LATEX support for Fedra Serif Pro

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Abstract

This document describes the fedraserif package, which provides $\mbox{L}^{\!A}\mbox{T}_{\!E}\!X$ support for the commercial Fedra Serif Pro fonts in both text and math mode.

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1 Overview

The fedraserif package provides L^AT_EX support for the commercial Fedra® Serif Pro fonts¹ from Typotheque². You can load this package by adding

 $\usepackage[\langle options \rangle] \{fedraserif\}$

to the preamble of your document. If no options are specified, this will change both the text font and the math font to Fedra Serif A; use the option variant=B to select Fedra Serif B. For the available options, see Section 3.

Acknowledgements

This package is heavily influenced by the MinionPro package, developed by Achim Blumensath, Andreas Bühmann and Michael Zedler, as well as the lucimatx package by Walter Schmidt. Additionally, I am indebted to Eddie Kohler for creating the LCDF typetools.

2 Interferences with other packages

In order to use Fedra Serif as a math font, you need to have the fdsymbol package (version 0.7 or higher) installed. Apart from fdsymbol, the fedraserif package automatically loads the packages textcomp and amsmath. Additionally, the packages

¹Fedra is a registered trademark of Typotheque VOF.

²http://www.typotheque.com/fonts/

Table 1: Summary of options

Key	Values	Section
boldweight	Medium*, Bold, auto	4.3
fedrabb	true, false*	5.3
footnotemarks	true, false*	4.6
figures	$lining^*(lf)$, text (osf)	4.5
math	true*,false	5
math-style	tex*, iso, french	5.1
normalweight	Book*, Demi, auto	4.3
stdmathdigits	true, false*	5.2
variant	A*, B	4.1

fontaxes and pifont are loaded if present in your LaTeX installation. If you want to pass options to these packages, you can either load these packages beforehand, or you can include the options in the \documentclass command. Unless the option math=false is used, the fedraserif package is not compatible with amssymb and amsfonts (since fdsymbol is not).

3 Options

All package options are set using a $\langle key \rangle = \langle value \rangle$ syntax. Boolean options accept true and false as values, and setting a Boolean key without a value is equivalent to setting it to true. Table 1 lists all option keys of the fedraserif package with their possible values; values that are marked with an asterisk correspond to the default behaviour of the package.

4 Font selection

4.1 Variants

Fedra Serif Pro comes in two variants, licensed separately: Fedra Serif A has a lower contrast and shorter ascenders, which makes it a good choice for small sizes, whereas Fedra Serif B features an increased contrast and longer ascenders. To select one variant, use the variant key: setting variant=A will select Fedra Serif A (the default), while variant=B will select Fedra Serif B.

Table 2: Summary of font weights

Weight	Series	Example
Book	sl	A Quick Brown Fox Jumps Over The Lazy Dog.
Demi	md	A Quick Brown Fox Jumps Over The Lazy Dog.
Medium	sb	A Quick Brown Fox Jumps Over The Lazy Dog.
Bold	ub	A Quick Brown Fox Jumps Over The Lazy Dog.

4.2 Encodings

The package currently supports the OT1, T1, LY1, QX and T5 encodings for typesetting text with Latin characters, the OT2, T2A, T2B, T2C and X2 encodings for typesetting text with Cyrillic characters, the LGR encoding for typesetting (monotonic and polytonic) Greek, as well as the TS1 encoding for typesetting text symbols. For typesetting text with accented characters, it is strongly recommended to change the default font encoding from OT1 to T1 or one of the other encodings. This can be achieved by putting \usepackage[T1]{fontenc} in the preamble of your document.

4.3 Weights

All fonts of the Fedra Serif Pro family come in four weights, which are (in increasing order) Book, Demi, Medium and Bold, shown in Table 2. Of these, Book and Demi can be used as the standard text font, while Medium and Bold can be used for bold text. The option keys normalweight and boldweight allow to control which weights are used for the standard LATEX font series m and b (or bx), selected by \mdseries and \bfseries, respectively. For example, to use the Demi weight as the standard text font, use the option normalweight=Demi. By default, only the Book and the Medium weights are used. Additionally, both keys can be set to the value auto, which selects a weight depending on the font size (Book and Medium for normal and large sizes, Demi and Bold for small sizes). Independently of these options, all weights can be accessed using the \fontseries command. For instance, the Demi weight can be accessed using the command \fontseries \mathref{md}.

4.4 Shapes

In addition to the normal small caps shapes sc and scit, there are letterspaced versions ssc and sscit. Moreover, italic shapes with swash capitals are accessible via the sw, scsw and sscsw shapes (see Table 3).

³Font selection commands like \fontseries only take effect after a subsequent call to \selectfont.

Table 3: Summary of font shapes

Shape	Example
n	A Quick Brown Fox Jumps Over The Lazy Dog.
it	A Quick Brown Fox Jumps Over The Lazy Dog.
sc	A Quick Brown Fox Jumps Over The Lazy Dog.
SSC	A QUICK Brown Fox Jumps Over The Lazy Dog.
scit	A Quick Brown Fox Jumps Over The Lazy Dog.
sscit	A Quick Brown Fox Jumps Over The Lazy Dog.
SW	A Quick Brown Fox Jumps Over The Lazy Dog.
SCSW	${\mathcal A}$ Quick Brown Fox Jumps Over The Lazy Dog.
SSCSW	${\mathcal A}$ Quick Brown Fox Jumps Over The Lazy Dog.

Table 4: Summary of figure versions

	Lining figures	Text figures
Proportional	0123456789	0123456789
Tabular	0123456789	0123456789

If the fontaxes package is available, you can use the commands \sscshape and \textssc{ $\langle text \rangle$ } to switch to letterspaced small caps and the commands \swshape and \textsw{ $\langle text \rangle$ } to switch to swash capitals.

4.5 Figures

Fedra Serif Pro offers four main figure versions (see 4). On the one hand, one can choose between lining figures and text figures, also known as old-style figures. On the other hand, one can choose between proportional figures and tabular figures.

By default, proportional lining figures are used throughout the document. If you want to use text figures instead, use the option figures=text or figures=osf.

Assuming that the fontaxes package is installed on your system, you can use the command \figureversion to switch between different figure versions inside the document. Possible arguments are text or osf for text figures, lining or lf for lining figures, tabular or tab for tabular figures, and proportional or prop for proportional figures. Note that you can combine several arguments. For example, the command \figureversion{osf, tabular} selects tabular text figures.

Small and slanted fractions are fractions with a height matching the font's body size; they can be accessed via:

```
\label{eq:linear_denominator} $$ \smallfrac{\langle numerator \rangle}{\langle denominator \rangle} $$ \slantfrac{\langle numerator \rangle}{\langle denominator \rangle} $$
```

Note that only figures can be used for (numerator) and (denominator).

Finally, Fedra Serif Pro offers so-called bullet figures, which are enclosed by a circle; they can be accessed via:

```
\openbullet{\langle number \rangle} ① ^{23}
\closedbullet{\langle number \rangle} ^{9}
```

As for small and slanted fractions, only figures can be used for *(number)*.

4.6 Footnotes

By setting the option footnotemarks, footnote marks are set using special characters designed for this purpose, i.e. ^{1,a} instead of ^{1,a}. However, this only works for footnote marks that consist of figures and the lowercase letters a-z.

4.7 Dingbats

Fedra Serif Pro provides a large set of ornamental characters, which can be typeset using the following command:

```
\ding{\(\lamber\rangle\)}
```

More commands are made available by the pifont package, which is automatically loaded if present. The available glyphs are listed in Table 5.

4.8 Additional notes

Fedra Serif Pro implements a large subset of the glyphs made available by the TS1 encoding. However, the following glyphs are missing:

\textdblhyphen	\textdivorced	\textdied
\textleaf	\textmarried	\textmusicalnote
\textdblhyphenchar	\textdollaroldstyle	\textcentoldstyle
\textguarani	\textrecipe	\textpertenthousand
\textpilcrow	\textbaht	\textdiscount
\textlquill	\textrquill	\textcopyleft
\textreferencemark		

In addition to the monetary symbols defined by the TS1 encoding, the following currency symbols are available:

Œ	\textcruzeiro	Fr	\textfranc	m	\textmill
Pts	\textpeseta	Rs	\textrupee	回	\textsheqel
K	\textkip	¥	\texttugrik	₹	\texthryvnia

Table 5: Dingbats available with the fedraserif package

number	glyph	number	glyph	number	glyph	number	glyph
100	•	128	0	156	C	184	
101	•	129	⊚	157		185	
102	0	130	⊗	158	û	186	*
103	•	131	•	159	ద	187	*
104	•	132	①	160	•	188	卒
105		133	☺	161	Ø	189	*
106		134	*	162	0	190	8
107		135	•	163		191	*
108		136	\rightarrow	164	•	192	-
109	•	137	←	165	Ħ	193	=
110	•	138	↑	166	\$	194	-
111	Þ	139	\downarrow	167	台	195	
112	4	140	7	168	i	196	_
113	•	141	Γ,	169	۵	197	_
114	◀	142	Ľ	170	9	198	****
115	\triangleright	143	Ą	171	AND MAKE	199	-
116	◁	144	•	172	HALLANTE	200	-
117	•	145	•	173	*	201	-
118	◀	146	4	174	Z many Z	202	A
119	\triangleright	147	4	175	*	203	+
120	\triangleleft	148	mp	176	Q	204	*
121	•	149	Ly.	177	ں	205	*
122	0	150	✓	178	5	206	A
123	•	151		179	ربہ	207	+
124	•	152	V	180	~	208	*
125	0	153	⊠	181		209	*
126	•	154	\bowtie	182		210	4
127	\Diamond	155	E	183	_		

Table 6: The different styles for letters in math mode

math-style	example
tex iso french	$a, b, \dots, A, B, \dots, \alpha, \beta, \dots, \Gamma, \Delta, \dots$ $a, b, \dots, A, B, \dots, \alpha, \beta, \dots, \Gamma, \Delta, \dots$ $a, b, \dots, A, B, \dots, \alpha, \beta, \dots, \Gamma, \Delta, \dots$

5 Math support

By default, we change the math font to Fedra Serif Pro with mathematical symbols taken from FdSymbol. To disable this behaviour, use the option math=false. Note that all other options described in this section have no effect if math support is disabled.

