The B1 encoding files*

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Abstract

A set of encoding files are provided for the B1 encoding for the `bookhands` fonts.

Contents

1 Introduction

The `bookhands` fonts have several glyphs that are not in modern fonts while also excluding many of the modern glyphs. I have created a new encoding for the `bookhands` which I have called B1, or TeXBookHands1 (TeXBH1).

To use the B1 encoding you need to have at least the files `b1enc.def` (similar to `t1enc.def`) and `b1cmr.fd` (similar to `t1cmr.fd`) installed on your LaTeX system.

To use a B1 encoded font in a document the preamble must have at least:
`\usepackage[...,B1,...]{fontenc}`

This manual is typeset according to the conventions of the LaTeX DOC-STRIP utility which enables the automatic extraction of the LaTeX macro source files [MG04].

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2   The code

2.1   The b1enc.def file

The b1enc.def file is the B1 encoding's equivalent to the T1 encoding's t1enc.def, the original of which is maintained in the kernel's ltoutenc.dtx file.

This file should be put somewhere where LaTeX will look for *.def files. For example: /usr/TeX/texmf-local/tex/latex/bookhands/b1enc.def.

```
 1 ⟨∗B1⟩
 2 \ProvidesFile{b1enc.def}
 3  [2005/08/09 v0.1
 4        Definitions for the TeXBookhands1 encoding]
 5 \DeclareFontEncoding{B1}{}{}
```

The majority of the accents. I keep slots (o000/h00/d0), (o012/h0A/d10) and (o015/h0D/d13) empty; glyphs that would normally be in those slots are moved further down.

```
 6 %%\DeclareTextAccent{\'}{B1}{0}% see 23
 7 \DeclareTextAccent{\'}{B1}{1}
 8 \DeclareTextAccent{\^}{B1}{2}
 9 \DeclareTextAccent{\~}{B1}{3}
10 \DeclareTextAccent{\"}{B1}{4}
11 \DeclareTextAccent{\H}{B1}{5}
12 \DeclareTextAccent{\r}{B1}{6}
13 \DeclareTextAccent{\v}{B1}{7}
14 \DeclareTextAccent{\u}{B1}{8}
15 \DeclareTextAccent{\=}{B1}{9}
16 %%\DeclareTextAccent{\.}{B1}{10}% see 24
```

Some accents are built by hand.

```
17 %%% barunder (\b) 9
18 \DeclareTextCommand{\b}{B1}[1]
19   {\hmode@bgroup\o@lign{\relax#1\crcr\hidewidth\sh@ft{29}%
20     \vbox to.2ex{\hbox{\char9}\vss}\hidewidth}\egroup}
21 %%% cedilla (\c) 11
22 \DeclareTextCommand{\c}{B1}[1]
23   {\leavevmode\setbox\z@\hbox{#1}\ifdim\ht\z@=1ex\accent11 #1%
24     \else{\ooalign{\hidewidth\char11\hidewidth
25       \crcr\unhbox\z@}}\fi}
26 %%% dotunder (\d)
27 \DeclareTextCommand{\d}{B1}[1]
28   {\hmode@bgroup
29    \o@lign{\relax#1\crcr\hidewidth\sh@ft{10}.\hidewidth}\egroup}
30 %%% ogonek 12
31 \DeclareTextCommand{\k}{B1}[1]
32   {\oalign{\null#1\crcr\hidewidth\char12}}
33 %%\DeclareTextCommand{\textperthousand}{B1}
34 %%   {\%\char 24 }          % space or 'relax as delimiter?
35 %%\DeclareTextCommand{\textpertenthousand}{B1}
36 %%   {\%\char 24\char 24 }  % space or 'relax as delimiter?
```

Punctuation marks.

```
37 %%\DeclareTextSymbol{\quotesinglbase}{B1}{13}
38 \DeclareTextSymbol{\guilsinglleft}{B1}{14}
39 \DeclareTextSymbol{\guilsinglright}{B1}{15}
40 \DeclareTextSymbol{\textquotedblleft}{B1}{16}
41 \DeclareTextSymbol{\textquotedblright}{B1}{17}
42 \DeclareTextSymbol{\quotedblbase}{B1}{18}
43 \DeclareTextSymbol{\guillemotleft}{B1}{19}
44 \DeclareTextSymbol{\guillemotright}{B1}{20}
45 \DeclareTextSymbol{\textendash}{B1}{21}
46 \DeclareTextSymbol{\textemdash}{B1}{22}
47 \DeclareTextAccent{\'}{B1}{23}
48 %%%\DeclareTextSymbol{\textcompwordmark}{B1}{23}
49 \DeclareTextAccent{\.}{B1}{24}
50 \DeclareTextSymbol{\i}{B1}{25}
51 \DeclareTextSymbol{\j}{B1}{26}
```

