single letter, and should not be
      faked with `ae'.}
\endsetslot

\setslot{\lc{Ccedilla}{ccedilla}}
   \comment{The letter `\c c'.}
\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*)

```
%%
%% - The original notices at the top of that file concerning authors,
%% maintenance etc. are replaced by this notice.
%% - The file is renamed.
%% - The encoding name is modified.
%% - The file is modified to accommodate differences in glyph names.
%% - The file is modified for use in encoding inferiors.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax
\encoding

\needsfontinstversion{1.910}

\setcommand\lc#1#2{#2.inferior}
\setcommand\uc#1#2{#1.inferior}
\setcommand\lctop#1#2{#2.inferior}
\setcommand\uctop#1#2{#1.inferior}
\setcommand\lclig#1#2{#2.inferior}
\ifisint{letterspacing}\then
   \ifnumber{\int{letterspacing}}={0}\then \Else
      \setcommand\uclig#1#2{#1spaced}
      \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
      you can't see it as \verb|\setcommand| commands are invisible in
      the typeset output.}
   \Fi
\Fi
\setcommand\uclig#1#2{#1.inferior}
\setcommand\digit#1{#1.inferior}

\ifisint{monowidth}\then
   \setint{ligaturing}{0}
\Else
   % The following empty line is *important* to get the formatting
   % right here (sigh)! (Remember that it is a \par token.)

   \ifisint{letterspacing}\then
      \ifnumber{\int{letterspacing}}={0}\then \Else
         \setint{ligaturing}{0}
      \Fi
   \Fi
 \setint{ligaturing}{1}
\Fi

\setint{italicslant}{0}
\setint{quad}{1000}
\setint{baselineskip}{1200}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
```

```
\Else
   \setint{xheight}{500}
\Fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\Else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\Else
   \setint{interword}{333}
\Fi\Fi

\ifisint{monowidth}\then
   \setint{stretchword}{0}
   \setint{shrinkword}{0}
   \setint{extraspace}{\int{interword}}
\Else
   \setint{stretchword}{\scale{\int{interword}}{600}}
   \setint{shrinkword}{\scale{\int{interword}}{240}}
   \setint{extraspace}{\scale{\int{interword}}{240}}
\Fi

\ifisglyph{X}\then
   \setint{capheight}{\height{X}}
\Else
   \setint{capheight}{750}
\Fi

\ifisglyph{d}\then
   \setint{ascender}{\height{d}}
\Else\ifisint{capheight}\then
   \setint{ascender}{\int{capheight}}
\Else
   \setint{ascender}{750}
\Fi\Fi

\ifisglyph{Aring}\then
   \setint{acccapheight}{\height{Aring}}
\Else
   \setint{acccapheight}{999}
\Fi

\ifisint{descender_neg}\then
   \setint{descender}{\neg{\int{descender_neg}}}
\Else\ifisglyph{p}\then
   \setint{descender}{\depth{p}}
\Else
   \setint{descender}{250}
\Fi\Fi

\ifisglyph{Aring}\then
   \setint{maxheight}{\height{Aring}}
\Else
   \setint{maxheight}{1000}
```

```
\Fi

\ifisint{maxdepth_neg}\then
   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
\Else\ifisglyph{j}\then
   \setint{maxdepth}{\depth{j}}
\Else
   \setint{maxdepth}{250}
\Fi\Fi

\ifisglyph{six}\then
   \setint{digitwidth}{\width{six}}
\Else
   \setint{digitwidth}{500}
\Fi

\setint{capstem}{0} % not in AFM files

\setfontdimen{1}{italicslant}    % italic slant
\setfontdimen{2}{interword}      % interword space
\setfontdimen{3}{stretchword}    % interword stretch
\setfontdimen{4}{shrinkword}     % interword shrink
\setfontdimen{5}{xheight}        % x-height
\setfontdimen{6}{quad}           % quad
\setfontdimen{7}{extraspace}     % extra space after .
\setfontdimen{8}{capheight}      % cap height
\setfontdimen{9}{ascender}       % ascender
\setfontdimen{10}{acccapheight}  % accented cap height
\setfontdimen{11}{descender}     % descender's depth
\setfontdimen{12}{maxheight}     % max height
\setfontdimen{13}{maxdepth}      % max depth
\setfontdimen{14}{digitwidth}    % digit width
\setfontdimen{15}{verticalstem}  % dominant width of verical stems
\setfontdimen{16}{baselineskip}  % baselineskip

\ifnumber{\int{ligaturing}}<{0}\then
   \comment{In this case, the codingscheme can be different from the
     default, and therefore we refrain from setting it.}
\Else
   \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - DOTINF}
\Fi

\setslot{\lc{Grave}{grave}}
   \comment{The grave accent `\`{}'.}
\endsetslot

\setslot{\lc{Acute}{acute}}
   \comment{The acute accent `\'{}'.}
\endsetslot

\setslot{\lc{Circumflex}{circumflex}}
   \comment{The circumflex accent `\^{}'.}
\endsetslot

```

```
\setslot{\lc{Tilde}{tilde}}
   \comment{The tilde accent `\~{}'.}
\endsetslot

\setslot{\lc{Dieresis}{dieresis}}
   \comment{The umlaut or dieresis accent `\"{}'.}
\endsetslot

\setslot{\lc{Hungarumlaut}{hungarumlaut}}
   \comment{The long Hungarian umlaut `\H{}'.}
\endsetslot

\setslot{\lc{Ring}{ring}}
   \comment{The ring accent `\r{}'.}
\endsetslot

\setslot{\lc{Caron}{caron}}
   \comment{The caron or h\'a\v cek accent `\v{}'.}
\endsetslot

\setslot{\lc{Breve}{breve}}
   \comment{The breve accent `\u{}'.}
\endsetslot

\setslot{\lc{Macron}{macron}}
   \comment{The macron accent `\={}'.}
\endsetslot

\setslot{\lc{Dotaccent}{dotaccent}}
   \comment{The dot accent `\.{}'.}
\endsetslot

\setslot{\lc{Cedilla}{cedilla}}
   \comment{The cedilla accent `\c {}'.}
\endsetslot

\setslot{\lc{Ogonek}{ogonek}}
   \comment{The ogonek accent `\k {}'.}
\endsetslot

\setslot{quotesinglbase.inferior}
  \comment{A German single quote mark `\quotesinglbase' similar to a comma,
      but with different sidebearings.}
\endsetslot

\setslot{guilsinglleft.inferior}
  \comment{A French single opening quote mark `\guilsinglleft',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{guilsinglright.inferior}
  \comment{A French single closing quote mark `\guilsinglright',
      unavailable in \plain\ \TeX.}
\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
```

```
\setslot{\lc{dotlessI}{dotlessi}}
   \comment{A dotless i `\i', used to produce accented letters such as
      `\=\i'.}
\endsetslot

\setslot{\lc{dotlessJ}{dotlessj}}
   \comment{A dotless j `\j', used to produce accented letters such as
      `\=\j'.  Most non-\TeX\ fonts do not have this glyph.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else

\setslot{\lclig{FF}{ff}}
   \ifnumber{\int{ligaturing}}>{0}\then
      \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{ffi}}
      \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{ffl}}
   \Fi
   \comment{The `ff' ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FI}{fi}}
   \comment{The `fi' ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FL}{fl}}
   \comment{The `fl' ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FFI}{ffi}}
   \comment{The `ffi' ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FFL}{ffl}}
   \comment{The `ffl' ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\Fi

\setslot{visiblespace.inferior}
   \comment{A visible space glyph `\textvisiblespace'.}
\endsetslot

\setslot{exclam.inferior}
   \ligature{LIG}{quoteleft.inferior}{exclamdown.inferior}
   \comment{The exclamation mark `!'.}
\endsetslot

\setslot{quotedbl.inferior}
  \comment{The `neutral' double quotation mark `\,\textquotedbl\,',
```

```
      included for use in monowidth fonts, or for setting computer
      programs.  Note that the inclusion of this glyph in this slot
      means that \TeX\ documents which used `{\tt\char`\"}' as an
      input character will no longer work.}
\endsetslot

\setslot{numbersign.inferior}
   \comment{The hash sign `\#'.}
\endsetslot

\setslot{dollar.inferior}
   \comment{The dollar sign `\$'.}
\endsetslot

\setslot{percent.inferior}
   \comment{The percent sign `\%'.}
\endsetslot

\setslot{ampersand.inferior}
   \comment{The ampersand sign `\&'.}
\endsetslot

\setslot{quoteright.inferior}
   \ligature{LIG}{quoteright.inferior}{quotedblright.inferior}
   \comment{The English closing single quote mark `\,\textquoteright\,'.}
\endsetslot

\setslot{parenleft.inferior}
   \comment{The opening parenthesis `('.}
\endsetslot

\setslot{parenright.inferior}
   \comment{The closing parenthesis `)'.}
\endsetslot

\setslot{asterisk.inferior}
   \comment{The raised asterisk `*'.}
\endsetslot

\setslot{plus.inferior}
   \comment{The addition sign `+'.}
\endsetslot

\setslot{comma.inferior}
   \ligature{LIG}{comma.inferior}{quotedblbase.inferior}
   \comment{The comma `,'.}
\endsetslot

\setslot{hyphen.inferior}
   \ligature{LIG}{hyphen.inferior}{endash.inferior}
   \ligature{LIG}{hyphenchar.inferior}{hyphenchar.inferior}
   \comment{The hyphen `-'.}
\endsetslot

```

```
\setslot{period.inferior}
   \comment{The period `.'.}
\endsetslot

\setslot{slash.inferior}
   \comment{The forward oblique `/'.}
\endsetslot

\setslot{\digit{zero}}
   \comment{The number `0'.  This (and all the other numerals) may be
      old style or ranging digits.}
\endsetslot

\setslot{\digit{one}}
   \comment{The number `1'.}
\endsetslot

\setslot{\digit{two}}
   \comment{The number `2'.}
\endsetslot

\setslot{\digit{three}}
   \comment{The number `3'.}
\endsetslot

\setslot{\digit{four}}
   \comment{The number `4'.}
\endsetslot

\setslot{\digit{five}}
   \comment{The number `5'.}
\endsetslot

\setslot{\digit{six}}
   \comment{The number `6'.}
\endsetslot

\setslot{\digit{seven}}
   \comment{The number `7'.}
\endsetslot

\setslot{\digit{eight}}
   \comment{The number `8'.}
\endsetslot

\setslot{\digit{nine}}
   \comment{The number `9'.}
\endsetslot

\setslot{colon.inferior}
   \comment{The colon punctuation mark `:'.}
\endsetslot

\setslot{semicolon.inferior}
```

```
   \comment{The semi-colon punctuation mark ‘;’.}
\endsetslot

\setslot{less.inferior}
   \ligature{LIG}{less.inferior}{guillemotleft.inferior}
   \comment{The less-than sign ‘\textless’.}
\endsetslot

\setslot{equal.inferior}
   \comment{The equals sign ‘=’.}
\endsetslot

\setslot{greater.inferior}
   \ligature{LIG}{greater.inferior}{guillemotright.inferior}
   \comment{The greater-than sign ‘\textgreater’.}
\endsetslot

\setslot{question.inferior}
   \ligature{LIG}{quoteleft.inferior}{questiondown.inferior}
   \comment{The question mark ‘?’.}
\endsetslot

\setslot{at.inferior}
   \comment{The at sign ‘@’.}
\endsetslot

\setslot{\uc{A}{a}}
   \comment{The letter ‘{A}’.}
\endsetslot

\setslot{\uc{B}{b}}
   \comment{The letter ‘{B}’.}
\endsetslot

\setslot{\uc{C}{c}}
   \comment{The letter ‘{C}’.}
\endsetslot

\setslot{\uc{D}{d}}
   \comment{The letter ‘{D}’.}
\endsetslot

\setslot{\uc{E}{e}}
   \comment{The letter ‘{E}’.}
\endsetslot

\setslot{\uc{F}{f}}
   \comment{The letter ‘{F}’.}
\endsetslot

\setslot{\uc{G}{g}}
   \comment{The letter ‘{G}’.}
\endsetslot