5.1 Letters

In TEX and LATEX, uppercase Greek letters are traditionally set upright in math mode, even when they are used as variables. This differs from the ISO standards ISO31-0:1992 to ISO31-13:1992, which mandate italics in this case. While the package employs the TEX tradition by default, you can select the ISO behaviour by setting the option math-style=iso. Independently of this option, you can alyways select upright and italic greek letters using the commands \upalpha, \italpha, \upgamma, \itGamma, etc. Additionally, the math-style key can take the value french, in which case all Greek and uppercase roman letters are typeset upright. For an illustration of the differences between the three values for math-style, see Table 6.

The fedraserif package provides all letters available in math mode with the Computer Modern fonts, with the exception of \varpi and \varrho, which have the same shape as \pi and \rho, respectively. Additionally, the following letters and letter-like symbols are can be typeset:

в	\varbeta⁴	и	\varkappa⁴	F	\digamma⁴
Э	\backepsilon⁴	3	\varbackepsilon⁴	ħ	\hslash
λ	\lambdabar	λ	\lambdaslash	ð	\eth⁴
0	\slashedzero	Ω	\mho	l	\upell
ħ	\uphbar	ב	\beth	λ	\gimel
Т	\daleth				

⁴The shape of the symbol is different if the option math-style=french is selected. Upright and italic shapes are also available directly via the commands \up\cap\cap\cap\dagger and \it\cap\cap\, respectively.

5.2 Digits

By default, digits in math mode are typeset in the default figure version for text mode (as selected by the figures key). To use lining figures in math mode even if figures=text is active, set the option stdmathdigits.

Apart from the standard math versions normal and bold, the package introduces two new math versions tabular and boldtabular, in which digits are typeset as tabular figures.

5.3 Blackboard characters

Fedra Serif Pro has a limited set of blackboard characters, namely \mathbb{N} , \mathbb{Z} , \mathbb{Q} , \mathbb{R} , \mathbb{C} , \mathbb{R} and \mathbb{I} . To use these characters for the math blackboard alphabet \mathbb, set the option fedrabb. If this option is not selected, the AMS blackboard bold font is used instead, which has the advantage that all uppercase roman letters are available.

6 NFSS classification

Table 7 lists all fonts made available with this package. (Fig) stands for the figure version (see Section 4.5) and can be replaced by LF, OsF, TLF or TOsF. Parenthesised combinations are provided via substitutions.

7 Implementation

7.1 Options

We use xkeyval's key mechanism to declare all options.

```
1 (*package)
2 \RequirePackage{xkeyval}
3 \newcommand*\fdrsf@boolkey[2]{%
4 \define@boolkey{fedraserif.sty}[fdrsf@]{#1}[true]{#2}%
5 }
6 \newcommand*\fdrsf@choicekey[3]{%
7 \define@choicekey*{fedraserif.sty}{#1}[\@tempa\@tempb]{#2}{#3}%
8 }
```

Font selection

The package fedraserif-fd adapts the font definitions to the requested font set (see Section 9). So we simply pass on the relevant options. Additional care has to be taken to pass the right options to fdsymbol.

```
9\fdrsf@choicekey{normalweight}{book,demi,auto}{%
```

Table 7: NFSS classification

Encoding	Family	Series	Shape
OT1, T1, LY1, QX, T5, TS1	FedraSerifProA-⟨Fig⟩, FedraSerifProB-⟨Fig⟩	sl, m, md, b (bx), sb, ub	n, it (sl), sw ^a , sc, scit (scsl), scsw ^a , ssc, sscit (sscsl), sscsw ^a
OT2, T2A, T2B, T2C, X2	FedraSerifProA-{Fig}, FedraSerifProB-{Fig}	sl, m, md, b (bx), sb, ub	n, it (sl), sc, scit (scsl), ssc, sscit (sscsl)
LGR	FedraSerifProA-⟨Fig⟩, FedraSerifProB-⟨Fig⟩	sl, m, md, b (bx), sb, ub	n, it (sl)
OML	FedraSerifProA- $\langle Fig \rangle^b$, FedraSerifProB- $\langle Fig \rangle^b$	sl, m, md, b (bx), sb, ub	n, it
U	FedraSerifProA-Extra, FedraSerifProB-Extra	sl, m, md, b (bx), sb, ub	n, it (sl)
U	FedraSerifProA-Pi, FedraSerifProB-Pi	m, md, b (sb, bx), ub	n
U	FedraSerifProA-BB, FedraSerifProB-BB	m	n

^a Provided via substitution in TS1 encoding
^b All figure versions except TOsF provided via substitution

```
\PassOptionsToPackage{normalweight=#1}{fedraserif-fd}%
    \ifcase\@tempb\relax
11
      \PassOptionsToPackage{normalweight=book}{fdsymbol}%
12
13
       \PassOptionsToPackage{normalweight=regular}{fdsymbol}%
14
15
      \PassOptionsToPackage{normalweight=auto}{fdsymbol}%
16
17
    \fi
18 }
19 \fdrsf@choicekey{boldweight}{medium,bold,auto}{%
    \PassOptionsToPackage{boldweight=#1}{fedraserif-fd}%
    \PassOptionsToPackage{boldweight=#1}{fdsymbol}%
22 }
The next option toggles the math font setup.
23 \fdrsf@boolkey{math}{}
For compatibility with oloder versions of this package, we also define a dual option
to disable math support.
24 \fdrsf@boolkey{nomath}{%
    \iffdrsf@nomath\fdrsf@mathfalse\else\fdrsf@mathtrue\fi%
26 }
Variant and figure style
27 \newcommand\fdrsf@family{FedraSerifProA}
28 \newcommand\fdrsf@textfig{LF}
29 \newcommand\fdrsf@mathfig{\fdrsf@textfig}
30 \newcommand\fdrsf@textfamily{\fdrsf@family-\fdrsf@textfig}
31 \newcommand\fdrsf@mathfamily{\fdrsf@family-\fdrsf@mathfig}
{\tt 32 \ hewcommand \ fdrsf@mathtfamily \{ \ fdrsf@family-T \ fdrsf@mathfig \} }
33 \newcommand\fdrsf@pifamily{\fdrsf@family-Pi}
34 \newcommand\fdrsf@mathshape{it}
35 \fdrsf@choicekey{variant}{a,b,auto}{%
    \ifcase\@tempb\relax
      \renewcommand\fdrsf@family{FedraSerifProA}%
37
38
       \renewcommand\fdrsf@family{FedraSerifProB}%
39
       \PassOptionsToPackage{largedelims}{fdsymbol}%
40
41
     \PackageWarning{fedraserif.sty}{Option 'variant=auto' is deprecated and has no effect.}%
42
43
44 }
45 \fdrsf@choicekey{figures}{text,osf,lining,lf}{%
46
    \ifcase\@tempb\relax
```

\renewcommand\fdrsf@textfig{OsF}%

47

```
\or
48
      \renewcommand\fdrsf@textfig{OsF}%
49
50
      \renewcommand\fdrsf@textfig{LF}%
51
52
      \renewcommand\fdrsf@textfig{LF}%
53
   \fi
54
55 }
56\fdrsf@boolkey{stdmathdigits}{%
57
    \iffdrsf@stdmathdigits
      \verb|\renewcommand| fdrsf@mathfig{LF}|%
58
   \fi
59
60 }
```

Math styles

```
61 \newif\iffdrsf@greek@upper@upright
62 \newif\iffdrsf@greek@lower@upright
63 \fdrsf@choicekey{math-style}{tex,iso,french}{%
   \ifcase\@tempb\relax
65
      \fdrsf@greek@upper@uprighttrue
66
      \fdrsf@greek@lower@uprightfalse
    \or
67
      \fdrsf@greek@upper@uprightfalse
68
      \fdrsf@greek@lower@uprightfalse
69
70
      \fdrsf@greek@upper@uprighttrue
71
      \fdrsf@greek@lower@uprighttrue
72
      \renewcommand\fdrsf@mathshape{n}
73
   \fi
74
75 }
```

Other options

This options redefines the blackboard bold alphabet to use Fedra Serif's blackboard letters.

```
76 \fdrsf@boolkey{fedrabb}{%
77 \iffdrsf@fedrabb
78 \renewcommand\fdrsf@load@bb{%
79 \DeclareMathAlphabet\mathbb{U}{\fdrsf@family-BB}{m}{n}%
80 \renewcommand\Bbbk{\mathbb{k}}%
81 }%
82 \fi
83 }
84 \newcommand\fdrsf@load@bb{}
```