The 'f' ligatures, which TeX takes care of.

```
%% ff 27, fi 28, fl 29, ffi 30, ffl 31
```

A few other symbols, but on the whole we are into ASCII territory.

```
52 \DeclareTextSymbol{\textvisiblespace}{B1}{32}
53 \DeclareTextSymbol{\textquotedbl}{B1}{`\"}% 34
54 %%% # 35
55 \DeclareTextSymbol{\textdollar}{B1}{`\$}% 36
56 %%% % 37
57 %%% & 38
58 \DeclareTextSymbol{\textquoteright}{B1}{`\'}% 39
```

```
%% ( 40, ) 41, * 42, + 43, , 44, - 45, . 46, / 47,
%% 0 48, 1 49, 2 50, 3 51, 4 52, 5 53, 6 54, 7 55, 8 56, 9 57,
%% : 58, ; 59,
```

A couple more symbols.

```
59 \DeclareTextSymbol{\textless}{B1}{`\<}% 60
60 %%% = 61
61 \DeclareTextSymbol{\textgreater}{B1}{`\>}% 62
```

Back into normal ASCII mode.

```
%% ? 63, @ 64,
%% A 65, B 66, C 67, D 68, E 69, F 70, G 71, H 72, I 73, J 74,
%% K 75, L 76, M 77, N 78, O 79, P 80, Q 81, R 82, S 83, T 84,
%% U 85, V 86, W 87, X 88, Y 89, Z 90,
%% [ 91, \ 92,
```

Another little symbol group.

```
62 \DeclareTextSymbol{\textbackslash}{B1}{`\\}% 92
63 %%% ] 93
64 \DeclareTextSymbol{\textasciicircum}{B1}{`\^}% 94
65 \DeclareTextSymbol{\textunderscore}{B1}{95}
66 \DeclareTextSymbol{\textquoteleft}{B1}{`\'}% 96

%% a 97,  b 98,  c 99,  d 100, e 101, f 102, g 103, h 104, i 105, j 106,
%% k 107, l 108, m 109, n 110, o 111, p 112, q 113, r 114, s 115, t 116,
%% u 117, v 118, w 119, x 120, y 121, z 122,
```

Now we are into the post-ASCII realm. Most of the remainder are accented characters,

```
67 \DeclareTextComposite{\.}{B1}{i}{`\i}%
68 \DeclareTextComposite{\.}{B1}{\i}{`\i}%
69 \DeclareTextSymbol{\textbraceleft}{B1}{`\{}% 123
70 \DeclareTextSymbol{\textbar}{B1}{`\|}% 124
71 \DeclareTextSymbol{\textbraceright}{B1}{`\}}% 125
72 \DeclareTextSymbol{\textasciitilde}{B1}{`\~}% 126
```

Replace T1 Ă by \quotesinglbase.

```
73 %%\DeclareTextComposite{\u}{B1}{A}{128}
74 \DeclareTextSymbol{\quotesinglbase}{B1}{128}
75 \DeclareTextComposite{\k}{B1}{A}{129}
76 \DeclareTextComposite{\'}{B1}{C}{130}
77 \DeclareTextComposite{\v}{B1}{C}{131}
78 \DeclareTextComposite{\v}{B1}{D}{132}
79 \DeclareTextComposite{\v}{B1}{E}{133}
80 \DeclareTextComposite{\k}{B1}{E}{134}
```

Replace T1 Ğ by \textparagraph.

```
81 %%\DeclareTextComposite{\u}{B1}{G}{135}
82 \DeclareTextSymbol{\textparagraph}{B1}{135}
83 \DeclareTextComposite{\'}{B1}{L}{136}
84 \DeclareTextComposite{\v}{B1}{L}{137}
85 \DeclareTextSymbol{\L}{B1}{138}
86 \DeclareTextComposite{\'}{B1}{N}{139}
87 \DeclareTextComposite{\v}{B1}{N}{140}
88 \DeclareTextSymbol{\NG}{B1}{141}
89 \DeclareTextComposite{\H}{B1}{O}{142}
90 \DeclareTextComposite{\'}{B1}{R}{143}
91 \DeclareTextComposite{\v}{B1}{R}{144}
92 \DeclareTextComposite{\'}{B1}{S}{145}
93 \DeclareTextComposite{\v}{B1}{S}{146}
```