```

```
\setslot{\uc{H}{h}}
   \comment{The letter `{H}'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

\setslot{\uc{I}{i}}
   \comment{The letter `{I}'.}
\endsetslot

\Fi

\setslot{\uc{J}{j}}
   \comment{The letter `{J}'.}
\endsetslot

\setslot{\uc{K}{k}}
   \comment{The letter `{K}'.}
\endsetslot

\setslot{\uc{L}{l}}
   \comment{The letter `{L}'.}
\endsetslot

\setslot{\uc{M}{m}}
   \comment{The letter `{M}'.}
\endsetslot

\setslot{\uc{N}{n}}
   \comment{The letter `{N}'.}
\endsetslot

\setslot{\uc{O}{o}}
   \comment{The letter `{O}'.}
\endsetslot

\setslot{\uc{P}{p}}
   \comment{The letter `{P}'.}
\endsetslot

\setslot{\uc{Q}{q}}
   \comment{The letter `{Q}'.}
\endsetslot

\setslot{\uc{R}{r}}
   \comment{The letter `{R}'.}
\endsetslot

\setslot{\uc{S}{s}}
   \comment{The letter `{S}'.}
\endsetslot

\setslot{\uc{T}{t}}
   \comment{The letter `{T}'.}
```

```
\endsetslot

\setslot{\uc{U}{u}}
   \comment{The letter ‘{U}’.}
\endsetslot

\setslot{\uc{V}{v}}
   \comment{The letter ‘{V}’.}
\endsetslot

\setslot{\uc{W}{w}}
   \comment{The letter ‘{W}’.}
\endsetslot

\setslot{\uc{X}{x}}
   \comment{The letter ‘{X}’.}
\endsetslot

\setslot{\uc{Y}{y}}
   \comment{The letter ‘{Y}’.}
\endsetslot

\setslot{\uc{Z}{z}}
   \comment{The letter ‘{Z}’.}
\endsetslot

\setslot{bracketleft.inferior}
   \comment{The opening square bracket ‘[’.}
\endsetslot

\setslot{backslash.inferior}
   \comment{The backwards oblique ‘\textbackslash’.}
\endsetslot

\setslot{bracketright.inferior}
   \comment{The closing square bracket ‘]’.}
\endsetslot

\setslot{asciicircum.inferior}
   \comment{The ASCII upward-pointing arrow head ‘\textasciicircum’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{underscore.inferior}
   \comment{The ASCII underline character ‘\textunderscore’, usually
      set on the baseline.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{quoteleft.inferior}
   \ligature{LIG}{quoteleft.inferior}{quotedblleft.inferior}
   \comment{The English opening single quote mark ‘\,\textquoteleft\,’.}
```

```
\endsetslot

\setslot{\lc{A}{a}}
   \comment{The letter ‘{a}’.}
\endsetslot

\setslot{\lc{B}{b}}
   \comment{The letter ‘{b}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{C}{c}}
      \comment{The letter ‘{c}’.}
   \endsetslot

\Fi

\setslot{\lc{D}{d}}
   \comment{The letter ‘{d}’.}
\endsetslot

\setslot{\lc{E}{e}}
   \comment{The letter ‘{e}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{F}{f}}
      \ifnumber{\int{ligaturing}}>{0}\then
         \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
         \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
         \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
      \Fi
      \comment{The letter ‘{f}’.}
   \endsetslot

\Fi

\setslot{\lc{G}{g}}
   \comment{The letter ‘{g}’.}
\endsetslot

\setslot{\lc{H}{h}}
   \comment{The letter ‘{h}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{I}{i}}
      \comment{The letter ‘{i}’.}
   \endsetslot

\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’.}
```

```
\endsetslot

\setslot{\uctop{Ccaron}{ccaron}}
   \comment{The letter ‘\v C’.}
\endsetslot

\setslot{\uctop{Dcaron}{dcaron}}
   \comment{The letter ‘\v D’.}
\endsetslot

\setslot{\uctop{Ecaron}{ecaron}}
   \comment{The letter ‘\v E’.}
\endsetslot

\setslot{\uc{Eogonek}{eogonek}}
   \comment{The letter ‘\k E’.}
\endsetslot

\setslot{\uctop{Gbreve}{gbreve}}
   \comment{The letter ‘\u G’.}
\endsetslot

\setslot{\uctop{Lacute}{lacute}}
   \comment{The letter ‘\’ L’.}
\endsetslot

\setslot{\uc{Lcaron}{lcaron}}
   \comment{The letter ‘\v L’.}
\endsetslot

\setslot{\uc{Lslash}{lslash}}
   \comment{The letter ‘\L’.}
\endsetslot

\setslot{\uctop{Nacute}{nacute}}
   \comment{The letter ‘\’ N’.}
\endsetslot

\setslot{\uctop{Ncaron}{ncaron}}
   \comment{The letter ‘\v N’.}
\endsetslot

\setslot{\uc{Eng}{eng}}
   \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.}
\endsetslot

\setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter ‘\H O’.}
\endsetslot

\setslot{\uctop{Racute}{racute}}
   \comment{The letter ‘\’ R’.}
```

```
\endsetslot

\setslot{\uctop{Rcaron}{rcaron}}
   \comment{The letter `\v R'.}
\endsetslot

\setslot{\uctop{Sacute}{sacute}}
   \comment{The letter `\' S'.}
\endsetslot

\setslot{\uctop{Scaron}{scaron}}
   \comment{The letter `\v S'.}
\endsetslot

\setslot{\uc{Scedilla}{scedilla}}
   \comment{The letter `\c S'.}
\endsetslot

\setslot{\uctop{Tcaron}{tcaron}}
   \comment{The letter `\v T'.}
\endsetslot

\setslot{\uc{Tcedilla}{tcedilla}}
   \comment{The letter `\c T'.}
\endsetslot

\setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H U'.}
\endsetslot

\setslot{\uctop{Uring}{uring}}
   \comment{The letter `\r U'.}
\endsetslot

\setslot{\uctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" Y'.}
\endsetslot

\setslot{\uctop{Zacute}{zacute}}
   \comment{The letter `\' Z'.}
\endsetslot

\setslot{\uctop{Zcaron}{zcaron}}
   \comment{The letter `\v Z'.}
\endsetslot

\setslot{\uctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. Z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\uclig{IJ}{ij}}
      \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’.}
```

```
\endsetslot

\setslot{\uctop{Atilde}{atilde}}
   \comment{The letter `\~ A'.}
\endsetslot

\setslot{\uctop{Adieresis}{adieresis}}
   \comment{The letter `\" A'.}
\endsetslot

\setslot{\uctop{Aring}{aring}}
   \comment{The letter `\r A'.}
\endsetslot

\setslot{\uc{AE}{ae}}
   \comment{The letter `\AE'.  This is a single letter, and should not be
      faked with `AE'.}
\endsetslot

\setslot{\uc{Ccedilla}{ccedilla}}
   \comment{The letter `\c C'.}
\endsetslot

\setslot{\uctop{Egrave}{egrave}}
   \comment{The letter `\` E'.}
\endsetslot

\setslot{\uctop{Eacute}{eacute}}
   \comment{The letter `\' E'.}
\endsetslot

\setslot{\uctop{Ecircumflex}{ecircumflex}}
   \comment{The letter `\^ E'.}
\endsetslot

\setslot{\uctop{Edieresis}{edieresis}}
   \comment{The letter `\" E'.}
\endsetslot

\setslot{\uctop{Igrave}{igrave}}
   \comment{The letter `\` I'.}
\endsetslot

\setslot{\uctop{Iacute}{iacute}}
   \comment{The letter `\' I'.}
\endsetslot

\setslot{\uctop{Icircumflex}{icircumflex}}
   \comment{The letter `\^ I'.}
\endsetslot

\setslot{\uctop{Idieresis}{idieresis}}
   \comment{The letter `\" I'.}
\endsetslot
```

```
\setslot{\uc{Eth}{eth}}
   \comment{The uppercase Icelandic letter ‘Eth’ similar to a ‘D’
      with a horizontal bar through the stem.  It is unavailable
      in \plain\ \TeX.}
\endsetslot

\setslot{\uctop{Ntilde}{ntilde}}
   \comment{The letter ‘\~ N’.}
\endsetslot

\setslot{\uctop{Ograve}{ograve}}
   \comment{The letter ‘\‘ O’.}
\endsetslot

\setslot{\uctop{Oacute}{oacute}}
   \comment{The letter ‘\’ O’.}
\endsetslot

\setslot{\uctop{Ocircumflex}{ocircumflex}}
   \comment{The letter ‘\^ O’.}
\endsetslot

\setslot{\uctop{Otilde}{otilde}}
   \comment{The letter ‘\~ O’.}
\endsetslot

\setslot{\uctop{Odieresis}{odieresis}}
   \comment{The letter ‘\" O’.}
\endsetslot

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

\setslot{\uc{Oslash}{oslash}}
   \comment{The letter ‘\O’.}
\endsetslot

\setslot{\uctop{Ugrave}{ugrave}}
   \comment{The letter ‘\‘ U’.}
\endsetslot

\setslot{\uctop{Uacute}{uacute}}
   \comment{The letter ‘\’ U’.}
\endsetslot

\setslot{\uctop{Ucircumflex}{ucircumflex}}
   \comment{The letter ‘\^ U’.}
\endsetslot

\setslot{\uctop{Udieresis}{udieresis}}
   \comment{The letter ‘\" U’.}
```

```
\endsetslot

\setslot{\uctop{Yacute}{yacute}}
   \comment{The letter `\' Y'.}
\endsetslot

\setslot{\uc{Thorn}{thorn}}
   \comment{The Icelandic capital letter Thorn, similar to a `P'
      with the bowl moved down.  It is unavailable in \plain\ \TeX.}
\endsetslot

\setslot{\uclig{SS}{germandbls}}
   \comment{The ligature `SS', used to give an upper case `\ss'.
      In a monowidth font it should be two letters wide.}
\endsetslot

\setslot{\lctop{Agrave}{agrave}}
   \comment{The letter `\` a'.}
\endsetslot

\setslot{\lctop{Aacute}{aacute}}
   \comment{The letter `\' a'.}
\endsetslot

\setslot{\lctop{Acircumflex}{acircumflex}}
   \comment{The letter `\^ a'.}
\endsetslot

\setslot{\lctop{Atilde}{atilde}}
   \comment{The letter `\~ a'.}
\endsetslot

\setslot{\lctop{Adieresis}{adieresis}}
   \comment{The letter `\" a'.}
\endsetslot

\setslot{\lctop{Aring}{aring}}
   \comment{The letter `\r a'.}
\endsetslot

\setslot{\lc{AE}{ae}}
   \comment{The letter `\ae'.  This is a single letter, and should not be
      faked with `ae'.}
\endsetslot

\setslot{\lc{Ccedilla}{ccedilla}}
   \comment{The letter `\c c'.}
\endsetslot

\setslot{\lctop{Egrave}{egrave}}
   \comment{The letter `\` e'.}
\endsetslot

\setslot{\lctop{Eacute}{eacute}}
```

```
   \comment{The letter `\' e'.}
\endsetslot

\setslot{\lctop{Ecircumflex}{ecircumflex}}
   \comment{The letter `\^ e'.}
\endsetslot

\setslot{\lctop{Edieresis}{edieresis}}
   \comment{The letter `\" e'.}
\endsetslot

\setslot{\lctop{Igrave}{igrave}}
   \comment{The letter `\`\i'.}
\endsetslot

\setslot{\lctop{Iacute}{iacute}}
   \comment{The letter `\'\i'.}
\endsetslot

\setslot{\lctop{Icircumflex}{icircumflex}}
   \comment{The letter `\^\i'.}
\endsetslot

\setslot{\lctop{Idieresis}{idieresis}}
   \comment{The letter `\"\i'.}
\endsetslot

\setslot{\lc{Eth}{eth}}
   \comment{The Icelandic lowercase letter `eth' similar to
     a `$\partial$' with an oblique bar through the stem.
     It is unavailable in \plain\ \TeX.}
\endsetslot

\setslot{\lctop{Ntilde}{ntilde}}
   \comment{The letter `\~ n'.}
\endsetslot

\setslot{\lctop{Ograve}{ograve}}
   \comment{The letter `\` o'.}
\endsetslot

\setslot{\lctop{Oacute}{oacute}}
   \comment{The letter `\' o'.}
\endsetslot

\setslot{\lctop{Ocircumflex}{ocircumflex}}
   \comment{The letter `\^ o'.}
\endsetslot

\setslot{\lctop{Otilde}{otilde}}
   \comment{The letter `\~ o'.}
\endsetslot

\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 `\" 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.
```

```
%% - The file is modified to accommodate differences in glyph names.
%% - The file is modified for use in encoding inferiors.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax
\encoding

\needsfontinstversion{1.910}

\setcommand\lc#1#2{#2.inferior}
\setcommand\uc#1#2{#1.inferior}
\setcommand\lctop#1#2{#2.inferior}
\setcommand\uctop#1#2{#1.inferior}
\setcommand\lclig#1#2{#2.inferior}
\ifisint{letterspacing}\then
   \ifnumber{\int{letterspacing}}={0}\then \Else
      \setcommand\uclig#1#2{#1spaced}
      \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
      you can't see it as \verb|\setcommand| commands are invisible in
      the typeset output.}
   \Fi
\Fi
\setcommand\uclig#1#2{#1.inferior}
\setcommand\digit#1{#1.inferior}

\ifisint{monowidth}\then
   \setint{ligaturing}{0}
\Else
   % The following empty line is *important* to get the formatting
   % right here (sigh)! (Remember that it is a \par token.)

   \ifisint{letterspacing}\then
      \ifnumber{\int{letterspacing}}={0}\then \Else
         \setint{ligaturing}{0}
      \Fi
   \Fi
 \setint{ligaturing}{1}
\Fi

\setint{italicslant}{0}
\setint{quad}{1000}
\setint{baselineskip}{1200}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
\Else
   \setint{xheight}{500}
\Fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\Else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\Else
```

```
   \setint{interword}{333}
\Fi\Fi

\ifisint{monowidth}\then
   \setint{stretchword}{0}
   \setint{shrinkword}{0}
   \setint{extraspace}{\int{interword}}
\Else
   \setint{stretchword}{\scale{\int{interword}}{600}}
   \setint{shrinkword}{\scale{\int{interword}}{240}}
   \setint{extraspace}{\scale{\int{interword}}{240}}
\Fi

\ifisglyph{X}\then
   \setint{capheight}{\height{X}}
\Else
   \setint{capheight}{750}
\Fi

\ifisglyph{d}\then
   \setint{ascender}{\height{d}}
\Else\ifisint{capheight}\then
   \setint{ascender}{\int{capheight}}
\Else
   \setint{ascender}{750}
\Fi\Fi

\ifisglyph{Aring}\then
   \setint{acccapheight}{\height{Aring}}
\Else
   \setint{acccapheight}{999}
\Fi

\ifisint{descender_neg}\then
   \setint{descender}{\neg{\int{descender_neg}}}
\Else\ifisglyph{p}\then
   \setint{descender}{\depth{p}}
\Else
   \setint{descender}{250}
\Fi\Fi

\ifisglyph{Aring}\then
   \setint{maxheight}{\height{Aring}}
\Else
   \setint{maxheight}{1000}
\Fi

\ifisint{maxdepth_neg}\then
   \setint{maxdepth}{\neg{\int{maxdepth_neg}}}
\Else\ifisglyph{j}\then
   \setint{maxdepth}{\depth{j}}
\Else
   \setint{maxdepth}{250}
\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}{acccapheight}  % 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
```

```
\setslot{quotedblbase.inferior}
  \comment{A German double quote mark `\quotedblbase' similar to two commas,
      but with tighter letterspacing and different sidebearings.}
\endsetslot

\setslot{guillemotleft.inferior}
  \comment{A French double opening quote mark `\guillemotleft',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{guillemotright.inferior}
  \comment{A French closing opening quote mark `\guillemotright',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{endash.inferior}
   \ligature{LIG}{hyphen.inferior}{emdash.inferior}
   \comment{The number range dash `1--9'.
     This is called `rangedash' by fontinst's t1.etx, but it needs to be
     called `endash' to work right.
     The `\textendash'.
     In a monowidth font, this might be set as `\texttt{1{-}9}'.}
\endsetslot

\setslot{emdash.inferior}
   \comment{The punctuation dash `Oh---boy.'
     This is calle `punctdash' by fontinst's t1.etx, but needs to be
     called `emdash' to work right.
     The `\textemdash'.
     In a monowidth font, this might be set as `\texttt{Oh{-}{-}boy.}'}
\endsetslot

\setslot{compwordmark.inferior}
   \comment{An invisible glyph, with zero width and depth, but the
      height of lowercase letters without ascenders.
      It is used to stop ligaturing in words like `shelf{}ful'.}
\endsetslot

\setslot{perthousandzero.inferior}
   \comment{A glyph which is placed after `\%' to produce a
      `per-thousand', or twice to produce `per-ten-thousand'.
      Your guess is as good as mine as to what this glyph should look
      like in a monowidth font.}
\endsetslot

\setslot{\lc{dotlessI}{dotlessi}}
   \comment{A dotless i `\i', used to produce accented letters such as
      `\=\i'.}
\endsetslot

\setslot{\lc{dotlessJ}{dotlessj}}
   \comment{A dotless j `\j', used to produce accented letters such as
      `\=\j'.  Most non-\TeX\ fonts do not have this glyph.}
\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
```

```
\setslot{\lc{L}{l}}
   \comment{The letter ‘{l}’.}
\endsetslot

\setslot{\lc{M}{m}}
   \comment{The letter ‘{m}’.}
\endsetslot

\setslot{\lc{N}{n}}
   \comment{The letter ‘{n}’.}
\endsetslot

\setslot{\lc{O}{o}}
   \comment{The letter ‘{o}’.}
\endsetslot

\setslot{\lc{P}{p}}
   \comment{The letter ‘{p}’.}
\endsetslot

\setslot{\lc{Q}{q}}
   \comment{The letter ‘{q}’.}
\endsetslot

\setslot{\lc{R}{r}}
   \comment{The letter ‘{r}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{S}{s}}
      \comment{The letter ‘{s}’.}
   \endsetslot

\Fi

\setslot{\lc{T}{t}}
   \comment{The letter ‘{t}’.}
\endsetslot

\setslot{\lc{U}{u}}
   \comment{The letter ‘{u}’.}
\endsetslot

\setslot{\lc{V}{v}}
   \comment{The letter ‘{v}’.}
\endsetslot

\setslot{\lc{W}{w}}
   \comment{The letter ‘{w}’.}
\endsetslot

\setslot{\lc{X}{x}}
   \comment{The letter ‘{x}’.}
```

```
\endsetslot

\setslot{\lc{Y}{y}}
   \comment{The letter ‘{y}’.}
\endsetslot

\setslot{\lc{Z}{z}}
   \comment{The letter ‘{z}’.}
\endsetslot

\setslot{braceleft.inferior}
   \comment{The opening curly brace ‘\textbraceleft’.}
\endsetslot

\setslot{bar.inferior}
   \comment{The ASCII vertical bar ‘\textbar’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{braceright.inferior}
   \comment{The closing curly brace ‘\textbraceright’.}
\endsetslot

\setslot{asciitilde.inferior}
   \comment{The ASCII tilde ‘\textasciitilde’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{hyphenchar.inferior}
   \comment{The glyph used for hyphenation in this font, which will
      almost always be the same as ‘hyphen’.}
\endsetslot

\setslot{\uctop{Abreve}{abreve}}
   \comment{The letter ‘\u A’.}
\endsetslot

\setslot{\uc{Aogonek}{aogonek}}
   \comment{The letter ‘\k A’.}
\endsetslot

\setslot{\uctop{Cacute}{cacute}}
   \comment{The letter ‘\’ C’.}
\endsetslot

\setslot{\uctop{Ccaron}{ccaron}}
   \comment{The letter ‘\v C’.}
\endsetslot

\setslot{\uctop{Dcaron}{dcaron}}
   \comment{The letter ‘\v D’.}
\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
```

```
\setslot{\lc{Dbar}{dbar}}
   \comment{The letter `\dj'.}
\endsetslot

\setslot{section.inferior}
   \comment{The section mark `\textsection'.}
\endsetslot

\setslot{\lctop{Abreve}{abreve}}
   \comment{The letter `\u a'.}
\endsetslot

\setslot{\lc{Aogonek}{aogonek}}
   \comment{The letter `\k a'.}
\endsetslot

\setslot{\lctop{Cacute}{cacute}}
   \comment{The letter `\' c'.}
\endsetslot

\setslot{\lctop{Ccaron}{ccaron}}
   \comment{The letter `\v c'.}
\endsetslot

\setslot{\lctop{Dcaron}{dcaron}}
   \comment{The letter `\v d'.}
\endsetslot

\setslot{\lctop{Ecaron}{ecaron}}
   \comment{The letter `\v e'.}
\endsetslot

\setslot{\lc{Eogonek}{eogonek}}
   \comment{The letter `\k e'.}
\endsetslot

\setslot{\lctop{Gbreve}{gbreve}}
   \comment{The letter `\u g'.}
\endsetslot

\setslot{\lctop{Lacute}{lacute}}
   \comment{The letter `\' l'.}
\endsetslot

\setslot{\lc{Lcaron}{lcaron}}
   \comment{The letter `\v l'.}
\endsetslot

\setslot{\lc{Lslash}{lslash}}
   \comment{The letter `\l'.}
\endsetslot

\setslot{\lctop{Nacute}{nacute}}
   \comment{The letter `\' n'.}
```

```
\endsetslot

\setslot{\lctop{Ncaron}{ncaron}}
   \comment{The letter `\v n'.}
\endsetslot

\setslot{\lc{Eng}{eng}}
   \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.}
\endsetslot

\setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter `\H o'.}
\endsetslot

\setslot{\lctop{Racute}{racute}}
   \comment{The letter `\' r'.}
\endsetslot

\setslot{\lctop{Rcaron}{rcaron}}
   \comment{The letter `\v r'.}
\endsetslot

\setslot{\lctop{Sacute}{sacute}}
   \comment{The letter `\' s'.}
\endsetslot

\setslot{\lctop{Scaron}{scaron}}
   \comment{The letter `\v s'.}
\endsetslot

\setslot{\lc{Scedilla}{scedilla}}
   \comment{The letter `\c s'.}
\endsetslot

\setslot{\lctop{Tcaron}{tcaron}}
   \comment{The letter `\v t'.}
\endsetslot

\setslot{\lc{Tcedilla}{tcedilla}}
   \comment{The letter `\c t'.}
\endsetslot

\setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H u'.}
\endsetslot

\setslot{\lctop{Uring}{uring}}
   \comment{The letter `\r u'.}
\endsetslot

\setslot{\lctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" y'.}
```

```
\endsetslot

\setslot{\lctop{Zacute}{zacute}}
   \comment{The letter `\' z'.}
\endsetslot

\setslot{\lctop{Zcaron}{zcaron}}
   \comment{The letter `\v z'.}
\endsetslot

\setslot{\lctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\lclig{IJ}{ij}}
      \comment{The letter `ij'.  This is a single letter, and in a
        monowidth font should ideally be one letter wide.}
   \endsetslot

\Fi

\setslot{exclamdown.inferior}
   \comment{The Spanish punctuation mark `!`'.}
\endsetslot

\setslot{questiondown.inferior}
   \comment{The Spanish punctuation mark `?`'.}
\endsetslot

\setslot{sterling.inferior}
   \comment{The British currency mark `\textsterling'.}
\endsetslot

\setslot{\uctop{Agrave}{agrave}}
   \comment{The letter `\` A'.}
\endsetslot

\setslot{\uctop{Aacute}{aacute}}
   \comment{The letter `\' A'.}
\endsetslot

\setslot{\uctop{Acircumflex}{acircumflex}}
   \comment{The letter `\^ A'.}
\endsetslot

\setslot{\uctop{Atilde}{atilde}}
   \comment{The letter `\~ A'.}
\endsetslot

\setslot{\uctop{Adieresis}{adieresis}}
   \comment{The letter `\" A'.}
\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'.}
```

```
\endsetslot

\setslot{\uctop{Ograve}{ograve}}
   \comment{The letter `\` O'.}
\endsetslot

\setslot{\uctop{Oacute}{oacute}}
   \comment{The letter `\' O'.}
\endsetslot

\setslot{\uctop{Ocircumflex}{ocircumflex}}
   \comment{The letter `\^ O'.}
\endsetslot

\setslot{\uctop{Otilde}{otilde}}
   \comment{The letter `\~ O'.}
\endsetslot

\setslot{\uctop{Odieresis}{odieresis}}
   \comment{The letter `\" O'.}
\endsetslot

\setslot{\uc{OE}{oe}}
   \comment{The letter `\OE'.  This is a single letter, and should not be
      faked with `OE'.}
\endsetslot

\setslot{\uc{Oslash}{oslash}}
   \comment{The letter `\O'.}
\endsetslot

\setslot{\uctop{Ugrave}{ugrave}}
   \comment{The letter `\` U'.}
\endsetslot

\setslot{\uctop{Uacute}{uacute}}
   \comment{The letter `\' U'.}
\endsetslot

\setslot{\uctop{Ucircumflex}{ucircumflex}}
   \comment{The letter `\^ U'.}
\endsetslot

\setslot{\uctop{Udieresis}{udieresis}}
   \comment{The letter `\" U'.}
\endsetslot

\setslot{\uctop{Yacute}{yacute}}
   \comment{The letter `\' Y'.}
\endsetslot

\setslot{\uc{Thorn}{thorn}}
   \comment{The Icelandic capital letter Thorn, similar to a `P'
      with the bowl moved down.  It is unavailable in \plain\ \TeX.}
```

```
\endsetslot

\setslot{\uclig{SS}{germandbls}}
   \comment{The ligature ‘SS’, used to give an upper case ‘\ss’.
      In a monowidth font it should be two letters wide.}
\endsetslot

\setslot{\lctop{Agrave}{agrave}}
   \comment{The letter ‘\‘ a’.}
\endsetslot

\setslot{\lctop{Aacute}{aacute}}
   \comment{The letter ‘\’ a’.}
\endsetslot

\setslot{\lctop{Acircumflex}{acircumflex}}
   \comment{The letter ‘\^ a’.}
\endsetslot

\setslot{\lctop{Atilde}{atilde}}
   \comment{The letter ‘\~ a’.}
\endsetslot

\setslot{\lctop{Adieresis}{adieresis}}
   \comment{The letter ‘\" a’.}
\endsetslot

\setslot{\lctop{Aring}{aring}}
   \comment{The letter ‘\r a’.}
\endsetslot

\setslot{\lc{AE}{ae}}
   \comment{The letter ‘\ae’.  This is a single letter, and should not be
      faked with ‘ae’.}
\endsetslot

\setslot{\lc{Ccedilla}{ccedilla}}
   \comment{The letter ‘\c c’.}
\endsetslot

\setslot{\lctop{Egrave}{egrave}}
   \comment{The letter ‘\‘ e’.}
\endsetslot

\setslot{\lctop{Eacute}{eacute}}
   \comment{The letter ‘\’ e’.}
\endsetslot

\setslot{\lctop{Ecircumflex}{ecircumflex}}
   \comment{The letter ‘\^ e’.}
\endsetslot

\setslot{\lctop{Edieresis}{edieresis}}
   \comment{The letter ‘\" e’.}
```

```
\endsetslot

\setslot{\lctop{Igrave}{igrave}}
   \comment{The letter `\`\i'.}
\endsetslot

\setslot{\lctop{Iacute}{iacute}}
   \comment{The letter `\'\i'.}
\endsetslot

\setslot{\lctop{Icircumflex}{icircumflex}}
   \comment{The letter `\^\i'.}
\endsetslot

\setslot{\lctop{Idieresis}{idieresis}}
   \comment{The letter `\"\i'.}
\endsetslot

\setslot{\lc{Eth}{eth}}
   \comment{The Icelandic lowercase letter `eth' similar to
     a `$\partial$' with an oblique bar through the stem.
     It is unavailable in \plain\ \TeX.}
\endsetslot

\setslot{\lctop{Ntilde}{ntilde}}
   \comment{The letter `\~ n'.}
\endsetslot

\setslot{\lctop{Ograve}{ograve}}
   \comment{The letter `\` o'.}
\endsetslot

\setslot{\lctop{Oacute}{oacute}}
   \comment{The letter `\' o'.}
\endsetslot

\setslot{\lctop{Ocircumflex}{ocircumflex}}
   \comment{The letter `\^ o'.}
\endsetslot

\setslot{\lctop{Otilde}{otilde}}
   \comment{The letter `\~ o'.}
\endsetslot

\setslot{\lctop{Odieresis}{odieresis}}
   \comment{The letter `\" o'.}
\endsetslot

\setslot{\lc{OE}{oe}}
   \comment{The letter `\oe'.  This is a single letter, and should not be
      faked with `oe'.}
\endsetslot

\setslot{\lc{Oslash}{oslash}}
```

```
   \comment{The letter `\o'.}
\endsetslot

\setslot{\lctop{Ugrave}{ugrave}}
   \comment{The letter `\` u'.}
\endsetslot

\setslot{\lctop{Uacute}{uacute}}
   \comment{The letter `\' u'.}
\endsetslot

\setslot{\lctop{Ucircumflex}{ucircumflex}}
   \comment{The letter `\^ u'.}
\endsetslot

\setslot{\lctop{Udieresis}{udieresis}}
   \comment{The letter `\" u'.}
\endsetslot

\setslot{\lctop{Yacute}{yacute}}
   \comment{The letter `\' y'.}
\endsetslot

\setslot{\lc{Thorn}{thorn}}
   \comment{The Icelandic lowercase letter `thorn', similar to a `p'
      with an ascender rising from the stem.  It is unavailable
      in \plain\ \TeX.}
\endsetslot

\setslot{\lc{SS}{germandbls}}
   \comment{The letter `\ss'.}
\endsetslot

\endencoding
```