This option allows to use superior figures for footnote marks. If possible, we

use the commands \deffootnotemark and \deffootnote provided by the KOMA-Script classes to change the formatting of footnote marks. Otherwise, we need to redefine \@makefnmark.

```
85 \fdrsf@boolkey{footnotemarks}{%
                      \iffdrsf@footnotemarks
                                  \@ifundefined{deffootnotemark}{%
    87
                                            \def\@makefnmark{%
    88
                                                       \begingroup
    89
                                                       \label{local-prop} $$ \operatorname{U}_{\sigma}(T) = \operatorname{U}_{\sigma}(T) . $$ \operatorname{Cont}_{\sigma}(T) = \operatorname{Cont}_{\sigma}(T) . $$ is a simple of the property of the
    90
    91
                                                       \@thefnmark\kern0.1em%
                                                       \endgroup
    92
    93
                                            }%
                                  }{%
    94
                                             \deffootnotemark{%
    95
                                                       \begingroup
    96
                                                       \usefont{U}{\fdrsf@family-Extra}{m}{n}%
    97
                                                       \thefootnotemark
    98
                                                       \endgroup
    99
                                            }%
100
101
                                  }%
102
                                  \@ifundefined{deffootnote}{}{%
                                            \deffootnote[1em]{1.5em}{1em}{%
103
                                                       \begingroup
104
                                                       \usefont{U}{\fdrsf@family-Extra}{m}{n}%
105
                                                       \thefootnotemark\kern0.1em%
106
107
                                                       \endgroup
                                            }%
108
                                  }%
109
                      \fi
110
111 }
```

Defaults

```
112 \ExecuteOptionsX{math,math-style=tex}
113 \ProcessOptionsX\relax
```

7.2 Font selection

```
114 \RequirePackage[scale=0.9]{fedraserif-fd}
115 \@ifpackageloaded{textcomp}{}{\RequirePackage{textcomp}}
116 \renewcommand\rmdefault{\fdrsf@textfamily}
117 \@for\fdrsf@fam:=FedraSerifProA,FedraSerifProB\do{%
118 \@for\fdrsf@fig:=LF,TLF,OSF,TOSF\do{%
119 \DeclareEncodingSubset{TS1}{\fdrsf@fam-\fdrsf@fig}{1}%
120 }%
121 }
```

In order to accommodate ligatures and glyph variants, we had to remove some glyphs from the standard encodings, but most of them can still be accessed through the TS1 encoding.

```
122 \AtBeginDocument{
     \UndeclareTextCommand{\textcompwordmark}{T1}
123
     \UndeclareTextCommand{\textvisiblespace}{T1}
124
     \UndeclareTextCommand{\textperthousand}{T1}
125
     \UndeclareTextCommand{\textpertenthousand}{T1}
126
     \UndeclareTextCommand{\textsterling}{T1}
127
128
     \UndeclareTextCommand{\textsection}{T1}
     \UndeclareTextCommand{\textperiodcentered}{LY1}
129
     \UndeclareTextCommand{\textguotesingle}{LY1}
130
     \UndeclareTextCommand{\textperthousand}{LY1}
131
     \UndeclareTextCommand{\textmu}{LY1}
132
133
     \UndeclareTextCommand{\texteuro}{LY1}
     \UndeclareTextCommand{\textdagger}{LY1}
134
     \UndeclareTextCommand{\textdaggerdbl}{LY1}
135
     \UndeclareTextCommand{\textdegree}{LY1}
136
     \UndeclareTextCommand{\textsection}{LY1}
137
     \UndeclareTextCommand{\textregistered}{LY1}
138
     \UndeclareTextCommand{\textcopyright}{LY1}
139
     \UndeclareTextCommand{\copyright}{LY1}
140
     \UndeclareTextCommand{\textdivide}{LY1}
141
142
     \UndeclareTextCommand{\textminus}{LY1}
     \UndeclareTextCommand{\texttimes}{LY1}
143
     \UndeclareTextCommand{\textpm}{LY1}
144
     \UndeclareTextCommand{\textbullet}{LY1}
145
     \UndeclareTextCommand{\texttrademark}{LY1}
146
147
     \UndeclareTextCommand{\textcent}{LY1}
     \UndeclareTextCommand{\textsterling}{LY1}
148
     \UndeclareTextCommand{\textcurrency}{LY1}
149
     \UndeclareTextCommand{\textyen}{LY1}
150
151
     \UndeclareTextCommand{\textbrokenbar}{LY1}
     \UndeclareTextCommand{\textperiodcentered}{QX}
152
     \UndeclareTextCommand{\textquotesingle}{QX}
153
     \UndeclareTextCommand{\textmu}{QX}
154
     \UndeclareTextCommand{\texteuro}{QX}
155
     \UndeclareTextCommand{\textEuro}{QX}
156
     \UndeclareTextCommand{\textdagger}{QX}
157
     \UndeclareTextCommand{\textdaggerdbl}{QX}
158
     \UndeclareTextCommand{\textdegree}{QX}
159
     \UndeclareTextCommand{\textsection}{QX}
160
     \UndeclareTextCommand{\textregistered}{QX}
161
162
     \UndeclareTextCommand{\copyright}{QX}
```

\UndeclareTextCommand{\textdiv}{QX}

```
\UndeclareTextCommand{\textminus}{QX}
164
     \UndeclareTextCommand{\texttimes}{QX}
165
     \UndeclareTextCommand{\textpm}{QX}
166
     \UndeclareTextCommand{\textbullet}{QX}
    \UndeclareTextCommand{\textcurrency}{QX}
168
    \UndeclareTextCommand{\textperthousand}{QX}
169
     \UndeclareTextCommand{\textanglearc}{QX}
170
171
     \UndeclareTextCommand{\textvisiblespace}{T5}
172
     \UndeclareTextCommand{\textvarstigma}{LGR}
173
     \UndeclareTextCommand{\textpentedeka}{LGR}
     \UndeclareTextCommand{\textpentehekaton}{LGR}
174
     \UndeclareTextCommand{\textpenteqilioi}{LGR}
175
    \UndeclareTextCommand{\textpentemuria}{LGR}
176
     \UndeclareTextCommand{\textdexiakeraia}{LGR}
177
178
     \UndeclareTextCommand{\textaristerikeraia}{LGR}
    \let\textEuro\texteuro
179
180
    \let\copyright\textcopyright
    \let\textdivide\textdiv
181
Additional currency symbols are stored in empty slots of the TS1 encoding.
     \DeclareTextSymbol{\textcruzeiro}{TS1}{192}
182
183
     \DeclareTextSymbol{\textfranc}{TS1}{193}
     \DeclareTextSymbol{\textmill}{TS1}{194}
184
     \DeclareTextSymbol{\textpeseta}{TS1}{195}
185
    \DeclareTextSymbol{\textrupee}{TS1}{196}
186
     \DeclareTextSymbol{\textsheqel}{TS1}{197}
187
188
     \DeclareTextSymbol{\textkip}{TS1}{198}
     \DeclareTextSymbol{\texttugrik}{TS1}{199}
189
     \DeclareTextSymbol{\texthryvnia}{TS1}{200}
190
     \DeclareTextSymbolDefault{\textcruzeiro}{TS1}
191
     \DeclareTextSymbolDefault{\textfranc}{TS1}
192
    \DeclareTextSymbolDefault{\textmill}{TS1}
193
     \DeclareTextSymbolDefault{\textpeseta}{TS1}
194
     \DeclareTextSymbolDefault{\textrupee}{TS1}
195
     \DeclareTextSymbolDefault{\textsheqel}{TS1}
196
197
     \DeclareTextSymbolDefault{\textkip}{TS1}
     \DeclareTextSymbolDefault{\texttugrik}{TS1}
198
199
     \DeclareTextSymbolDefault{\texthryvnia}{TS1}
200 }
   The font selection commands such as \figureversion, \textsw, and \textssc
are provided by the fontaxes package.
201 \IfFileExists{fontaxes.sty}{
    \RequirePackage{fontaxes}[2007/03/31]
203
    \let\oldstylenums\textfigures
204 }{}
```

7.3 Math font setup

We use FdSymbol for most mathematical symbols.

```
205\iffdrsf@math
206 \RequirePackage[scale=0.9]{fdsymbol}[2011/11/01]
```

Some math symbols are taken from the text font by fdsymbol. Use the correct math figure version for these.

```
207 \renewcommand\fdsy@text[1]{%
208 \ifx\fdsy@bold\math@version
209 \text{\usefont{T1}{\fdrsf@mathfamily}{b}{n}#1}%
210 \else
211 \text{\usefont{T1}{\fdrsf@mathfamily}{m}{n}#1}%
212 \fi
213 }
```

Redefine the standard math versions normal and bold.

```
{\tt 214} $$ \end{tabular} $$ \DeclareSymbolFont{operators}{T1}{\fdrsf@mathfamily}{m}{n} $$
```

- 216 \DeclareSymbolFont{letters}{OML}{\fdrsf@family-TOsF}{m}{\fdrsf@mathshape}
- 217 \SetSymbolFont{letters}{bold}{OML}{\fdrsf@family-TOsF}{b}{\fdrsf@mathshape}
- 218 \DeclareMathAlphabet{\mathrm}{T1}{\fdrsf@mathfamily}{m}{n}
- \lambda \SetMathAlphabet{\mathrm}{bold}{T1}{\fdrsf@mathfamily}{b}{n}
- 220 \DeclareMathAlphabet{\mathit}{T1}{\fdrsf@mathfamily}{m}{it}
- 221 \SetMathAlphabet{\mathit}{bold}{T1}{\fdrsf@mathfamily}{b}{it}
- 222 \DeclareMathAlphabet{\mathbf}{T1}{\fdrsf@mathfamily}{b}{n}

Extra math versions tabular and boldtabular, which use tabular figures instead of proportional ones. These math versions can be useful in tables.

```
223 \DeclareMathVersion{tabular}
```

