LATEX Support For The Sans Mono Condensed Fonts

Boris Veytsman*

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Abstract

This package provides LATEX support for The Sans Mono Condensed Font, designed by Lucas de Groot, 1996 and available from Font Fabrik. It has everything you need to typeset in this font - except the font itself, of course.

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^{*}borisv@lk.net, boris@varphi.com

Table 1: PFB Files						
File	Font					
thsmcl21.pfb	The Sans Mono Condensed Light					
thsmcp25.pfb	The Sans Mono Condensed Plain					
thsmci29.pfb	The Sans Mono Condensed Italic					
thsmcb02.pfb	The Sans Mono Condensed Bold					
thsmcb96.pfb	The Sans Mono Condensed Black					

1 Introduction

This package provides support files for The Sans Mono Condensed Font by Lucas de Groot. It is a new monospaced font originally designed for typesetting program code. According to the Fontname scheme [1] we use the family name fts.

The package is written for the set of fonts currently used by *No Starch Press*, http://www.nostarch.com. It is possible that other versions of the fonts have slightly different metrics, and package should be changed to accommodate this. To make this easier, I release the package under BSD-style license. This is even more appropriate since most of the files is generated following the great course [2].

The support is limited to T1 and TS1 encoding. No VTeX support files are included.

2 Installation

First, you need to purchase the fonts themselves: the pfb files are *not* included in the package. If you got the fonts from *No Starch press*, do not rename the pfb files. However, if there are uppercase letters in your file names, downcase them. If you obtained the files from another source, rename the fonts according to Table 1. If your TEX system is TDS-compliant, install the files into \$TEXMF/fonts/type1/public/thsmc. Then download http://ctan.tug.org/install/fonts/psfonts/fontfabrik/thsmc.tds.zip and unzip the file in \$TEXMF. Add +fts.map to the configuration files of dvips, pdftex and your dvi previewer.

Run updmap and texhash programs to update the configuration files and file names database.

The style thsmc.sty provides a number of commands for using the font family (see Section 3)

3 Using LATEX Style

The package thmsc.sty makes The Sans Mono your default typewriter family. The package provides a number of weights: lc for Light Condensed, mc for Plain Condensed, bc for Bold Condensed and ebc for Heavy Condensed. The default substitutions are mc for m, bc for b and bx, and ebc for eb.

 $\begin{array}{c} option \\ {\tt scaled} \end{array}$

If you mix The Mono Sans with other fonts, you may want to scale it to get

better blending. The package option scaled can be used for this, for example $usepackage[scaled=0.95]{thmsc}$.

4 Implementation

4.1 Identification

We start with the declaration who we are. Most .dtx files put driver code in a separate driver file .drv. We roll this code into the main file, and use the pseudo-guard <gobble> for it.

```
1 \(\style\)\NeedsTeXFormat{LaTeX2e}
_2 \langle *gobble \rangle
3 \ProvidesFile{thsmc.dtx}
4 (/gobble)
5 \(\style\)\ProvidesClass{thsmc}
6 (fts - drv)\ProvidesFile{fts-drv.tex}
7 (fts - map)\ProvidesFile{fts-map.tex}
8 [2008/03/20 v1.0d Using The Mono Sans Condensed Font in LaTeX]
And the driver code:
9 (*gobble)
10 \documentclass{ltxdoc}
11 \usepackage{booktabs}
12 \usepackage{url}
13 \usepackage[breaklinks,colorlinks,linkcolor=black,citecolor=black,
               pagecolor=black,urlcolor=black,hyperindex=false]{hyperref}
15 \PageIndex
16 \CodelineIndex
17 \RecordChanges
18 \EnableCrossrefs
19 \begin{document}
    \DocInput{thsmc.dtx}
21 \end{document}
22 \langle /gobble \rangle
```

4.2 Fontinst Driver

```
This follows [2].
First, the preamble
23 (*fts - drv)
24 \input fontinst.sty
```

We have only condensed fonts, so we need to define substitutions. The only substitution missing here is {1}{1c}. The reason is, if we do define it, the standard substitution {m}{1} screens our {m}{mc}. Of course, we can use \installfontas to override this, but what if somebody has real The Sans Mono in normal width?

```
25 \substitutesilent{bx}{bc}
26 \substitutesilent{b}{bc}
27 \substitutesilent{eb}{ebc}
28 \substitutesilent{m}{mc}
29 \setint{smallcapsscale}{750}
30 \setint{slant}{167}
```