4.3.10 t1-dotsup.etx

`t1-dotsup.etx` (*etx*)

```
%%
%% - The original notices at the top of that file concerning authors,
%% maintenance etc. are replaced by this notice.
%% - The file is renamed.
%% - The encoding name is modified.
%% - The file is modified to accommodate differences in glyph names.
%% - The file is modified for use in encoding superiors.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax
\encoding

\needsfontinstversion{1.910}

```

```
\setcommand\lc#1#2{#2.superior}
\setcommand\uc#1#2{#1.superior}
\setcommand\lctop#1#2{#2.superior}
\setcommand\uctop#1#2{#1.superior}
\setcommand\lclig#1#2{#2.superior}
\ifisint{letterspacing}\then
   \ifnumber{\int{letterspacing}}={0}\then \Else
      \setcommand\uclig#1#2{#1spaced}
      \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
      you can't see it as \verb|\setcommand| commands are invisible in
      the typeset output.}
   \Fi
\Fi
\setcommand\uclig#1#2{#1.superior}
\setcommand\digit#1{#1.superior}

\ifisint{monowidth}\then
   \setint{ligaturing}{0}
\Else
   % The following empty line is *important* to get the formatting
   % right here (sigh)! (Remember that it is a \par token.)

   \ifisint{letterspacing}\then
      \ifnumber{\int{letterspacing}}={0}\then \Else
         \setint{ligaturing}{0}
      \Fi
   \Fi
 \setint{ligaturing}{1}
\Fi

\setint{italicslant}{0}
\setint{quad}{1000}
\setint{baselineskip}{1200}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
\Else
   \setint{xheight}{500}
\Fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\Else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\Else
   \setint{interword}{333}
\Fi\Fi

\ifisint{monowidth}\then
   \setint{stretchword}{0}
   \setint{shrinkword}{0}
   \setint{extraspace}{\int{interword}}
\Else
   \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{acccapheight}{\height{Aring}}
5613 \Else
5614    \setint{acccapheight}{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
```

```
\setfontdimen{1}{italicslant}    % italic slant
\setfontdimen{2}{interword}      % interword space
\setfontdimen{3}{stretchword}    % interword stretch
\setfontdimen{4}{shrinkword}     % interword shrink
\setfontdimen{5}{xheight}        % x-height
\setfontdimen{6}{quad}           % quad
\setfontdimen{7}{extraspace}     % extra space after .
\setfontdimen{8}{capheight}      % cap height
\setfontdimen{9}{ascender}       % ascender
\setfontdimen{10}{acccapheight}  % accented cap height
\setfontdimen{11}{descender}     % descender's depth
\setfontdimen{12}{maxheight}     % max height
\setfontdimen{13}{maxdepth}      % max depth
\setfontdimen{14}{digitwidth}    % digit width
\setfontdimen{15}{verticalstem}  % dominant width of verical stems
\setfontdimen{16}{baselineskip}  % baselineskip

\ifnumber{\int{ligaturing}}<{0}\then
   \comment{In this case, the codingscheme can be different from the
     default, and therefore we refrain from setting it.}
\Else
   \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - DOTSUP}
\Fi

\setslot{\lc{Grave}{grave}}
   \comment{The grave accent `\`{}'.}
\endsetslot

\setslot{\lc{Acute}{acute}}
   \comment{The acute accent `\'{}'.}
\endsetslot

\setslot{\lc{Circumflex}{circumflex}}
   \comment{The circumflex accent `\^{}'.}
\endsetslot

\setslot{\lc{Tilde}{tilde}}
   \comment{The tilde accent `\~{}'.}
\endsetslot

\setslot{\lc{Dieresis}{dieresis}}
   \comment{The umlaut or dieresis accent `\"{}'.}
\endsetslot

\setslot{\lc{Hungarumlaut}{hungarumlaut}}
   \comment{The long Hungarian umlaut `\H{}'.}
\endsetslot

\setslot{\lc{Ring}{ring}}
   \comment{The ring accent `\r{}'.}
\endsetslot

\setslot{\lc{Caron}{caron}}
   \comment{The caron or h\'a\v cek accent `\v{}'.}
```

```
\endsetslot

\setslot{\lc{Breve}{breve}}
   \comment{The breve accent `\u{}'.}
\endsetslot

\setslot{\lc{Macron}{macron}}
   \comment{The macron accent `\={}'.}
\endsetslot

\setslot{\lc{Dotaccent}{dotaccent}}
   \comment{The dot accent `\.{}'.}
\endsetslot

\setslot{\lc{Cedilla}{cedilla}}
   \comment{The cedilla accent `\c {}'.}
\endsetslot

\setslot{\lc{Ogonek}{ogonek}}
   \comment{The ogonek accent `\k {}'.}
\endsetslot

\setslot{quotesinglbase.superior}
  \comment{A German single quote mark `\quotesinglbase' similar to a comma,
      but with different sidebearings.}
\endsetslot

\setslot{guilsinglleft.superior}
  \comment{A French single opening quote mark `\guilsinglleft',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{guilsinglright.superior}
  \comment{A French single closing quote mark `\guilsinglright',
      unavailable in \plain\ \TeX.}
\endsetslot

\setslot{quotedblleft.superior}
  \comment{The English opening quote mark `\,\textquotedblleft\,'.}
\endsetslot

\setslot{quotedblright.superior}
  \comment{The English closing quote mark `\,\textquotedblright\,'.}
\endsetslot

\setslot{quotedblbase.superior}
  \comment{A German double quote mark `\quotedblbase' similar to two commas,
      but with tighter letterspacing and different sidebearings.}
\endsetslot

\setslot{guillemotleft.superior}
  \comment{A French double opening quote mark `\guillemotleft',
      unavailable in \plain\ \TeX.}
\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
```

```
      monowidth font.}
\endsetslot

\setslot{\lclig{FI}{fi}}
   \comment{The ‘fi’ ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FL}{fl}}
   \comment{The ‘fl’ ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FFI}{ffi}}
   \comment{The ‘ffi’ ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FFL}{ffl}}
   \comment{The ‘ffl’ ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\Fi

\setslot{visiblespace.superior}
   \comment{A visible space glyph ‘\textvisiblespace’.}
\endsetslot

\setslot{exclam.superior}
   \ligature{LIG}{quoteleft.superior}{exclamdown.superior}
   \comment{The exclamation mark ‘!’.}
\endsetslot

\setslot{quotedbl.superior}
  \comment{The ‘neutral’ double quotation mark ‘\,\textquotedbl\,’,
      included for use in monowidth fonts, or for setting computer
      programs.  Note that the inclusion of this glyph in this slot
      means that \TeX\ documents which used ‘{\tt\char‘\"}’ as an
      input character will no longer work.}
\endsetslot

\setslot{numbersign.superior}
   \comment{The hash sign ‘\#’.}
\endsetslot

\setslot{dollar.superior}
   \comment{The dollar sign ‘\$’.}
\endsetslot

\setslot{percent.superior}
   \comment{The percent sign ‘\%’.}
\endsetslot