- 224 \SetSymbolFont{operators}{tabular}{T1}{\fdrsf@mathtfamily}{m}{n}
- 225 \SetMathAlphabet{\mathrm}{tabular}{T1}{\fdrsf@mathtfamily}{m}{n}
- 226 \SetMathAlphabet{\mathit}{tabular}{T1}{\fdrsf@mathtfamily}{m}{it}
- $\ \$ \SetMathAlphabet{\mathbf}{tabular}{T1}{\fdrsf@mathtfamily}{b}{n}
- 228 \DeclareMathVersion{boldtabular}
- \SetSymbolFont{operators}{boldtabular}{T1}{\fdrsf@mathtfamily}{b}{n}
- $\ \$ \SetMathAlphabet{\mathrm}{boldtabular}{T1}{\fdrsf@mathtfamily}{b}{n}
- $\label{$\tt 232 \SetMathAlphabet{\mathbb{T}}{\fdrsf@mathtfamily}{b}{it} $$ \end{that} $$$ \end{th$
- 233 \SetMathAlphabet{\mathbf}{boldtabular}{T1}{\fdrsf@mathtfamily}{b}{n}
- 234 \DeclareMathAccent{\grave}{\mathalpha}{operators}{"00}
- 235 \DeclareMathAccent{\acute}{\mathalpha}{operators}{"01}
- 236 \DeclareMathAccent{\hat}{\mathalpha}{operators}{"02}
- 237 \DeclareMathAccent{\tilde}{\mathalpha}{operators}{"03}
- 238 \DeclareMathAccent{\ddot}{\mathalpha}{operators}{"04}
- 239 \DeclareMathAccent{\mathring}{\mathalpha}{operators}{"06}

```
\DeclareMathAccent{\check}{\mathalpha}{operators}{"07}
240
    \DeclareMathAccent{\breve}{\mathalpha}{operators}{"08}
241
242
    \DeclareMathAccent{\bar}{\mathalpha}{operators}{"09}
    \DeclareMathAccent{\dot}{\mathalpha}{operators}{"0A}
243
    \let\hbar\undefined
244
    \DeclareMathSymbol{\hbar}{\mathord}{letters}{"AE}
245
    \DeclareMathSymbol{\uphbar}{\mathord}{letters}{"B6}
246
247
    \DeclareMathSymbol{\partial}{\mathord}{letters}{"40}
    \DeclareMathSymbol{\ell}{\mathord}{letters}{"60}
248
    \DeclareMathSymbol{\upell}{\mathord}{letters}{"B9}
249
    \DeclareMathSymbol{\slashedzero}{\mathord}{letters}{"B8}
250
    \let\mho\undefined
251
    \DeclareMathSymbol{\mho}{\mathord}{letters}{"BA}
252
    \DeclareMathSymbol{\nabla}{\mathord}{letters}{"BB}
253
254
    \DeclareRobustCommand{\lambdabar}{\middlebar\lambda}
    \DeclareRobustCommand{\lambdaslash}{\middleslash\lambda}
```

Execute the hook set up above to redefine the mathbb alphabet.

256 \fdrsf@load@bb

7.4 Greek and Hebrew letters

We provide three math-mode commands for each Greek letter: for italic, upright and the default.

```
\newcommand*{\fdrsf@greek@capital}[3]{
257
258
       \expandafter\DeclareMathSymbol%
         \expandafter{\csname it#1\endcsname}{\mathord}{letters}{#2}
259
       \expandafter\DeclareMathSymbol%
260
         \expandafter{\csname up#1\endcsname}{\mathord}{letters}{#3}
261
262
       \iffdrsf@greek@upper@upright
       \expandafter\let\csname #1\expandafter\endcsname\csname up#1\endcsname
263
264
       \expandafter\let\csname #1\expandafter\endcsname\csname it#1\endcsname
265
       \fi
266
     }
267
     \newcommand*{\fdrsf@greek@letter}[3]{
268
       \expandafter\DeclareMathSymbol%
269
         \expandafter{\csname it#1\endcsname}{\mathord}{letters}{#2}
270
       \expandafter\DeclareMathSymbol%
271
         \expandafter{\csname up#1\endcsname}{\mathord}{letters}{#3}
272
       \iffdrsf@greek@lower@upright
273
274
       \expandafter\let\csname #1\expandafter\endcsname\csname up#1\endcsname
       \else
275
       \expandafter\let\csname #1\expandafter\endcsname\csname it#1\endcsname
276
       \fi
277
```

```
278
     \fdrsf@greek@capital{Gamma}{"00}{"80}
279
     \fdrsf@greek@capital{Delta}{"01}{"81}
280
     \fdrsf@greek@capital{Theta}{"02}{"82}
281
     \fdrsf@greek@capital{Lambda}{"03}{"83}
282
     \fdrsf@greek@capital{Xi}{"04}{"84}
283
     \fdrsf@greek@capital{Pi}{"05}{"85}
284
285
     \fdrsf@greek@capital{Sigma}{"06}{"86}
     \fdrsf@greek@capital{Upsilon}{"07}{"87}
286
287
     \fdrsf@greek@capital{Phi}{"08}{"88}
     \fdrsf@greek@capital{Psi}{"09}{"89}
288
     \fdrsf@greek@capital{Omega}{"0A}{"8A}
289
     \fdrsf@greek@letter{alpha}{"0B}{"8B}
290
     \fdrsf@greek@letter{beta}{"0C}{"8C}
291
292
     \fdrsf@greek@letter{gamma}{"0D}{"8D}
     \fdrsf@greek@letter{delta}{"0E}{"8E}
293
     \fdrsf@greek@letter{epsilon}{"0F}{"8F}
294
     \fdrsf@greek@letter{zeta}{"10}{"90}
295
     \fdrsf@greek@letter{eta}{"11}{"91}
296
     \fdrsf@greek@letter{theta}{"12}{"92}
297
     \fdrsf@greek@letter{iota}{"13}{"93}
298
299
     \fdrsf@greek@letter{kappa}{"14}{"94}
     \fdrsf@greek@letter{lambda}{"15}{"95}
300
     \fdrsf@greek@letter{mu}{"16}{"96}
301
     \fdrsf@greek@letter{nu}{"17}{"97}
302
     \fdrsf@greek@letter{xi}{"18}{"98}
303
304
     \fdrsf@greek@letter{pi}{"19}{"99}
     \fdrsf@greek@letter{rho}{"1A}{"9A}
305
     \fdrsf@greek@letter{sigma}{"1B}{"9B}
306
     \fdrsf@greek@letter{tau}{"1C}{"9C}
307
     \fdrsf@greek@letter{upsilon}{"1D}{"9D}
308
     \fdrsf@greek@letter{phi}{"1E}{"9E}
309
     \fdrsf@greek@letter{chi}{"1F}{"9F}
310
     \fdrsf@greek@letter{psi}{"20}{"A0}
311
     \fdrsf@greek@letter{omega}{"21}{"A1}
312
313
     \fdrsf@greek@letter{varepsilon}{"22}{"A2}
     \fdrsf@greek@letter{vartheta}{"23}{"A3}
314
     \fdrsf@greek@letter{varpi}{"19}{"99}
315
     \fdrsf@greek@letter{varrho}{"1A}{"9A}
316
     \fdrsf@greek@letter{varsigma}{"26}{"A6}
317
     \fdrsf@greek@letter{varphi}{"27}{"A7}
```

Some of the following symbols are not really Greek letters, but they are treated in the same way.

```
319 \fdrsf@greek@letter{varbeta}{"A8}{"B0}
320 \fdrsf@greek@letter{varkappa}{"A9}{"B1}
```

```
321 \fdrsf@greek@letter{digamma}{"AA}{"B2}
322 \fdrsf@greek@letter{backepsilon}{"AB}{"B3}
323 \fdrsf@greek@letter{varbackepsilon}{"AC}{"B4}
324 \fdrsf@greek@letter{eth}{"AD}{"B5}
```

Hebrew letters are provided by FdSymbol, but we replace them with their Fedra counterparts.

```
325 \DeclareMathSymbol{\aleph}{\mathord}{letters}{"BC}
326 \DeclareMathSymbol{\beth}{\mathord}{letters}{"BD}
327 \DeclareMathSymbol{\gimel}{\mathord}{letters}{"BE}
328 \DeclareMathSymbol{\daleth}{\mathord}{letters}{"BF}
329 \fi
```

7.5 Dingbats

We redefine some of the commands provided by the pifont package to replace Zapf Dingbats by Fedra Serif's dingbats font.

```
330 \IfFileExists{pifont.sty}{
    \RequirePackage{pifont}[2005/04/12]
331
    \renewcommand{\ding}{\Pisymbol{\fdrsf@pifamily}}
332
    \renewcommand{\dingfill}{\Pifill{\fdrsf@pifamily}}
334
    \renewcommand{\dingline}{\Piline{\fdrsf@pifamily}}
    \renewenvironment{dinglist}[1]{\begin{Pilist}{\fdrsf@pifamily}{##1}}%
335
      {\end{Pilist}}
336
   \renewenvironment{dingautolist}[1]{\begin{Piautolist}{\fdrsf@pifamily}{##1}}%
337
338
      {\end{Piautolist}}
339 }{
    \providecommand{\ding}[1]{}
    342 }
```