Replace T1 Ş by \textslongt — the (long) s-t ligature.

```
94 %%\DeclareTextComposite{\c}{B1}{S}{147}
95 %% longs-t ligature {147}
96 \DeclareTextSymbol{\textslongt}{B1}{147}
97 \DeclareTextComposite{\v}{B1}{T}{148}
```

Replace T1 Ţ by `\texthalfr` — a half r glyph

```
98  %%\DeclareTextComposite{\c}{B1}{T}{149}
99  %% half-r {149}
100 \DeclareTextSymbol{\textrhalf}{B1}{149}
101 \DeclareTextComposite{\H}{B1}{U}{150}
102 \DeclareTextComposite{\r}{B1}{U}{151}
103 \DeclareTextComposite{\"}{B1}{Y}{152}
104 \DeclareTextComposite{\'}{B1}{Z}{153}
105 \DeclareTextComposite{\v}{B1}{Z}{154}
106 \DeclareTextComposite{\.}{B1}{Z}{155}
107 \DeclareTextComposite{\.}{B1}{I}{157}
108 \DeclareTextSymbol{\dj}{B1}{158}
109 \DeclareTextSymbol{\textsection}{B1}{159}
```

Replace T1 ă by `\textslong` — the long s glyph

```
110 %%\DeclareTextComposite{\u}{B1}{a}{160}
111 \DeclareTextSymbol{\textslong}{B1}{160}
112 \DeclareTextComposite{\k}{B1}{a}{161}
113 \DeclareTextComposite{\'}{B1}{c}{162}
114 \DeclareTextComposite{\v}{B1}{c}{163}
115 \DeclareTextComposite{\v}{B1}{d}{164}
116 \DeclareTextComposite{\v}{B1}{e}{165}
117 \DeclareTextComposite{\k}{B1}{e}{166}
```

Replace T1 ğ by `\textet` — the e-t ligature (this is not the &).

```
118 %%\DeclareTextComposite{\u}{B1}{g}{167}
119 %% e-t ligature {167}
120 \DeclareTextSymbol{\textet}{B1}{167}
121 \DeclareTextComposite{\'}{B1}{l}{168}
122 \DeclareTextComposite{\v}{B1}{l}{169}
123 \DeclareTextSymbol{\l}{B1}{170}
124 \DeclareTextComposite{\'}{B1}{n}{171}
125 \DeclareTextComposite{\v}{B1}{n}{172}
126 \DeclareTextSymbol{\ng}{B1}{173}
127 \DeclareTextComposite{\H}{B1}{o}{174}
128 \DeclareTextComposite{\'}{B1}{r}{175}
129 \DeclareTextComposite{\v}{B1}{r}{176}
130 \DeclareTextComposite{\'}{B1}{s}{177}
131 \DeclareTextComposite{\v}{B1}{s}{178}
```

Replace the T1 ş by `\textst` — the (short) s-t ligature

```
132 %%\DeclareTextComposite{\c}{B1}{s}{179}
133 %% s-t ligature {179}
134 \DeclareTextSymbol{\textst}{B1}{179}
135 \DeclareTextComposite{\v}{B1}{t}{180}
```