Somehow the afm files for this font declare IsFixedPitch false, which is bogus. OK, we correct it:

```
31 \setint{monowidth}{1}
   Starting recording transforms:
32 \recordtransforms{fts-rec.tex}
A bunch of fonts:
33 \transformfont{ftsl8rc}{\reencodefont{8r}{\fromafm{thsmcl21}}}
34 \transformfont{ftsr8rc}{\reencodefont{8r}{\fromafm{thsmcp25}}}
35 \transformfont{ftsri8rc}{\reencodefont{8r}{\fromafm{thsmci29}}}
36 \texttt{\transformfont{ftsb8rc}{\reencodefont{8r}{\fromafm{thsmcb02}}}}
37 \operatorname{fromafm}{thsmcb96}}
   Fake oblique fonts
38 \transformfont{ftslo8rc}{\slantfont{\int{slant}}}%
    \reencodefont{8r}{\fromafm{thsmcl21}}}
40 \transformfont{ftsro8rc}{\slantfont{\int{slant}}}%
    \reencodefont{8r}{\fromafm{thsmcp25}}}
42 \transformfont{ftsbo8rc}{\slantfont{\int{slant}}}%
    \reencodefont{8r}{\fromafm{thsmcb02}}}
44 \transformfont{ftsco8rc}{\slantfont{\int{slant}}%
    \reencodefont{8r}{\fromafm{thsmcb96}}}
```

There is no hook in fontinst.sty for writing our own preamble to .fd file. However, we need to add scaling commands to the preamble. OK, we will patch fontinst:

```
46 \fontinstcc
47 \left[ \frac{47}{def} \right] 
48
     \a_{toks}
     \edef\lowercase_file{\lowercase{
49
       \edef\noexpand\lowercase_file{#1#2.fd}}}
50
     \lowercase_file
51
     \open_out{\lowercase_file}
52
     \out_line{\percent_char~Filename:~\lowercase_file}
53
     \out_line{\percent_char~Created~by:~tex~\jobname}
54
     \out_line{\percent_char~Created~using~fontinst~v\fontinstversion}
55
56
     \out_line{}
     \out_line{\percent_char~THIS~FILE~SHOULD~BE~PUT~IN~A~TEX~INPUTS~
57
        DIRECTORY }
58
     \out_line{}
59
     \out_line{\string\ProvidesFile{\lowercase_file}}
60
     \out_lline{[
61
62
        \the\year/
        \ifnum10>\month0\fi\the\month/
63
        \ifnum10>\day0\fi\the\day\space
64
        Fontinst~v\fontinstversion\space
65
        font~definitions~for~#1/#2.
66
     ]}
67
     \out_line{}
```

```
Here is our patch:
69
                \out_line{\string\expandafter\string\ifx\string\csname\space
                     Thsmc@scale\string\endcsname\string\relax}
70
                \out_line{\space\string\let\string\Thsmc@@scale\string\@empty}
71
72
                \out_line{\string\else}
73
                \out_line{\space\string\edef\string\Thsmc@@scale\left_brace_char
                             s*[\string\csname\space Thsmc@scale\string\endcsname]
74
                            \right_brace_char\percent_char}
75
                \out_line{\string\fi\percent_char}
76
                \out_line{}
77
End of the patch.
                \label{line} $$\operatorname{\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\terming\te
78
79
80
                         \csname #1-#2\endcsname
81
                         \out_line{}
82
                         \let\do_shape=\substitute_shape
                         \csname #1-#2\endcsname
83
                         \let\do_shape=\remove_shape
84
                         \csname #1-#2\endcsname
85
86
                \x_cs\g_let{#1-#2}\x_relax
87
88
                \out_line{}
89
                \out_line{\string\endinput}
                \close_out{Font~definitions}
90
91 }
92 \normalcc
          Now we install the fonts. First T1. There is no point in hyphenating
monowidth fonts, so we suppress \hyphenchar.
93 \installfonts
94 \installfamily{T1}{fts}{\hyphenchar\font=-1}
            <->\string\Thsmc@@scale}
            <->\string\Thsmc@@scale}
```

95 \installfont{ftsl8tc}{ftsl8rc,newlatin}{t1}{T1}{fts}{lc}{n}{ $97 \t {t1}{T1}{fts}{1c}{s1}{0}$ 99 \installfont{ftsr8tc}{ftsr8rc,newlatin}{t1}{T1}{fts}{mc}{n}{ <->\string\Thsmc@@scale} 100 <->\string\Thsmc@@scale} $103 \timestall font{ftsri8tc}{ftsri8rc,newlatin}{t1}{T1}{fts}{mc}{it}{t}$ <->\string\Thsmc@@scale} $105 \t ftsb8tc}{ftsb8rc,newlatin}{t1}{T1}{fts}{bc}{n}{t}$ 106 <->\string\Thsmc@@scale} $107 \t ftsbo8tc}{ftsbo8rc,newlatin}{t1}{T1}{fts}{bc}{sl}{t}$ 108 <->\string\Thsmc@@scale} 110 <->\string\Thsmc@@scale}

 $\label{limit} $$111 \timestall font{ftsco8tc}{ftsco8rc,newlatin}{t1}{T1}{fts}{ebc}{sl}{t}$$$