7.6 Bullet figures

We provide two commands to access Fedra's bullet figures.

```
343 \newcommand*{\fdrsf@@openbullet}[2]{%
    \ifx#2\end
344
       \char3#1%
345
       \let\next\@gobble
346
347
       \char2#1\kern-0.02em%
348
       \let\next\fdrsf@@openbullet
349
350
    \fi
     \next#2%
351
352 }
```

```
353 \newcommand*{\fdrsf@openbullet}[2]{%
               \ifx#2\end
                       \char0#1%
355
                       \let\next\@gobble
356
               \else%
357
                       \char1#1\kern-0.02em%
358
                       \let\next\fdrsf@@openbullet
359
360
                \fi
               \next#2%
361
362 }
363 \DeclareRobustCommand*{\openbullet}[1]{%
                \begingroup
364
                \usefont{U}{\fdrsf@family-Pi}{m}{n}%
                366
367
                \endgroup
368 }
369 \newcommand*{\fdrsf@@closedbullet}[2]{%
               \ifx#2\end
370
371
                       \char7#1%
                       \let\next\@gobble
372
373
               \else
                       \char6#1\kern-0.02em%
374
                       \let\next\fdrsf@@closedbullet
375
               \fi
376
                \next#2%
377
378 }
379 \newcommand*{\fdrsf@closedbullet}[2]{%
               \ifx#2\end
380
                       \char4#1%
381
                       \let\next\@gobble
382
383
                       \char5#1\kern-0.02em%
384
                       \let\next\fdrsf@@closedbullet
385
               \fi
386
387
                \next#2%
388 }
389 \DeclareRobustCommand*{\closedbullet}[1]{%
                \begingroup
                \usefont{U}{\fdrsf@family-Pi}{m}{n}%
391
                \ensuremath{\tt def}\ensuremath{\tt def}\ensuremat
               \endgroup
393
394 }
```

7.7 Superior and inferior figures

The following command converts numbers to inferior figures.

```
395 \newcommand*{\fdrsf@@inferior}[1]{%
396
    \ifx#1\end
       \let\next\relax
397
    \else
398
       \char"1#1%
399
       \let\next\fdrsf@@inferior
400
401
    \fi
    \next
402
403 }
404 \newcommand*{\fdrsf@inferior}[1]{%
    \begingroup
405
     \edef\@tempa{#1}\expandafter\fdrsf@@inferior\@tempa\end
     \endgroup
407
408 }
\fdrsf@ensuretext switches to text mode, if necessary.
409 \newcommand*{\fdrsf@ensuretext}[1]{%
410
    \ifmmode
       \fdsy@text{#1}%
411
    \else
412
413
       #1%
414 \fi
415 }
We provide two commands for generating numerical fractions.
416 \newcommand*{\fdrsf@smallfrac}[2]{%
417
    \begingroup
418 \fontencoding{U}\fontfamily{\fdrsf@family-Extra}\fontshape{n}\selectfont
    \leavevmode
419
    \setbox\@tempboxa\vbox{%
420
       \baselineskip\z@skip%
421
422
       \lineskip.25ex%
423
       \lineskiplimit-\maxdimen
       \ialign{\hfil##\hfil\crcr
424
         425
         \leavevmode\leaders\hrule height 0.91ex depth -0.87ex\hfill\crcr
426
427
         \vtop to 1ex{\vbox{}\hbox{\fdrsf@inferior{#2}}\vss}\crcr
         \noalign{\vskip-1.2ex}}}%
428
     \box\@tempboxa
429
     \endgroup
430
431 }
432 \DeclareRobustCommand*{\smallfrac}[2]{%
    \footnote{Morsf@ensuretext{\kern0.08em\footnote{Morsf@smallfrac{#1}{#2}\kern0.1em}}}
```

```
434 }
435 \newcommand*{\fdrsf@slantfrac}[2]{%
436 \begingroup
437 \fontencoding{U}\fontfamily{\fdrsf@family-Extra}\fontshape{n}\selectfont
438 #1\kern-0.05em/\kern0em\fdrsf@inferior{#2}%
439 \endgroup
440 }
441 \DeclareRobustCommand*{\slantfrac}[2]{%
442 \fdrsf@ensuretext{\kern0.08em\fdrsf@slantfrac{#1}{#2}\kern0.1em}%
443 }
```

7.8 Logos

```
444 \DeclareRobustCommand{\LaTeX}{L\kern-.26em\%}
    {\sbox\z@ T%
       \vbox to\ht\z@{\hbox{\check@mathfonts
446
         \fontsize\sf@size\z@
447
         \math@fontsfalse\selectfont
448
         A}%
449
       \vss}%
450
    }%
451
    \kern-.05em%
    \TeX
453
454 }
```

Make the changes take effect. This concludes the main style file.

```
455 \normalfont
456 (/package)
```

8 Microtype configuration file

The microtype configuration. All four families use the same file (cf. section 9).

```
457 (*mtcfg)
458 \SetProtrusion
459 [ name = FedraSerifPro-default ]
     { }
460
461
462
         . = \{ ,700\},
463
       {,}= { ,500},
        : = \{ ,500 \},
464
         ; = { ,300},
465
        ! = \{ ,100\},
466
467
        ? = \{ ,100\},
         ^{\sim} = {200,250},
468
       \% = \{50, 50\},\
469
```

```
* = \{200, 200\},\
470
        + = \{250, 250\},\
471
472
        ( = \{100,
                      },
                            ) = {
                                      ,200},
473
        / = \{100, 200\},\
        - = \{600, 600\},\
474
475
        \textendash
                            = \{450, 450\},
                                              \textemdash
                                                                   = \{260, 260\},\
        \textquoteleft
                                              \textquoteright
                            = \{300, 400\},\
                                                                   = \{300, 400\},
476
477
        \textquotedblleft = {300,300},
                                              \textquotedblright = {300,300},
478
      }
479 \SetProtrusion
      Γ name
                  = FedraSerifPro-OT1,
480
481
        load
                  = FedraSerifPro-default ]
      { encoding = {OT1,OT2,T2A,T2B,T2C,LGR,X2},
482
       family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
483
                FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
484
        shape
                  = {n,sc,ssc} }
485
      { }
486
487 \SetProtrusion
488
      [ name
                  = FedraSerifPro-T1,
                  = FedraSerifPro-default ]
        load
489
490
      \{ \text{ encoding = } \{T1\}, \}
       family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
491
                FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOSF, FedraSerifProB-TLF},
492
493
        shape
                  = {n,sc,ssc} }
      {
494
495
        _{-} = \{100, 100\},
        \textbackslash
                            = \{100, 200\},\
                                              \quotesinglbase
                                                                  = \{400, 400\},
496
        \quotedblbase
                              = \{400, 400\},\
                                              \textquotedb1
                                                                  = \{400,400\},
497
        \guilsinglleft
                            = \{400,300\},\
                                              \guilsinglright
                                                                   = \{300, 400\},
498
        \guillemotleft
                            = \{200, 200\},\
                                              \guillemotright
                                                                   = \{200, 200\},\
499
                                              \textquestiondown = {100,
500
        \textexclamdown
                            = {100,
                                       },
        \textbraceleft
                            = \{400, 200\},\
                                              \textbraceright
                                                                   = \{200, 400\},
501
502
        \textless
                            = \{200, 100\},\
                                              \textgreater
                                                                   = \{100, 200\},\
      }
503
504 \SetProtrusion
                  = FedraSerifPro-LY1.
      Γ name
505
        load
                  = FedraSerifPro-T1 ]
506
      { encoding = {LY1},
507
       family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
508
                FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
509
                  = {n,sc,ssc} }
        shape
510
511
      {
        \textellipsis
                               = \{100, 200\},\
512
513
      }
```

```
514 \SetProtrusion
      [ name
                  = FedraSerifPro-TS1 ]
515
516
      { encoding = {TS1},
       family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
517
                FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOSF, FedraSerifProB-TLF},
518
         shape
                   = {n,sc,ssc} }
519
      {
520
521
         \textperiodcentered = {500,700},
522
         \text{textquotesingle} = \{400,400\},\
      }
523
524 \SetProtrusion
      [ name
                   = FedraSerifPro-QX,
525
                   = FedraSerifPro-default ]
        load
526
      { encoding = \{QX\},
527
      family = {FedraSerifProA-OsF, FedraSerifProA-LF, FedraSerifProA-TOsF, FedraSerifProA-TLF, %
528
                FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOSF, FedraSerifProB-TLF},
529
530
        shape
                   = {n,sc,ssc} }
      {
531
         _{-} = {100,100},
532
        \textbackslash
533
                             = \{100, 200\},\
                                              \textellipsis
                                                                    = \{100, 200\},\
        \quotedblbase
                              = \{400,400\},
                                              \textquotedb1
                                                                   = \{400, 400\},\
534
         \guillemotleft
                             = \{200, 200\},\
                                              \guillemotright
                                                                    = \{200, 200\},
535
                                              \text{textquestiondown} = \{100,
         \textexclamdown
                             = \{100,
                                        },
                                                                               },
536
        \textbraceleft
                             = \{400, 200\},\
                                              \textbraceright
                                                                    = \{200, 400\},\
537
         \textless
538
                             = \{200, 100\},\
                                              \textgreater
                                                                    = \{100, 200\},\
539
540 \SetProtrusion
                   = FedraSerifPro-T5,
541
      [ name
        load
                   = FedraSerifPro-default ]
542
      \{ \text{ encoding = } \{T5\}, 
543
       family = {FedraSerifProA-OsF, FedraSerifProA-LF, FedraSerifProA-TOsF, FedraSerifProA-TLF, %
544
                FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
545
546
        shape
                  = {n,sc,ssc} }
      {
547
         _{-} = {100,100},
548
         \textbackslash
                             = \{100, 200\},\
                                              \quotesinglbase
                                                                   = \{400, 400\},
549
         \quotedblbase
                              = \{400, 400\},
                                              \textquotedb1
                                                                   = \{400, 400\},
550
551
        \guilsinglleft
                             = \{400,300\},\
                                              \guilsinglright
                                                                    = \{300,400\},
         \guillemotleft
                             = \{200, 200\},\
                                              \guillemotright
                                                                    = \{200, 200\},\
552
         \textbraceleft
                             = \{400, 200\},\
                                              \textbraceright
                                                                    = \{200, 400\},\
553
         \textless
                             = \{200, 100\},\
                                              \textgreater
                                                                    = \{100, 200\},\
554
555
      }
556 \SetProtrusion
                 = FedraSerifPro-it ]
557 [ name
```

```
{ }
558
559
         . = \{ ,500 \},
560
561
       \{,\}=\{,500\},
        : = \{ ,300\},
562
         ; = { ,300},
563
        \& = \{50, 50\},\
564
565
       \% = \{100, \},\
566
        * = \{200, 200\},\
        + = \{150, 200\},\
567
         ^{\sim} = \{150, 150\},
568
        ( = \{200, \},
                           ) = \{ ,200\},
569
         / = \{100, 200\},\
570
        - = \{630, 630\},\
571
572
         \textendash
                             = \{200, 200\},\
                                               \textemdash
                                                                    = \{150, 150\},\
                                                                    = \{400, 200\},
        \textquoteleft
                             = \{400, 200\},\
                                               \textquoteright
573
                                               \textquotedblright = {400,200},
574
         \textquotedblleft = {400,200},
      }
575
576 \SetProtrusion
577
     [ name
                  = FedraSerifPro-OT1-it,
                 = FedraSerifPro-it
578
     { encoding = {OT1,OT2,T2A,T2B,T2C,LGR,X2}
579
      family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
580
               FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
581
582
       shape
                 = {it,scit,sscit,sw,scsw,sscsw} }
583
     { }
584 \SetProtrusion
      [ name
                   = FedraSerifPro-T1-it,
585
        load
                   = FedraSerifPro-it
586
      \{ \text{ encoding = } \{T1\}, 
587
       family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
588
                FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
589
590
        shape
                   = {it,scit,sscit,sw,scsw,sscsw} }
      {
591
592
         _{-} = \{ ,100\},
        \textbackslash
                             = \{100, 200\},\
                                               \quotesinglbase
                                                                   = \{300,700\},\
593
        \quotedblbase
                             = \{400, 500\},\
                                               \textquotedbl
                                                                   = \{400,500\},
594
                             = \{400,400\},
595
        \guilsinglleft
                                               \guilsinglright
                                                                    = \{300, 500\},\
         \guillemotleft
                             = \{300,300\},\
                                               \guillemotright
                                                                    = \{300,300\},\
596
         \textexclamdown
                             = \{100,
                                               \textquestiondown
                                                                   = \{200,
597
                                        },
                                              \textbraceright
                                                                    = \{200, 200\},\
         \textbraceleft
                             = \{200, 100\},\
598
599
      }
600 \SetProtrusion
                   = FedraSerifPro-LY1-it,
      [ name
```

```
load
                  = FedraSerifPro-T1-it ]
602
      { encoding = {LY1},
603
      family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
604
               FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
605
                  = {it,scit,sscit,sw,scsw,sscsw} }
        shape
606
      {
607
                              = \{100, 200\},\
        \textellipsis
608
609
610 \SetProtrusion
611
      Γ name
                  = FedraSerifPro-TS1-it ]
      { encoding = {TS1},
612
      family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
613
               FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOSF, FedraSerifProB-TLF},
614
                  = {it,scit,sscit,sw,scsw,sscsw} }
615
        shape
616
      {
        \textperiodcentered = {500,700},
617
        \text{textquotesingle} = \{400,400\},
618
      }
619
620 \SetProtrusion
      [ name
                  = FedraSerifPro-QX-it,
621
                  = FedraSerifPro-it
622
        load
      { encoding = \{QX\},
623
      family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
624
               FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
625
        shape
                  = {it,scit,sscit,sw,scsw,sscsw} }
626
627
      {
        _{-} = \{ ,100\},
628
        \textbackslash
                            = \{100, 200\},\
                                             \textellipsis
                                                                  = \{100, 200\},\
629
        \quotedblbase
                             = \{400, 500\},\
                                             \textquotedbl
                                                                 = \{400, 400\},
630
        \guillemotleft
                            = \{300, 300\},\
                                             \guillemotright
                                                                  = \{300, 300\},\
631
632
        \textexclamdown
                            = \{100, \},
                                             \text{text}questiondown = {200,
        \textbraceleft
                            = \{200, 100\},\
                                             \textbraceright
                                                                  = \{200, 200\},\
633
634
      }
635 \SetProtrusion
      [ name
                  = FedraSerifPro-T5-it,
636
                  = FedraSerifPro-it
        load
                                           ٦
637
      \{ \text{ encoding } = \{T5\}, 
638
      family = {FedraSerifProA-OsF,FedraSerifProA-LF,FedraSerifProA-TOsF,FedraSerifProA-TLF,%
639
               FedraSerifProB-OsF, FedraSerifProB-LF, FedraSerifProB-TOsF, FedraSerifProB-TLF},
640
641
        shape
                  = {it,scit,sscit,sw,scsw,sscsw} }
642
      {
643
        _{-} = \{ ,100\},
        \textbackslash
                            = \{100, 200\},\
                                             \quotesinglbase
                                                                 = \{300,700\},
644
        \quotedblbase
                             = \{400,500\},
                                             \textquotedb1
                                                                 = \{400, 500\},\
645
```

```
646 \guilsinglleft = {400,400}, \guilsinglright = {300,500},
647 \guillemotleft = {300,300}, \guillemotright = {300,300},
648 \textbraceleft = {200,100}, \textbraceright = {200,200},
649 }
650 \( /mtcfg \)
```