```

```
\setslot{ampersand.superior}
   \comment{The ampersand sign `\&'.}
\endsetslot

\setslot{quoteright.superior}
   \ligature{LIG}{quoteright.superior}{quotedblright.superior}
   \comment{The English closing single quote mark `\,\textquoteright\,'.}
\endsetslot

\setslot{parenleft.superior}
   \comment{The opening parenthesis `('.}
\endsetslot

\setslot{parenright.superior}
   \comment{The closing parenthesis `)'.}
\endsetslot

\setslot{asterisk.superior}
   \comment{The raised asterisk `*'.}
\endsetslot

\setslot{plus.superior}
   \comment{The addition sign `+'.}
\endsetslot

\setslot{comma.superior}
   \ligature{LIG}{comma.superior}{quotedblbase.superior}
   \comment{The comma `,'.}
\endsetslot

\setslot{hyphen.superior}
   \ligature{LIG}{hyphen.superior}{endash.superior}
   \ligature{LIG}{hyphenchar.superior}{hyphenchar.superior}
   \comment{The hyphen `-'.}
\endsetslot

\setslot{period.superior}
   \comment{The period `.'.}
\endsetslot

\setslot{slash.superior}
   \comment{The forward oblique `/'.}
\endsetslot

\setslot{\digit{zero}}
   \comment{The number `0'.  This (and all the other numerals) may be
      old style or ranging digits.}
\endsetslot

\setslot{\digit{one}}
   \comment{The number `1'.}
\endsetslot

\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}’.}
```

```
\endsetslot

\setslot{\uc{L}{l}}
   \comment{The letter ‘{L}’.}
\endsetslot

\setslot{\uc{M}{m}}
   \comment{The letter ‘{M}’.}
\endsetslot

\setslot{\uc{N}{n}}
   \comment{The letter ‘{N}’.}
\endsetslot

\setslot{\uc{O}{o}}
   \comment{The letter ‘{O}’.}
\endsetslot

\setslot{\uc{P}{p}}
   \comment{The letter ‘{P}’.}
\endsetslot

\setslot{\uc{Q}{q}}
   \comment{The letter ‘{Q}’.}
\endsetslot

\setslot{\uc{R}{r}}
   \comment{The letter ‘{R}’.}
\endsetslot

\setslot{\uc{S}{s}}
   \comment{The letter ‘{S}’.}
\endsetslot

\setslot{\uc{T}{t}}
   \comment{The letter ‘{T}’.}
\endsetslot

\setslot{\uc{U}{u}}
   \comment{The letter ‘{U}’.}
\endsetslot

\setslot{\uc{V}{v}}
   \comment{The letter ‘{V}’.}
\endsetslot

\setslot{\uc{W}{w}}
   \comment{The letter ‘{W}’.}
\endsetslot

\setslot{\uc{X}{x}}
   \comment{The letter ‘{X}’.}
\endsetslot

```

```
\setslot{\uc{Y}{y}}
   \comment{The letter ‘{Y}’.}
\endsetslot

\setslot{\uc{Z}{z}}
   \comment{The letter ‘{Z}’.}
\endsetslot

\setslot{bracketleft.superior}
   \comment{The opening square bracket ‘[’.}
\endsetslot

\setslot{backslash.superior}
   \comment{The backwards oblique ‘\textbackslash’.}
\endsetslot

\setslot{bracketright.superior}
   \comment{The closing square bracket ‘]’.}
\endsetslot

\setslot{asciicircum.superior}
   \comment{The ASCII upward-pointing arrow head ‘\textasciicircum’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{underscore.superior}
   \comment{The ASCII underline character ‘\textunderscore’, usually
      set on the baseline.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{quoteleft.superior}
   \ligature{LIG}{quoteleft.superior}{quotedblleft.superior}
   \comment{The English opening single quote mark ‘\,\textquoteleft\,’.}
\endsetslot

\setslot{\lc{A}{a}}
   \comment{The letter ‘{a}’.}
\endsetslot

\setslot{\lc{B}{b}}
   \comment{The letter ‘{b}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{C}{c}}
      \comment{The letter ‘{c}’.}
   \endsetslot

\Fi

```

```
\setslot{\lc{D}{d}}
   \comment{The letter ‘{d}’.}
\endsetslot

\setslot{\lc{E}{e}}
   \comment{The letter ‘{e}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{F}{f}}
      \ifnumber{\int{ligaturing}}>{0}\then
         \ligature{LIG}{\lc{I}{i}}{\lclig{FI}{fi}}
         \ligature{LIG}{\lc{F}{f}}{\lclig{FF}{ff}}
         \ligature{LIG}{\lc{L}{l}}{\lclig{FL}{fl}}
      \Fi
      \comment{The letter ‘{f}’.}
   \endsetslot

\Fi

\setslot{\lc{G}{g}}
   \comment{The letter ‘{g}’.}
\endsetslot

\setslot{\lc{H}{h}}
   \comment{The letter ‘{h}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{I}{i}}
      \comment{The letter ‘{i}’.}
   \endsetslot

\Fi

\setslot{\lc{J}{j}}
   \comment{The letter ‘{j}’.}
\endsetslot

\setslot{\lc{K}{k}}
   \comment{The letter ‘{k}’.}
\endsetslot

\setslot{\lc{L}{l}}
   \comment{The letter ‘{l}’.}
\endsetslot

\setslot{\lc{M}{m}}
   \comment{The letter ‘{m}’.}
\endsetslot

\setslot{\lc{N}{n}}
```

```
   \comment{The letter ‘{n}’.}
\endsetslot

\setslot{\lc{O}{o}}
   \comment{The letter ‘{o}’.}
\endsetslot

\setslot{\lc{P}{p}}
   \comment{The letter ‘{p}’.}
\endsetslot

\setslot{\lc{Q}{q}}
   \comment{The letter ‘{q}’.}
\endsetslot

\setslot{\lc{R}{r}}
   \comment{The letter ‘{r}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{S}{s}}
      \comment{The letter ‘{s}’.}
   \endsetslot

\Fi

\setslot{\lc{T}{t}}
   \comment{The letter ‘{t}’.}
\endsetslot

\setslot{\lc{U}{u}}
   \comment{The letter ‘{u}’.}
\endsetslot

\setslot{\lc{V}{v}}
   \comment{The letter ‘{v}’.}
\endsetslot

\setslot{\lc{W}{w}}
   \comment{The letter ‘{w}’.}
\endsetslot

\setslot{\lc{X}{x}}
   \comment{The letter ‘{x}’.}
\endsetslot

\setslot{\lc{Y}{y}}
   \comment{The letter ‘{y}’.}
\endsetslot

\setslot{\lc{Z}{z}}
   \comment{The letter ‘{z}’.}
\endsetslot
```

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

```
\setslot{\uctop{Gbreve}{gbreve}}
   \comment{The letter `\u G'.}
\endsetslot

\setslot{\uctop{Lacute}{lacute}}
   \comment{The letter `\' L'.}
\endsetslot

\setslot{\uc{Lcaron}{lcaron}}
   \comment{The letter `\v L'.}
\endsetslot

\setslot{\uc{Lslash}{lslash}}
   \comment{The letter `\L'.}
\endsetslot

\setslot{\uctop{Nacute}{nacute}}
   \comment{The letter `\' N'.}
\endsetslot

\setslot{\uctop{Ncaron}{ncaron}}
   \comment{The letter `\v N'.}
\endsetslot

\setslot{\uc{Eng}{eng}}
   \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.}
\endsetslot

\setslot{\uctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter `\H O'.}
\endsetslot

\setslot{\uctop{Racute}{racute}}
   \comment{The letter `\' R'.}
\endsetslot

\setslot{\uctop{Rcaron}{rcaron}}
   \comment{The letter `\v R'.}
\endsetslot

\setslot{\uctop{Sacute}{sacute}}
   \comment{The letter `\' S'.}
\endsetslot

\setslot{\uctop{Scaron}{scaron}}
   \comment{The letter `\v S'.}
\endsetslot

\setslot{\uc{Scedilla}{scedilla}}
   \comment{The letter `\c S'.}
\endsetslot

```

```
\setslot{\uctop{Tcaron}{tcaron}}
   \comment{The letter `\v T'.}
\endsetslot

\setslot{\uc{Tcedilla}{tcedilla}}
   \comment{The letter `\c T'.}
\endsetslot

\setslot{\uctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H U'.}
\endsetslot

\setslot{\uctop{Uring}{uring}}
   \comment{The letter `\r U'.}
\endsetslot

\setslot{\uctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" Y'.}
\endsetslot

\setslot{\uctop{Zacute}{zacute}}
   \comment{The letter `\' Z'.}
\endsetslot

\setslot{\uctop{Zcaron}{zcaron}}
   \comment{The letter `\v Z'.}
\endsetslot

\setslot{\uctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. Z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\uclig{IJ}{ij}}
      \comment{The letter `IJ'.  This is a single letter, and in a
        monowidth font should ideally be one letter wide.}
   \endsetslot

\Fi

\setslot{\uctop{Idotaccent}{idotaccent}}
   \comment{The letter `\. I'.}
\endsetslot

\setslot{\lc{Dbar}{dbar}}
   \comment{The letter `\dj'.}
\endsetslot

\setslot{section.superior}
   \comment{The section mark `\textsection'.}
\endsetslot

\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.}
\endsetslot

\setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter `\H o'.}
\endsetslot

\setslot{\lctop{Racute}{racute}}
   \comment{The letter `\' r'.}
\endsetslot

\setslot{\lctop{Rcaron}{rcaron}}
   \comment{The letter `\v r'.}
\endsetslot

\setslot{\lctop{Sacute}{sacute}}
   \comment{The letter `\' s'.}
\endsetslot

\setslot{\lctop{Scaron}{scaron}}
   \comment{The letter `\v s'.}
\endsetslot

\setslot{\lc{Scedilla}{scedilla}}
   \comment{The letter `\c s'.}
\endsetslot

\setslot{\lctop{Tcaron}{tcaron}}
   \comment{The letter `\v t'.}
\endsetslot

\setslot{\lc{Tcedilla}{tcedilla}}
   \comment{The letter `\c t'.}
\endsetslot

\setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H u'.}
\endsetslot

\setslot{\lctop{Uring}{uring}}
   \comment{The letter `\r u'.}
\endsetslot

\setslot{\lctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" y'.}
\endsetslot

\setslot{\lctop{Zacute}{zacute}}
   \comment{The letter `\' z'.}
\endsetslot

\setslot{\lctop{Zcaron}{zcaron}}
   \comment{The letter `\v z'.}
\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{Aacute}{aacute}}
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 `\^ O'.}
6618 \endsetslot
6619
6620 \setslot{\uctop{Otilde}{otilde}}
6621    \comment{The letter `\~ O'.}
6622 \endsetslot
6623
6624 \setslot{\uctop{Odieresis}{odieresis}}
6625    \comment{The letter `\" O'.}
6626 \endsetslot
6627
6628 \setslot{\uc{OE}{oe}}
6629    \comment{The letter `\OE'.  This is a single letter, and should not be
6630       faked with `OE'.}
6631 \endsetslot
6632
6633 \setslot{\uc{Oslash}{oslash}}
6634    \comment{The letter `\O'.}
6635 \endsetslot
6636
6637 \setslot{\uctop{Ugrave}{ugrave}}
6638    \comment{The letter `\` U'.}
6639 \endsetslot
6640
6641 \setslot{\uctop{Uacute}{uacute}}
6642    \comment{The letter `\' U'.}
6643 \endsetslot
6644
6645 \setslot{\uctop{Ucircumflex}{ucircumflex}}
6646    \comment{The letter `\^ U'.}
6647 \endsetslot
6648
6649 \setslot{\uctop{Udieresis}{udieresis}}
6650    \comment{The letter `\" U'.}
6651 \endsetslot
6652
6653 \setslot{\uctop{Yacute}{yacute}}
6654    \comment{The letter `\' Y'.}
6655 \endsetslot
6656
6657 \setslot{\uc{Thorn}{thorn}}
6658    \comment{The Icelandic capital letter Thorn, similar to a `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 `SS', used to give an upper case `\ss'.
6664       In a monowidth font it should be two letters wide.}
6665 \endsetslot
6666
6667 \setslot{\lctop{Agrave}{agrave}}
6668    \comment{The letter `\` a'.}
```

```
\endsetslot

\setslot{\lctop{Aacute}{aacute}}
   \comment{The letter `\' a'.}
\endsetslot

\setslot{\lctop{Acircumflex}{acircumflex}}
   \comment{The letter `\^ a'.}
\endsetslot

\setslot{\lctop{Atilde}{atilde}}
   \comment{The letter `\~ a'.}
\endsetslot

\setslot{\lctop{Adieresis}{adieresis}}
   \comment{The letter `\" a'.}
\endsetslot

\setslot{\lctop{Aring}{aring}}
   \comment{The letter `\r a'.}
\endsetslot

\setslot{\lc{AE}{ae}}
   \comment{The letter `\ae'.  This is a single letter, and should not be
      faked with `ae'.}
\endsetslot

\setslot{\lc{Ccedilla}{ccedilla}}
   \comment{The letter `\c c'.}
\endsetslot

\setslot{\lctop{Egrave}{egrave}}
   \comment{The letter `\` e'.}
\endsetslot

\setslot{\lctop{Eacute}{eacute}}
   \comment{The letter `\' e'.}
\endsetslot

\setslot{\lctop{Ecircumflex}{ecircumflex}}
   \comment{The letter `\^ e'.}
\endsetslot

\setslot{\lctop{Edieresis}{edieresis}}
   \comment{The letter `\" e'.}
\endsetslot

\setslot{\lctop{Igrave}{igrave}}
   \comment{The letter `\`\i'.}
\endsetslot

\setslot{\lctop{Iacute}{iacute}}
   \comment{The letter `\'\i'.}
\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'.}
```

```
\endsetslot

\setslot{\lctop{Ucircumflex}{ucircumflex}}
   \comment{The letter `\^ u'.}
\endsetslot

\setslot{\lctop{Udieresis}{udieresis}}
   \comment{The letter `\" u'.}
\endsetslot

\setslot{\lctop{Yacute}{yacute}}
   \comment{The letter `\' y'.}
\endsetslot

\setslot{\lc{Thorn}{thorn}}
   \comment{The Icelandic lowercase letter `thorn', similar to a `p'
      with an ascender rising from the stem.  It is unavailable
      in \plain\ \TeX.}
\endsetslot

\setslot{\lc{SS}{germandbls}}
   \comment{The letter `\ss'.}
\endsetslot

\endencoding
```