112 <->\string\Thsmc@@scale}

```
114 <->\string\Thsmc@@scale}
116 <->\string\Thsmc@@scale}
\label{limit} $$117 \in \{t1c}_{T1}_{fts}\
118 <->\string\Thsmc@@scale}
119 \installfont{ftscc8tc}{ftsc8rc,newlatin}{t1c}{T1}{fts}{ebc}{sc}{
120 <->\string\Thsmc@@scale}
121 \endinstallfonts
                       And then TS1.
122 \installfonts
123 \int TS1 {fts}{\phi r} = 123 
124 \installfont{ftsl8cc}{ftsl8rc,textcomp}{ts1}{TS1}{fts}{lc}{n}{
125 <->\string\Thsmc@@scale}
126 \t ftslo8cc} {ftslo8cc} {ftslo8rc, textcomp} {ts1} {TS1} {fts} {lc} {s1} {tslo8rc, textcomp} {tslo8r
127 <->\string\Thsmc@@scale}
129 <->\string\Thsmc@@scale}
130 \installfont{ftsro8cc}{ftsro8rc,textcomp}{ts1}{TS1}{fts}{mc}{s1}{
131 <->\string\Thsmc@@scale}
 132 \t ftsri8cc} {ftsri8rc, textcomp} {ts1} {TS1} {fts} {mc} {it} {tst} {ts
133 <->\string\Thsmc@@scale}
134 \t tsb8cc}{ftsb8rc,textcomp}{ts1}{TS1}{fts}{bc}{n}{tsb8rc,textcomp}{ts1}{TS1}{fts}{bc}{n}{tsb8rc}{tsb8rc,textcomp}{ts1}{TS1}{fts}{bc}{n}{tsb8rc}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,textcomp}{tsb8rc,t
135 <->\string\Thsmc@@scale}
136 \t tsbo8cc} {ftsbo8cc} {ftsbo8rc, textcomp} {ts1} {TS1} {fts} {bc} {s1} {tsbo8rc, textcomp} {ts1} {tsbo8rc, textcomp} {ts1} {tsbo8rc, textcomp} {tsbo8rc, textco
137 <->\string\Thsmc@@scale}
138 \installfont{ftsc8cc}{ftsc8rc,textcomp}{ts1}{TS1}{fts}{ebc}{n}{
139 <->\string\Thsmc@@scale}
140 \installfont{ftsco8cc}{ftsco8rc,textcomp}{ts1}{TS1}{fts}{ebc}{sl}{
141 <->\string\Thsmc@@scale}
142 \t fts {C}{TS1}{fts}{lc}{sc}{
143 <->\string\Thsmc@@scale}
144 \installfontas{ftsr8cc}{TS1}{fts}{mc}{sc}{
145 <->\string\Thsmc@@scale}
146 \installfontas{ftsb8cc}{TS1}{fts}{bc}{sc}{
                           <->\string\Thsmc@@scale}
147
148 \t ftsc8cc}{TS1}{fts}{ebc}{sc}{
                           <->\string\Thsmc@@scale}
150 \endinstallfonts
                        And the end:
151 \endrecordtransforms
152 \bye
153 \langle fts - drv \rangle
```

4.3 Fontmap Generation

```
This is a standard procedure [2] 154 (*fts – map)
```

```
155 \input finstmsc.sty
156 \resetstr{PSfontsuffix}{.pfb}
157 \adddriver{dvips}{fts.map}
158 \input fts-rec.tex
159 \donedrivers
160 \bye
161 \langle fts - map \rangle
```

4.4 Style File

195 (/style)

```
The scaling code is from the helvet package: 162  *style
```

```
163 \RequirePackage[T1]{fontenc}
164 \RequirePackage{textcomp}
165 \RequirePackage{keyval}
166 \define@key{Thsmc}{scaled}[1]{%
     \def\Thsmc@scale{#1}}
168 \def\ProcessOptionsWithKV#1{%
169
     \let\@tempc\relax
     \let\Thsmc@tempa\@empty
170
     \ifx\@classoptionslist\relax\else
171
       \@for\CurrentOption:=\@classoptionslist\do{%
172
         \@ifundefined{KV@#1@\CurrentOption}%
173
         {}%
174
175
         {%
           \edef\Thsmc@tempa{\Thsmc@tempa,\CurrentOption,}%
176
           \@expandtwoargs\@removeelement\CurrentOption
177
178
              \@unusedoptionlist\@unusedoptionlist
         }%
179
       }%
180
181
     \fi
     \edef\Thsmc@tempa{%
182
       \noexpand\setkeys{#1}{%
183
184
         \Thsmc@tempa\@ptionlist{\@currname.\@currext}%
185
       }%
     }%
186
     \Thsmc@tempa
187
188
     \let\CurrentOption\@empty
189 }
190 \ProcessOptionsWithKV{Thsmc}
191 \AtEndOfPackage{%
192
     \let\@unprocessedoptions\relax
193 }
194 \renewcommand{\ttdefault}{fts}
```

Acknowledgement This package was written for No Starch Press, http://www.nostarch.com.

References

- [1] Karl Berry. Fontname. Filenames For T_EX Fonts, September 2005. http://ctan.tug.org/tex-archive/info/fontname.
- [2] Philipp Lehman. The Font Installation Guide, December 2004. http://www.ctan.org/tex-archive/info/Type1fonts/fontinstallationguide.

Change History

v1.0	v1.0b
General: First fully functional ver-	General: Documentation update
sion 1	v1.0c
v1.0a	General: Installation update
General: Changed font family to fts	v1.0d
from flm 1	General: Documentation update

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