9 Font definition support package

As all font definitions look the same, we introduce macros to ease the configuration. These macros are stored in the file fedraserif-fd.sty, which is included by every FD file. Since fedraserif-fd.sty will be included several times and we do not know in which context the code is executed, we have to define all non-private commands as globals and avoid all \preambleonly commands.

We add a guard so that this file is executed only once even if it is included multiple times.

```
651 (*fontdef)
652 \ifx\fdrsf@scale\@undefined\else\endinput\fi
```

We distinguish between being loaded directly or via \usepackage in the preamble by checking \@nodocument.

```
653 \ifx\@nodocument\relax\else
654 \NeedsTeXFormat{LaTeX2e}
655 \RequirePackage{xkeyval}
656 \fi
```

Reset \escapechar (which is set to -1 in FD files) to make \newcommand work. The additional group does not harm; we have to make the important commands global anyway.

```
657 \ifx\@nodocument\relax
658 \begingroup
659 \escapechar'\\
660 \fi
```

The macro to make commands global is taken from the otfontdef package.

```
661 \newcommand*\fdrsf@makeglobal[1]{%
662 \global\expandafter\let\csname #1\expandafter\endcsname
663 \csname #1\endcsname
664 }
```

9.1 Options

These are the default values if it is impossible to process options.

```
665 \newcommand\fdrsf@mweight@normal{Book}
666 \newcommand\fdrsf@mweight@small{Book}
```

```
667 \newcommand\fdrsf@bweight@normal{Medium}
668 \newcommand\fdrsf@bweight@small{Medium}
669 \newcommand\fdrsf@scale{0.9}
670 \ifx\@nodocument\relax\else
     \newcommand*\fdrsf@fd@choicekey[3]{%
671
       \define@choicekey*{fedraserif-fd.sty}{#1}[\@tempa\@tempb]{#2}{#3}%
672
673
     \fdrsf@fd@choicekey{normalweight}{book,demi,auto}{%
674
       \ifcase\@tempb\relax
675
676
         \renewcommand\fdrsf@mweight@normal{Book}
         \renewcommand\fdrsf@mweight@small{Book}
677
678
         \renewcommand\fdrsf@mweight@normal{Demi}
679
         \renewcommand\fdrsf@mweight@small{Demi}
680
681
         \renewcommand\fdrsf@mweight@normal{Book}
682
         \renewcommand\fdrsf@mweight@small{Demi}
683
       \fi
684
685
     }
     \fdrsf@fd@choicekey{boldweight}{medium,bold,auto}{%
686
       \ifcase\@tempb\relax
687
         \renewcommand\fdrsf@bweight@normal{Medium}
688
         \renewcommand\fdrsf@bweight@small{Medium}
689
690
         \renewcommand\fdrsf@bweight@normal{Bold}
691
692
         \renewcommand\fdrsf@bweight@small{Bold}
693
       \or
         \renewcommand\fdrsf@bweight@normal{Medium}
694
         \renewcommand\fdrsf@bweight@small{Bold}
695
       \fi
696
697
    \define@key{fedraserif-fd.sty}{scale}[0.9]{\renewcommand*\fdrsf@scale{#1}}
     \ProcessOptionsX\relax
699
700\fi
701 \fdrsf@makeglobal{fdrsf@mweight@normal}
702 \fdrsf@makeglobal{fdrsf@mweight@small}
703 \fdrsf@makeglobal{fdrsf@bweight@normal}
704 \fdrsf@makeglobal{fdrsf@bweight@small}
705 \fdrsf@makeglobal{fdrsf@scale}
```