4.3.11 t1-dotsuperior.etx

t1-dotsuperior.etx (*etx*)

```
%%
%% - The original notices at the top of that file concerning authors,
%% maintenance etc. are replaced by this notice.
%% - The file is renamed.
%% - The encoding name is modified.
%% - The file is modified to accommodate differences in glyph names.
%% - The file is modified for use in encoding superiors.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax
\encoding

\needsfontinstversion{1.910}

\setcommand\lc#1#2{#2.superior}
\setcommand\uc#1#2{#1.superior}
\setcommand\lctop#1#2{#2.superior}
\setcommand\uctop#1#2{#1.superior}
\setcommand\lclig#1#2{#2.superior}
\ifisint{letterspacing}\then
   \ifnumber{\int{letterspacing}}={0}\then \Else
      \setcommand\uclig#1#2{#1spaced}
      \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
```

```
      you can't see it as \verb|\setcommand| commands are invisible in
      the typeset output.}
   \Fi
\Fi
\setcommand\uclig#1#2{#1.superior}
\setcommand\digit#1{#1.superior}

\ifisint{monowidth}\then
   \setint{ligaturing}{0}
\Else
   % The following empty line is *important* to get the formatting
   % right here (sigh)! (Remember that it is a \par token.)

   \ifisint{letterspacing}\then
      \ifnumber{\int{letterspacing}}={0}\then \Else
         \setint{ligaturing}{0}
      \Fi
   \Fi
 \setint{ligaturing}{1}
\Fi

\setint{italicslant}{0}
\setint{quad}{1000}
\setint{baselineskip}{1200}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
\Else
   \setint{xheight}{500}
\Fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\Else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\Else
   \setint{interword}{333}
\Fi\Fi

\ifisint{monowidth}\then
   \setint{stretchword}{0}
   \setint{shrinkword}{0}
   \setint{extraspace}{\int{interword}}
\Else
   \setint{stretchword}{\scale{\int{interword}}{600}}
   \setint{shrinkword}{\scale{\int{interword}}{240}}
   \setint{extraspace}{\scale{\int{interword}}{240}}
\Fi

\ifisglyph{X}\then
   \setint{capheight}{\height{X}}
\Else
   \setint{capheight}{750}
\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{acccapheight}{\height{Aring}}
6890 \Else
6891    \setint{acccapheight}{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
```

```
\setfontdimen{10}{acccapheight}  % accented cap height
\setfontdimen{11}{descender}     % descender's depth
\setfontdimen{12}{maxheight}     % max height
\setfontdimen{13}{maxdepth}      % max depth
\setfontdimen{14}{digitwidth}    % digit width
\setfontdimen{15}{verticalstem}  % dominant width of verical stems
\setfontdimen{16}{baselineskip}  % baselineskip

\ifnumber{\int{ligaturing}}<{0}\then
   \comment{In this case, the codingscheme can be different from the
     default, and therefore we refrain from setting it.}
\Else
   \setstr{codingscheme}{EXTENDED TEX FONT ENCODING - DOTSUPERIOR}
\Fi

\setslot{\lc{Grave}{grave}}
   \comment{The grave accent `\`{}'.}
\endsetslot

\setslot{\lc{Acute}{acute}}
   \comment{The acute accent `\'{}'.}
\endsetslot

\setslot{\lc{Circumflex}{circumflex}}
   \comment{The circumflex accent `\^{}'.}
\endsetslot

\setslot{\lc{Tilde}{tilde}}
   \comment{The tilde accent `\~{}'.}
\endsetslot

\setslot{\lc{Dieresis}{dieresis}}
   \comment{The umlaut or dieresis accent `\"{}'.}
\endsetslot

\setslot{\lc{Hungarumlaut}{hungarumlaut}}
   \comment{The long Hungarian umlaut `\H{}'.}
\endsetslot

\setslot{\lc{Ring}{ring}}
   \comment{The ring accent `\r{}'.}
\endsetslot

\setslot{\lc{Caron}{caron}}
   \comment{The caron or h\'a\v cek accent `\v{}'.}
\endsetslot

\setslot{\lc{Breve}{breve}}
   \comment{The breve accent `\u{}'.}
\endsetslot

\setslot{\lc{Macron}{macron}}
   \comment{The macron accent `\={}'.}
\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      ‘emdash’ 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}}
```

```
   \comment{The ‘fl’ ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FFI}{ffi}}
   \comment{The ‘ffi’ ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FFL}{ffl}}
   \comment{The ‘ffl’ ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\Fi

\setslot{visiblespace.superior}
   \comment{A visible space glyph ‘\textvisiblespace’.}
\endsetslot

\setslot{exclam.superior}
   \ligature{LIG}{quoteleft.superior}{exclamdown.superior}
   \comment{The exclamation mark ‘!’.}
\endsetslot

\setslot{quotedbl.superior}
  \comment{The ‘neutral’ double quotation mark ‘\,\textquotedbl\,’,
      included for use in monowidth fonts, or for setting computer
      programs.  Note that the inclusion of this glyph in this slot
      means that \TeX\ documents which used ‘{\tt\char‘\"}’ as an
      input character will no longer work.}
\endsetslot

\setslot{numbersign.superior}
   \comment{The hash sign ‘\#’.}
\endsetslot

\setslot{dollar.superior}
   \comment{The dollar sign ‘\$’.}
\endsetslot

\setslot{percent.superior}
   \comment{The percent sign ‘\%’.}
\endsetslot

\setslot{ampersand.superior}
   \comment{The ampersand sign ‘\&’.}
\endsetslot

\setslot{quoteright.superior}
   \ligature{LIG}{quoteright.superior}{quotedblright.superior}
   \comment{The English closing single quote mark ‘\,\textquoteright\,’.}
\endsetslot

```

```
\setslot{parenleft.superior}
   \comment{The opening parenthesis ‘(’.}
\endsetslot

\setslot{parenright.superior}
   \comment{The closing parenthesis ‘)’.}
\endsetslot

\setslot{asterisk.superior}
   \comment{The raised asterisk ‘*’.}
\endsetslot

\setslot{plus.superior}
   \comment{The addition sign ‘+’.}
\endsetslot

\setslot{comma.superior}
   \ligature{LIG}{comma.superior}{quotedblbase.superior}
   \comment{The comma ‘,’.}
\endsetslot

\setslot{hyphen.superior}
   \ligature{LIG}{hyphen.superior}{endash.superior}
   \ligature{LIG}{hyphenchar.superior}{hyphenchar.superior}
   \comment{The hyphen ‘-’.}
\endsetslot

\setslot{period.superior}
   \comment{The period ‘.’.}
\endsetslot

\setslot{slash.superior}
   \comment{The forward oblique ‘/’.}
\endsetslot

\setslot{\digit{zero}}
   \comment{The number ‘0’.  This (and all the other numerals) may be
      old style or ranging digits.}
\endsetslot

\setslot{\digit{one}}
   \comment{The number ‘1’.}
\endsetslot

\setslot{\digit{two}}
   \comment{The number ‘2’.}
\endsetslot

\setslot{\digit{three}}
   \comment{The number ‘3’.}
\endsetslot

\setslot{\digit{four}}
   \comment{The number ‘4’.}
```

```
\endsetslot

\setslot{\digit{five}}
   \comment{The number ‘5’.}
\endsetslot

\setslot{\digit{six}}
   \comment{The number ‘6’.}
\endsetslot

\setslot{\digit{seven}}
   \comment{The number ‘7’.}
\endsetslot

\setslot{\digit{eight}}
   \comment{The number ‘8’.}
\endsetslot

\setslot{\digit{nine}}
   \comment{The number ‘9’.}
\endsetslot

\setslot{colon.superior}
   \comment{The colon punctuation mark ‘:’.}
\endsetslot

\setslot{semicolon.superior}
   \comment{The semi-colon punctuation mark ‘;’.}
\endsetslot

\setslot{less.superior}
   \ligature{LIG}{less.superior}{guillemotleft.superior}
   \comment{The less-than sign ‘\textless’.}
\endsetslot

\setslot{equal.superior}
   \comment{The equals sign ‘=’.}
\endsetslot

\setslot{greater.superior}
   \ligature{LIG}{greater.superior}{guillemotright.superior}
   \comment{The greater-than sign ‘\textgreater’.}
\endsetslot

\setslot{question.superior}
   \ligature{LIG}{quoteleft.superior}{questiondown.superior}
   \comment{The question mark ‘?’.}
\endsetslot

\setslot{at.superior}
   \comment{The at sign ‘@’.}
\endsetslot

\setslot{\uc{A}{a}}
```

```
   \comment{The letter ‘{A}’.}
\endsetslot

\setslot{\uc{B}{b}}
   \comment{The letter ‘{B}’.}
\endsetslot

\setslot{\uc{C}{c}}
   \comment{The letter ‘{C}’.}
\endsetslot

\setslot{\uc{D}{d}}
   \comment{The letter ‘{D}’.}
\endsetslot

\setslot{\uc{E}{e}}
   \comment{The letter ‘{E}’.}
\endsetslot

\setslot{\uc{F}{f}}
   \comment{The letter ‘{F}’.}
\endsetslot

\setslot{\uc{G}{g}}
   \comment{The letter ‘{G}’.}
\endsetslot

\setslot{\uc{H}{h}}
   \comment{The letter ‘{H}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

\setslot{\uc{I}{i}}
   \comment{The letter ‘{I}’.}
\endsetslot

\Fi

\setslot{\uc{J}{j}}
   \comment{The letter ‘{J}’.}
\endsetslot

\setslot{\uc{K}{k}}
   \comment{The letter ‘{K}’.}
\endsetslot

\setslot{\uc{L}{l}}
   \comment{The letter ‘{L}’.}
\endsetslot

\setslot{\uc{M}{m}}
   \comment{The letter ‘{M}’.}
\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}’.}
```

```
\endsetslot

\setslot{\lc{Q}{q}}
   \comment{The letter ‘{q}’.}
\endsetslot

\setslot{\lc{R}{r}}
   \comment{The letter ‘{r}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{S}{s}}
      \comment{The letter ‘{s}’.}
   \endsetslot

\Fi

\setslot{\lc{T}{t}}
   \comment{The letter ‘{t}’.}
\endsetslot

\setslot{\lc{U}{u}}
   \comment{The letter ‘{u}’.}
\endsetslot

\setslot{\lc{V}{v}}
   \comment{The letter ‘{v}’.}
\endsetslot

\setslot{\lc{W}{w}}
   \comment{The letter ‘{w}’.}
\endsetslot

\setslot{\lc{X}{x}}
   \comment{The letter ‘{x}’.}
\endsetslot

\setslot{\lc{Y}{y}}
   \comment{The letter ‘{y}’.}
\endsetslot

\setslot{\lc{Z}{z}}
   \comment{The letter ‘{z}’.}
\endsetslot

\setslot{braceleft.superior}
   \comment{The opening curly brace ‘\textbraceleft’.}
\endsetslot

\setslot{bar.superior}
   \comment{The ASCII vertical bar ‘\textbar’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
```

```
\endsetslot

\setslot{braceright.superior}
   \comment{The closing curly brace ‘\textbraceright’.}
\endsetslot

\setslot{asciitilde.superior}
   \comment{The ASCII tilde ‘\textasciitilde’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{hyphenchar.superior}
   \comment{The glyph used for hyphenation in this font, which will
      almost always be the same as ‘hyphen’.}
\endsetslot

\setslot{\uctop{Abreve}{abreve}}
   \comment{The letter ‘\u A’.}
\endsetslot

\setslot{\uc{Aogonek}{aogonek}}
   \comment{The letter ‘\k A’.}
\endsetslot

\setslot{\uctop{Cacute}{cacute}}
   \comment{The letter ‘\’ C’.}
\endsetslot

\setslot{\uctop{Ccaron}{ccaron}}
   \comment{The letter ‘\v C’.}
\endsetslot

\setslot{\uctop{Dcaron}{dcaron}}
   \comment{The letter ‘\v D’.}
\endsetslot

\setslot{\uctop{Ecaron}{ecaron}}
   \comment{The letter ‘\v E’.}
\endsetslot

\setslot{\uc{Eogonek}{eogonek}}
   \comment{The letter ‘\k E’.}
\endsetslot

\setslot{\uctop{Gbreve}{gbreve}}
   \comment{The letter ‘\u G’.}
\endsetslot

\setslot{\uctop{Lacute}{lacute}}
   \comment{The letter ‘\’ L’.}
\endsetslot

\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}}
```

```
   \comment{The letter `\H U'.}
\endsetslot

\setslot{\uctop{Uring}{uring}}
   \comment{The letter `\r U'.}
\endsetslot

\setslot{\uctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" Y'.}
\endsetslot

\setslot{\uctop{Zacute}{zacute}}
   \comment{The letter `\' Z'.}
\endsetslot

\setslot{\uctop{Zcaron}{zcaron}}
   \comment{The letter `\v Z'.}
\endsetslot

\setslot{\uctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. Z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\uclig{IJ}{ij}}
      \comment{The letter `IJ'.  This is a single letter, and in a
        monowidth font should ideally be one letter wide.}
   \endsetslot

\Fi

\setslot{\uctop{Idotaccent}{idotaccent}}
   \comment{The letter `\. I'.}
\endsetslot

\setslot{\lc{Dbar}{dbar}}
   \comment{The letter `\dj'.}
\endsetslot

\setslot{section.superior}
   \comment{The section mark `\textsection'.}
\endsetslot

\setslot{\lctop{Abreve}{abreve}}
   \comment{The letter `\u a'.}
\endsetslot

\setslot{\lc{Aogonek}{aogonek}}
   \comment{The letter `\k a'.}
\endsetslot

\setslot{\lctop{Cacute}{cacute}}
   \comment{The letter `\' c'.}
```

```
\endsetslot

\setslot{\lctop{Ccaron}{ccaron}}
   \comment{The letter ‘\v c’.}
\endsetslot

\setslot{\lctop{Dcaron}{dcaron}}
   \comment{The letter ‘\v d’.}
\endsetslot

\setslot{\lctop{Ecaron}{ecaron}}
   \comment{The letter ‘\v e’.}
\endsetslot

\setslot{\lc{Eogonek}{eogonek}}
   \comment{The letter ‘\k e’.}
\endsetslot

\setslot{\lctop{Gbreve}{gbreve}}
   \comment{The letter ‘\u g’.}
\endsetslot

\setslot{\lctop{Lacute}{lacute}}
   \comment{The letter ‘\’ l’.}
\endsetslot

\setslot{\lc{Lcaron}{lcaron}}
   \comment{The letter ‘\v l’.}
\endsetslot

\setslot{\lc{Lslash}{lslash}}
   \comment{The letter ‘\l’.}
\endsetslot

\setslot{\lctop{Nacute}{nacute}}
   \comment{The letter ‘\’ n’.}
\endsetslot

\setslot{\lctop{Ncaron}{ncaron}}
   \comment{The letter ‘\v n’.}
\endsetslot

\setslot{\lc{Eng}{eng}}
   \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.}
\endsetslot

\setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter ‘\H o’.}
\endsetslot

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

```
\endsetslot

\setslot{\lctop{Rcaron}{rcaron}}
   \comment{The letter `\v r'.}
\endsetslot

\setslot{\lctop{Sacute}{sacute}}
   \comment{The letter `\' s'.}
\endsetslot

\setslot{\lctop{Scaron}{scaron}}
   \comment{The letter `\v s'.}
\endsetslot

\setslot{\lc{Scedilla}{scedilla}}
   \comment{The letter `\c s'.}
\endsetslot

\setslot{\lctop{Tcaron}{tcaron}}
   \comment{The letter `\v t'.}
\endsetslot

\setslot{\lc{Tcedilla}{tcedilla}}
   \comment{The letter `\c t'.}
\endsetslot

\setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H u'.}
\endsetslot

\setslot{\lctop{Uring}{uring}}
   \comment{The letter `\r u'.}
\endsetslot

\setslot{\lctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" y'.}
\endsetslot

\setslot{\lctop{Zacute}{zacute}}
   \comment{The letter `\' z'.}
\endsetslot

\setslot{\lctop{Zcaron}{zcaron}}
   \comment{The letter `\v z'.}
\endsetslot

\setslot{\lctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\lclig{IJ}{ij}}
      \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
```

```
\setslot{\uctop{Eacute}{eacute}}
   \comment{The letter `\' E'.}
\endsetslot

\setslot{\uctop{Ecircumflex}{ecircumflex}}
   \comment{The letter `\^ E'.}
\endsetslot

\setslot{\uctop{Edieresis}{edieresis}}
   \comment{The letter `\" E'.}
\endsetslot

\setslot{\uctop{Igrave}{igrave}}
   \comment{The letter `\` I'.}
\endsetslot

\setslot{\uctop{Iacute}{iacute}}
   \comment{The letter `\' I'.}
\endsetslot

\setslot{\uctop{Icircumflex}{icircumflex}}
   \comment{The letter `\^ I'.}
\endsetslot

\setslot{\uctop{Idieresis}{idieresis}}
   \comment{The letter `\" I'.}
\endsetslot

\setslot{\uc{Eth}{eth}}
   \comment{The uppercase Icelandic letter `Eth' similar to a `D'
      with a horizontal bar through the stem.  It is unavailable
      in \plain\ \TeX.}
\endsetslot

\setslot{\uctop{Ntilde}{ntilde}}
   \comment{The letter `\~ N'.}
\endsetslot

\setslot{\uctop{Ograve}{ograve}}
   \comment{The letter `\` O'.}
\endsetslot

\setslot{\uctop{Oacute}{oacute}}
   \comment{The letter `\' O'.}
\endsetslot

\setslot{\uctop{Ocircumflex}{ocircumflex}}
   \comment{The letter `\^ O'.}
\endsetslot

\setslot{\uctop{Otilde}{otilde}}
   \comment{The letter `\~ O'.}
\endsetslot

```

```
\setslot{\uctop{Odieresis}{odieresis}}
   \comment{The letter `\" O'.}
\endsetslot

\setslot{\uc{OE}{oe}}
   \comment{The letter `\OE'.  This is a single letter, and should not be
      faked with `OE'.}
\endsetslot

\setslot{\uc{Oslash}{oslash}}
   \comment{The letter `\O'.}
\endsetslot

\setslot{\uctop{Ugrave}{ugrave}}
   \comment{The letter `\` U'.}
\endsetslot

\setslot{\uctop{Uacute}{uacute}}
   \comment{The letter `\' U'.}
\endsetslot

\setslot{\uctop{Ucircumflex}{ucircumflex}}
   \comment{The letter `\^ U'.}
\endsetslot

\setslot{\uctop{Udieresis}{udieresis}}
   \comment{The letter `\" U'.}
\endsetslot

\setslot{\uctop{Yacute}{yacute}}
   \comment{The letter `\' Y'.}
\endsetslot

\setslot{\uc{Thorn}{thorn}}
   \comment{The Icelandic capital letter Thorn, similar to a `P'
      with the bowl moved down.  It is unavailable in \plain\ \TeX.}
\endsetslot

\setslot{\uclig{SS}{germandbls}}
   \comment{The ligature `SS', used to give an upper case `\ss'.
      In a monowidth font it should be two letters wide.}
\endsetslot