Replace the T1 ţ by `\textct` — the c-t ligature

```
136 %%\DeclareTextComposite{\c}{B1}{t}{181}
137 %% c-t ligature {181}
138 \DeclareTextSymbol{\textct}{B1}{181}
139 \DeclareTextComposite{\H}{B1}{u}{182}
```

```
140 \DeclareTextComposite{\r}{B1}{u}{183}
141 \DeclareTextComposite{\"}{B1}{y}{184}
142 \DeclareTextComposite{\'}{B1}{z}{185}
143 \DeclareTextComposite{\v}{B1}{z}{186}
144 \DeclareTextComposite{\.}{B1}{z}{187}
145 \DeclareTextSymbol{\textexclamdown}{B1}{189}
146 \DeclareTextSymbol{\textquestiondown}{B1}{190}
147 \DeclareTextSymbol{\textsterling}{B1}{191}
148 \DeclareTextComposite{\`}{B1}{A}{192}
149 \DeclareTextComposite{\'}{B1}{A}{193}
150 \DeclareTextComposite{\^}{B1}{A}{194}
151 \DeclareTextComposite{\~}{B1}{A}{195}
152 \DeclareTextComposite{\"}{B1}{A}{196}
153 \DeclareTextComposite{\r}{B1}{A}{197}
154 \DeclareTextSymbol{\AE}{B1}{198}
155 \DeclareTextComposite{\c}{B1}{C}{199}
156 \DeclareTextComposite{\`}{B1}{E}{200}
157 \DeclareTextComposite{\'}{B1}{E}{201}
158 \DeclareTextComposite{\^}{B1}{E}{202}
159 \DeclareTextComposite{\"}{B1}{E}{203}
160 \DeclareTextComposite{\`}{B1}{I}{204}
161 \DeclareTextComposite{\'}{B1}{I}{205}
162 \DeclareTextComposite{\^}{B1}{I}{206}
163 \DeclareTextComposite{\"}{B1}{I}{207}
164 \DeclareTextSymbol{\DH}{B1}{208}
165 \DeclareTextSymbol{\DJ}{B1}{208}
166 \DeclareTextComposite{\~}{B1}{N}{209}
167 \DeclareTextComposite{\`}{B1}{O}{210}
168 \DeclareTextComposite{\'}{B1}{O}{211}
169 \DeclareTextComposite{\^}{B1}{O}{212}
170 \DeclareTextComposite{\~}{B1}{O}{213}
171 \DeclareTextComposite{\"}{B1}{O}{214}
172 \DeclareTextSymbol{\OE}{B1}{215}
173 \DeclareTextSymbol{\O}{B1}{216}
174 \DeclareTextComposite{\`}{B1}{U}{217}
175 \DeclareTextComposite{\'}{B1}{U}{218}
176 \DeclareTextComposite{\^}{B1}{U}{219}
177 \DeclareTextComposite{\"}{B1}{U}{220}
178 \DeclareTextComposite{\'}{B1}{Y}{221}
179 \DeclareTextSymbol{\TH}{B1}{222}
180 \DeclareTextSymbol{\SS}{B1}{223}
181 \DeclareTextComposite{\`}{B1}{a}{224}
182 \DeclareTextComposite{\'}{B1}{a}{225}
183 \DeclareTextComposite{\^}{B1}{a}{226}
184 \DeclareTextComposite{\~}{B1}{a}{227}
185 \DeclareTextComposite{\"}{B1}{a}{228}
186 \DeclareTextComposite{\r}{B1}{a}{229}
187 \DeclareTextSymbol{\ae}{B1}{230}
188 \DeclareTextComposite{\c}{B1}{c}{231}
189 \DeclareTextComposite{\`}{B1}{e}{232}
```

```
190 \DeclareTextComposite{\'}{B1}{e}{233}
191 \DeclareTextComposite{\^}{B1}{e}{234}
192 \DeclareTextComposite{\"}{B1}{e}{235}
193 \DeclareTextComposite{\`}{B1}{i}{236}
194 \DeclareTextComposite{\`}{B1}{\i}{236}
195 \DeclareTextComposite{\'}{B1}{i}{237}
196 \DeclareTextComposite{\'}{B1}{\i}{237}
197 \DeclareTextComposite{\^}{B1}{i}{238}
198 \DeclareTextComposite{\^}{B1}{\i}{238}
199 \DeclareTextComposite{\"}{B1}{i}{239}
200 \DeclareTextComposite{\"}{B1}{\i}{239}
201 \DeclareTextSymbol{\dh}{B1}{240}
202 \DeclareTextComposite{\~}{B1}{n}{241}
203 \DeclareTextComposite{\`}{B1}{o}{242}
204 \DeclareTextComposite{\'}{B1}{o}{243}
205 \DeclareTextComposite{\^}{B1}{o}{244}
206 \DeclareTextComposite{\~}{B1}{o}{245}
207 \DeclareTextComposite{\"}{B1}{o}{246}
208 \DeclareTextSymbol{\oe}{B1}{247}
209 \DeclareTextSymbol{\o}{B1}{248}
210 \DeclareTextComposite{\`}{B1}{u}{249}
211 \DeclareTextComposite{\'}{B1}{u}{250}
212 \DeclareTextComposite{\^}{B1}{u}{251}
213 \DeclareTextComposite{\"}{B1}{u}{252}
214 \DeclareTextComposite{\'}{B1}{y}{253}
215 \DeclareTextSymbol{\th}{B1}{254}
216 \DeclareTextSymbol{\ss}{B1}{255}
217
218 ⟨/B1⟩
```

2.2   The `TeXB1.enc` file

The `TeXB1.enc` file is the B1 encoding's version of the T1 encoding's `8b.enc` file. It provides the PostScript encoding vector for Type 1 versions of B1 fonts. Slots (o000/h00/d0), (o012/h0A/d10) and (o015/h0D/d13) are empty.