9.2 Font configuration

We define commands to write to and read from the configuration database.

```
706 \newcommand*{\fdrsf@addconfig}[4][]{%
```

```
\@for\@tempa:=#3\do{%
707
708
      \expandafter
       \gdef\csname fdrsf@config@#2@#1@\@tempa\endcsname{#4}%
709
710
    }%
711 }
712 \newcommand*{\fdrsf@useconfig}[3]{%
713 \@ifundefined{fdrsf@config@#2@#1@#3}{%
714
     \@ifundefined{fdrsf@config@#2@@#3}{}%
715
        {\csname fdrsf@config@#2@@#3\endcsname}%
    }{\csname fdrsf@config@#2@#1@#3\endcsname}%
716
717 }
718 \fdrsf@makeglobal{fdrsf@useconfig}
Now we can build up the configuration database.
719 \fdrsf@addconfig{weight/normal}{sl}{Book}
720 \fdrsf@addconfig{weight/small}{sl}{Book}
721 \fdrsf@addconfig{weight/normal}{m}{\fdrsf@mweight@normal}
722 \fdrsf@addconfig{weight/small}{m}{\fdrsf@mweight@small}
723 \fdrsf@addconfig{weight/normal}{md}{Demi}
724 \fdrsf@addconfig{weight/small}{md}{Demi}
725 \fdrsf@addconfig{weight/normal}{sb}{Medium}
726 \fdrsf@addconfig{weight/small}{sb}{Medium}
727 \fdrsf@addconfig{weight/normal}{b}{\fdrsf@bweight@normal}
728 \fdrsf@addconfig{weight/small}{b}{\fdrsf@bweight@small}
729 \fdrsf@addconfig{weight/small}{ub}{Bold}
730 \fdrsf@addconfig{weight/normal}{ub}{Bold}
731 \fdrsf@addconfig{subs/series}{bx}{b}
732 \fdrsf@addconfig{italic}{it,scit,sscit,sw,scsw,sscsw}{Italic}
733 \fdrsf@addconfig[OML]{italic}{n}{French}
734 \fdrsf@addconfig[OML]{italic}{it}{Mixed}
735 \fdrsf@addconfig{shape}{sc,scit}{-sc}
736 \fdrsf@addconfig{shape}{ssc,sscit}{-ssc}
737 \fdrsf@addconfig{shape}{sw}{-sw}
738 \fdrsf@addconfig{shape}{scsw}{-scsw}
739 \fdrsf@addconfig{shape}{sscsw}{-sscsw}
740 \fdrsf@addconfig{subs/shape}{sl}{it}
741 \fdrsf@addconfig{subs/shape}{scsl}{scit}
742 \fdrsf@addconfig{subs/shape}{sscsl}{sscit}
743 \fdrsf@addconfig[TS1]{subs/shape}{sw}{it}
744 \fdrsf@addconfig[TS1]{subs/shape}{scsw}{scit}
745 \fdrsf@addconfig[TS1]{subs/shape}{sscsw}{sscit}
This is the main macro to declare a single font shape.
746 \newcommand*\DeclareFedraSerifShape[5]{%
    \edef\@@tempa{\fdrsf@useconfig{#1}{subs/series}{#4}}%
    \edef\@@tempb{\fdrsf@useconfig{#1}{subs/shape}{#5}}%
```

```
\ifx\@@tempa\empty\ifx\@@tempb\empty
      \DeclareFontShape{#1}{FedraSerifPro#2-#3}{#4}{#5}{%
750
        <-7.1>s*[\fdrsf@scale]%
751
          FSerPro#2-%
752
          \fdrsf@useconfig{#1}{weight/small}{#4}%
753
          \fdrsf@useconfig{#1}{italic}{#5}-#3%
754
          \fdrsf@useconfig{#1}{shape}{#5}-#1%
755
756
        <7.1->s*[\fdrsf@scale]%
757
          FSerPro#2-%
          \fdrsf@useconfig{#1}{weight/normal}{#4}%
758
          \fdrsf@useconfig{#1}{italic}{#5}-#3%
759
          \fdrsf@useconfig{#1}{shape}{#5}-#1%
760
      }{}%
761
    \else
762
763
      \DeclareFontShape{#1}{FedraSerifPro#2-#3}{#4}{#5}{%
        <->ssub* FedraSerifPro#2-#3/#4/\@@tempb
764
      }{}%
765
766
    \fi\else
      \DeclareFontShape{#1}{FedraSerifPro#2-#3}{#4}{#5}{%
767
        <->ssub* FedraSerifPro#2-#3/\@@tempa/#5%
768
      }{}%
769
770
    \fi
771 }
772 \fdrsf@makeglobal{DeclareFedraSerifShape}
Finally, we provide commands to declare a complete family.
773 \newcommand*\DeclareFedraSerifFamily[5]{%
    \DeclareFontFamily{#1}{FedraSerifPro#2-#3}{}%
    \@for\fdrsf@series:=#4\do{%
775
      \@for\fdrsf@shape:=#5\do{%
776
        \DeclareFedraSerifShape{#1}{#2}{#3}{\fdrsf@series}{\fdrsf@shape}%
777
778
      }%
    }%
779
781 \fdrsf@makeglobal{DeclareFedraSerifFamily}
782 \newcommand*\DeclareFedraSerifLargeFamily[3]{%
    783
      {n,it,sc,ssc,scit,sscit,sw,scsw,sscsw,sl,scsl,sscsl}%
784
785 }
786 \fdrsf@makeglobal{DeclareFedraSerifLargeFamily}
787 \newcommand*\DeclareFedraSerifMediumFamily[3]{%
    788
      {n,it,sc,ssc,scit,sscit,sl,scsl,sscsl}%
789
790 }
791 \fdrsf@makeglobal{DeclareFedraSerifMediumFamily}
792 \newcommand*\DeclareFedraSerifSmallFamily[3]{%
```

```
794 }
795 \fdrsf@makeglobal{DeclareFedraSerifSmallFamily}
796 \newcommand*\DeclareFedraSerifTinyFamily[3]{%
    \DeclareFedraSerifFamily{#1}{#2}{#3}{sl,m,md,sb,b,bx,ub}{n}%
799 \fdrsf@makeglobal{DeclareFedraSerifTinyFamily}
800 \newcommand*\DeclareFedraSerifMathFamily[2]{%
    \def\ensuremath{\def}\
801
    \def\@tempb{TOsF}%
802
    \DeclareFontFamily{OML}{FedraSerifPro#1-#2}{\skewchar\font=127}%
803
    \@for\fdrsf@series:=m,md,sb,b,bx,ub\do{%
804
      \@for\fdrsf@shape:=n,it\do{%
805
        \ifx\@tempa\@tempb
806
807
        \DeclareFedraSerifShape{OML}{#1}{TOsF}{\fdrsf@series}{\fdrsf@shape}%
808
        \DeclareFontShape{OML}{FedraSerifPro#1-#2}{\fdrsf@series}{\fdrsf@shape}{%
809
            <->ssub* FedraSerifPro#1-T0sF/\fdrsf@series/\fdrsf@shape
810
811
          }{}%
812
        \fi
      }%
813
814
    }%
815 }
816 \fdrsf@makeglobal{DeclareFedraSerifMathFamily}
```

We define font family aliases so that we can place all configurations for the FedraSerifPro family variants into one microtype file: mt-FedraSerifPro.cfg. We use microtype's hook if microtype has not been loaded yet (which should be the case); otherwise we can execute the alias definitions directly.

```
817 \gdef\fdrsf@Microtype@Aliases{%
     \DeclareMicrotypeAlias{FedraSerifProA-LF}{FedraSerifPro}%
818
819
    \DeclareMicrotypeAlias{FedraSerifProA-OsF}{FedraSerifPro}%
    \DeclareMicrotypeAlias{FedraSerifProA-TLF}{FedraSerifPro}%
820
    \DeclareMicrotypeAlias{FedraSerifProA-TOsF}{FedraSerifPro}%
821
    \DeclareMicrotypeAlias{FedraSerifProB-LF}{FedraSerifPro}%
822
    \DeclareMicrotypeAlias{FedraSerifProB-OsF}{FedraSerifPro}%
823
     \DeclareMicrotypeAlias{FedraSerifProB-TLF}{FedraSerifPro}%
824
     \DeclareMicrotypeAlias{FedraSerifProB-TOsF}{FedraSerifPro}%
825
826 }
827 \@ifundefined{Microtype@Hook}{%
    \global\let\Microtype@Hook\fdrsf@Microtype@Aliases
828
829 }{%
830
     \g@addto@macro\Microtype@Hook{\fdrsf@Microtype@Aliases}%
831 }%
832 \@ifundefined{DeclareMicrotypeAlias}{}{\fdrsf@Microtype@Aliases}%
```

```
833 \ifx\@nodocument\relax
834 \endgroup
835 \fi
836 \fiftheref{
```