\setslot{\lctop{Agrave}{agrave}}
   \comment{The letter `\` a'.}
\endsetslot

\setslot{\lctop{Aacute}{aacute}}
   \comment{The letter `\' a'.}
\endsetslot

\setslot{\lctop{Acircumflex}{acircumflex}}
   \comment{The letter `\^ a'.}
\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
```

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

\setslot{\lctop{Ntilde}{ntilde}}
   \comment{The letter ‘\~ n’.}
\endsetslot

\setslot{\lctop{Ograve}{ograve}}
   \comment{The letter ‘\‘ o’.}
\endsetslot

\setslot{\lctop{Oacute}{oacute}}
   \comment{The letter ‘\’ o’.}
\endsetslot

\setslot{\lctop{Ocircumflex}{ocircumflex}}
   \comment{The letter ‘\^ o’.}
\endsetslot

\setslot{\lctop{Otilde}{otilde}}
   \comment{The letter ‘\~ o’.}
\endsetslot

\setslot{\lctop{Odieresis}{odieresis}}
   \comment{The letter ‘\" o’.}
\endsetslot

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

\setslot{\lc{Oslash}{oslash}}
   \comment{The letter ‘\o’.}
\endsetslot

\setslot{\lctop{Ugrave}{ugrave}}
   \comment{The letter ‘\‘ u’.}
\endsetslot

\setslot{\lctop{Uacute}{uacute}}
   \comment{The letter ‘\’ u’.}
\endsetslot

\setslot{\lctop{Ucircumflex}{ucircumflex}}
   \comment{The letter ‘\^ u’.}
\endsetslot

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

```
\setslot{\lctop{Yacute}{yacute}}
   \comment{The letter `\' y'.}
\endsetslot

\setslot{\lc{Thorn}{thorn}}
   \comment{The Icelandic lowercase letter `thorn', similar to a `p'
      with an ascender rising from the stem.  It is unavailable
      in \plain\ \TeX.}
\endsetslot

\setslot{\lc{SS}{germandbls}}
   \comment{The letter `\ss'.}
\endsetslot

\endencoding
```

4.3.12 t1-f_f.etx

`t1-f_f.etx` (*etx*)

```
%%
%% - The commentary in the original is deleted in this version. For
%% information about the T1 etc., typeset the original t1.etx
%% included with fontinst.
%% - Slots are altered to accommodate characters which are named
%% differently. For example, this encoding uses "endash" and "emdash"
%% whereas t1.etx called for "rangedash" and "punctdash".
%% - The original notices at the top of that file concerning authors,
%% maintenance etc. are replaced by this notice.
%% - The file is renamed.
%% - The encoding name is modified.
%% - f_f, f_f_i and f_f_l replace ff, ffi and ffl.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax
\encoding

\needsfontinstversion{1.910}

\setcommand\lc#1#2{#2}
\setcommand\uc#1#2{#1}
\setcommand\lctop#1#2{#2}
\setcommand\uctop#1#2{#1}
\setcommand\lclig#1#2{#2}
\ifisint{letterspacing}\then
   \ifnumber{\int{letterspacing}}={0}\then \Else
      \setcommand\uclig#1#2{#1spaced}
      \comment{Here we set \verb|\uclig#1#2| to \verb|#1spaced|, but
      you can't see it as \verb|\setcommand| commands are invisible in
      the typeset output.}
   \Fi
\Fi
```

```
\setcommand\uclig#1#2{#1}
\setcommand\digit#1{#1}

\ifisint{monowidth}\then
   \setint{ligaturing}{0}
\Else
   % The following empty line is *important* to get the formatting
   % right here (sigh)! (Remember that it is a \par token.)

   \ifisint{letterspacing}\then
      \ifnumber{\int{letterspacing}}={0}\then \Else
         \setint{ligaturing}{0}
      \Fi
   \Fi
 \setint{ligaturing}{1}
\Fi

\setint{italicslant}{0}
\setint{quad}{1000}
\setint{baselineskip}{1200}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
\Else
   \setint{xheight}{500}
\Fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\Else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\Else
   \setint{interword}{333}
\Fi\Fi

\ifisint{monowidth}\then
   \setint{stretchword}{0}
   \setint{shrinkword}{0}
   \setint{extraspace}{\int{interword}}
\Else
   \setint{stretchword}{\scale{\int{interword}}{600}}
   \setint{shrinkword}{\scale{\int{interword}}{240}}
   \setint{extraspace}{\scale{\int{interword}}{240}}
\Fi

\ifisglyph{X}\then
   \setint{capheight}{\height{X}}
\Else
   \setint{capheight}{750}
\Fi

\ifisglyph{d}\then
   \setint{ascender}{\height{d}}
\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{acccapheight}{\height{Aring}}
8172 \Else
8173    \setint{acccapheight}{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}{acccapheight}  % accented cap height
8216 \setfontdimen{11}{descender}     % descender's depth
8217 \setfontdimen{12}{maxheight}     % max height
8218 \setfontdimen{13}{maxdepth}      % max depth
```

```
\setfontdimen{14}{digitwidth}    % digit width
\setfontdimen{15}{verticalstem}  % dominant width of verical stems
\setfontdimen{16}{baselineskip}  % baselineskip

\ifnumber{\int{ligaturing}}<{0}\then
   \comment{In this case, the codingscheme can be different from the
     default, and therefore we refrain from setting it.}
\Else
   \setstr{codingscheme}{EXTENDED TEX ENC - F_F}
\Fi

\setslot{\lc{Grave}{grave}}
   \comment{The grave accent `\`{}'.}
\endsetslot

\setslot{\lc{Acute}{acute}}
   \comment{The acute accent `\'{}'.}
\endsetslot

\setslot{\lc{Circumflex}{circumflex}}
   \comment{The circumflex accent `\^{}'.}
\endsetslot

\setslot{\lc{Tilde}{tilde}}
   \comment{The tilde accent `\~{}'.}
\endsetslot

\setslot{\lc{Dieresis}{dieresis}}
   \comment{The umlaut or dieresis accent `\"{}'.}
\endsetslot

\setslot{\lc{Hungarumlaut}{hungarumlaut}}
   \comment{The long Hungarian umlaut `\H{}'.}
\endsetslot

\setslot{\lc{Ring}{ring}}
   \comment{The ring accent `\r{}'.}
\endsetslot

\setslot{\lc{Caron}{caron}}
   \comment{The caron or h\'a\v cek accent `\v{}'.}
\endsetslot

\setslot{\lc{Breve}{breve}}
   \comment{The breve accent `\u{}'.}
\endsetslot

\setslot{\lc{Macron}{macron}}
   \comment{The macron accent `\={}'.}
\endsetslot

\setslot{\lc{Dotaccent}{dotaccent}}
   \comment{The dot accent `\.{}'.}
\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}'.}
```

```
\endsetslot

\setslot{emdash}
   \comment{The punctuation dash `Oh---boy.'
     This is calle `punctdash' by fontinst's t1.etx, but needs to be
     called `emdash' to work right.
     The `\textemdash'.
     In a monowidth font, this might be set as `\texttt{Oh{-}{-}boy.}'}
\endsetslot

\setslot{compwordmark}
   \comment{An invisible glyph, with zero width and depth, but the
      height of lowercase letters without ascenders.
      It is used to stop ligaturing in words like `shelf{}ful'.}
\endsetslot

\setslot{perthousandzero}
   \comment{A glyph which is placed after `\%' to produce a
      `per-thousand', or twice to produce `per-ten-thousand'.
      Your guess is as good as mine as to what this glyph should look
      like in a monowidth font.}
\endsetslot

\setslot{\lc{dotlessI}{dotlessi}}
   \comment{A dotless i `\i', used to produce accented letters such as
      `\=\i'.}
\endsetslot

\setslot{\lc{dotlessJ}{dotlessj}}
   \comment{A dotless j `\j', used to produce accented letters such as
      `\=\j'.  Most non-\TeX\ fonts do not have this glyph.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{5}\Else

\setslot{\lclig{FF}{f_f}}
   \ifnumber{\int{ligaturing}}>{0}\then
      \ligature{LIG}{\lc{I}{i}}{\lclig{FFI}{f_f_i}}
      \ligature{LIG}{\lc{L}{l}}{\lclig{FFL}{f_f_l}}
   \Fi
   \comment{The `ff' ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FI}{fi}}
   \comment{The `fi' ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FL}{fl}}
   \comment{The `fl' ligature.  It should be two characters wide in a
      monowidth font.}
\endsetslot
```

```
\setslot{\lclig{FFI}{f_f_i}}
   \comment{The ‘ffi’ ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\setslot{\lclig{FFL}{f_f_l}}
   \comment{The ‘ffl’ ligature.  It should be three characters wide in a
      monowidth font.}
\endsetslot

\Fi

\setslot{visiblespace}
   \comment{A visible space glyph ‘\textvisiblespace’.}
\endsetslot

\setslot{exclam}
   \ligature{LIG}{quoteleft}{exclamdown}
   \comment{The exclamation mark ‘!’.}
\endsetslot

\setslot{quotedbl}
  \comment{The ‘neutral’ double quotation mark ‘\,\textquotedbl\,’,
      included for use in monowidth fonts, or for setting computer
      programs.  Note that the inclusion of this glyph in this slot
      means that \TeX\ documents which used ‘{\tt\char‘\"}’ as an
      input character will no longer work.}
\endsetslot

\setslot{numbersign}
   \comment{The hash sign ‘\#’.}
\endsetslot

\setslot{dollar}
   \comment{The dollar sign ‘\$’.}
\endsetslot

\setslot{percent}
   \comment{The percent sign ‘\%’.}
\endsetslot

\setslot{ampersand}
   \comment{The ampersand sign ‘\&’.}
\endsetslot

\setslot{quoteright}
   \ligature{LIG}{quoteright}{quotedblright}
   \comment{The English closing single quote mark ‘\,\textquoteright\,’.}
\endsetslot

\setslot{parenleft}
   \comment{The opening parenthesis ‘(’.}
\endsetslot

```

```
\setslot{parenright}
   \comment{The closing parenthesis `)'.}
\endsetslot

\setslot{asterisk}
   \comment{The raised asterisk `*'.}
\endsetslot

\setslot{plus}
   \comment{The addition sign `+'.}
\endsetslot

\setslot{comma}
   \ligature{LIG}{comma}{quotedblbase}
   \comment{The comma `,'.}
\endsetslot

\setslot{hyphen}
   \ligature{LIG}{hyphen}{endash}
   \ligature{LIG}{hyphenchar}{hyphenchar}
   \comment{The hyphen `-'.}
\endsetslot

\setslot{period}
   \comment{The period `.'.}
\endsetslot

\setslot{slash}
   \comment{The forward oblique `/'.}
\endsetslot

\setslot{\digit{zero}}
   \comment{The number `0'.  This (and all the other numerals) may be
      old style or ranging digits.}
\endsetslot

\setslot{\digit{one}}
   \comment{The number `1'.}
\endsetslot

\setslot{\digit{two}}
   \comment{The number `2'.}
\endsetslot

\setslot{\digit{three}}
   \comment{The number `3'.}
\endsetslot

\setslot{\digit{four}}
   \comment{The number `4'.}
\endsetslot

\setslot{\digit{five}}
   \comment{The number `5'.}
```

```
\endsetslot

\setslot{\digit{six}}
   \comment{The number ‘6’.}
\endsetslot

\setslot{\digit{seven}}
   \comment{The number ‘7’.}
\endsetslot

\setslot{\digit{eight}}
   \comment{The number ‘8’.}
\endsetslot

\setslot{\digit{nine}}
   \comment{The number ‘9’.}
\endsetslot

\setslot{colon}
   \comment{The colon punctuation mark ‘:’.}
\endsetslot

\setslot{semicolon}
   \comment{The semi-colon punctuation mark ‘;’.}
\endsetslot

\setslot{less}
   \ligature{LIG}{less}{guillemotleft}
   \comment{The less-than sign ‘\textless’.}
\endsetslot

\setslot{equal}
   \comment{The equals sign ‘=’.}
\endsetslot

\setslot{greater}
   \ligature{LIG}{greater}{guillemotright}
   \comment{The greater-than sign ‘\textgreater’.}
\endsetslot

\setslot{question}
   \ligature{LIG}{quoteleft}{questiondown}
   \comment{The question mark ‘?’.}
\endsetslot

\setslot{at}
   \comment{The at sign ‘@’.}
\endsetslot

\setslot{\uc{A}{a}}
   \comment{The letter ‘{A}’.}
\endsetslot

\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}’.}
```

```
\endsetslot

\setslot{\lc{R}{r}}
   \comment{The letter ‘{r}’.}
\endsetslot

\ifnumber{\int{ligaturing}}<{-1}\then \skipslots{1}\Else

   \setslot{\lc{S}{s}}
      \comment{The letter ‘{s}’.}
   \endsetslot

\Fi

\setslot{\lc{T}{t}}
   \comment{The letter ‘{t}’.}
\endsetslot

\setslot{\lc{U}{u}}
   \comment{The letter ‘{u}’.}
\endsetslot

\setslot{\lc{V}{v}}
   \comment{The letter ‘{v}’.}
\endsetslot

\setslot{\lc{W}{w}}
   \comment{The letter ‘{w}’.}
\endsetslot

\setslot{\lc{X}{x}}
   \comment{The letter ‘{x}’.}
\endsetslot

\setslot{\lc{Y}{y}}
   \comment{The letter ‘{y}’.}
\endsetslot

\setslot{\lc{Z}{z}}
   \comment{The letter ‘{z}’.}
\endsetslot

\setslot{braceleft}
   \comment{The opening curly brace ‘\textbraceleft’.}
\endsetslot

\setslot{bar}
   \comment{The ASCII vertical bar ‘\textbar’.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{braceright}
   \comment{The closing curly brace ‘\textbraceright’.}
```

```
\endsetslot

\setslot{asciitilde}
   \comment{The ASCII tilde `\textasciitilde'.
      This is included for compatibility with typewriter fonts used
      for computer listings.}
\endsetslot

\setslot{hyphenchar}
   \comment{The glyph used for hyphenation in this font, which will
      almost always be the same as `hyphen'.}
\endsetslot

\setslot{\uctop{Abreve}{abreve}}
   \comment{The letter `\u A'.}
\endsetslot

\setslot{\uc{Aogonek}{aogonek}}
   \comment{The letter `\k A'.}
\endsetslot

\setslot{\uctop{Cacute}{cacute}}
   \comment{The letter `\' C'.}
\endsetslot

\setslot{\uctop{Ccaron}{ccaron}}
   \comment{The letter `\v C'.}
\endsetslot

\setslot{\uctop{Dcaron}{dcaron}}
   \comment{The letter `\v D'.}
\endsetslot

\setslot{\uctop{Ecaron}{ecaron}}
   \comment{The letter `\v E'.}
\endsetslot

\setslot{\uc{Eogonek}{eogonek}}
   \comment{The letter `\k E'.}
\endsetslot

\setslot{\uctop{Gbreve}{gbreve}}
   \comment{The letter `\u G'.}
\endsetslot

\setslot{\uctop{Lacute}{lacute}}
   \comment{The letter `\' L'.}
\endsetslot

\setslot{\uc{Lcaron}{lcaron}}
   \comment{The letter `\v L'.}
\endsetslot

\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’.}
```

```
\endsetslot

\setslot{\lctop{Dcaron}{dcaron}}
   \comment{The letter `\v d'.}
\endsetslot

\setslot{\lctop{Ecaron}{ecaron}}
   \comment{The letter `\v e'.}
\endsetslot

\setslot{\lc{Eogonek}{eogonek}}
   \comment{The letter `\k e'.}
\endsetslot

\setslot{\lctop{Gbreve}{gbreve}}
   \comment{The letter `\u g'.}
\endsetslot

\setslot{\lctop{Lacute}{lacute}}
   \comment{The letter `\' l'.}
\endsetslot

\setslot{\lc{Lcaron}{lcaron}}
   \comment{The letter `\v l'.}
\endsetslot

\setslot{\lc{Lslash}{lslash}}
   \comment{The letter `\l'.}
\endsetslot

\setslot{\lctop{Nacute}{nacute}}
   \comment{The letter `\' n'.}
\endsetslot

\setslot{\lctop{Ncaron}{ncaron}}
   \comment{The letter `\v n'.}
\endsetslot

\setslot{\lc{Eng}{eng}}
   \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.}
\endsetslot

\setslot{\lctop{Ohungarumlaut}{ohungarumlaut}}
   \comment{The letter `\H o'.}
\endsetslot