This file should be put somewhere where LaTeX will look for *.enc files. For example: `/usr/TeX/texmf-local/tex/latex/bookhands/TeXB1.enc`.

```
219 ⟨∗enc⟩
220 /TeXB1 [
221 %%%% Comments are the 8b.enc entries
222 /.notdef        % 0
223 /acute          % 1 /dotaccent    % 1
224 /circumflex     % 2 /fi           % 2
225 /tilde          % 3 /fl           % 3
226 /dieresis       % 4 /fraction     % 4
227 /hungarumlaut   % 5
228 /ring           % 6 /Lslash       % 6
229 /caron          % 7 /lslash       % 7
230 /breve          % 8 /ogonek       % 8
```

```
231  /macron          % 9 /ring           % 9
232  /.notdef         % 10
233  /cedilla         % 11 /breve         % 11
234  /ogonek          % 12 /minus         % 12
235  /.notdef         % 13
236  /guilsinglleft   % 14 /Zcaron        % 14
237  /guilsinglright  % 15 /zcaron        % 15
238 % 0x10
239  /quotedblleft    % 16 /caron         % 16
240  /quotedblright   % 17 /dotlessi      % 17
241  /quotedblbase    % 18 /dotlessj      % 18
242  /guillemotleft   % 19 /ff            % 19
243  /guillemotright  % 20 /ffi           % 20
244  /endash          % 21 /ffl           % 21
245  /emdash          % 22 /.notdef       % 22
246  /grave           % 23 /.notdef       % 23
247  /dotaccent       % 24 /.notdef       % 24
248  /dotlessi        % 25 /.notdef       % 25
249  /dotlessj        % 26 /.notdef       % 26
250  /ff              % 27 /.notdef       % 27
251  /fi              % 28 /.notdef       % 28
252  /fl              % 29 /.notdef       % 29
253  /ffi             % 30 /grave         % 30
254  /ffl             % 31 /quotesingle   % 31
255 % 0x20 (ASCII begins)
256  /space           % 32
257  /exclam          % 33
258  /quotedbl        % 34
259  /numbersign      % 35
260  /dollar          % 36
261  /percent         % 37
262  /ampersand       % 38
263  /quoteright      % 39
264  /parenleft       % 40
265  /parenright      % 41
266  /asterisk        % 42
267  /plus            % 43
268  /comma           % 44
269  /hyphen          % 45
270  /period          % 46
271  /slash           % 47
272 % 0x30
273  /zero            % 48
274  /one             % 49
275  /two             % 50
276  /three           % 51
277  /four            % 52
278  /five            % 53
279  /six             % 54
280  /seven           % 55
```

```
281  /eight          % 56
282  /nine           % 57
283  /colon          % 58
284  /semicolon      % 59
285  /less           % 60
286  /equal          % 61
287  /greater        % 62
288  /question       % 63
289 % 0x40
290  /at             % 64
291  /A              % 65
292  /B              % 66
293  /C              % 67
294  /D              % 68
295  /E              % 69
296  /F              % 70
297  /G              % 71
298  /H              % 72
299  /I              % 73
300  /J              % 74
301  /K              % 75
302  /L              % 76
303  /M              % 77
304  /N              % 78
305  /O              % 79
306 % 0x50
307  /P              % 80
308  /Q              % 81
309  /R              % 82
310  /S              % 83
311  /T              % 84
312  /U              % 85
313  /V              % 86
314  /W              % 87
315  /X              % 88
316  /Y              % 89
317  /Z              % 90
318  /bracketleft    % 91
319  /backslash      % 92
320  /bracketright   % 93
321  /asciicircum    % 94
322  /underscore     % 95
323 % 0x60
324  /quoteleft      % 96
325  /a              % 97
326  /b              % 98
327  /c              % 99
328  /d              % 100
329  /e              % 101
330  /f              % 102
```

```
331  /g              % 103
332  /h              % 104
333  /i              % 105
334  /j              % 106
335  /k              % 107
336  /l              % 108
337  /m              % 109
338  /n              % 110
339  /o              % 111
340 % 0x70
341  /p              % 112
342  /q              % 113
343  /r              % 114
344  /s              % 115
345  /t              % 116
346  /u              % 117
347  /v              % 118
348  /w              % 119
349  /x              % 120
350  /y              % 121
351  /z              % 122
352  /braceleft      % 123
353  /bar            % 124
354  /braceright     % 125
355  /asciitilde     % 126
356  /hyphen         % 127 /.notdef % rubout; ASCII ends          % 127
357 % 0x80
358  /quotesinglbase % 128  /Euro              % 128
359  /Aogonek        % 129 /.notdef            % 129
360  /Cacute         % 130 /quotesinglbase     % 130
361  /Ccaron         % 131 /florin             % 131
362  /Dcaron         % 132 /quotedblbase       % 132
363  /Ecaron         % 133 /ellipsis           % 133
364  /Eogonek        % 134 /dagger             % 134
365  /paragraph      % 135 /daggerdbl          % 135
366  /Lacute         % 136 /circumflex         % 136
367  /Lcaron         % 137 perthousand     % 137
368  /Lslash         % 138 /Scaron             % 138
369  /Nacute         % 139 /guilsinglleft      % 139
370  /Ncaron         % 140 /OE                 % 140
371  /Eng            % 141 /.notdef            % 141
372  /Ohungarumlaut  % 142 /.notdef            % 142
373  /Racute         % 143 /.notdef            % 143
374 % 0x90
375  /Rcaron         % 144 /.notdef            % 144
376  /Sacute         % 145 /.notdef            % 145
377  /Scaron         % 146 /.notdef            % 146
```