10 Font definition files

Using the above macros, the various FD files become simple two-liners.

```
837 (*fd)
838 \input{fedraserif-fd.sty}
839 (a & ot1 & If)\DeclareFedraSerifLargeFamily{OT1}{A}{LF}
840 (a & ot1 & osf)\DeclareFedraSerifLargeFamily{OT1}{A}{OsF}
841 (a & ot1 & tlf)\DeclareFedraSerifLargeFamily{OT1}{A}{TLF}
842 (a & ot1 & tosf)\DeclareFedraSerifLargeFamily{OT1}{A}{TOsF}
843 (a & ot2 & If)\DeclareFedraSerifMediumFamily{OT2}{A}{LF}
844 (a & ot2 & osf)\DeclareFedraSerifMediumFamily{OT2}{A}{OsF}
845 (a & ot2 & tlf)\DeclareFedraSerifMediumFamily{OT2}{A}{TLF}
846 (a & ot2 & tosf)\DeclareFedraSerifMediumFamily{OT2}{A}{TOsF}
847 (a & t1 & If)\DeclareFedraSerifLargeFamily{T1}{A}{LF}
848 (a & t1 & osf)\DeclareFedraSerifLargeFamily{T1}{A}{OsF}
849 \langle a \& t1 \& tlf \rangle \setminus A \ TLF}
850 (a & t1 & tosf)\DeclareFedraSerifLargeFamily{T1}{A}{T0sF}
851 \langle a \& t2a \& If \rangle \setminus DeclareFedraSerifMediumFamily{T2A}{A}{LF}
852 (a & t2a & osf)\DeclareFedraSerifMediumFamily{T2A}{A}{OsF}
853 (a & t2a & tlf)\DeclareFedraSerifMediumFamily{T2A}{A}{TLF}
854 (a & t2a & tosf)\DeclareFedraSerifMediumFamily{T2A}{A}{T0sF}
855 (a & t2b & If)\DeclareFedraSerifMediumFamily{T2B}{A}{LF}
856 \langle a \& t2b \& osf \rangle \setminus BeclareFedraSerifMediumFamily{T2B}{A}{OsF}
857 (a & t2b & tlf)\DeclareFedraSerifMediumFamily{T2B}{A}{TLF}
858 (a & t2b & tosf)\DeclareFedraSerifMediumFamily{T2B}{A}{T0sF}
859 (a & t2c & If)\DeclareFedraSerifMediumFamily{T2C}{A}{LF}
860 (a & t2c & osf)\DeclareFedraSerifMediumFamily{T2C}{A}{OsF}
861 \langle a \& t2c \& tlf \rangle \setminus DeclareFedraSerifMediumFamily{T2C}{A}{TLF}
862 (a & t2c & tosf)\DeclareFedraSerifMediumFamily{T2C}{A}{T0sF}
863 (a & ts1 & If)\DeclareFedraSerifLargeFamily{TS1}{A}{LF}
864 (a & ts1 & osf)\DeclareFedraSerifLargeFamily{TS1}{A}{OsF}
865 \langle a \& ts1 \& tlf \rangle \setminus BeclareFedraSerifLargeFamily{TS1}{A}{TLF}
866 (a & ts1 & tosf)\DeclareFedraSerifLargeFamily{TS1}{A}{TOsF}
867 (a & ly1 & lf)\DeclareFedraSerifLargeFamily{LY1}{A}{LF}
868 (a & ly1 & osf)\DeclareFedraSerifLargeFamily{LY1}{A}{OsF}
869 \langle a \& ly1 \& tlf \rangle \Delta eclareFedraSerifLargeFamily{LY1}{A}{TLF}
870 (a & ly1 & tosf)\DeclareFedraSerifLargeFamily{LY1}{A}{TOsF}
871 (a & qx & If)\DeclareFedraSerifLargeFamily{QX}{A}{LF}
872 \langle a \& qx \& osf \rangle \ Cosf}
```

```
873 (a & qx & tlf)\DeclareFedraSerifLargeFamily{QX}{A}{TLF}
874 (a & qx & tosf)\DeclareFedraSerifLargeFamily{QX}{A}{TOsF}
875 (a & t5 & If)\DeclareFedraSerifLargeFamily{T5}{A}{LF}
876 (a & t5 & osf)\DeclareFedraSerifLargeFamily{T5}{A}{OsF}
877 (a & t5 & tlf)\DeclareFedraSerifLargeFamily{T5}{A}{TLF}
878 (a & t5 & tosf)\DeclareFedraSerifLargeFamily{T5}{A}{T0sF}
879 \langle a \& lgr \& lf \rangle \setminus BeclareFedraSerifSmallFamily\{LGR\}\{A\}\{LF\}\}
880 (a & Igr & osf)\DeclareFedraSerifSmallFamily(LGR){A}{OsF}
881 (a & Igr & tlf)\DeclareFedraSerifSmallFamily{LGR}{A}{TLF}
882 (a & Igr & tosf)\DeclareFedraSerifSmallFamily{LGR}{A}{TOsF}
883 (a & x2 & If)\DeclareFedraSerifMediumFamily{X2}{A}{LF}
884 (a & x2 & osf)\DeclareFedraSerifMediumFamily{X2}{A}{OsF}
885 (a & x2 & tlf)\DeclareFedraSerifMediumFamily{X2}{A}{TLF}
886 (a & x2 & tosf)\DeclareFedraSerifMediumFamily{X2}{A}{TOsF}
887 (a & oml & If)\DeclareFedraSerifMathFamily{A}{LF}
888 (a & oml & osf)\DeclareFedraSerifMathFamily{A}{OsF}
889 (a & oml & tlf)\DeclareFedraSerifMathFamily(A){TLF}
890 (a & oml & tosf)\DeclareFedraSerifMathFamily(A){TOsF}
891 (a & u & extra)\DeclareFedraSerifSmallFamily{U}{A}{Extra}
892 (a & u & orn)\DeclareFedraSerifTinyFamily{U}{A}{Pi}
893 \langle a \& u \& bb \rangle DeclareFedraSerifFamily{U}{A}{BB}{m}{n}
894 (b & ot1 & If)\DeclareFedraSerifLargeFamily{OT1}{B}{LF}
896 (b & ot1 & tlf)\DeclareFedraSerifLargeFamily(OT1){B}{TLF}
897 (b & ot1 & tosf)\DeclareFedraSerifLargeFamily{OT1}{B}{TOsF}
898 (b & ot2 & If)\DeclareFedraSerifMediumFamily{OT2}{B}{LF}
899 (b & ot2 & osf)\DeclareFedraSerifMediumFamily{OT2}{B}{OsF}
900 (b & ot2 & tlf)\DeclareFedraSerifMediumFamily{OT2}{B}{TLF}
901 (b & ot2 & tosf)\DeclareFedraSerifMediumFamily{OT2}{B}{TOsF}
902 (b & t1 & If)\DeclareFedraSerifLargeFamily{T1}{B}{LF}
903 (b & t1 & osf)\DeclareFedraSerifLargeFamily{T1}{B}{OsF}
904 (b & t1 & tlf)\DeclareFedraSerifLargeFamily{T1}{B}{TLF}
905 (b & t1 & tosf)\DeclareFedraSerifLargeFamily{T1}{B}{T0sF}
906 (b & t2a & If)\DeclareFedraSerifMediumFamily{T2A}{B}{LF}
907 (b & t2a & osf)\DeclareFedraSerifMediumFamily{T2A}{B}{OsF}
908 (b & t2a & tlf)\DeclareFedraSerifMediumFamily{T2A}{B}{TLF}
909 (b & t2a & tosf)\DeclareFedraSerifMediumFamily{T2A}{B}{T0sF}
910 (b & t2b & If)\DeclareFedraSerifMediumFamily{T2B}{B}{LF}
911 (b & t2b & osf)\DeclareFedraSerifMediumFamily{T2B}{B}{OsF}
912 (b & t2b & tlf)\DeclareFedraSerifMediumFamily{T2B}{B}{TLF}
913 (b & t2b & tosf)\DeclareFedraSerifMediumFamily{T2B}{B}{T0sF}
914 (b & t2c & If)\DeclareFedraSerifMediumFamily{T2C}{B}{LF}
915 \langle b \& t2c \& osf \rangle \ DeclareFedraSerifMediumFamily{T2C}{B}{OsF}
916 (b & t2c & tlf)\DeclareFedraSerifMediumFamily{T2C}{B}{TLF}
917 (b & t2c & tosf)\DeclareFedraSerifMediumFamily{T2C}{B}{T0sF}
```

```
918 (b & ts1 & If)\DeclareFedraSerifLargeFamily{TS1}{B}{LF}
919 (b & ts1 & osf)\DeclareFedraSerifLargeFamily{TS1}{B}{OsF}
920 (b & ts1 & tlf)\DeclareFedraSerifLargeFamily{TS1}{B}{TLF}
921 (b & ts1 & tosf)\DeclareFedraSerifLargeFamily{TS1}{B}{TOsF}
922 (b & ly1 & lf)\DeclareFedraSerifLargeFamily{LY1}{B}{LF}
923 (b & ly1 & osf)\DeclareFedraSerifLargeFamily{LY1}{B}{OsF}
924 (b & ly1 & tlf)\DeclareFedraSerifLargeFamily{LY1}{B}{TLF}
925 (b & ly1 & tosf)\DeclareFedraSerifLargeFamily{LY1}{B}{TOsF}
926 (b & qx & If)\DeclareFedraSerifLargeFamily{QX}{B}{LF}
927 (b & qx & osf)\DeclareFedraSerifLargeFamily{QX}{B}{OsF}
928 (b & qx & tlf)\DeclareFedraSerifLargeFamily{QX}{B}{TLF}
929 \b \ qx \ \b \ TOsF
930 (b & t5 & If)\DeclareFedraSerifLargeFamily{T5}{B}{LF}
931 (b & t5 & osf)\DeclareFedraSerifLargeFamily{T5}{B}{OsF}
932 (b & t5 & tlf)\DeclareFedraSerifLargeFamily{T5}{B}{TLF}
933 (b & t5 & tosf)\DeclareFedraSerifLargeFamily{T5}{B}{T0sF}
934 (b & Igr & If)\DeclareFedraSerifSmallFamily{LGR}{B}{LF}
935 (b & Igr & osf)\DeclareFedraSerifSmallFamily(LGR){B}{OsF}
936 (b & Igr & tlf)\DeclareFedraSerifSmallFamily{LGR}{B}{TLF}
937 (b & lgr & tosf)\DeclareFedraSerifSmallFamily{LGR}{B}{TOsF}
938 (b \& x2 \& If) \ DeclareFedraSerifMediumFamily{X2}{B}{LF}
939 (b & x2 & osf)\DeclareFedraSerifMediumFamily{X2}{B}{OsF}
940 (b \& x2 \& tlf)\DeclareFedraSerifMediumFamily{X2}{B}{TLF}
941 (b & x2 & tosf)\DeclareFedraSerifMediumFamily{X2}{B}{TOsF}
942 (b & oml & If)\DeclareFedraSerifMathFamily{B}{LF}
943 (b & oml & osf)\DeclareFedraSerifMathFamily{B}{OsF}
944 (b & oml & tlf)\DeclareFedraSerifMathFamily{B}{TLF}
945 (b & oml & tosf)\DeclareFedraSerifMathFamily{B}{TOsF}
946 (b & u & extra)\DeclareFedraSerifSmallFamily{U}{B}{Extra}
947 (b & u & orn)\DeclareFedraSerifTinyFamily{U}{B}{Pi}
948 (b & u & bb)\DeclareFedraSerifFamily{U}{B}{BB}{m}{n}
949 (/fd)
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