\setslot{\lctop{Racute}{racute}}
   \comment{The letter `\' r'.}
\endsetslot

\setslot{\lctop{Rcaron}{rcaron}}
```

```
   \comment{The letter `\v r'.}
\endsetslot

\setslot{\lctop{Sacute}{sacute}}
   \comment{The letter `\' s'.}
\endsetslot

\setslot{\lctop{Scaron}{scaron}}
   \comment{The letter `\v s'.}
\endsetslot

\setslot{\lc{Scedilla}{scedilla}}
   \comment{The letter `\c s'.}
\endsetslot

\setslot{\lctop{Tcaron}{tcaron}}
   \comment{The letter `\v t'.}
\endsetslot

\setslot{\lc{Tcedilla}{tcedilla}}
   \comment{The letter `\c t'.}
\endsetslot

\setslot{\lctop{Uhungarumlaut}{uhungarumlaut}}
   \comment{The letter `\H u'.}
\endsetslot

\setslot{\lctop{Uring}{uring}}
   \comment{The letter `\r u'.}
\endsetslot

\setslot{\lctop{Ydieresis}{ydieresis}}
   \comment{The letter `\" y'.}
\endsetslot

\setslot{\lctop{Zacute}{zacute}}
   \comment{The letter `\' z'.}
\endsetslot

\setslot{\lctop{Zcaron}{zcaron}}
   \comment{The letter `\v z'.}
\endsetslot

\setslot{\lctop{Zdotaccent}{zdotaccent}}
   \comment{The letter `\. z'.}
\endsetslot

\ifnumber{\int{ligaturing}}<{0}\then \skipslots{1}\Else

   \setslot{\lclig{IJ}{ij}}
      \comment{The letter `ij'.  This is a single letter, and in a
        monowidth font should ideally be one letter wide.}
   \endsetslot

```

```
\Fi

\setslot{exclamdown}
   \comment{The Spanish punctuation mark `!``.}
\endsetslot

\setslot{questiondown}
   \comment{The Spanish punctuation mark `?``.}
\endsetslot

\setslot{sterling}
   \comment{The British currency mark `\textsterling'.}
\endsetslot

\setslot{\uctop{Agrave}{agrave}}
   \comment{The letter `\` A'.}
\endsetslot

\setslot{\uctop{Aacute}{aacute}}
   \comment{The letter `\' A'.}
\endsetslot

\setslot{\uctop{Acircumflex}{acircumflex}}
   \comment{The letter `\^ A'.}
\endsetslot

\setslot{\uctop{Atilde}{atilde}}
   \comment{The letter `\~ A'.}
\endsetslot

\setslot{\uctop{Adieresis}{adieresis}}
   \comment{The letter `\" A'.}
\endsetslot

\setslot{\uctop{Aring}{aring}}
   \comment{The letter `\r A'.}
\endsetslot

\setslot{\uc{AE}{ae}}
   \comment{The letter `\AE'.  This is a single letter, and should not be
      faked with `AE'.}
\endsetslot

\setslot{\uc{Ccedilla}{ccedilla}}
   \comment{The letter `\c C'.}
\endsetslot

\setslot{\uctop{Egrave}{egrave}}
   \comment{The letter `\` E'.}
\endsetslot

\setslot{\uctop{Eacute}{eacute}}
   \comment{The letter `\' E'.}
\endsetslot
```

```
9135
9136 \setslot{\uctop{Ecircumflex}{ecircumflex}}
9137    \comment{The letter `\^ E'.}
9138 \endsetslot
9139
9140 \setslot{\uctop{Edieresis}{edieresis}}
9141    \comment{The letter `\" E'.}
9142 \endsetslot
9143
9144 \setslot{\uctop{Igrave}{igrave}}
9145    \comment{The letter `\` I'.}
9146 \endsetslot
9147
9148 \setslot{\uctop{Iacute}{iacute}}
9149    \comment{The letter `\' I'.}
9150 \endsetslot
9151
9152 \setslot{\uctop{Icircumflex}{icircumflex}}
9153    \comment{The letter `\^ I'.}
9154 \endsetslot
9155
9156 \setslot{\uctop{Idieresis}{idieresis}}
9157    \comment{The letter `\" 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 `\~ N'.}
9168 \endsetslot
9169
9170 \setslot{\uctop{Ograve}{ograve}}
9171    \comment{The letter `\` O'.}
9172 \endsetslot
9173
9174 \setslot{\uctop{Oacute}{oacute}}
9175    \comment{The letter `\' O'.}
9176 \endsetslot
9177
9178 \setslot{\uctop{Ocircumflex}{ocircumflex}}
9179    \comment{The letter `\^ O'.}
9180 \endsetslot
9181
9182 \setslot{\uctop{Otilde}{otilde}}
9183    \comment{The letter `\~ O'.}
9184 \endsetslot
9185
9186 \setslot{\uctop{Odieresis}{odieresis}}
9187    \comment{The letter `\" 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'.}
```

```
\endsetslot

\setslot{\lctop{Adieresis}{adieresis}}
   \comment{The letter `\" a'.}
\endsetslot

\setslot{\lctop{Aring}{aring}}
   \comment{The letter `\r a'.}
\endsetslot

\setslot{\lc{AE}{ae}}
   \comment{The letter `\ae'.  This is a single letter, and should not be
      faked with `ae'.}
\endsetslot

\setslot{\lc{Ccedilla}{ccedilla}}
   \comment{The letter `\c c'.}
\endsetslot

\setslot{\lctop{Egrave}{egrave}}
   \comment{The letter `\` e'.}
\endsetslot

\setslot{\lctop{Eacute}{eacute}}
   \comment{The letter `\' e'.}
\endsetslot

\setslot{\lctop{Ecircumflex}{ecircumflex}}
   \comment{The letter `\^ e'.}
\endsetslot

\setslot{\lctop{Edieresis}{edieresis}}
   \comment{The letter `\" e'.}
\endsetslot

\setslot{\lctop{Igrave}{igrave}}
   \comment{The letter `\`\i'.}
\endsetslot

\setslot{\lctop{Iacute}{iacute}}
   \comment{The letter `\'\i'.}
\endsetslot

\setslot{\lctop{Icircumflex}{icircumflex}}
   \comment{The letter `\^\i'.}
\endsetslot

\setslot{\lctop{Idieresis}{idieresis}}
   \comment{The letter `\"\i'.}
\endsetslot

\setslot{\lc{Eth}{eth}}
   \comment{The Icelandic lowercase letter `eth' similar to
     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'.}
```

```
\endsetslot

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

\setslot{\lc{SS}{germandbls}}
   \comment{The letter ‘\ss’.}
\endsetslot

\endencoding
```

4.3.13 t1j-f_f.etx

`t1j-f_f.etx` (*etx*)

```
\relax

```

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.

```

\encoding

\setcommand\lc#1#2{#2}
\setcommand\uc#1#2{#1}
\setcommand\lctop#1#2{#2}
\setcommand\uctop#1#2{#1}
\setcommand\lclig#1#2{#2}
\setcommand\uclig#1#2{#1}
\setcommand\digit#1{#1oldstyle}

\inputetx{t1-f_f}

\endencoding
```

4.3.14 ts1-dotinf.etx

`ts1-dotinf.etx` (*etx*)

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

```
%% - The file may be modified for use in encoding other characters.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax

\encoding

\setstr{codingscheme}{TEX TEXT COMPANION 1---TS1 DOTINF}

\ifisglyph{x}\then
   \setint{xheight}{\height{x}}
\else
   \setint{xheight}{500}
\fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\else
   \setint{interword}{333}
\fi\fi

\setint{italicslant}{0}


\setint{fontdimen(1)}{\int{italicslant}}              % italic slant
\setint{fontdimen(2)}{\int{interword}}                % interword space
\setint{fontdimen(3)}{0}                              % interword stretch
\setint{fontdimen(4)}{0}                              % interword shrink
\setint{fontdimen(5)}{\int{xheight}}                  % x-height
\setint{fontdimen(6)}{1000}                           % quad
\setint{fontdimen(7)}{\int{interword}}                % extra space after .

\nextslot{0}
\setslot{capitalgrave.inferior}
   \comment{The grave accent `\capitalgrave{}', intended for use with
      capital letters.}
\endsetslot

\setslot{capitalacute.inferior}
   \comment{The acute accent `\capitalacute{}', intended for use with
      capital letters.}
\endsetslot

\setslot{capitalcircumflex.inferior}
   \comment{The circumflex accent `\capitalcircumflex{}', intended for
      use with capital letters.}
\endsetslot

\setslot{capitaltilde.inferior}
   \comment{The tilde accent `\capitaltilde{}', intended for use with
      capital letters.}
\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}
```

```
    \comment{An invisible glyph, with zero width and depth, but the
      height of lowercase letters with ascenders.
      It is used to stop ligaturing in words like ‘shelf{}ful’.}
\endsetslot

\nextslot{32}
\setslot{blank.inferior}
   \comment{The blank indicator ‘\textblank’, similar to the letter ‘b’
      with an oblique bar throgh the stem.}
\endsetslot

\nextslot{36}
\setslot{dollar.inferior}
   \comment{The dollar sign ‘\textdollar’.}
\endsetslot

\nextslot{39}
\setslot{quotesingle.inferior}
   \comment{A straight single quote mark, ‘\textquotesingle’.}
\endsetslot

\nextslot{42}
\setslot{asteriskcentered.inferior}
   \comment{The centered asterisk, ‘\textasteriskcentered’.}
\endsetslot

\nextslot{44}
\setslot{comma.inferior}
   \comment{The decimal comma ‘,’.}
\endsetslot

\nextslot{45}
\setslot{hyphendbl.inferior}
   \comment{An alternate double hyphen, ‘\textdblhyphen’.}
\endsetslot

\nextslot{46}
\setslot{period.inferior}
   \comment{The decimal point ‘.’.}
\endsetslot

\nextslot{47}
\setslot{fraction.inferior}
   \comment{The fraction slash ‘\textfractionsolidus’.}
\endsetslot

\nextslot{48}
\setslot{zerooldstyle.inferior}
   \comment{The oldstyle number ‘\oldstylenums{0}’.}
\endsetslot

\setslot{oneoldstyle.inferior}
   \comment{The oldstyle number ‘\oldstylenums{1}’.}
\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.}
```

```
\endsetslot

\nextslot{100}
\setslot{died.inferior}
   \comment{The died symbol `\textdied', unavailable in most PostScript
      fonts.}
\endsetslot

\nextslot{108}
\setslot{leaf.inferior}
   \comment{The leaf symbol `\textleaf', unavailable in most PostScript
      fonts.}
\endsetslot

\nextslot{109}
\setslot{married.inferior}
   \comment{The married symbol `\textmarried', unavailable in most
      PostScript  fonts.}
\endsetslot

\nextslot{110}
\setslot{musicalnote.inferior}
   \comment{A musical note symbol `\textmusicalnote', unavailable in
      most PostScript fonts.}
\endsetslot

\nextslot{126}
\setslot{tildelow.inferior}
   \comment{A lowered tilde `\texttildelow'.  In most PostScript fonts
      it can be substituted by `asciitilde', while `\textasciitilde'
      is supposed to be a raised `tilde'.}
\endsetslot

\nextslot{127}
\setslot{hyphendblchar.inferior}
    \comment{The glyph used for hyphenation in this font, which will
      almost always be the same as `hyphendbl'.}
\endsetslot

\nextslot{128}
\setslot{asciibreve.inferior}
   \comment{An ASCII-style breve `\textasciibreve'. This is supposed
      to be a character by itself rather than a combining accents.}
\endsetslot

\setslot{asciicaron.inferior}
   \comment{An ASCII-style caron `\textasciicaron'. This is supposed
      to be a character by itself rather than a combining accents.}
\endsetslot

\setslot{asciiacutedbl.inferior}
   \comment{An ASCII-style double tick mark, `\textacutedbl'.}
\endsetslot
```

```
\setslot{asciigravedbl.inferior}
   \comment{An ASCII-style double backtick mark, `\textgravedbl'.}
\endsetslot

\setslot{dagger.inferior}
   \comment{The single dagger `\textdagger'.}
\endsetslot

\setslot{daggerdbl.inferior}
   \comment{The double dagger `\textdaggerdbl'.}
\endsetslot

\setslot{bardbl.inferior}
   \comment{The double vertical bar `\textbardbl'.}
\endsetslot

\setslot{perthousand.inferior}
   \comment{The perthousand sign `\textperthousand'.}
\endsetslot

\setslot{bullet.inferior}
   \comment{The centered bullet `\textbullet'.}
\endsetslot

\setslot{centigrade.inferior}
   \comment{The degree centigrade symbol `\textcelsius'.}
\endsetslot

\setslot{dollaroldstyle.inferior}
   \comment{An oldstyle dollar sign `\textdollaroldstyle'.}
\endsetslot

\setslot{centoldstyle.inferior}
   \comment{An oldstyle cent sign `\textcentoldstyle'.}
\endsetslot

\setslot{florin.inferior}
   \comment{The florin sign `\textflorin'.}
\endsetslot

\setslot{colonmonetary.inferior}
   \comment{The Colon currency sign `\textcolonmonetary', similar to
      a capital `C' with a vertical bar through the middle.}
\endsetslot

\setslot{won.inferior}
   \comment{The Won currency sign `\textwon', similar to a capital `W'
      with two horizontal bars.}
\endsetslot

\setslot{naira.inferior}
   \comment{The Naira currency sign `\textnaira', similar to a
      capital `N' with two horizontal bars.}
\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'.}
```

```
\endsetslot

\setslot{brokenbar.inferior}
   \comment{A broken vertical bar, `\textbrokenbar', similar to
      `\textbar' with a gap through the middle.}
\endsetslot

\setslot{section.inferior}
   \comment{The section mark `\textsection'.}
\endsetslot

\setslot{asciidieresis.inferior}
   \comment{An ASCII-style dieresis `\textasciidieresis'. This is
       supposed to be character by itself  rather than an accents.}
\endsetslot

\setslot{copyright.inferior}
   \comment{The copyright sign `\textcopyright',  similar to a small
       letter `C' enclosed by a circle.}
\endsetslot

\setslot{ordfeminine.inferior}
   \comment{The raised letter `\textordfeminine'.}
\endsetslot

\setslot{copyleft.inferior}
   \comment{The reversed copyright sign `\textcopyleft', similar to
      a small reversed `C' enclosed by a circle.}
\endsetslot

\setslot{logicalnot.inferior}
   \comment{The logical not sign `\textlnot'.}
\endsetslot

\setslot{circledP.inferior}
   \comment{A small letter `P' enclosed by a circle, `\textcircledP',
      unavailable in most fonts.}
\endsetslot

\setslot{registered.inferior}
   \comment{The registered trademark sign `\textregistered', similar to
      a small letter `R' enclosed by a circle.}
\endsetslot

\setslot{asciimacron.inferior}
   \comment{An ASCII-style macron `\textasciimacron'. This is supposed
      to be a character by itself rather than a combining accents.}
\endsetslot

\setslot{degree.inferior}
   \comment{The degree sign `\textdegree'.}
\endsetslot

\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{asciiacute.inferior}
9995    \comment{An ASCII-style acute ‘\textasciiacute’. 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’.}
```

```
\endsetslot

\setslot{threequarters.inferior}
   \comment{The fraction `\textthreequarters'.}
\endsetslot

\setslot{Euro.inferior}
   \comment{The European currency sign, similar to `\texteuro'.}
\endsetslot


\nextslot{214}
\setslot{multiply.inferior}
   \comment{The multiplication sign `\texttimes'.
      This symbol was originally intended to be put into slot~215,
      but ended up in this slot by mistake, at which time it was
      considered too late to change it.}
\endsetslot

\nextslot{246}
\setslot{divide.inferior}
   \comment{The divison sign `\textdiv'.
      This symbol was originally intended to be put into slot~247,
      but ended up in this slot by mistake, at which time it was
      onsidered too late to change it.}
\endsetslot

\endencoding
```

4.3.15 ts1-dotsup.etx

`ts1-dotsup.etx` (*etx*)

```
%%
%% - The commentary in the original is deleted in this version. For
%% information about the TS1 etc., typeset the original ts1.etx
%% included with fontinst.
%% - The original notices at the top of that file concerning authors,
%% maintenance etc. are replaced by this notice.
%% - The file is renamed.
%% - The encoding name is modified.
%% - The file is modified to accommodate differences in glyph names.
%% - The file may be modified for use in encoding other characters.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\relax

\encoding

\setstr{codingscheme}{TEX TEXT COMPANION 1---TS1 DOTSUP}

\ifisglyph{x}\then
```

```
   \setint{xheight}{\height{x}}
\else
   \setint{xheight}{500}
\fi

\ifisglyph{space}\then
   \setint{interword}{\width{space}}
\else\ifisglyph{i}\then
   \setint{interword}{\width{i}}
\else
   \setint{interword}{333}
\fi\fi

\setint{italicslant}{0}


\setint{fontdimen(1)}{\int{italicslant}}              % italic slant
\setint{fontdimen(2)}{\int{interword}}                % interword space
\setint{fontdimen(3)}{0}                              % interword stretch
\setint{fontdimen(4)}{0}                              % interword shrink
\setint{fontdimen(5)}{\int{xheight}}                  % x-height
\setint{fontdimen(6)}{1000}                           % quad
\setint{fontdimen(7)}{\int{interword}}                % extra space after .