/slong_t is my name for the long s-t ligauture

```
378  /slong_t        % 147 /quotedblleft     % 147
```

```
379  /Tcaron          % 148 /quotedblright   % 148
```
/r.half is my name for the half r glyph
```
380  /r.half          % 149 /bullet          % 149
381  /Uhungarumlaut   % 150 /endash          % 150
382  /Uring           % 151 /emdash          % 151
383  /Ydieresis       % 152 /tilde           % 152
384  /Zacute          % 153 /trademark       % 153
385  /Zcaron          % 154 /scaron          % 154
386  /Zdot            % 155 /guilsinglright  % 155
387  /IJ              % 156 /oe              % 156
388  /Idot            % 157 /.notdef         % 157
389  /dcroat % (dyet) % 158 /.notdef         % 158
390  /section         % 159 /Ydieresis       % 159
391 % 0xA0
392  /slong           % 160 /.notdef         % 160
393 % nobreakspace
394  /aogonek         % 161 /exclamdown      % 161
395  /cacute          % 162 /cent            % 162
396  /ccaron          % 163 /sterling        % 163
397  /dcaron          % 164 /currency        % 164
398  /ecaron          % 165 /yen             % 165
399  /eogonek         % 166 /brokenbar       % 166
```
/e_t is my name for the e-t ligature (this is not an &).
```
400  /e_t             % 167 /section         % 167
401  /lacute          % 168 /dieresis        % 168
402  /lcaron          % 169 /copyright       % 169
403  /lslash          % 170 /ordfeminine     % 170
404  /nacute          % 171 /guillemotleft   % 171
405  /ncaron          % 172 /logicalnot      % 172
406  /eng             % 173 /hyphen % Y&Y (also at 45); Windows' softhyphen % 173
407  /ohungarumlaut   % 174 /registered      % 174
408  /racute          % 175 /macron          % 175
409 % 0xD0
410  /rcaron          % 176 /degree          % 176
411  /sacute          % 177 /plusminus       % 177
412  /scaron          % 178 /twosuperior     % 178
```
/s_t is my name for the (short) s-t ligature.
```
413  /s_t             % 179 /threesuperior   % 179
414  /tcaron          % 180 /acute           % 180
```
/c_t is my name for the c-t ligature.
```
415  /c_t             % 181 /mu              % 181
416  /uhungarumlaut   % 182 /paragraph       % 182
417  /uring           % 183 /periodcentered  % 183
418  /ydieresis       % 184 cedilla          % 184
419  /zacute          % 185 /onesuperior     % 185
420  /zcaron          % 186 /ordmasculine    % 186
421  /zdot            % 187 /guillemotright  % 187
```

```
422  /ij               % 188 /onequarter       % 188
423  /exclamdown        % 189 /onehalf          % 189
424  /questiondown      % 190 /threequarters    % 190
425  /sterling          % 191 /questiondown     % 191
426 % 0xC0
427  /Agrave            % 192
428  /Aacute            % 193
429  /Acircumflex       % 194
430  /Atilde            % 195
431  /Adieresis         % 196
432  /Aring             % 197
433  /AE                % 198
434  /Ccedilla          % 199
435  /Egrave            % 200
436  /Eacute            % 201
437  /Ecircumflex       % 202
438  /Edieresis         % 203
439  /Igrave            % 204
440  /Iacute            % 205
441  /Icircumflex       % 206
442  /Idieresis         % 207
443 % 0xD0
444  /Eth               % 208
445  /Ntilde            % 209
446  /Ograve            % 210
447  /Oacute            % 211
448  /Ocircumflex       % 212
449  /Otilde            % 213
450  /Odieresis         % 214
451  /OE                % 215 /multiply         % 215
452  /Oslash            % 216
453  /Ugrave            % 217
454  /Uacute            % 218
455  /Ucircumflex       % 219
456  /Udieresis         % 220
457  /Yacute            % 221
458  /Thorn             % 222
459  /Germandbls        % 223
460 % 0xE0
461  /agrave            % 224
462  /aacute            % 225
463  /acircumflex       % 226
464  /atilde            % 227
465  /adieresis         % 228
466  /aring             % 229
467  /ae                % 230
468  /ccedilla          % 231
469  /egrave            % 232
470  /eacute            % 233
471  /ecircumflex       % 234
```

```
472  /edieresis       % 235
473  /igrave          % 236
474  /iacute          % 237
475  /icircumflex     % 238
476  /idieresis       % 239
477 % 0xF0
478  /eth             % 240
479  /ntilde          % 241
480  /ograve          % 242
481  /oacute          % 243
482  /ocircumflex     % 244
483  /otilde          % 245
484  /odieresis       % 246
485  /oe              % 247 /divide           % 247
486  /oslash          % 248
487  /ugrave          % 249
488  /uacute          % 250
489  /ucircumflex     % 251
490  /udieresis       % 252
491  /yacute          % 253
492  /thorn           % 254
493  /germandbls      % 255  /ydieresis        % 255
494 ] def
495
496 ⟨/enc⟩
```