\nextslot{0}
\setslot{capitalgrave.superior}
   \comment{The grave accent `\capitalgrave{}', intended for use with
      capital letters.}
\endsetslot

\setslot{capitalacute.superior}
   \comment{The acute accent `\capitalacute{}', intended for use with
      capital letters.}
\endsetslot

\setslot{capitalcircumflex.superior}
   \comment{The circumflex accent `\capitalcircumflex{}', intended for
      use with capital letters.}
\endsetslot

\setslot{capitaltilde.superior}
   \comment{The tilde accent `\capitaltilde{}', intended for use with
      capital letters.}
\endsetslot

\setslot{capitaldieresis.superior}
   \comment{The umlaut or dieresis accent `\capitaldieresis{}',
      intended for use with capital letters.}
\endsetslot

\setslot{capitalhungarumlaut.superior}
   \comment{The long Hungarian umlaut `\capitalhungarumlaut{}',
      intended for use with capital letters.}
\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 throgh 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’.}
```

```
\endsetslot

\setslot{bardbl.superior}
   \comment{The double vertical bar ‘\textbardbl’.}
\endsetslot

\setslot{perthousand.superior}
   \comment{The perthousand sign ‘\textperthousand’.}
\endsetslot

\setslot{bullet.superior}
   \comment{The centered bullet ‘\textbullet’.}
\endsetslot

\setslot{centigrade.superior}
   \comment{The degree centigrade symbol ‘\textcelsius’.}
\endsetslot

\setslot{dollaroldstyle.superior}
   \comment{An oldstyle dollar sign ‘\textdollaroldstyle’.}
\endsetslot

\setslot{centoldstyle.superior}
   \comment{An oldstyle cent sign ‘\textcentoldstyle’.}
\endsetslot

\setslot{florin.superior}
   \comment{The florin sign ‘\textflorin’.}
\endsetslot

\setslot{colonmonetary.superior}
   \comment{The Colon currency sign ‘\textcolonmonetary’, similar to
      a capital ‘C’ with a vertical bar through the middle.}
\endsetslot

\setslot{won.superior}
   \comment{The Won currency sign ‘\textwon’, similar to a capital ‘W’
      with two horizontal bars.}
\endsetslot

\setslot{naira.superior}
   \comment{The Naira currency sign ‘\textnaira’, similar to a
      capital ‘N’ with two horizontal bars.}
\endsetslot

\setslot{guarani.superior}
   \comment{The Guarani currency sign ‘\textguarani’,  similar to
      a capital ‘G’ with a vertical bar through the middle.}
\endsetslot

\setslot{peso.superior}
   \comment{The Peso currency sign ‘\textpeso’, similar to a capital ‘P’
      with a horizontal bar through the bowl or below the bowl.}
\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{asciiacute.superior}
10681    \comment{An ASCII-style acute ‘\textasciiacute’. 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.}
```

```
\endsetslot

\setslot{capitalmacron}
   \comment{The macron accent `\capitalmacron{}', intended for use with
      capital letters.}
\endsetslot

\setslot{capitaldotaccent}
   \comment{The dot accent `\capitaldotaccent{}', intended for use with
      capital letters.}
\endsetslot

\setslot{cedilla}
   \comment{The cedilla accent `\capitalcedilla{}', intended for use
      with capital letters.}
\endsetslot

\setslot{ogonek}
   \comment{The ogonek accent `\capitalogonek{}', intended for use with
      capital letters.}
\endsetslot

\nextslot{13}
\setslot{quotesinglbase}
   \comment{A straight single quote mark on the baseline,
      `\textquotestraightbase'.}
\endsetslot

\nextslot{18}
\setslot{quotedblbase}
   \comment{A straight double quote mark on the baseline,
      `\textquotestraightdblbase'.}
\endsetslot

\nextslot{21}
\setslot{twelveudash}
   \comment{A 2/3~em dash, `\texttwelveudash'.}
\endsetslot

\setslot{threequartersemdash}
   \comment{A 3/4~em dash, `\textthreequartersemdash'.}
\endsetslot

\nextslot{23}
\setslot{capitalcompwordmark}
    \comment{An invisible glyph, with zero width and depth, but the
      height of capital letters.
      It is used to stop ligaturing in words like `shelf{}ful'.}
\endsetslot

\nextslot{24}
\setslot{arrowleft}
   \comment{A left pointing arrow, `\textleftarrow', unavailable in
      most PostScript fonts.}
```

```
\endsetslot

\setslot{arrowright}
   \comment{A right pointing arrow, `\textrightarrow', unavailable in
      most PostScript fonts.}
\endsetslot

\nextslot{26}
\setslot{tieaccentlowercase}
   \comment{The original tie accent `\t{}', intended for use with
      lowercase letters.}
\endsetslot

\setslot{tieaccentcapital}
   \comment{The tie accent `\capitaltie{}', intended for use with
      capital letters.}
\endsetslot

\setslot{newtieaccentlowercase}
   \comment{A new tie accent `\newtie{}', intended for use with
      lowercase letters.}
\endsetslot

\setslot{newtieaccentcapital}
   \comment{A new tie accent `\capitalnewtie{}', intended for use
      with capital letters.}
\endsetslot

\nextslot{31}
\setslot{ascendercompwordmark}
    \comment{An invisible glyph, with zero width and depth, but the
      height of lowercase letters with ascenders.
      It is used to stop ligaturing in words like `shelf{}ful'.}
\endsetslot

\nextslot{32}
\setslot{blank}
   \comment{The blank indicator `\textblank', similar to the letter `b'
      with an oblique bar throgh the stem.}
\endsetslot

\nextslot{36}
\setslot{dollar}
   \comment{The dollar sign `\textdollar'.}
\endsetslot

\nextslot{39}
\setslot{quotesingle}
   \comment{A straight single quote mark, `\textquotesingle'.}
\endsetslot

\nextslot{42}
\setslot{asteriskcentered}
   \comment{The centered asterisk, `\textasteriskcentered'.}
```

```
\endsetslot

\nextslot{44}
\setslot{comma}
   \comment{The decimal comma ‘,’.}
\endsetslot

\nextslot{45}
\setslot{hyphendbl}
   \comment{An alternate double hyphen, ‘\textdblhyphen’.}
\endsetslot

\nextslot{46}
\setslot{period}
   \comment{The decimal point ‘.’.}
\endsetslot

\nextslot{47}
\setslot{fraction}
   \comment{The fraction slash ‘\textfractionsolidus’.}
\endsetslot

\nextslot{48}
\setslot{zerooldstyle}
   \comment{The oldstyle number ‘\oldstylenums{0}’.}
\endsetslot

\setslot{oneoldstyle}
   \comment{The oldstyle number ‘\oldstylenums{1}’.}
\endsetslot

\setslot{twooldstyle}
   \comment{The oldstyle number ‘\oldstylenums{2}’.}
\endsetslot

\setslot{threeoldstyle}
   \comment{The oldstyle number ‘\oldstylenums{3}’.}
\endsetslot

\setslot{fouroldstyle}
   \comment{The oldstyle number ‘\oldstylenums{4}’.}
\endsetslot

\setslot{fiveoldstyle}
   \comment{The oldstyle number ‘\oldstylenums{5}’.}
\endsetslot

\setslot{sixoldstyle}
   \comment{The oldstyle number ‘\oldstylenums{6}’.}
\endsetslot

\setslot{sevenoldstyle}
   \comment{The oldstyle number ‘\oldstylenums{7}’.}
\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.}
```

```
\endsetslot

\nextslot{94}
\setslot{arrowup}
   \comment{An upwards pointing arrow `\textuparrow', unavailable in
      most PostScript fonts.}
\endsetslot

\nextslot{95}
\setslot{arrowdown}
   \comment{An downwards pointing arrow `\textdownarrow', unavailable
      in most PostScript fonts.}
\endsetslot

\nextslot{96}
\setslot{asciigrave}
   \comment{An ASCII-style grave `\textasciigrave'. This is supposed
      to be a character by itself rather than a combining accents.}
\endsetslot

\nextslot{98}
\setslot{born}
   \comment{The born symbol `\textborn', unavailable in most PostScript
      fonts.}
\endsetslot

\nextslot{99}
\setslot{divorced}
   \comment{The divorced symbol `\textdivorced', unavailable in most
      PostScript fonts.}
\endsetslot

\nextslot{100}
\setslot{died}
   \comment{The died symbol `\textdied', unavailable in most PostScript
      fonts.}
\endsetslot

\nextslot{108}
\setslot{leaf}
   \comment{The leaf symbol `\textleaf', unavailable in most PostScript
      fonts.}
\endsetslot

\nextslot{109}
\setslot{married}
   \comment{The married symbol `\textmarried', unavailable in most
      PostScript  fonts.}
\endsetslot

\nextslot{110}
\setslot{musicalnote}
   \comment{A musical note symbol `\textmusicalnote', unavailable in
      most PostScript fonts.}
```

```
\endsetslot

\nextslot{126}
\setslot{tildelow}
   \comment{A lowered tilde `\texttildelow'.  In most PostScript fonts
      it can be substituted by `asciitilde', while `\textasciitilde'
      is supposed to be a raised `tilde'.}
\endsetslot

\nextslot{127}
\setslot{hyphendblchar}
    \comment{The glyph used for hyphenation in this font, which will
      almost always be the same as `hyphendbl'.}
\endsetslot

\nextslot{128}
\setslot{asciibreve}
   \comment{An ASCII-style breve `\textasciibreve'. This is supposed
      to be a character by itself rather than a combining accents.}
\endsetslot

\setslot{asciicaron}
   \comment{An ASCII-style caron `\textasciicaron'. This is supposed
      to be a character by itself rather than a combining accents.}
\endsetslot

\setslot{asciiacutedbl}
   \comment{An ASCII-style double tick mark, `\textacutedbl'.}
\endsetslot

\setslot{asciigravedbl}
   \comment{An ASCII-style double backtick mark, `\textgravedbl'.}
\endsetslot

\setslot{dagger}
   \comment{The single dagger `\textdagger'.}
\endsetslot

\setslot{daggerdbl}
   \comment{The double dagger `\textdaggerdbl'.}
\endsetslot

\setslot{bardbl}
   \comment{The double vertical bar `\textbardbl'.}
\endsetslot

\setslot{perthousand}
   \comment{The perthousand sign `\textperthousand'.}
\endsetslot

\setslot{bullet}
   \comment{The centered bullet `\textbullet'.}
\endsetslot

```

```
\setslot{centigrade}
   \comment{The degree centigrade symbol ‘\textcelsius’.}
\endsetslot

\setslot{dollaroldstyle}
   \comment{An oldstyle dollar sign ‘\textdollaroldstyle’.}
\endsetslot

\setslot{centoldstyle}
   \comment{An oldstyle cent sign ‘\textcentoldstyle’.}
\endsetslot

\setslot{florin}
   \comment{The florin sign ‘\textflorin’.}
\endsetslot

\setslot{colonmonetary}
   \comment{The Colon currency sign ‘\textcolonmonetary’, similar to
      a capital ‘C’ with a vertical bar through the middle.}
\endsetslot

\setslot{won}
   \comment{The Won currency sign ‘\textwon’, similar to a capital ‘W’
      with two horizontal bars.}
\endsetslot

\setslot{naira}
   \comment{The Naira currency sign ‘\textnaira’, similar to a
      capital ‘N’ with two horizontal bars.}
\endsetslot

\setslot{guarani}
   \comment{The Guarani currency sign ‘\textguarani’,  similar to
      a capital ‘G’ with a vertical bar through the middle.}
\endsetslot

\setslot{peso}
   \comment{The Peso currency sign ‘\textpeso’, similar to a capital ‘P’
      with a horizontal bar through the bowl or below the bowl.}
\endsetslot

\setslot{lira}
   \comment{The Lira currency sign ‘\textlira’, similar to a sterling
      sign ‘\textsterling’ with two horizontal bars.}
\endsetslot

\setslot{recipe}
   \comment{The recipe symbol ‘\textrecipe’, similar to a capital ‘R’
      with an oblique bar through the tail.}
\endsetslot

\setslot{interrobang}
   \comment{The interrobang symbol ‘\textinterrobang’, similar to
      a combination of an exclamation mark and a question mark.}
```

```
\endsetslot

\setslot{interrobangdown}
   \comment{The inverted interrobang symbol ‘\textinterrobangdown’,
      similar to a combination of an inverted exclamation mark
      and an inverted question mark.}
\endsetslot

\setslot{dong}
   \comment{The Dong currency sign ‘\textdong’, similar to a lowercase
      ‘d’  with a horizontal bar through the stem and another bar below
      the letter.}
\endsetslot

\setslot{trademark}
   \comment{The trademark sign ‘\texttrademark’, similar to the raised
     letters ‘TM’.}
\endsetslot

\setslot{pertenthousand}
   \comment{The pertenthousand sign ‘\textpertenthousand’, unavailable
     in most PostScript fonts.}
\endsetslot

\setslot{pilcrow}
   \comment{The pilcrow mark ‘\textpilcrow’, similar to a paragraph
      mark ‘\textparagraph’ with a single stem.}
\endsetslot

\setslot{baht}
   \comment{The Baht currency sign ‘\textbaht’, similar to a capital ‘B’
      with a vertical bar through the middle.}
\endsetslot

\setslot{numero}
   \comment{The numero sign ‘\textnumero’, similar to the letter ‘N’
      with a raised ‘o’, unavailable in most PostScript fonts.}
\endsetslot

\setslot{discount}
   \comment{The discount sign ‘\textdiscount’, similar to a stylized
      percent sign, unavailable in most PostScript fonts.}
\endsetslot

\setslot{estimated}
   \comment{The estimated sign ‘\textestimated’, similar to an enlarged
      lowercase ‘e’, unavailable in most PostScript fonts.}
\endsetslot

\setslot{openbullet}
   \comment{The centered open bullet ‘\textopenbullet’’, unavailable
      in most PostScript fonts.}
\endsetslot

```

```
\setslot{servicemark}
   \comment{The service mark sign ‘\textservicemark’, similar to the
      raised letters ‘SM’, unavailable in most PostScript fonts.}
\endsetslot

\nextslot{160}
\setslot{quillbracketleft}
   \comment{The opening quill bracket ‘\textlquill’, unavailable in
      most PostScript fonts.}
\endsetslot

\setslot{quillbracketright}
   \comment{The closing quill bracket ‘\textrquill’, unavailable in
      most PostScript fonts.}
\endsetslot

\setslot{cent}
   \comment{The cent sign ‘\textcent’.}
\endsetslot

\setslot{sterling}
   \comment{The British currency sign, ‘\textsterling’.}
\endsetslot

\setslot{currency}
   \comment{The international currency sign, ‘\textcurrency’.}
\endsetslot

\setslot{yen}
   \comment{The Japanese currency sign, ‘\textyen’.}
\endsetslot

\setslot{brokenbar}
   \comment{A broken vertical bar, ‘\textbrokenbar’, similar to
      ‘\textbar’ with a gap through the middle.}
\endsetslot

\setslot{section}
   \comment{The section mark ‘\textsection’.}
\endsetslot

\setslot{asciidieresis}
   \comment{An ASCII-style dieresis ‘\textasciidieresis’. This is
       supposed to be character by itself  rather than an accents.}
\endsetslot

\setslot{copyright}
   \comment{The copyright sign ‘\textcopyright’,  similar to a small
       letter ‘C’ enclosed by a circle.}
\endsetslot

\setslot{ordfeminine}
   \comment{The raised letter ‘\textordfeminine’.}
\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{asciiacute}
11363    \comment{An ASCII-style acute ‘\textasciiacute’. 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
    encoded.
11423   The TS1 encoding will use the previous slot when the font is actually used by
    tex.
11424   At least, I think so.
11425   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. (?!)}
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.

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