2.3   The `b1cmr.fd` files

At a minimum CMR must be provided as a B1 font, otherwise the NFSS system objects. I have not done a real B1 encoding for CMR, but the following at least keeps NFSS quiet. It is `t1cmr.fd` with the 't1' changed to 'b1' throughout.

This file should be put somewhere where LaTeX will look for *.fd files. For example: `/usr/TeX/texmf-local/tex/latex/bookhands/b1cmr.fd`.

```
497 ⟨∗b1cmr⟩
498 %% This is file b1cmr.fd based on
499 %%       file 't1cmr.fd',
500 \ProvidesFile{b1cmr.fd}
501        [2005/11/27 v1.0 bookhand font definitions]
502 \providecommand{\EC@family}[5]{%
503   \DeclareFontShape{#1}{#2}{#3}{#4}%
504   {<5><6><7><8><9><10><10.95><12><14.4>%
505    <17.28><20.74><24.88><29.86><35.83>genb*#5}{}}
506 \DeclareFontFamily{B1}{cmr}{}
507 \EC@family{B1}{cmr}{m}{n}{ecrm}
508 \EC@family{B1}{cmr}{m}{sl}{ecsl}
509 \EC@family{B1}{cmr}{m}{it}{ecti}
510 \EC@family{B1}{cmr}{m}{sc}{eccc}
511 \EC@family{B1}{cmr}{bx}{n}{ecbx}
512 \EC@family{B1}{cmr}{b}{n}{ecrb}
```

```
513 \EC@family{B1}{cmr}{bx}{it}{ecbi}
514 \EC@family{B1}{cmr}{bx}{sl}{ecbl}
515 \EC@family{B1}{cmr}{bx}{sc}{ecxc}
516 \EC@family{B1}{cmr}{m}{ui}{ecui}
517
518 ⟨/b1cmr⟩
```

Bibliography

[MG04]   Frank Mittelbach and Michel Goossens. *The LaTeX Companion*. Second
         edition. Addison-Wesley Publishing Company, 2004.

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